

**PHASE VII SOIL VAPOR INTRUSION INVESTIGATION
MARCH 2014 SAMPLING EVENT
(SITE NUMBER: C755012A)
ITHACA SOUTH HILL
ITHACA, NEW YORK**

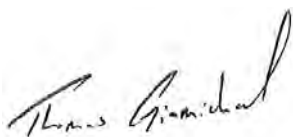
Prepared for

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Date

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1. Introduction

Project Background

Aztech Technologies, Inc. (Aztech) has prepared this report to present the results of the work conducted through New York State Department of Environmental Conservation (NYSDEC) call out number 118339, under contract number C100904, Site number C755012A. The site is located within the South Hill neighborhood in the City of Ithaca, Tompkins County, New York (**Figure 1**). The work request included soil vapor intrusion (SVI) sampling in six homes (Structure Numbers 60-65), including data validation and a summary report. In March 2014, sampling was conducted in accordance with the New York State Department of Health (NYSDOH) SVI Guidance, October 2006. This sampling event was conducted subsequent to the Phase VII SVI investigation completed by EA Engineering in February 2012 (Phase VII Soil Vapor Intrusion Investigation Summary Report Addendum, EA Engineering, July 2012) and the Phase VII SVI investigation completed by Aztech in November 2012 (Phase VII Soil Vapor Intrusion Investigation, November 2012 Sampling Event (Site Number: C755012A), Ithaca South Hill, Ithaca, New York, August 2013).

Objectives

The objective of the SVI monitoring was to further evaluate the potential for vapor intrusion within six selected structures located hydraulically down-gradient from, and within 300 feet or less of the sanitary sewer line that discharges from the Therm Facility located at 1000 Hudson Street Extension, Ithaca, New York. Low levels of chlorinated volatile organic contaminants (VOCs), including perchloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene were detected in groundwater monitoring wells installed on the Therm property (*Groundwater Investigation Report, December 2013*), in soil vapor samples installed along the Therm sanitary sewer line, and in residential sump water samples from two homes proximate to the Therm facility.

Report Organization

A summary of SVI monitoring activities conducted in March 2014 is included in Section 2.0. Additionally, Section 3 summarizes laboratory analytical results of the soil vapor samples collected from the six select homes. Laboratory analytical results are summarized in **Table 1** and presented on **Figure 2**. The complete analytical report is included as **Appendix A**. Structural Sampling Questionnaires are provided in **Appendix B**, the Data Usability Summary Report (DUSR) is provided in **Appendix C**, and a photographic product inventory log is provided in **Appendix D**.

2. Field Investigation Activities

SVI monitoring was conducted by Aztech on March 6 and 7, 2014, at Structures 60, 61, 62, 63, 64, and 65. Copies of Structural Sampling Questionnaires are included in Appendix B.

All structures were tested using SUMMA® canisters, equipped with regulators set to collect samples over a 24-hour period. At the structures listed below, samples were collected from a combination of sub-slab, indoor basement, and ambient air locations. Quality Assurance/Quality Control (QA/QC) duplicate samples were collected from each sample location taken at Structure Number 59.

2.1 Structure Monitoring Sampling

Structure 60

Air samples were collected at Structure 60 between March 6 and 7, 2014. One indoor sub-slab, one indoor basement air, and one ambient air samples were collected. The basement floor of Structure 60 is poured concrete, and appeared to be in good condition. A floor drain and sewer and water utility lines were observed in the floor of the basement. One sub-slab sample and one basement air sample were collected from the area in the vicinity of the floor drain and the furnace.

Structure 61

Air samples were collected at Structure 61 between March 6 and 7, 2014. One indoor sub slab and one indoor basement air sample were collected. The basement floor of Structure 61 was poured concrete, and overall appeared to be in good condition. However, several cracks were observed, but, they are likely surficial. A portion of the basement was finished into a family room. The basement also contained a floor drain. The sub-slab vapor sample was collected from the unfinished portion of the basement in the vicinity of the furnace and floor drain and the basement indoor air sample was collected from the unfinished portion of the basement in an area more central to the finished portion.

Structure 62

Air samples were collected at Structure 62 between March 6 and 7, 2014. One indoor sub-slab air, one indoor basement air, and one ambient air sample were collected. A portion of the basement had been finished into a bedroom, bathroom, and laundry room area. The finished portion was separated from the unfinished portion by a door. The unfinished basement floor of

Structure 62 was concrete, and observed to be in good condition. The sub-slab air and basement air samples were collected in the unfinished portion of the basement.

Structure 63

Air samples were collected at Structure 63 between March 6 and 7, 2014. One indoor sub-slab and two indoor basement air samples were collected. The basement was separated into two portions; the main portion was accessible to the first floor of the home and contained all utilities, a furnace, and a hot water tank. The other portion was a storage type space with outside access. The main portion basement floor was poured concrete and was observed to be in good condition. The basement contained floor penetrations for a floor drain and a sewer pipe. The indoor basement sample was collected from the central portion of the basement.

Structure 64

Air samples were collected at Structure 64 between March 6 and 7, 2014. One indoor sub-slab, one ambient air, and one indoor basement air sample were collected. The basement floor was poured concrete and was observed to be in good condition. The basement contained a sump pump, washer and dryer, and a wall penetration for a sewer pipe. The indoor basement sample and sub-slab sample were collected from the central portion of the basement.

Structure 65

Air samples were collected at Structure 65 between March 6 and 7, 2014. One indoor basement air and one ambient air sample were collected. The basement floor was earthen and covered with plastic sheeting. The basement area was only accessible from a hatch door on the southern portion of the structure and was not accessible from the main floor. The indoor basement sample was collected from the central portion of the basement.

Field Duplicates

Field QA/QC control sampling included collection of duplicate samples collected from the indoor basement air sample in Structure 62 between March 6 and 7, 2014. The duplicate sample collected from the indoor basement point was connected with tees and drawn from a single orifice concurrent with the original sample at that location.

3. Results

The data validation report is included in **Appendix C**. This section summarizes the analytical results of SVI monitoring conducted at the site in March 2014. SVI monitoring samples were analyzed by an Environmental Laboratory Approved Program (ELAP) certified laboratory in accordance with the reporting requirements as defined in NYSDEC Analytical Services Protocol of June 2000. The laboratory analytical data package was reported using Category B deliverables and a standard electronic data deliverable. The analytical data package was validated by EnviroAnalytics, an independent third party. Laboratory analytical data were evaluated in accordance with the NYSDOH SVI Guidance. The structural sampling questionnaires for each of the structures are included in **Appendix B**.

3.1 Analytical Results

An analytical summary table for Phase VII SVI monitoring sampling data is provided in Table 1. Figure 2 depicts the analytical results of the sampling, specifically those associated with a decision matrix and air guidelines presented in the NYSDOH SVI Guidance. An analytical summary table is provided as Table 1.

Structure 60

Laboratory analytical results indicate that tetrachlorethene (PCE) and its breakdown products: trichloroethene (TCE), cis-1,2-dichloroethene, and vinyl chloride were all non-detect (ND) in sub-slab vapor and in basement indoor air. PCE breakdown product trans-1,2-dichloroethene was detected in sub-slab vapor ($0.61 \mu\text{g}/\text{m}^3$) and in basement indoor air ($4.6 \mu\text{g}/\text{m}^3$). Based on the NYSDOH Soil Vapor Intrusion Guidance, actions are not necessary to address potential exposures related to soil vapor.

Structure 61

Laboratory analytical results indicate that PCE, TCE, and their breakdown products were all ND in sub-slab vapor and in basement indoor air. Based on the NYSDOH Soil Vapor Intrusion Guidance, actions are not necessary to address potential exposures related to soil vapor.

Structure 62

Laboratory analytical results indicate that PCE was detected at $1.1 \mu\text{g}/\text{m}^3$ in sub-slab vapor and was ND in both basement indoor air and the duplicate. PCE breakdown products, including TCE were all ND in sub-slab vapor and in both basement indoor air and the duplicate. Based on the

NYSDOH Soil Vapor Intrusion Guidance, actions are not necessary to address potential exposures related to soil vapor.

Structure 63

Laboratory analytical results indicate that PCE was detected at $0.89 \mu\text{g}/\text{m}^3$ in sub-slab vapor but, and was ND in both basement indoor air samples. PCE breakdown products, including TCE, were all ND in sub-slab vapor and in both basement indoor air samples. Based on the NYSDOH Soil Vapor Intrusion Guidance actions are not necessary to address potential exposures related to soil vapor.

Structure 64

Laboratory analytical results indicate that PCE and TCE were both detected in sub-slab vapor at $1.50 \mu\text{g}/\text{m}^3$ and $72 \mu\text{g}/\text{m}^3$, respectively, and were ND in basement indoor air. All other breakdown products including, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride were ND in sub-slab vapor and in basement indoor air samples. Based on the NYSDOH Soil Vapor Intrusion Guidance actions are not necessary to address potential exposures related to soil vapor.

Structure 65

Laboratory analytical results indicate that PCE, TCE, and their breakdown products were all ND in basement indoor air. Based on the NYSDOH Soil Vapor Intrusion Guidance actions are not necessary to address potential exposures related to soil vapor.

3.2 Data Usability Summary Reports

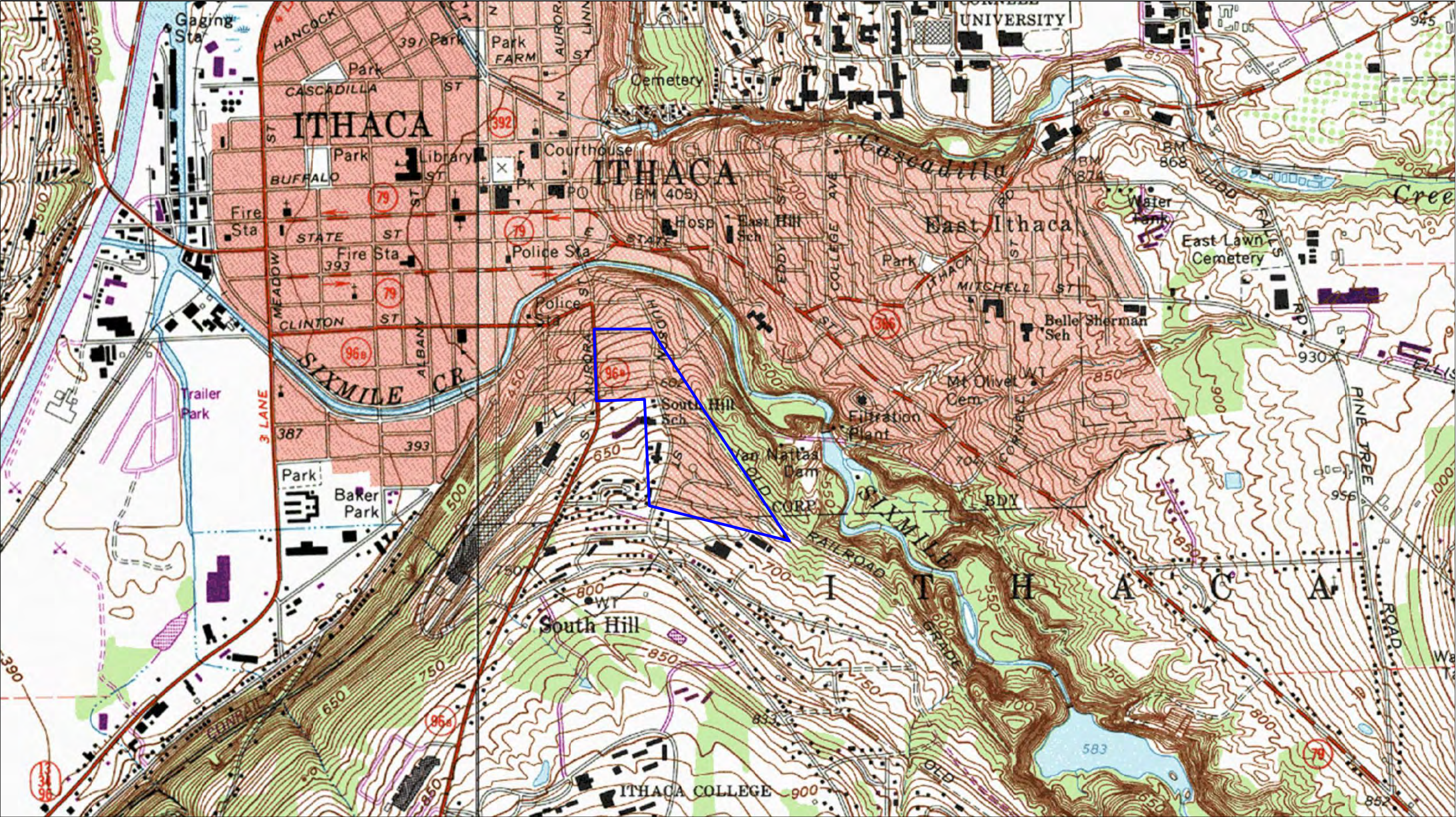
EnviroAnalytics Data validation service of Utica, New York validated the analytical data package submitted to Aztech by Test America of Knoxville, Tennessee. Analytical data packages are submitted as sample delivery groups (SDGs) based on the number of samples within each shipment received at the laboratory for analysis. The SDG associated with this soil vapor sampling event was reviewed for completeness and compliance as defined by the requirements for NYSDEC Analytical Services Protocol Category B deliverables.

Data validation was completed for 16 air samples. TO-15 volatile organic analyses data were determined to be usable for qualitative and quantitative purposes as presented by the laboratory. Further, the completeness of the data was determined to be 100 percent (**Appendix C**).

4. Conclusion

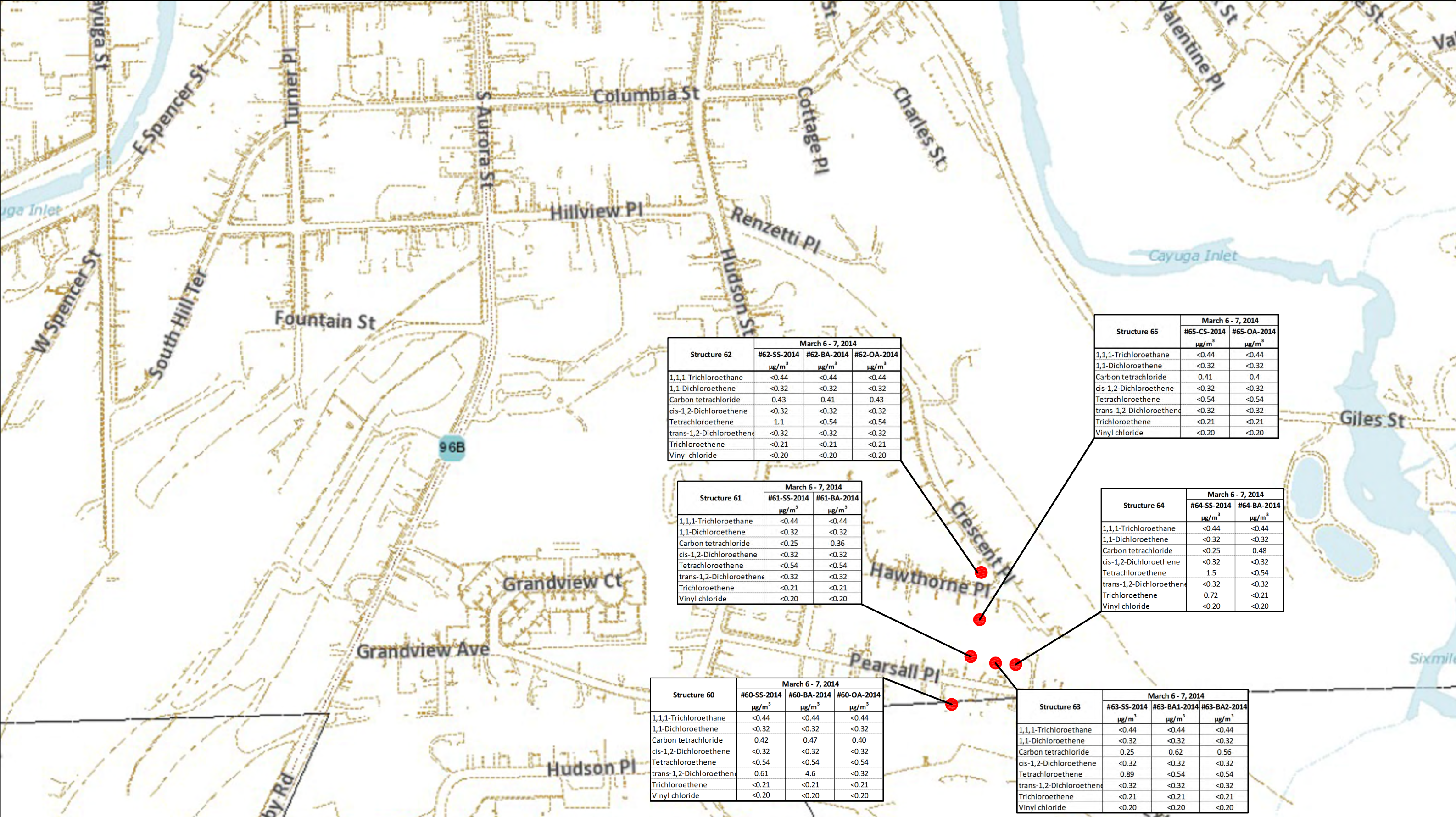
The NYSDEC and NYSDOH have evaluated the data generated during the Phase VII SVI evaluations and in conjunction with current understanding of the nature and extent of contamination, no further actions were necessary at any of the Structures (Structures 60 – 65) sampled during the March 2014 sampling event.

Figures



Remediation Solutions • Environmental Consulting • Drilling Applications  Aztech Technologies, Inc. Woman Owned Business 5 McCreia Hill Road Ballston Spa, NY 12020 p 518.885.5383 f 518.885.5385 info@aztechtech.com www.aztechtech.com	LEGEND Structures 56 through 59 are located within boundary line	Site Location Ithaca South Hill Ithaca, New York	Site Location Map
	FIGURE 1		
	DATE: November 13-14, 2012	SCALE: Not to Scale	

Source: Tompkins County Property Viewer



Tables

Table 1
LABORATORY ANALYTICAL RESULTS SUMMARY - SOIL VAPOR INTRUSION MONITORING
Ithaca South Hill
Ithaca, New York
March 6-7, 2014

Property ID	Sturcture 60			Sturcture 61		Sturcture 62				Sturcture 63			Sturcture 64		Sturcture 65	
Sample ID	#60-SS-2014	#60-BA-2014	#60-OA-2014	#61-SS-2014	#61-BA-2014	#62-SS-2014	#62-BA-2014	DUP1	#62-OA-2014	#63-SS-2014	#63-BA1-2014	#63-BA2-2014	#64-SS-2014	#64-BA-2014	#65-CS-2014	#65-OA-2014
Sample Type	Sub-Slab	Basement Indoor Air	Outdoor Air	Sub-Slab	Basement Indoor Air	Sub-Slab	Basement Indoor Air	Basement Indoor Air	Outdoor Air	Sub-Slab	Basement Indoor Air	Basement Indoor Air	Sub-Slab	Basement Indoor Air	Basement Indoor Air	Outdoor Air
Parameter List																
1,1,1-Trichloroethane	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
1,1-Dichloroethene	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
Carbon tetrachloride	0.42	0.47	0.40	<0.25	0.36	0.43	0.41	0.36	0.43	0.25	0.62	0.56	<0.25	0.48	0.41	0.40
cis-1,2-Dichloroethene	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
Tetrachloroethene	<0.54	<0.54	<0.54	<0.54	<0.54	1.1	<0.54	<0.54	<0.54	0.89	<0.54	<0.54	1.5	<0.54	<0.54	<0.54
trans-1,2-Dichloroethene	0.61	4.6	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
Trichloroethene	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.72	<0.21	<0.21	<0.21
Vinyl chloride	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Notes:

µg/m³ - all results are presented in micrograms per cubic meter

DUP1 - duplicate sample collected from #62-BA-2014

<0.44 - the analyte was detected below the reporting limit

Appendix A

Laboratory Analytical Report

ANALYTICAL REPORT

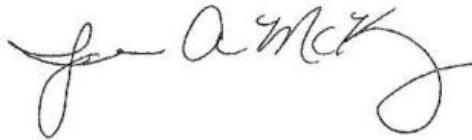
Job Number: 140-1042-1

Job Description: OFF-SITE Former Axiohm # C755012A

For:

New York State D.E.C.
615 Erie Blvd., West
Syracuse, NY 13204

Attention: Ms. Karen Cahill



Approved for release.
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03/24/2014

The test results in this report meet all 2003 NELAC and 2003 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Definitions/Glossary

Client: New York State D.E.C.

TestAmerica Job ID: 140-1042-1

Project/Site: OFF-SITE Former Axiohm # C755012A

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
140-1042-1

Comments

No additional comments.

Receipt

The samples were received on 3/12/2014 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA

Method(s) TO 14A, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO 15 LL, TO-15: Quantitation for ethanol was previously based on a one-point calibration standard at the reporting limit. This compound was quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for this additional analyte is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an $r^2 \geq 0.990$ acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

No other analytical or quality issues were noted.

Detection Summary

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #60-SS-2014

Lab Sample ID: 140-1042-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.066		0.040		ppb v/v	1		TO 15 LL	Total/NA
trans-1,2-Dichloroethene	0.15		0.080		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.42		0.25		ug/m3	1		TO 15 LL	Total/NA
trans-1,2-Dichloroethene	0.61		0.32		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #60-BA-2014

Lab Sample ID: 140-1042-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.075		0.040		ppb v/v	1		TO 15 LL	Total/NA
trans-1,2-Dichloroethene	1.2		0.080		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.47		0.25		ug/m3	1		TO 15 LL	Total/NA
trans-1,2-Dichloroethene	4.6		0.32		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #61-SS-2014

Lab Sample ID: 140-1042-3

No Detections.

Client Sample ID: #61-BA-2014

Lab Sample ID: 140-1042-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.056		0.040		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.36		0.25		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #60-OA-2014

Lab Sample ID: 140-1042-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.064		0.040		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.40		0.25		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #62-SS-2014

Lab Sample ID: 140-1042-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.068		0.040		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	0.16		0.080		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.43		0.25		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	1.1		0.54		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #62-BA-2014

Lab Sample ID: 140-1042-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.065		0.040		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.41		0.25		ug/m3	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: DUP1

Lab Sample ID: 140-1042-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.057		0.040		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.36		0.25		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #62-OA-2014

Lab Sample ID: 140-1042-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.068		0.040		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.43		0.25		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #63-SS-2014

Lab Sample ID: 140-1042-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.040		0.040		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	0.13		0.080		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.25		0.25		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	0.89		0.54		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #63-BA1-2014

Lab Sample ID: 140-1042-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.098		0.040		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.62		0.25		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #63-BA2-2014

Lab Sample ID: 140-1042-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.088		0.040		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.56		0.25		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #64-SS-2014

Lab Sample ID: 140-1042-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.22		0.080		ppb v/v	1		TO 15 LL	Total/NA
Trichloroethene	0.13		0.040		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.5		0.54		ug/m3	1		TO 15 LL	Total/NA
Trichloroethene	0.72		0.21		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #64-BA-2014

Lab Sample ID: 140-1042-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.076		0.040		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.48		0.25		ug/m3	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #65-OA-2014

Lab Sample ID: 140-1042-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.064		0.040		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.40		0.25		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: #65-CS-2014

Lab Sample ID: 140-1042-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.065		0.040		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.41		0.25		ug/m3	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #60-SS-2014

Lab Sample ID: 140-1042-1

Date Collected: 03/06/14 09:31

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 13:58	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 13:58	1
Carbon tetrachloride	0.066		0.040		ppb v/v			03/17/14 13:58	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 13:58	1
Tetrachloroethene	ND		0.080		ppb v/v			03/17/14 13:58	1
trans-1,2-Dichloroethene	0.15		0.080		ppb v/v			03/17/14 13:58	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 13:58	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 13:58	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 13:58	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 13:58	1
Carbon tetrachloride	0.42		0.25		ug/m3			03/17/14 13:58	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 13:58	1
Tetrachloroethene	ND		0.54		ug/m3			03/17/14 13:58	1
trans-1,2-Dichloroethene	0.61		0.32		ug/m3			03/17/14 13:58	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 13:58	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140					03/17/14 13:58	1

Client Sample ID: #60-BA-2014

Lab Sample ID: 140-1042-2

Date Collected: 03/06/14 09:32

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 14:52	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 14:52	1
Carbon tetrachloride	0.075		0.040		ppb v/v			03/17/14 14:52	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 14:52	1
Tetrachloroethene	ND		0.080		ppb v/v			03/17/14 14:52	1
trans-1,2-Dichloroethene	1.2		0.080		ppb v/v			03/17/14 14:52	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 14:52	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 14:52	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 14:52	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 14:52	1
Carbon tetrachloride	0.47		0.25		ug/m3			03/17/14 14:52	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 14:52	1
Tetrachloroethene	ND		0.54		ug/m3			03/17/14 14:52	1
trans-1,2-Dichloroethene	4.6		0.32		ug/m3			03/17/14 14:52	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 14:52	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140					03/17/14 14:52	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #61-SS-2014

Lab Sample ID: 140-1042-3

Date Collected: 03/06/14 13:04

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 15:47	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 15:47	1
Carbon tetrachloride	ND		0.040		ppb v/v			03/17/14 15:47	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 15:47	1
Tetrachloroethene	ND		0.080		ppb v/v			03/17/14 15:47	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 15:47	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 15:47	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 15:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 15:47	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 15:47	1
Carbon tetrachloride	ND		0.25		ug/m3			03/17/14 15:47	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 15:47	1
Tetrachloroethene	ND		0.54		ug/m3			03/17/14 15:47	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 15:47	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 15:47	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140		03/17/14 15:47	1

Client Sample ID: #61-BA-2014

Lab Sample ID: 140-1042-4

Date Collected: 03/06/14 15:09

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 17:38	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 17:38	1
Carbon tetrachloride	0.056		0.040		ppb v/v			03/17/14 17:38	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 17:38	1
Tetrachloroethene	ND		0.080		ppb v/v			03/17/14 17:38	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 17:38	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 17:38	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 17:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 17:38	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 17:38	1
Carbon tetrachloride	0.36		0.25		ug/m3			03/17/14 17:38	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 17:38	1
Tetrachloroethene	ND		0.54		ug/m3			03/17/14 17:38	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 17:38	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 17:38	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140		03/17/14 17:38	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #60-OA-2014

Lab Sample ID: 140-1042-5

Date Collected: 03/06/14 09:36

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 16:41	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 16:41	1
Carbon tetrachloride	0.064		0.040		ppb v/v			03/17/14 16:41	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 16:41	1
Tetrachloroethene	ND		0.080		ppb v/v			03/17/14 16:41	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 16:41	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 16:41	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 16:41	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 16:41	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 16:41	1
Carbon tetrachloride	0.40		0.25		ug/m3			03/17/14 16:41	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 16:41	1
Tetrachloroethene	ND		0.54		ug/m3			03/17/14 16:41	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 16:41	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 16:41	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		60 - 140		03/17/14 16:41	1

Client Sample ID: #62-SS-2014

Lab Sample ID: 140-1042-6

Date Collected: 03/06/14 13:10

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 19:09	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 19:09	1
Carbon tetrachloride	0.068		0.040		ppb v/v			03/17/14 19:09	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 19:09	1
Tetrachloroethene	0.16		0.080		ppb v/v			03/17/14 19:09	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 19:09	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 19:09	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 19:09	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 19:09	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 19:09	1
Carbon tetrachloride	0.43		0.25		ug/m3			03/17/14 19:09	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 19:09	1
Tetrachloroethene	1.1		0.54		ug/m3			03/17/14 19:09	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 19:09	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 19:09	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140		03/17/14 19:09	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #62-BA-2014

Lab Sample ID: 140-1042-7

Date Collected: 03/06/14 13:11

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 20:03	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 20:03	1
Carbon tetrachloride	0.065		0.040		ppb v/v			03/17/14 20:03	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 20:03	1
Tetrachloroethene	ND		0.080		ppb v/v			03/17/14 20:03	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 20:03	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 20:03	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 20:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 20:03	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 20:03	1
Carbon tetrachloride	0.41		0.25		ug/m3			03/17/14 20:03	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 20:03	1
Tetrachloroethene	ND		0.54		ug/m3			03/17/14 20:03	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 20:03	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 20:03	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140		03/17/14 20:03	1

Client Sample ID: DUP1

Lab Sample ID: 140-1042-8

Date Collected: 03/06/14 00:00

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 20:58	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 20:58	1
Carbon tetrachloride	0.057		0.040		ppb v/v			03/17/14 20:58	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 20:58	1
Tetrachloroethene	ND		0.080		ppb v/v			03/17/14 20:58	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 20:58	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 20:58	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 20:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 20:58	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 20:58	1
Carbon tetrachloride	0.36		0.25		ug/m3			03/17/14 20:58	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 20:58	1
Tetrachloroethene	ND		0.54		ug/m3			03/17/14 20:58	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 20:58	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 20:58	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 20:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140		03/17/14 20:58	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #62-OA-2014

Lab Sample ID: 140-1042-9

Date Collected: 03/06/14 13:15

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 21:53	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 21:53	1
Carbon tetrachloride	0.068		0.040		ppb v/v			03/17/14 21:53	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 21:53	1
Tetrachloroethene	ND		0.080		ppb v/v			03/17/14 21:53	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 21:53	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 21:53	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 21:53	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 21:53	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 21:53	1
Carbon tetrachloride	0.43		0.25		ug/m3			03/17/14 21:53	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 21:53	1
Tetrachloroethene	ND		0.54		ug/m3			03/17/14 21:53	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 21:53	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 21:53	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		60 - 140					03/17/14 21:53	1

Client Sample ID: #63-SS-2014

Lab Sample ID: 140-1042-10

Date Collected: 03/06/14 11:25

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 22:47	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 22:47	1
Carbon tetrachloride	0.040		0.040		ppb v/v			03/17/14 22:47	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 22:47	1
Tetrachloroethene	0.13		0.080		ppb v/v			03/17/14 22:47	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 22:47	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 22:47	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 22:47	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 22:47	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 22:47	1
Carbon tetrachloride	0.25		0.25		ug/m3			03/17/14 22:47	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 22:47	1
Tetrachloroethene	0.89		0.54		ug/m3			03/17/14 22:47	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 22:47	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 22:47	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140					03/17/14 22:47	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #63-BA1-2014

Lab Sample ID: 140-1042-11

Date Collected: 03/06/14 11:06

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 23:42	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 23:42	1
Carbon tetrachloride	0.098		0.040		ppb v/v			03/17/14 23:42	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 23:42	1
Tetrachloroethene	ND		0.080		ppb v/v			03/17/14 23:42	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 23:42	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 23:42	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 23:42	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 23:42	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 23:42	1
Carbon tetrachloride	0.62		0.25		ug/m3			03/17/14 23:42	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 23:42	1
Tetrachloroethene	ND		0.54		ug/m3			03/17/14 23:42	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 23:42	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 23:42	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140					03/17/14 23:42	1

Client Sample ID: #63-BA2-2014

Lab Sample ID: 140-1042-12

Date Collected: 03/06/14 11:08

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/18/14 00:37	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/18/14 00:37	1
Carbon tetrachloride	0.088		0.040		ppb v/v			03/18/14 00:37	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/18/14 00:37	1
Tetrachloroethene	ND		0.080		ppb v/v			03/18/14 00:37	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/18/14 00:37	1
Trichloroethene	ND		0.040		ppb v/v			03/18/14 00:37	1
Vinyl chloride	ND		0.080		ppb v/v			03/18/14 00:37	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/18/14 00:37	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/18/14 00:37	1
Carbon tetrachloride	0.56		0.25		ug/m3			03/18/14 00:37	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/18/14 00:37	1
Tetrachloroethene	ND		0.54		ug/m3			03/18/14 00:37	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/18/14 00:37	1
Trichloroethene	ND		0.21		ug/m3			03/18/14 00:37	1
Vinyl chloride	ND		0.20		ug/m3			03/18/14 00:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		60 - 140					03/18/14 00:37	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #64-SS-2014

Lab Sample ID: 140-1042-13

Date Collected: 03/06/14 16:32

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/18/14 01:31	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/18/14 01:31	1
Carbon tetrachloride	ND		0.040		ppb v/v			03/18/14 01:31	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/18/14 01:31	1
Tetrachloroethene	0.22		0.080		ppb v/v			03/18/14 01:31	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/18/14 01:31	1
Trichloroethene	0.13		0.040		ppb v/v			03/18/14 01:31	1
Vinyl chloride	ND		0.080		ppb v/v			03/18/14 01:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/18/14 01:31	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/18/14 01:31	1
Carbon tetrachloride	ND		0.25		ug/m3			03/18/14 01:31	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/18/14 01:31	1
Tetrachloroethene	1.5		0.54		ug/m3			03/18/14 01:31	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/18/14 01:31	1
Trichloroethene	0.72		0.21		ug/m3			03/18/14 01:31	1
Vinyl chloride	ND		0.20		ug/m3			03/18/14 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140		03/18/14 01:31	1

Client Sample ID: #64-BA-2014

Lab Sample ID: 140-1042-14

Date Collected: 03/06/14 16:34

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/18/14 02:25	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/18/14 02:25	1
Carbon tetrachloride	0.076		0.040		ppb v/v			03/18/14 02:25	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/18/14 02:25	1
Tetrachloroethene	ND		0.080		ppb v/v			03/18/14 02:25	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/18/14 02:25	1
Trichloroethene	ND		0.040		ppb v/v			03/18/14 02:25	1
Vinyl chloride	ND		0.080		ppb v/v			03/18/14 02:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/18/14 02:25	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/18/14 02:25	1
Carbon tetrachloride	0.48		0.25		ug/m3			03/18/14 02:25	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/18/14 02:25	1
Tetrachloroethene	ND		0.54		ug/m3			03/18/14 02:25	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/18/14 02:25	1
Trichloroethene	ND		0.21		ug/m3			03/18/14 02:25	1
Vinyl chloride	ND		0.20		ug/m3			03/18/14 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140		03/18/14 02:25	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #65-OA-2014

Lab Sample ID: 140-1042-15

Date Collected: 03/06/14 10:34

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/18/14 03:20	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/18/14 03:20	1
Carbon tetrachloride	0.064		0.040		ppb v/v			03/18/14 03:20	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/18/14 03:20	1
Tetrachloroethene	ND		0.080		ppb v/v			03/18/14 03:20	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/18/14 03:20	1
Trichloroethene	ND		0.040		ppb v/v			03/18/14 03:20	1
Vinyl chloride	ND		0.080		ppb v/v			03/18/14 03:20	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/18/14 03:20	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/18/14 03:20	1
Carbon tetrachloride	0.40		0.25		ug/m3			03/18/14 03:20	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/18/14 03:20	1
Tetrachloroethene	ND		0.54		ug/m3			03/18/14 03:20	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/18/14 03:20	1
Trichloroethene	ND		0.21		ug/m3			03/18/14 03:20	1
Vinyl chloride	ND		0.20		ug/m3			03/18/14 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140		03/18/14 03:20	1

Client Sample ID: #65-CS-2014

Lab Sample ID: 140-1042-16

Date Collected: 03/06/14 10:32

Matrix: Air

Date Received: 03/12/14 08:45

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/18/14 04:14	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/18/14 04:14	1
Carbon tetrachloride	0.065		0.040		ppb v/v			03/18/14 04:14	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/18/14 04:14	1
Tetrachloroethene	ND		0.080		ppb v/v			03/18/14 04:14	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/18/14 04:14	1
Trichloroethene	ND		0.040		ppb v/v			03/18/14 04:14	1
Vinyl chloride	ND		0.080		ppb v/v			03/18/14 04:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/18/14 04:14	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/18/14 04:14	1
Carbon tetrachloride	0.41		0.25		ug/m3			03/18/14 04:14	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/18/14 04:14	1
Tetrachloroethene	ND		0.54		ug/m3			03/18/14 04:14	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/18/14 04:14	1
Trichloroethene	ND		0.21		ug/m3			03/18/14 04:14	1
Vinyl chloride	ND		0.20		ug/m3			03/18/14 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140		03/18/14 04:14	1

TestAmerica Knoxville

Default Detection Limits

Client: New York State D.E.C.

TestAmerica Job ID: 140-1042-1

Project/Site: OFF-SITE Former Axiohm # C755012A

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.080	0.012	ppb v/v	TO 15 LL
1,1,1-Trichloroethane	0.44	0.065	ug/m3	TO 15 LL
1,1-Dichloroethene	0.080	0.014	ppb v/v	TO 15 LL
1,1-Dichloroethene	0.32	0.056	ug/m3	TO 15 LL
Carbon tetrachloride	0.040	0.015	ppb v/v	TO 15 LL
Carbon tetrachloride	0.25	0.094	ug/m3	TO 15 LL
cis-1,2-Dichloroethene	0.080	0.024	ppb v/v	TO 15 LL
cis-1,2-Dichloroethene	0.32	0.095	ug/m3	TO 15 LL
Tetrachloroethene	0.080	0.016	ppb v/v	TO 15 LL
Tetrachloroethene	0.54	0.11	ug/m3	TO 15 LL
trans-1,2-Dichloroethene	0.080	0.020	ppb v/v	TO 15 LL
trans-1,2-Dichloroethene	0.32	0.079	ug/m3	TO 15 LL
Trichloroethene	0.040	0.014	ppb v/v	TO 15 LL
Trichloroethene	0.21	0.075	ug/m3	TO 15 LL
Vinyl chloride	0.080	0.029	ppb v/v	TO 15 LL
Vinyl chloride	0.20	0.074	ug/m3	TO 15 LL

Surrogate Summary

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (60-140)
140-1042-1	#60-SS-2014	94
140-1042-2	#60-BA-2014	96
140-1042-3	#61-SS-2014	96
140-1042-4	#61-BA-2014	95
140-1042-5	#60-OA-2014	91
140-1042-6	#62-SS-2014	95
140-1042-7	#62-BA-2014	94
140-1042-8	DUP1	96
140-1042-9	#62-OA-2014	89
140-1042-10	#63-SS-2014	96
140-1042-11	#63-BA1-2014	96
140-1042-12	#63-BA2-2014	102
140-1042-13	#64-SS-2014	96
140-1042-14	#64-BA-2014	98
140-1042-15	#65-OA-2014	94
140-1042-16	#65-CS-2014	94
LCS 140-968/1002	Lab Control Sample	101
MB 140-968/4	Method Blank	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Lab Sample ID: MB 140-968/4

Matrix: Air

Analysis Batch: 968

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/17/14 13:02	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/17/14 13:02	1
Carbon tetrachloride	ND		0.040		ppb v/v			03/17/14 13:02	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 13:02	1
Tetrachloroethene	ND		0.080		ppb v/v			03/17/14 13:02	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/17/14 13:02	1
Trichloroethene	ND		0.040		ppb v/v			03/17/14 13:02	1
Vinyl chloride	ND		0.080		ppb v/v			03/17/14 13:02	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/17/14 13:02	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/17/14 13:02	1
Carbon tetrachloride	ND		0.25		ug/m3			03/17/14 13:02	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 13:02	1
Tetrachloroethene	ND		0.54		ug/m3			03/17/14 13:02	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/17/14 13:02	1
Trichloroethene	ND		0.21		ug/m3			03/17/14 13:02	1
Vinyl chloride	ND		0.20		ug/m3			03/17/14 13:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140		03/17/14 13:02	1

Lab Sample ID: LCS 140-968/1002

Matrix: Air

Analysis Batch: 968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	1.94		ppb v/v		97	70 - 130
1,1-Dichloroethene	2.00	2.01		ppb v/v		100	70 - 130
Carbon tetrachloride	2.00	2.13		ppb v/v		106	70 - 130
cis-1,2-Dichloroethene	2.00	1.98		ppb v/v		99	70 - 130
Tetrachloroethene	2.00	2.25		ppb v/v		112	70 - 130
trans-1,2-Dichloroethene	2.00	1.97		ppb v/v		98	70 - 130
Trichloroethene	2.00	2.03		ppb v/v		101	70 - 130
Vinyl chloride	2.00	2.07		ppb v/v		103	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	10.6		ug/m3		97	70 - 130
1,1-Dichloroethene	7.9	7.96		ug/m3		100	70 - 130
Carbon tetrachloride	13	13.4		ug/m3		106	70 - 130
cis-1,2-Dichloroethene	7.9	7.86		ug/m3		99	70 - 130
Tetrachloroethene	14	15.2		ug/m3		112	70 - 130
trans-1,2-Dichloroethene	7.9	7.80		ug/m3		98	70 - 130
Trichloroethene	11	10.9		ug/m3		101	70 - 130
Vinyl chloride	5.1	5.28		ug/m3		103	70 - 130

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.

TestAmerica Job ID: 140-1042-1

Project/Site: OFF-SITE Former Axiohm # C755012A

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: LCS 140-968/1002

Matrix: Air

Analysis Batch: 968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		60 - 140

QC Association Summary

Client: New York State D.E.C.

TestAmerica Job ID: 140-1042-1

Project/Site: OFF-SITE Former Axiohm # C755012A

Air - GC/MS VOA

Analysis Batch: 968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-1042-1	#60-SS-2014	Total/NA	Air	TO 15 LL	
140-1042-2	#60-BA-2014	Total/NA	Air	TO 15 LL	
140-1042-3	#61-SS-2014	Total/NA	Air	TO 15 LL	
140-1042-4	#61-BA-2014	Total/NA	Air	TO 15 LL	
140-1042-5	#60-OA-2014	Total/NA	Air	TO 15 LL	
140-1042-6	#62-SS-2014	Total/NA	Air	TO 15 LL	
140-1042-7	#62-BA-2014	Total/NA	Air	TO 15 LL	
140-1042-8	DUP1	Total/NA	Air	TO 15 LL	
140-1042-9	#62-OA-2014	Total/NA	Air	TO 15 LL	
140-1042-10	#63-SS-2014	Total/NA	Air	TO 15 LL	
140-1042-11	#63-BA1-2014	Total/NA	Air	TO 15 LL	
140-1042-12	#63-BA2-2014	Total/NA	Air	TO 15 LL	
140-1042-13	#64-SS-2014	Total/NA	Air	TO 15 LL	
140-1042-14	#64-BA-2014	Total/NA	Air	TO 15 LL	
140-1042-15	#65-OA-2014	Total/NA	Air	TO 15 LL	
140-1042-16	#65-CS-2014	Total/NA	Air	TO 15 LL	
LCS 140-968/1002	Lab Control Sample	Total/NA	Air	TO 15 LL	
MB 140-968/4	Method Blank	Total/NA	Air	TO 15 LL	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #60-SS-2014

Date Collected: 03/06/14 09:31

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/17/14 13:58	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #60-BA-2014

Date Collected: 03/06/14 09:32

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/17/14 14:52	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #61-SS-2014

Date Collected: 03/06/14 13:04

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/17/14 15:47	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #61-BA-2014

Date Collected: 03/06/14 15:09

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/17/14 17:38	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #60-OA-2014

Date Collected: 03/06/14 09:36

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/17/14 16:41	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #62-SS-2014

Date Collected: 03/06/14 13:10

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/17/14 19:09	AFB	TAL KNX
Instrument ID: MJ										

TestAmerica Knoxville

Lab Chronicle

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #62-BA-2014

Date Collected: 03/06/14 13:11

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/17/14 20:03	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: DUP1

Date Collected: 03/06/14 00:00

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/17/14 20:58	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #62-OA-2014

Date Collected: 03/06/14 13:15

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-9

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/17/14 21:53	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #63-SS-2014

Date Collected: 03/06/14 11:25

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/17/14 22:47	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #63-BA1-2014

Date Collected: 03/06/14 11:06

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-11

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/17/14 23:42	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #63-BA2-2014

Date Collected: 03/06/14 11:08

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-12

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/18/14 00:37	AFB	TAL KNX
Instrument ID: MJ										

Lab Chronicle

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Client Sample ID: #64-SS-2014

Date Collected: 03/06/14 16:32

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-13

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/18/14 01:31	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #64-BA-2014

Date Collected: 03/06/14 16:34

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-14

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/18/14 02:25	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #65-OA-2014

Date Collected: 03/06/14 10:34

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-15

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/18/14 03:20	AFB	TAL KNX
Instrument ID: MJ										

Client Sample ID: #65-CS-2014

Date Collected: 03/06/14 10:32

Date Received: 03/12/14 08:45

Lab Sample ID: 140-1042-16

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	968	03/18/14 04:14	AFB	TAL KNX
Instrument ID: MJ										

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: New York State D.E.C.
Project/Site: OFF-SITE Former Axiohm # C755012A

TestAmerica Job ID: 140-1042-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-14
California	State Program	9	2423	06-30-14
Colorado	State Program	8	N/A	02-28-15
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-14
Georgia	State Program	4	906	06-13-14
Hawaii	State Program	9	N/A	04-13-14
Iowa	State Program	7	375	08-01-14
Kansas	NELAP	7	E-10349	10-31-14
Kentucky (DW)	State Program	4	90101	12-31-14
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	LA110001	12-31-14
Maryland	State Program	3	277	03-31-14
Michigan	State Program	5	9933	04-13-14
Nevada	State Program	9	TN00009	07-31-14
New Jersey	NELAP	2	TN001	06-30-14
New York	NELAP	2	10781	04-01-14 *
North Carolina DENR	State Program	4	64	12-31-14
North Carolina DHHS	State Program	4	21705	07-31-14
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-14
Pennsylvania	NELAP	3	68-00576	12-31-14
South Carolina	State Program	4	84001	06-30-14
Tennessee	State Program	4	2014	04-13-14
Texas	NELAP	6	T104704380-TX	08-31-14
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-14
Virginia	NELAP	3	460176	09-14-14
Virginia	State Program	3	165	06-30-14
Washington	State Program	10	C593	01-19-15
West Virginia DEP	State Program	3	345	04-30-14
West Virginia DHHR	State Program	3	9955C	12-31-14
Wisconsin	State Program	5	998044300	08-31-14

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: New York State D.E.C.

TestAmerica Job ID: 140-1042-1

Project/Site: OFF-SITE Former Axiohm # C755012A

Method	Method Description	Protocol	Laboratory
TO 15 LL	Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: New York State D.E.C.

TestAmerica Job ID: 140-1042-1

Project/Site: OFF-SITE Former Axiohm # C755012A

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-1042-1	#60-SS-2014	Air	03/06/14 09:31	03/12/14 08:45
140-1042-2	#60-BA-2014	Air	03/06/14 09:32	03/12/14 08:45
140-1042-3	#61-SS-2014	Air	03/06/14 13:04	03/12/14 08:45
140-1042-4	#61-BA-2014	Air	03/06/14 15:09	03/12/14 08:45
140-1042-5	#60-OA-2014	Air	03/06/14 09:36	03/12/14 08:45
140-1042-6	#62-SS-2014	Air	03/06/14 13:10	03/12/14 08:45
140-1042-7	#62-BA-2014	Air	03/06/14 13:11	03/12/14 08:45
140-1042-8	DUP1	Air	03/06/14 00:00	03/12/14 08:45
140-1042-9	#62-OA-2014	Air	03/06/14 13:15	03/12/14 08:45
140-1042-10	#63-SS-2014	Air	03/06/14 11:25	03/12/14 08:45
140-1042-11	#63-BA1-2014	Air	03/06/14 11:06	03/12/14 08:45
140-1042-12	#63-BA2-2014	Air	03/06/14 11:08	03/12/14 08:45
140-1042-13	#64-SS-2014	Air	03/06/14 16:32	03/12/14 08:45
140-1042-14	#64-BA-2014	Air	03/06/14 16:34	03/12/14 08:45
140-1042-15	#65-OA-2014	Air	03/06/14 10:34	03/12/14 08:45
140-1042-16	#65-CS-2014	Air	03/06/14 10:32	03/12/14 08:45

Method T015 Low Level

Volatile Organic Compounds - Low
level (GC/MS) by Method TO 15

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
SDG No.: _____
Matrix: Air Level: Low
GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
#60-SS-2014	140-1042-1	94
#60-BA-2014	140-1042-2	96
#61-SS-2014	140-1042-3	96
#61-BA-2014	140-1042-4	95
#60-OA-2014	140-1042-5	91
#62-SS-2014	140-1042-6	95
#62-BA-2014	140-1042-7	94
DUP1	140-1042-8	96
#62-OA-2014	140-1042-9	89
#63-SS-2014	140-1042-10	96
#63-BA1-2014	140-1042-11	96
#63-BA2-2014	140-1042-12	102
#64-SS-2014	140-1042-13	96
#64-BA-2014	140-1042-14	98
#65-OA-2014	140-1042-15	94
#65-CS-2014	140-1042-16	94
	MB 140-968/4	101
	LCS 140-968/1002	101

BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
60-140

Column to be used to flag recovery values

FORM II TO 15 LL

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
SDG No.: _____
Matrix: Air Level: Low Lab File ID: JCCVC17-LCS.d
Lab ID: LCS 140-968/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	1.94	97	70-130	
1,1-Dichloroethene	2.00	2.01	100	70-130	
Carbon tetrachloride	2.00	2.13	106	70-130	
cis-1,2-Dichloroethene	2.00	1.98	99	70-130	
Tetrachloroethene	2.00	2.25	112	70-130	
trans-1,2-Dichloroethene	2.00	1.97	98	70-130	
Trichloroethene	2.00	2.03	101	70-130	
Vinyl chloride	2.00	2.07	103	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Lab File ID: MB500mL.D Lab Sample ID: MB 140-968/4
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: MJ Date Analyzed: 03/17/2014 13:02
 GC Column: RTX-5 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-968/1002	JCCVC17-LCS .d	03/17/2014 10:32
#60-SS-2014	140-1042-1	JC17P101.D	03/17/2014 13:58
#60-BA-2014	140-1042-2	JC17P102.D	03/17/2014 14:52
#61-SS-2014	140-1042-3	JC17P103.D	03/17/2014 15:47
#60-OA-2014	140-1042-5	JC17P104.D	03/17/2014 16:41
#61-BA-2014	140-1042-4	JC17P105.D	03/17/2014 17:38
#62-SS-2014	140-1042-6	JC17P106.D	03/17/2014 19:09
#62-BA-2014	140-1042-7	JC17P107.D	03/17/2014 20:03
DUP1	140-1042-8	JC17P108.D	03/17/2014 20:58
#62-OA-2014	140-1042-9	JC17P109.D	03/17/2014 21:53
#63-SS-2014	140-1042-10	JC17P110.D	03/17/2014 22:47
#63-BA1-2014	140-1042-11	JC17P111.D	03/17/2014 23:42
#63-BA2-2014	140-1042-12	JC17P112.D	03/18/2014 00:37
#64-SS-2014	140-1042-13	JC17P113.D	03/18/2014 01:31
#64-BA-2014	140-1042-14	JC17P114.D	03/18/2014 02:25
#65-OA-2014	140-1042-15	JC17P115.D	03/18/2014 03:20
#65-CS-2014	140-1042-16	JC17P201.D	03/18/2014 04:14

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Lab File ID: JBFB11.D BFB Injection Date: 03/11/2014
 Instrument ID: MJ BFB Injection Time: 12:12
 Analysis Batch No.: 946

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.6
75	30.0 - 60.0 % of mass 95	41.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.4
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	111.2
175	5.0 - 9.0 % of mass 174	8.5 (7.7)1
176	95.0 - 101.0 % of mass 174	108.1 (97.2)1
177	5.0 - 9.0 % of mass 176	7.2 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 140-946/2	JICC111.D	03/11/2014	12:40
	IC 140-946/3	JICC112.D	03/11/2014	13:35
	IC 140-946/4	JICC113.D	03/11/2014	14:29
	IC 140-946/5	JICC114.D	03/11/2014	15:23
	IC 140-946/6	JICC115.D	03/11/2014	16:17
	ICIS 140-946/7	JICC116.D	03/11/2014	17:11
	IC 140-946/8	JICC117.D	03/11/2014	18:06
	IC 140-946/9	JICC118.D	03/11/2014	19:02
	IC 140-946/10	JICC119.D	03/11/2014	19:57
	ICV 140-946/14	JLCSC11.D	03/11/2014	23:33

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Lab File ID: JBFBC17.D BFB Injection Date: 03/17/2014
 Instrument ID: MJ BFB Injection Time: 10:03
 Analysis Batch No.: 968

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.0
75	30.0 - 60.0 % of mass 95	42.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.5
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	111.0
175	5.0 - 9.0 % of mass 174	8.2 (7.4) 1
176	95.0 - 101.0 % of mass 174	108.3 (97.6) 1
177	5.0 - 9.0 % of mass 176	7.5 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-968/2	JCCVC17.D	03/17/2014	10:32
	LCS 140-968/1002	JCCVC17-LCS.d	03/17/2014	10:32
	MB 140-968/4	MB500mL.D	03/17/2014	13:02
#60-SS-2014	140-1042-1	JC17P101.D	03/17/2014	13:58
#60-BA-2014	140-1042-2	JC17P102.D	03/17/2014	14:52
#61-SS-2014	140-1042-3	JC17P103.D	03/17/2014	15:47
#60-OA-2014	140-1042-5	JC17P104.D	03/17/2014	16:41
#61-BA-2014	140-1042-4	JC17P105.D	03/17/2014	17:38
#62-SS-2014	140-1042-6	JC17P106.D	03/17/2014	19:09
#62-BA-2014	140-1042-7	JC17P107.D	03/17/2014	20:03
DUP1	140-1042-8	JC17P108.D	03/17/2014	20:58
#62-OA-2014	140-1042-9	JC17P109.D	03/17/2014	21:53
#63-SS-2014	140-1042-10	JC17P110.D	03/17/2014	22:47
#63-BA1-2014	140-1042-11	JC17P111.D	03/17/2014	23:42
#63-BA2-2014	140-1042-12	JC17P112.D	03/18/2014	00:37
#64-SS-2014	140-1042-13	JC17P113.D	03/18/2014	01:31
#64-BA-2014	140-1042-14	JC17P114.D	03/18/2014	02:25
#65-OA-2014	140-1042-15	JC17P115.D	03/18/2014	03:20
#65-CS-2014	140-1042-16	JC17P201.D	03/18/2014	04:14

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Sample No.: ICIS 140-946/7 Date Analyzed: 03/11/2014 17:11
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JICC116.D Heated Purge: (Y/N) N
 Calibration ID: 143

	CBM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	351204	9.39	1664083	11.55	1450172	16.21
UPPER LIMIT	491686	9.72	2329716	11.88	2030241	16.54
LOWER LIMIT	210722	9.06	998450	11.22	870103	15.88
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 140-946/14		326764	9.39	1541489	11.55	1315171 16.21

CBM = Chlorobromomethane (IS)
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Sample No.: CCVIS 140-968/2 Date Analyzed: 03/17/2014 10:32
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JCCVC17.D Heated Purge: (Y/N) N
 Calibration ID: 143

	CBM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	388766	9.39	1692326	11.54	1272779	16.20
UPPER LIMIT	544272	9.72	2369256	11.87	1781891	16.53
LOWER LIMIT	233260	9.06	1015396	11.21	763667	15.87
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 140-968/1002		388766	9.39	1692326	11.54	1272779
MB 140-968/4		395431	9.38	1884829	11.54	1573765
140-1042-1	#60-SS-2014	393292	9.38	1812170	11.54	1484638
140-1042-2	#60-BA-2014	371069	9.39	1693686	11.54	1372042
140-1042-3	#61-SS-2014	377352	9.39	1793959	11.54	1524440
140-1042-5	#60-OA-2014	382326	9.38	1841139	11.54	1491732
140-1042-4	#61-BA-2014	374880	9.38	1733966	11.54	1421255
140-1042-6	#62-SS-2014	376861	9.39	1684427	11.54	1363554
140-1042-7	#62-BA-2014	375890	9.39	1745368	11.54	1371841
140-1042-8	DUP1	375140	9.38	1783819	11.54	1468316
140-1042-9	#62-OA-2014	370514	9.38	1775985	11.54	1465533
140-1042-10	#63-SS-2014	364797	9.38	1715915	11.54	1415460
140-1042-11	#63-BA1-2014	375932	9.39	1783543	11.54	1484940
140-1042-12	#63-BA2-2014	349839	9.38	1541887	11.54	1277197
140-1042-13	#64-SS-2014	367333	9.38	1708098	11.54	1411521
140-1042-14	#64-BA-2014	351906	9.39	1585368	11.54	1338102
140-1042-15	#65-OA-2014	375410	9.38	1825740	11.54	1516127
140-1042-16	#65-CS-2014	361787	9.38	1708384	11.54	1361093

CBM = Chlorobromomethane (IS)

DFB = 1,4-Difluorobenzene

CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area

RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #60-SS-2014 Lab Sample ID: 140-1042-1
 Matrix: Air Lab File ID: JC17P101.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 09:31
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 13:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.066		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	0.15		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #60-SS-2014 Lab Sample ID: 140-1042-1
 Matrix: Air Lab File ID: JC17P101.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 09:31
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 13:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.42		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	0.61		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P101.D
 Lims ID: 140-1042-A-1 Lab Sample ID: 140-1042-1
 Client ID: #60-SS-2014
 Sample Type: Client
 Inject. Date: 17-Mar-2014 13:58:30 ALS Bottle#: 1 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-1
 Misc. Info.: J031714,TO15,,140-0000526-005
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:27:26 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:27:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.383	9.387	-0.004	89	393292	4.00	
* 2 1,4-Difluorobenzene	114	11.541	11.544	-0.003	94	1812170	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.199	16.203	-0.004	87	1484638	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.818	17.822	-0.004	91	989239	3.77	
34 trans-1,2-Dichloroethene	96	7.603	7.606	-0.003	96	20355	0.1531	
50 Carbon tetrachloride	117	11.051	11.055	-0.004	89	16972	0.0661	
56 Trichloroethene	130	12.240	12.249	-0.009	42	2440	0.0162	
73 Tetrachloroethene	129	15.381	15.390	-0.009	84	8437	0.0658	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P101.D

Injection Date: 17-Mar-2014 13:58:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-1

Lab Sample ID: 140-1042-1

Worklist Smp#: 5

Client ID: #60-SS-2014

Purge Vol: 500.000 mL

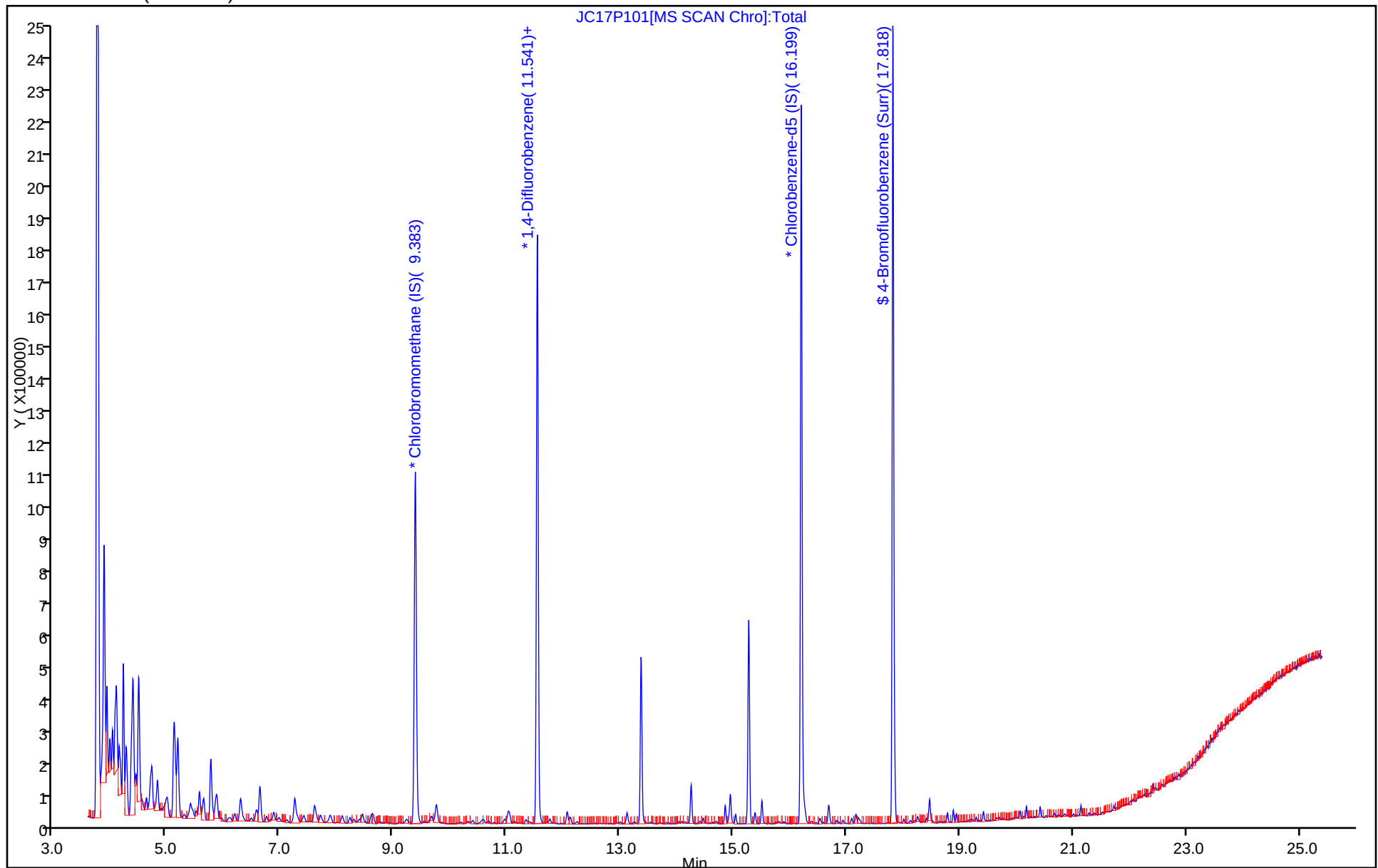
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P101.D

Injection Date: 17-Mar-2014 13:58:30

Instrument ID: MJ

Lims ID: 140-1042-A-1

Lab Sample ID: 140-1042-1

Client ID: #60-SS-2014

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

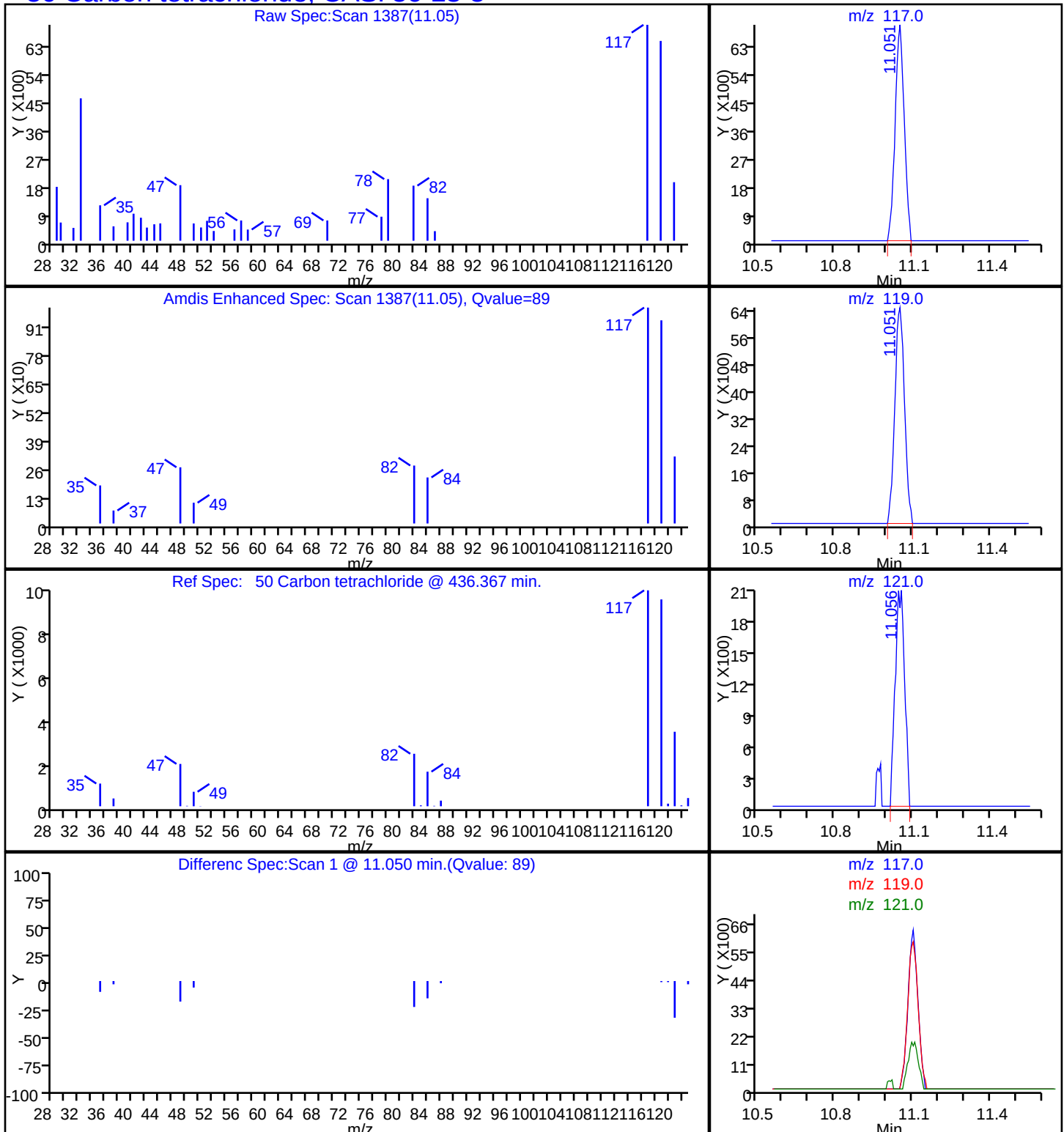
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P101.D

Injection Date: 17-Mar-2014 13:58:30

Instrument ID: MJ

Lims ID: 140-1042-A-1

Lab Sample ID: 140-1042-1

Client ID: #60-SS-2014

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

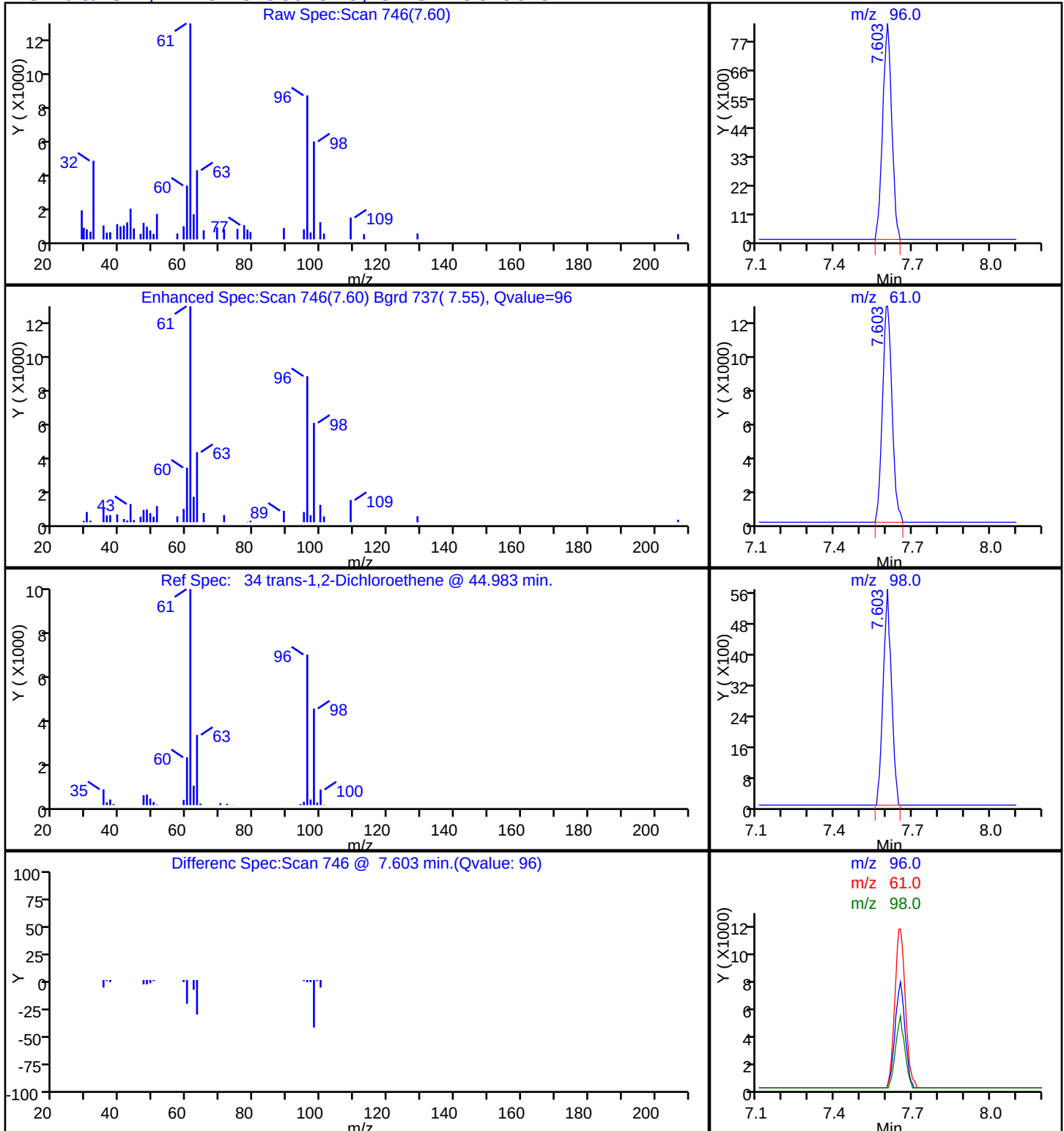
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #60-BA-2014 Lab Sample ID: 140-1042-2
 Matrix: Air Lab File ID: JC17P102.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 09:32
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 14:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.075		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	1.2		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #60-BA-2014 Lab Sample ID: 140-1042-2
 Matrix: Air Lab File ID: JC17P102.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 09:32
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 14:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.47		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	4.6		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P102.D
 Lims ID: 140-1042-A-2 Lab Sample ID: 140-1042-2
 Client ID: #60-BA-2014
 Sample Type: Client
 Inject. Date: 17-Mar-2014 14:52:30 ALS Bottle#: 2 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-2
 Misc. Info.: J031714,TO15,,140-0000526-006
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:27:26 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:27:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.387	0.0	89	371069	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.544	-0.005	94	1693686	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.203	16.203	0.0	91	1372042	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.822	17.822	0.0	91	936387	3.86	
34 trans-1,2-Dichloroethene	96	7.601	7.606	-0.005	98	147072	1.17	
50 Carbon tetrachloride	117	11.054	11.055	-0.001	90	18045	0.0752	
73 Tetrachloroethene	129	15.385	15.390	-0.005	80	4398	0.0371	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P102.D

Injection Date: 17-Mar-2014 14:52:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-2

Lab Sample ID: 140-1042-2

Worklist Smp#: 6

Client ID: #60-BA-2014

Purge Vol: 500.000 mL

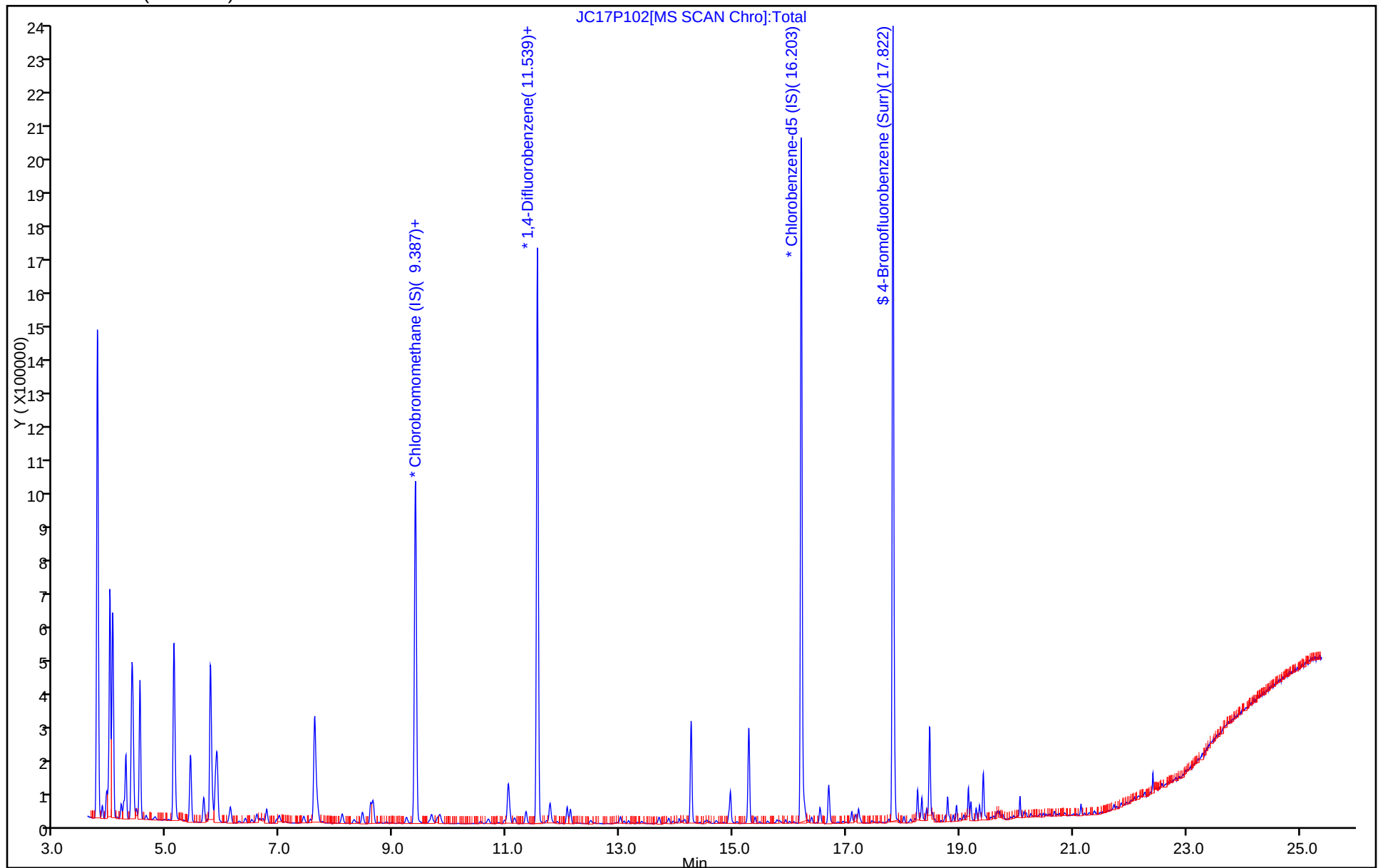
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P102.D

Injection Date: 17-Mar-2014 14:52:30

Instrument ID: MJ

Lims ID: 140-1042-A-2

Lab Sample ID: 140-1042-2

Client ID: #60-BA-2014

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

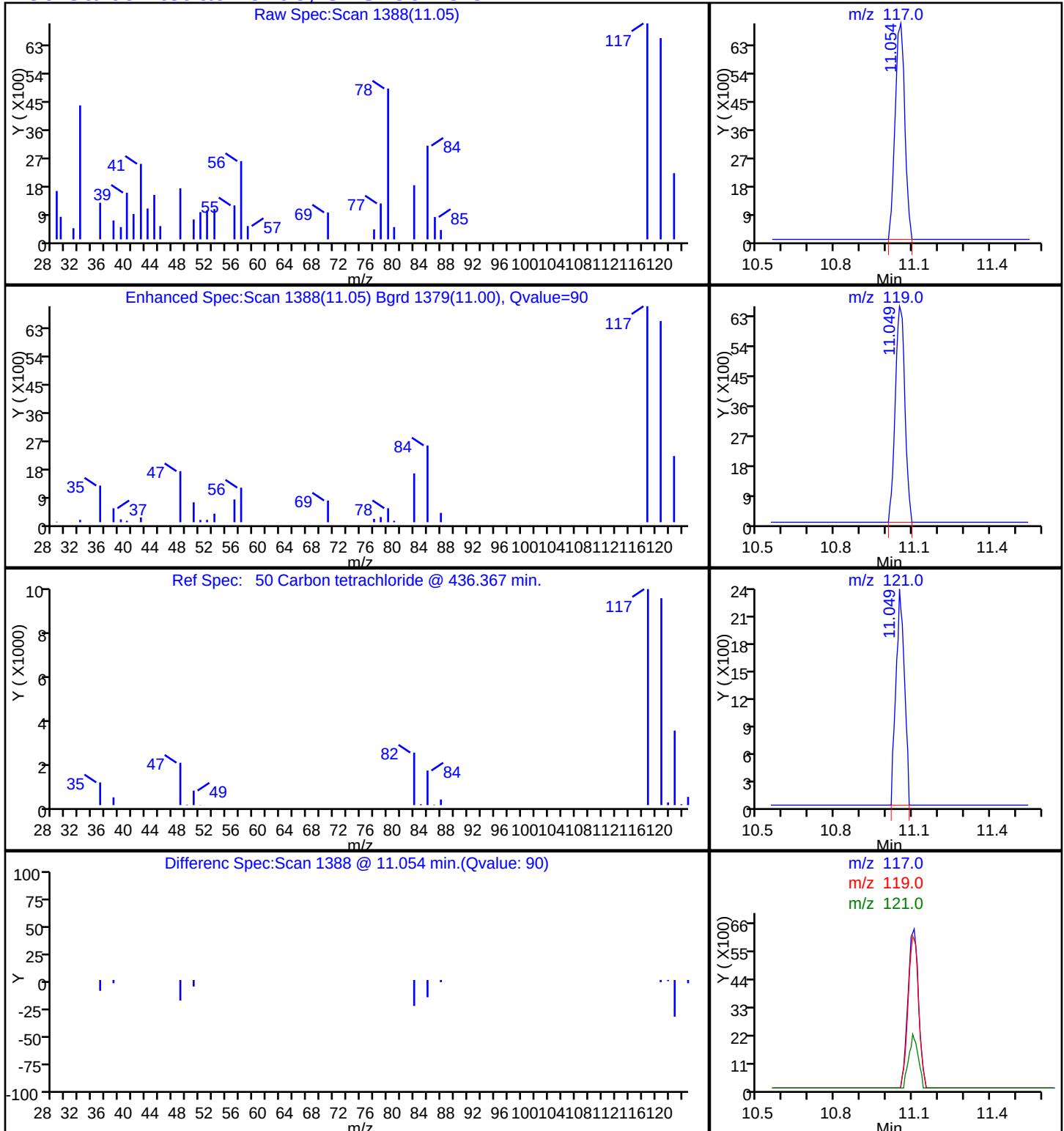
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P102.D

Injection Date: 17-Mar-2014 14:52:30

Instrument ID: MJ

Lims ID: 140-1042-A-2

Lab Sample ID: 140-1042-2

Client ID: #60-BA-2014

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

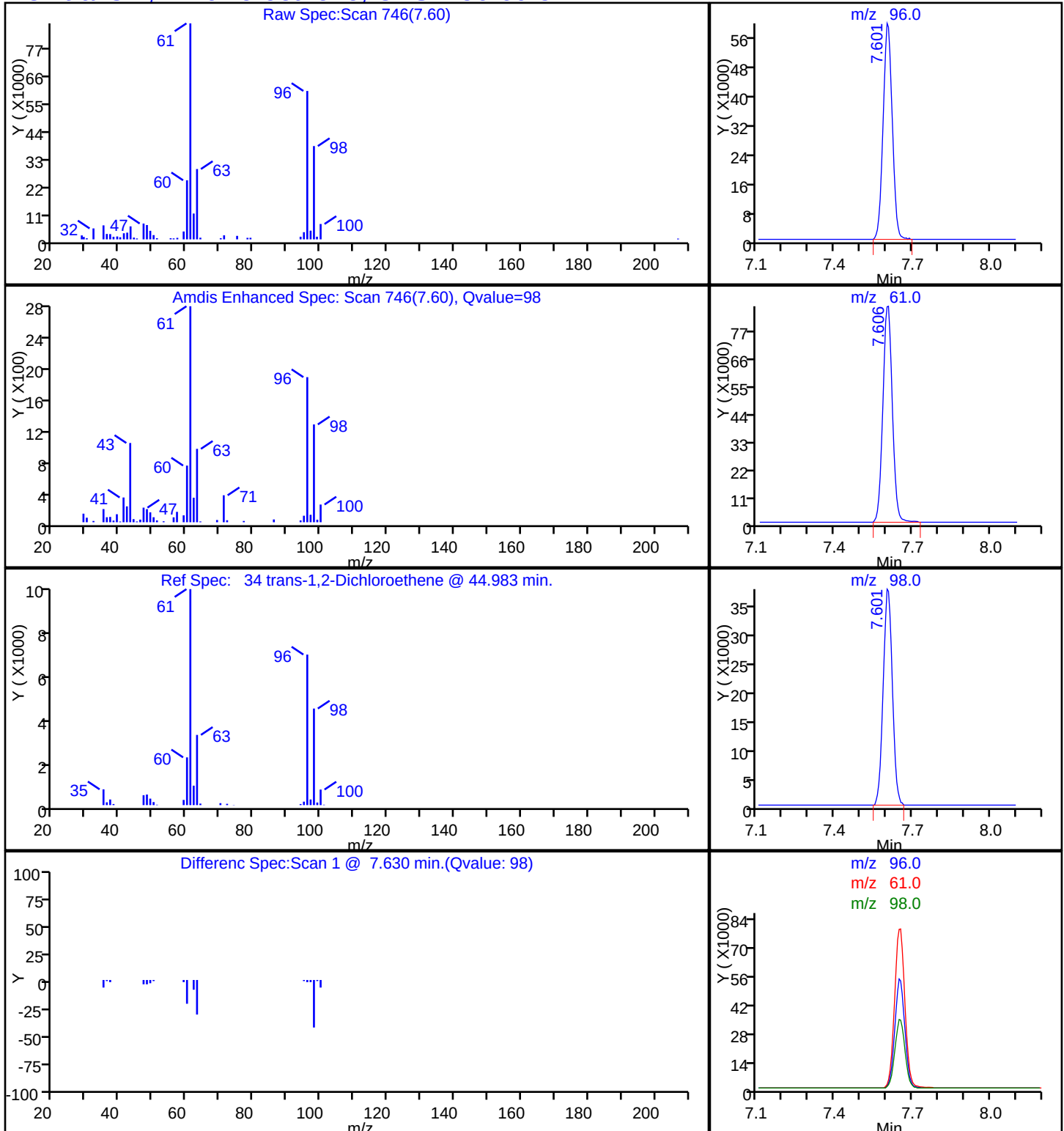
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #61-SS-2014 Lab Sample ID: 140-1042-3
 Matrix: Air Lab File ID: JC17P103.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 13:04
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 15:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	ND		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #61-SS-2014 Lab Sample ID: 140-1042-3
 Matrix: Air Lab File ID: JC17P103.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 13:04
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 15:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	ND		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P103.D
 Lims ID: 140-1042-A-3 Lab Sample ID: 140-1042-3
 Client ID: #61-SS-2014
 Sample Type: Client
 Inject. Date: 17-Mar-2014 15:47:30 ALS Bottle#: 3 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-3
 Misc. Info.: J031714,TO15,,140-0000526-007
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:27:26 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:28:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.385	9.387	-0.002	89	377352	4.00	
* 2 1,4-Difluorobenzene	114	11.537	11.544	-0.007	94	1793959	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.201	16.203	-0.002	86	1524440	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.820	17.822	-0.002	91	1040715	3.86	
34 trans-1,2-Dichloroethene	96	7.599	7.606	-0.007	73	4594	0.0360	
45 1,1,1-Trichloroethane	97	10.439	10.447	-0.008	41	5646	0.0246	
50 Carbon tetrachloride	117	11.052	11.055	-0.003	83	9529	0.0375	
73 Tetrachloroethene	129	15.383	15.390	-0.007	83	9061	0.0688	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P103.D

Injection Date: 17-Mar-2014 15:47:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-3

Lab Sample ID: 140-1042-3

Worklist Smp#: 7

Client ID: #61-SS-2014

Purge Vol: 500.000 mL

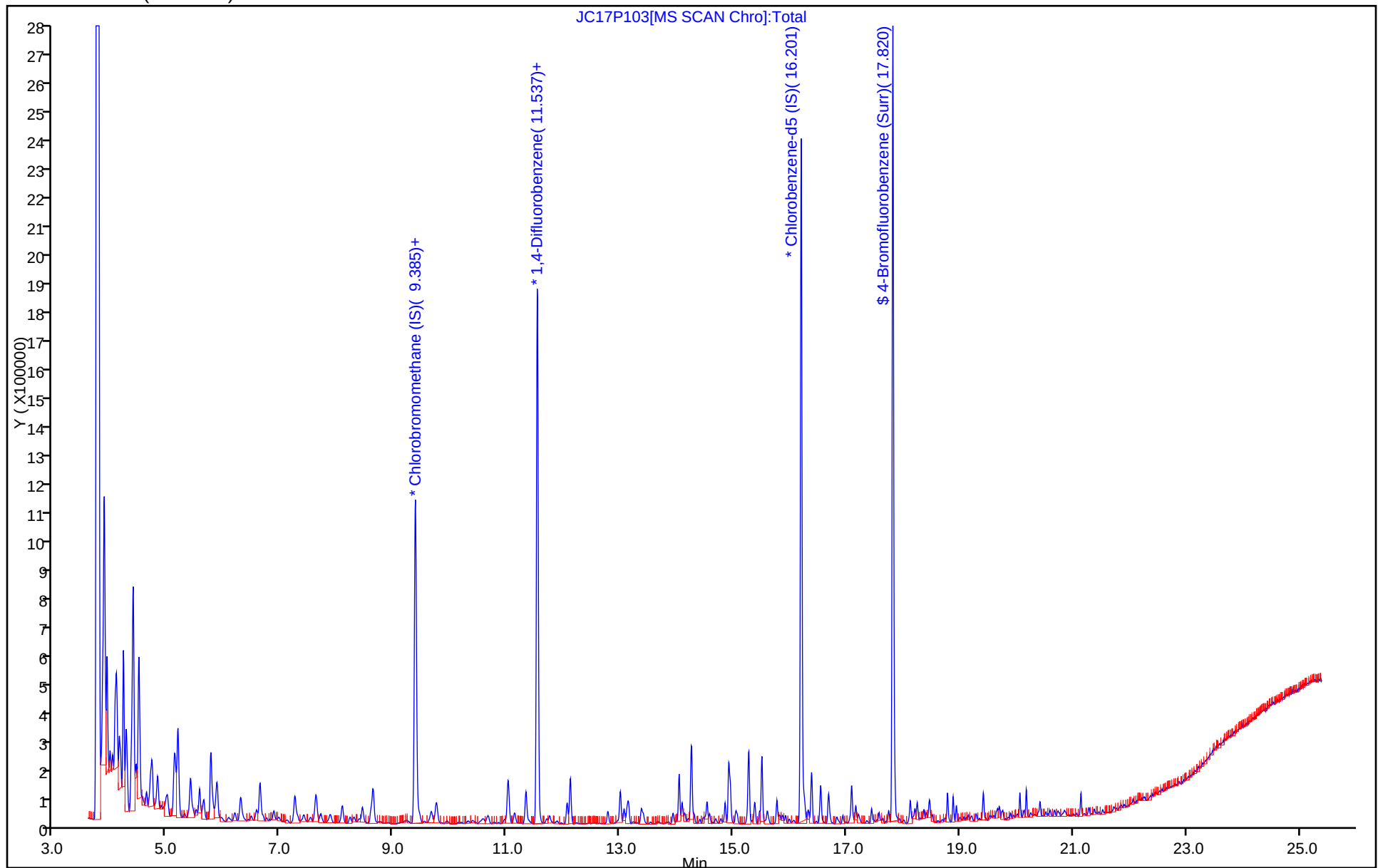
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #61-BA-2014 Lab Sample ID: 140-1042-4
 Matrix: Air Lab File ID: JC17P105.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 15:09
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 17:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.056		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #61-BA-2014 Lab Sample ID: 140-1042-4
 Matrix: Air Lab File ID: JC17P105.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 15:09
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 17:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.36		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P105.D
 Lims ID: 140-1042-A-4 Lab Sample ID: 140-1042-4
 Client ID: #61-BA-2014
 Sample Type: Client
 Inject. Date: 17-Mar-2014 17:38:30 ALS Bottle#: 5 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-4
 Misc. Info.: J031714,TO15,,140-0000526-009
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:27:26 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:28:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.384	9.387	-0.003	89	374880	4.00	
* 2 1,4-Difluorobenzene	114	11.536	11.544	-0.008	94	1733966	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.200	16.203	-0.003	86	1421255	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.819	17.822	-0.003	91	958164	3.81	
50 Carbon tetrachloride	117	11.052	11.055	-0.003	89	13875	0.0565	
73 Tetrachloroethene	129	15.383	15.390	-0.008	78	5648	0.0460	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P105.D

Injection Date: 17-Mar-2014 17:38:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-4

Lab Sample ID: 140-1042-4

Worklist Smp#: 9

Client ID: #61-BA-2014

Purge Vol: 500.000 mL

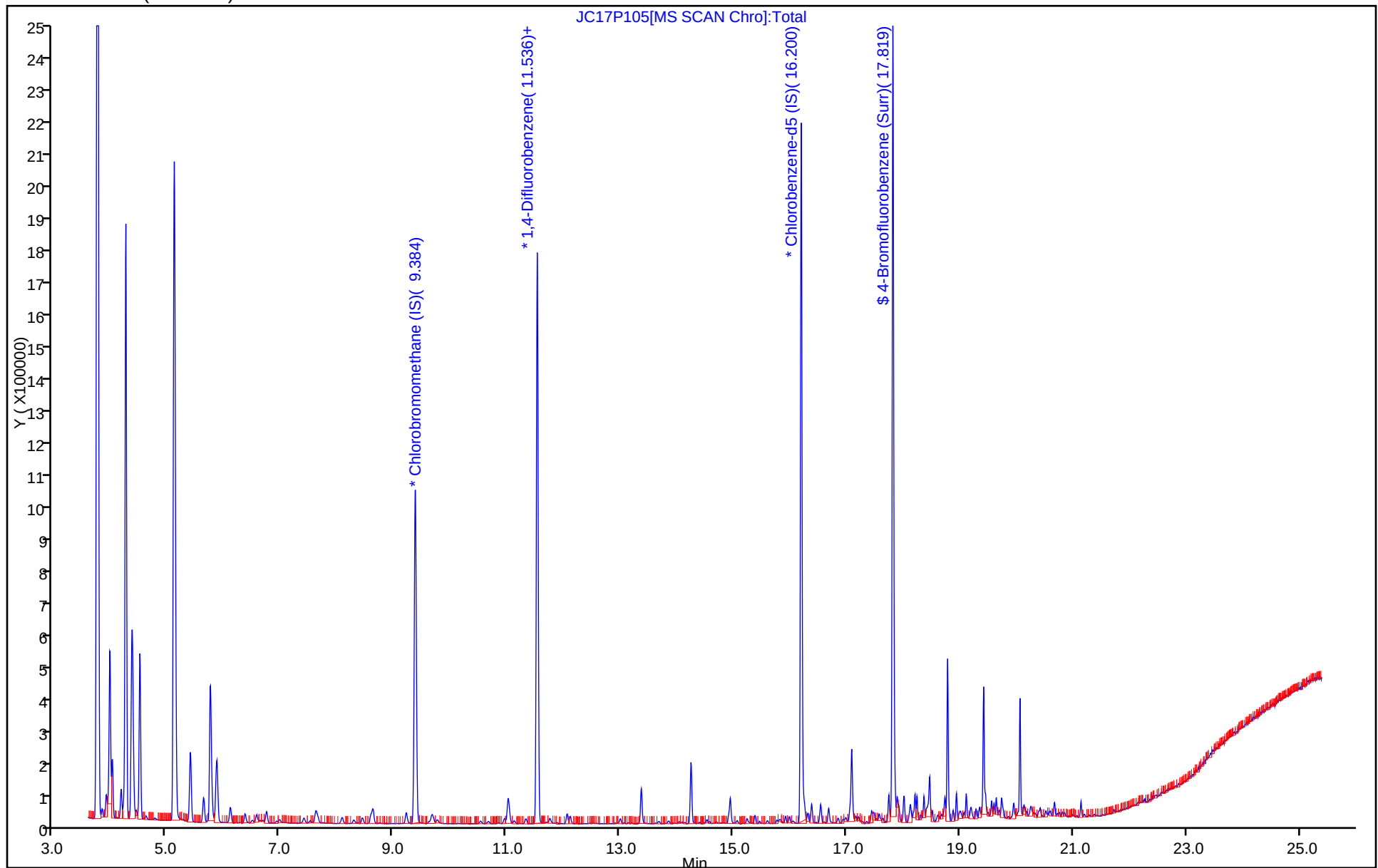
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P105.D

Injection Date: 17-Mar-2014 17:38:30

Instrument ID: MJ

Lims ID: 140-1042-A-4

Lab Sample ID: 140-1042-4

Client ID: #61-BA-2014

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

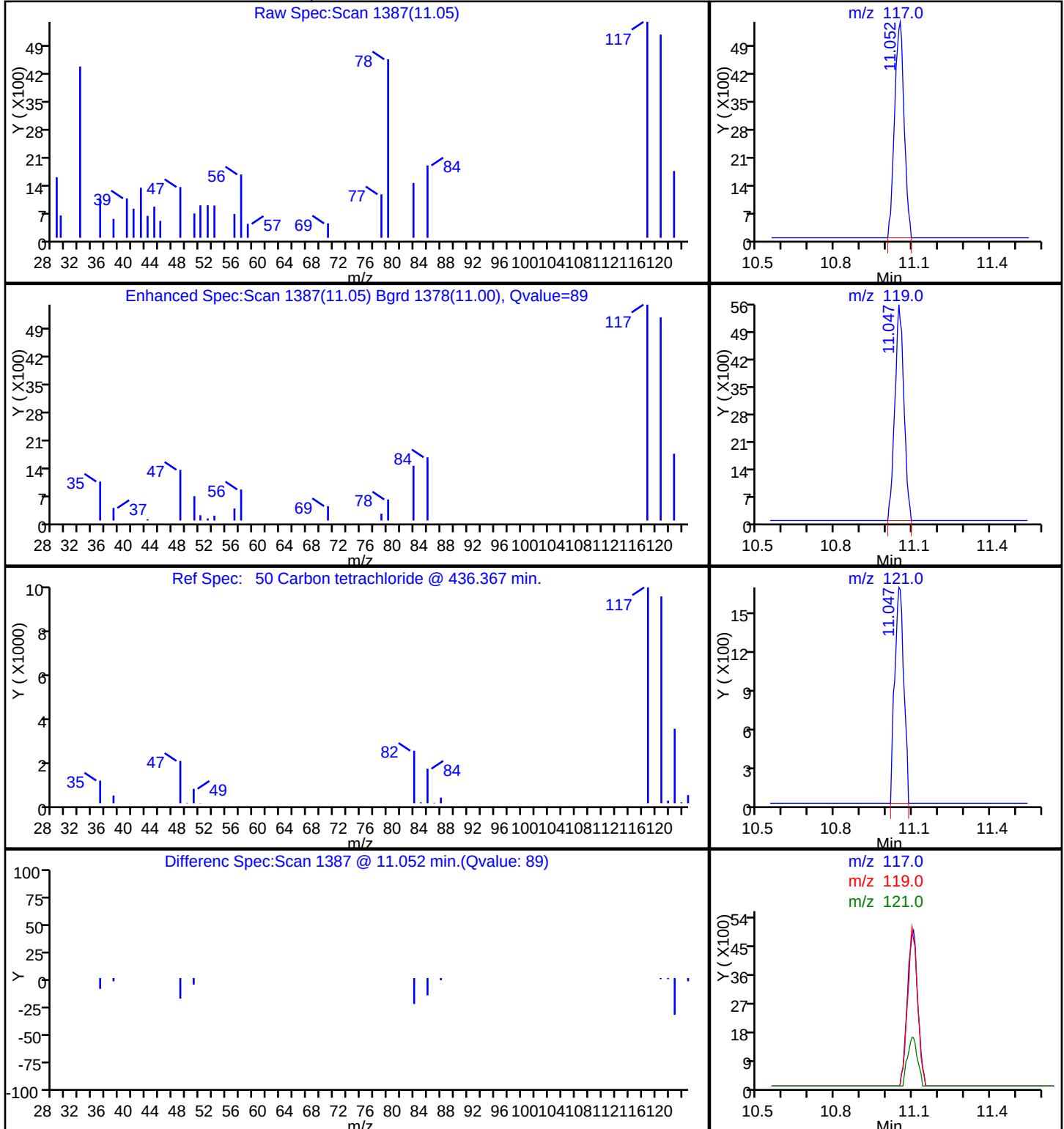
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #60-OA-2014 Lab Sample ID: 140-1042-5
 Matrix: Air Lab File ID: JC17P104.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 09:36
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 16:41
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.064		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #60-OA-2014 Lab Sample ID: 140-1042-5
 Matrix: Air Lab File ID: JC17P104.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 09:36
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 16:41
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.40		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P104.D
 Lims ID: 140-1042-A-5 Lab Sample ID: 140-1042-5
 Client ID: #60-OA-2014
 Sample Type: Client
 Inject. Date: 17-Mar-2014 16:41:30 ALS Bottle#: 4 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-5
 Misc. Info.: J031714,TO15,,140-0000526-008
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:27:26 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:28:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.387	-0.005	89	382326	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.544	-0.005	94	1841139	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.203	-0.005	87	1491732	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.822	-0.005	91	955747	3.62	
50 Carbon tetrachloride	117	11.050	11.055	-0.005	90	16602	0.0636	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P104.D

Injection Date: 17-Mar-2014 16:41:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-5

Lab Sample ID: 140-1042-5

Worklist Smp#: 8

Client ID: #60-OA-2014

Purge Vol: 500.000 mL

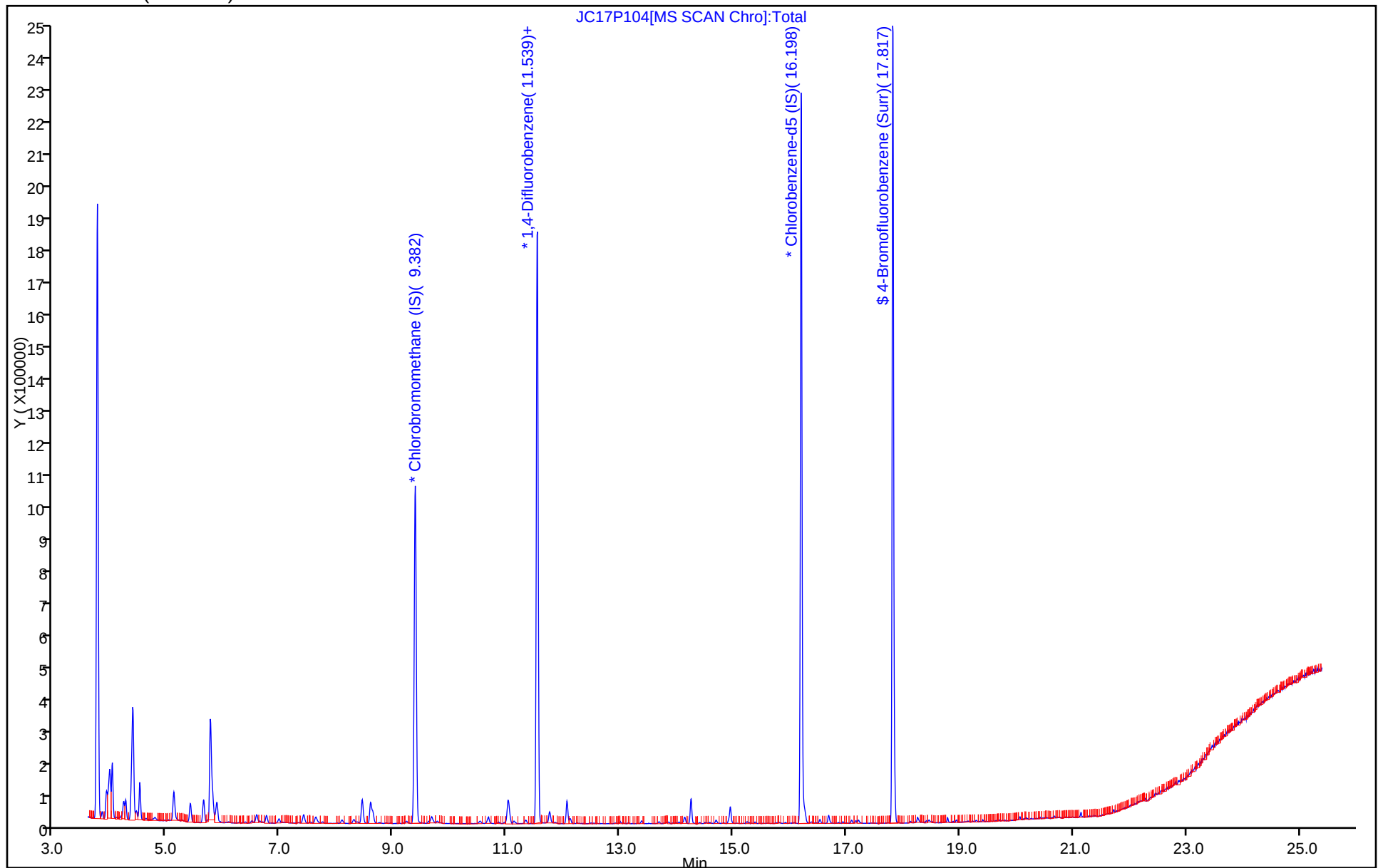
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P104.D

Injection Date: 17-Mar-2014 16:41:30

Instrument ID: MJ

Lims ID: 140-1042-A-5

Lab Sample ID: 140-1042-5

Client ID: #60-OA-2014

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 8

Purge Vol: 500.000 mL

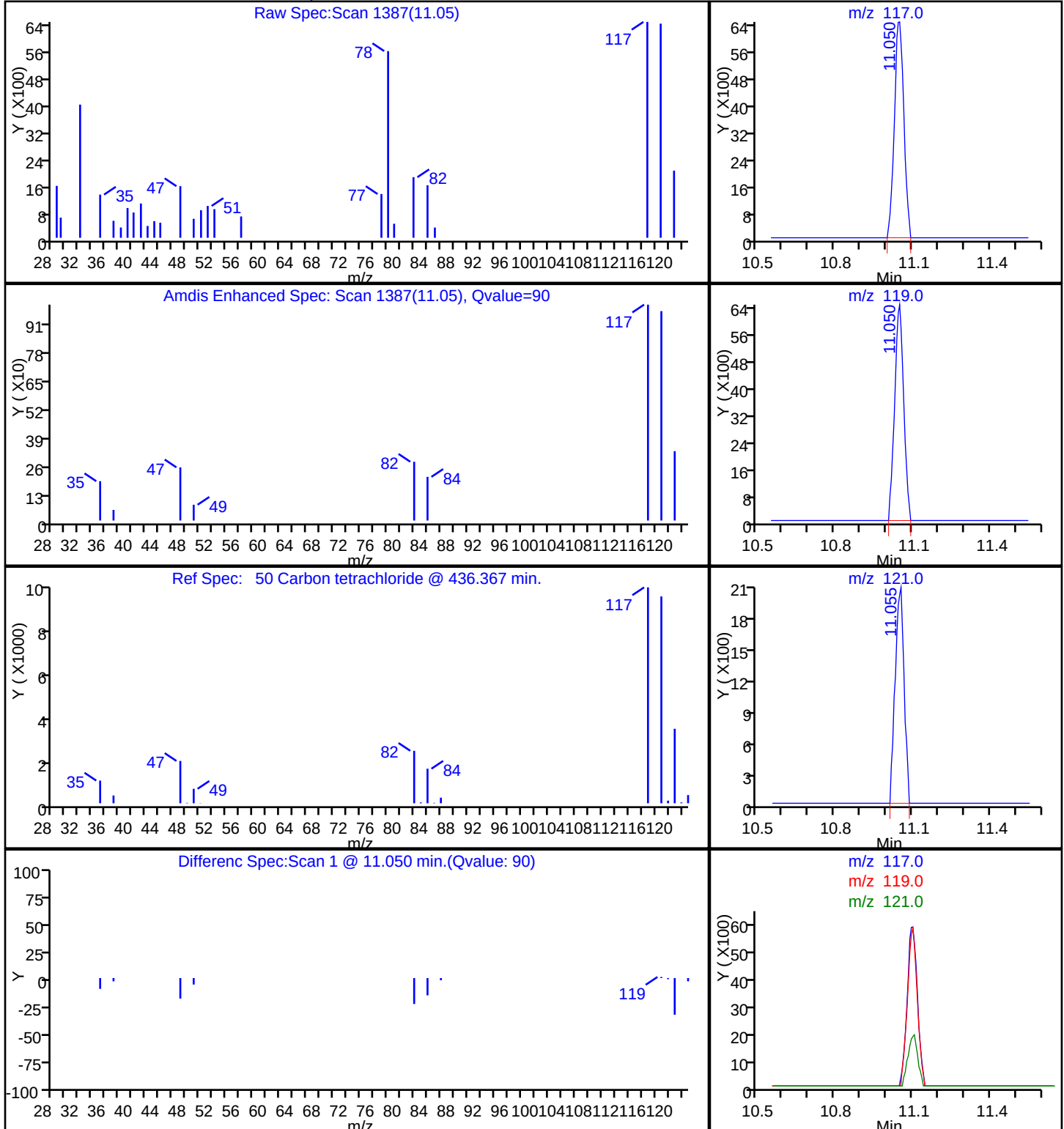
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #62-SS-2014 Lab Sample ID: 140-1042-6
 Matrix: Air Lab File ID: JC17P106.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 13:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 19:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.068		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	0.16		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #62-SS-2014 Lab Sample ID: 140-1042-6
 Matrix: Air Lab File ID: JC17P106.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 13:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 19:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.43		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	1.1		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P106.D
 Lims ID: 140-1042-A-6 Lab Sample ID: 140-1042-6
 Client ID: #62-SS-2014
 Sample Type: Client
 Inject. Date: 17-Mar-2014 19:09:30 ALS Bottle#: 6 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-6
 Misc. Info.: J031714,TO15,,140-0000526-010
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:29:00 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:29:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.385	9.387	-0.002	90	376861	4.00	
* 2 1,4-Difluorobenzene	114	11.536	11.544	-0.008	94	1684427	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.200	16.203	-0.003	86	1363554	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.820	17.822	-0.002	91	914359	3.79	
34 trans-1,2-Dichloroethene	96	7.604	7.606	-0.002	74	6473	0.0508	
50 Carbon tetrachloride	117	11.052	11.055	-0.003	89	16268	0.0681	
73 Tetrachloroethene	129	15.388	15.390	-0.002	88	19225	0.1631	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P106.D

Injection Date: 17-Mar-2014 19:09:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-6

Lab Sample ID: 140-1042-6

Worklist Smp#: 10

Client ID: #62-SS-2014

Purge Vol: 500.000 mL

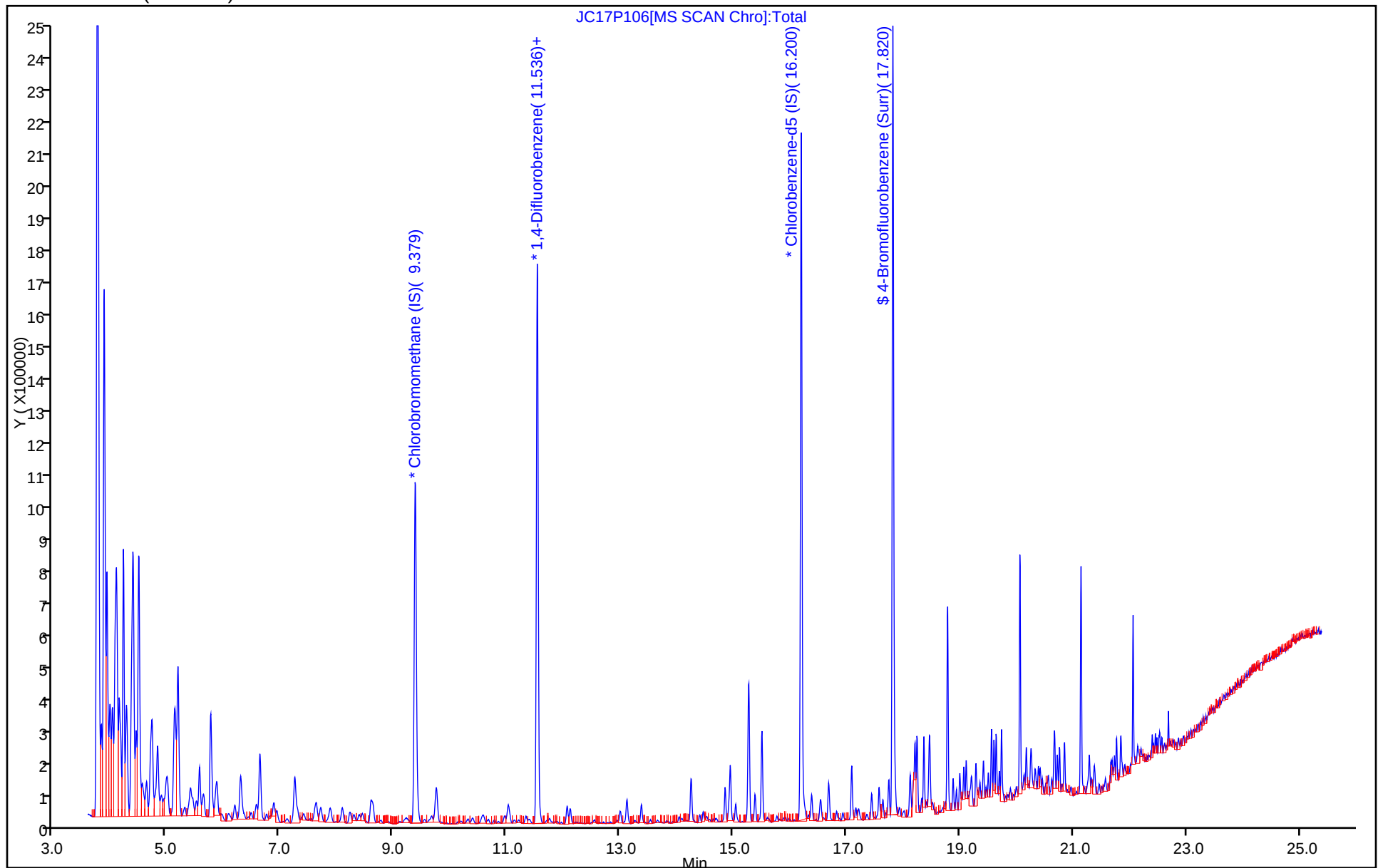
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P106.D

Injection Date: 17-Mar-2014 19:09:30

Instrument ID: MJ

Lims ID: 140-1042-A-6

Lab Sample ID: 140-1042-6

Client ID: #62-SS-2014

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

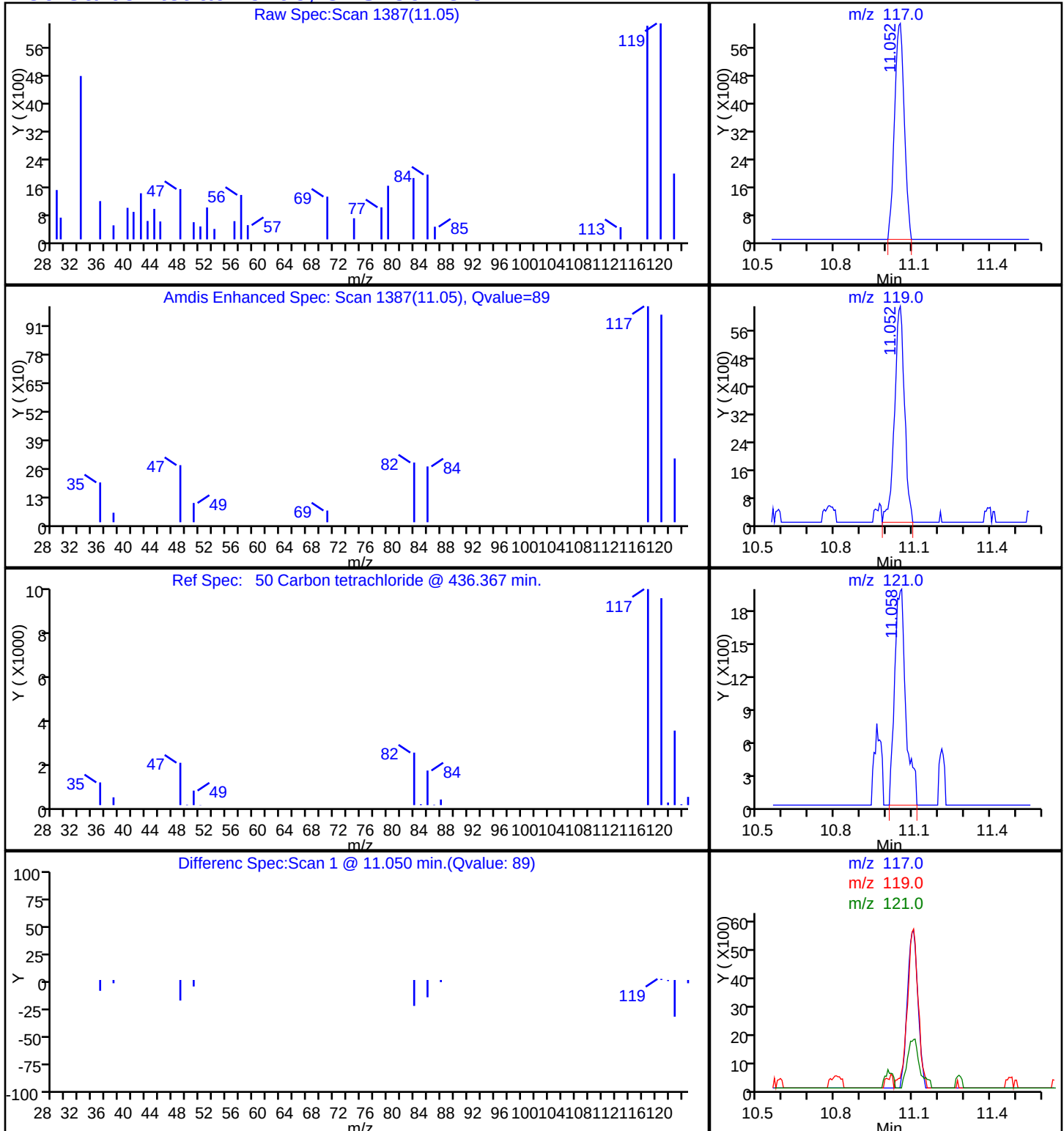
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P106.D

Injection Date: 17-Mar-2014 19:09:30

Instrument ID: MJ

Lims ID: 140-1042-A-6

Lab Sample ID: 140-1042-6

Client ID: #62-SS-2014

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

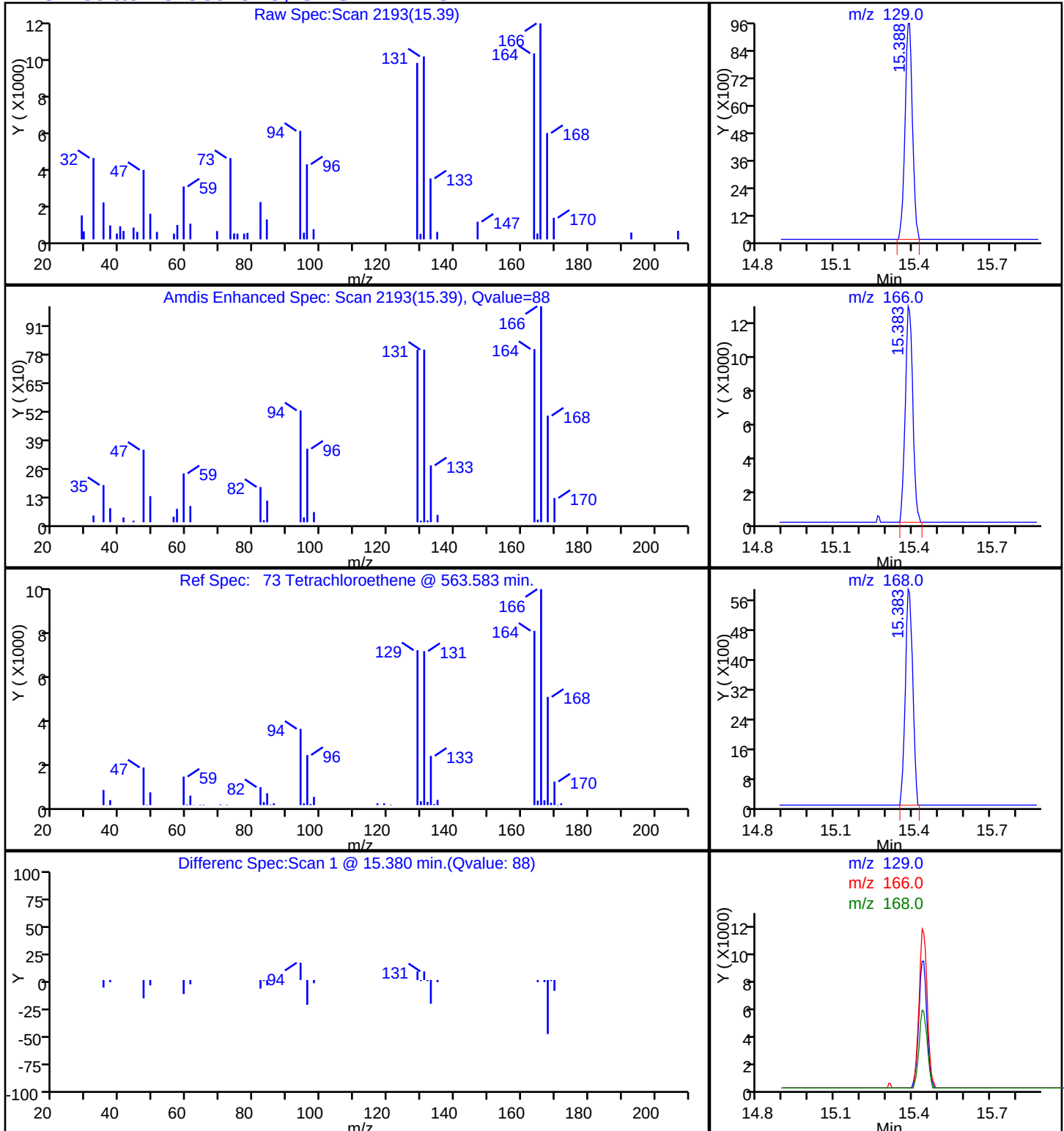
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #62-BA-2014 Lab Sample ID: 140-1042-7
 Matrix: Air Lab File ID: JC17P107.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 13:11
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 20:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.065		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #62-BA-2014 Lab Sample ID: 140-1042-7
 Matrix: Air Lab File ID: JC17P107.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 13:11
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 20:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.41		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P107.D
 Lims ID: 140-1042-A-7 Lab Sample ID: 140-1042-7
 Client ID: #62-BA-2014
 Sample Type: Client
 Inject. Date: 17-Mar-2014 20:03:30 ALS Bottle#: 7 Worklist Smp#: 11
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-7
 Misc. Info.: J031714,TO15,,140-0000526-011
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:29:00 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:29:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.385	9.387	-0.002	89	375890	4.00	
* 2 1,4-Difluorobenzene	114	11.536	11.544	-0.008	94	1745368	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.200	16.203	-0.003	87	1371841	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.820	17.822	-0.002	91	916520	3.78	
50 Carbon tetrachloride	117	11.052	11.055	-0.003	88	16034	0.0648	
73 Tetrachloroethene	129	15.383	15.390	-0.007	60	2316	0.0195	

Report Date: 18-Mar-2014 09:29:11

Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P107.D

Injection Date: 17-Mar-2014 20:03:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-7

Lab Sample ID: 140-1042-7

Worklist Smp#: 11

Client ID: #62-BA-2014

Purge Vol: 500.000 mL

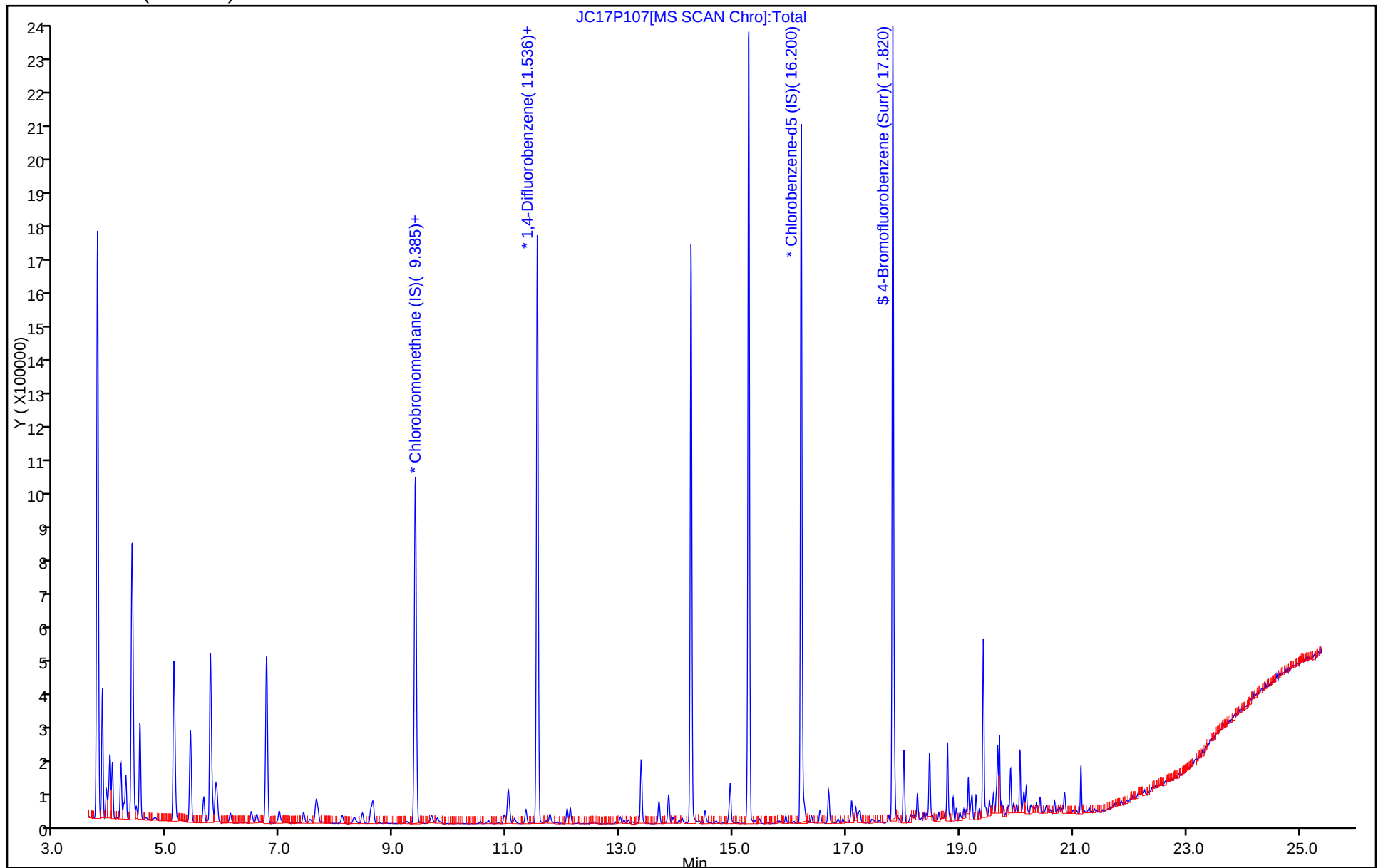
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P107.D

Injection Date: 17-Mar-2014 20:03:30

Instrument ID: MJ

Lims ID: 140-1042-A-7

Lab Sample ID: 140-1042-7

Client ID: #62-BA-2014

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

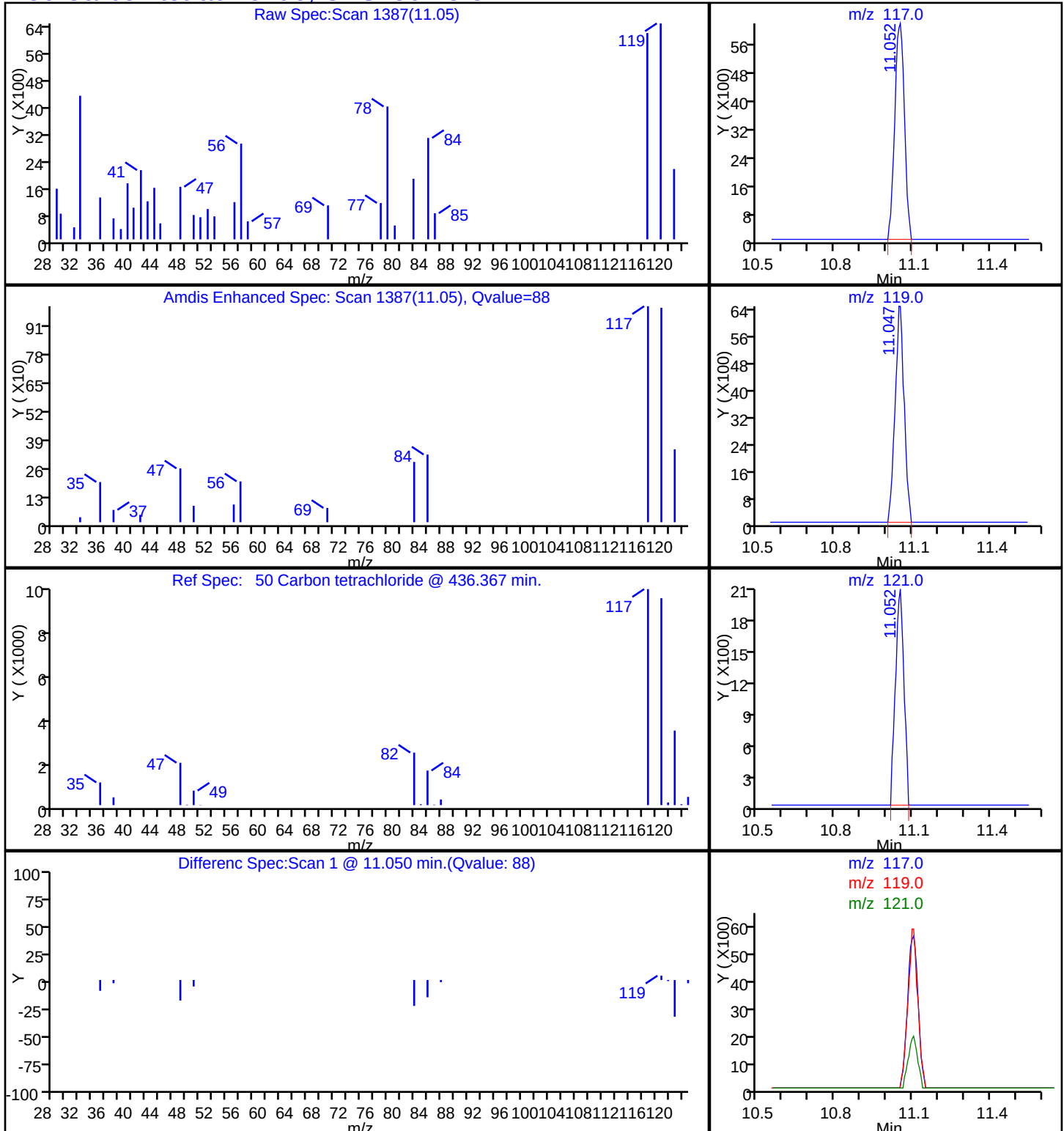
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: DUP1 Lab Sample ID: 140-1042-8
 Matrix: Air Lab File ID: JC17P108.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 20:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.057		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: DUP1 Lab Sample ID: 140-1042-8
 Matrix: Air Lab File ID: JC17P108.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 20:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.36		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P108.D
 Lims ID: 140-1042-A-8 Lab Sample ID: 140-1042-8
 Client ID: DUP1
 Sample Type: Client
 Inject. Date: 17-Mar-2014 20:58:30 ALS Bottle#: 8 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-8
 Misc. Info.: J031714,TO15,,140-0000526-012
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:29:00 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:29:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.387	-0.005	89	375140	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.544	-0.005	94	1783819	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.203	16.203	0.0	86	1468316	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.822	17.822	0.0	92	999883	3.85	
34 trans-1,2-Dichloroethene	96	7.606	7.606	0.0	53	3308	0.0261	
50 Carbon tetrachloride	117	11.049	11.055	-0.006	89	14423	0.0570	
73 Tetrachloroethene	129	15.385	15.390	-0.005	76	4703	0.0371	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P108.D

Injection Date: 17-Mar-2014 20:58:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-8

Lab Sample ID: 140-1042-8

Worklist Smp#: 12

Client ID: DUP1

Purge Vol: 500.000 mL

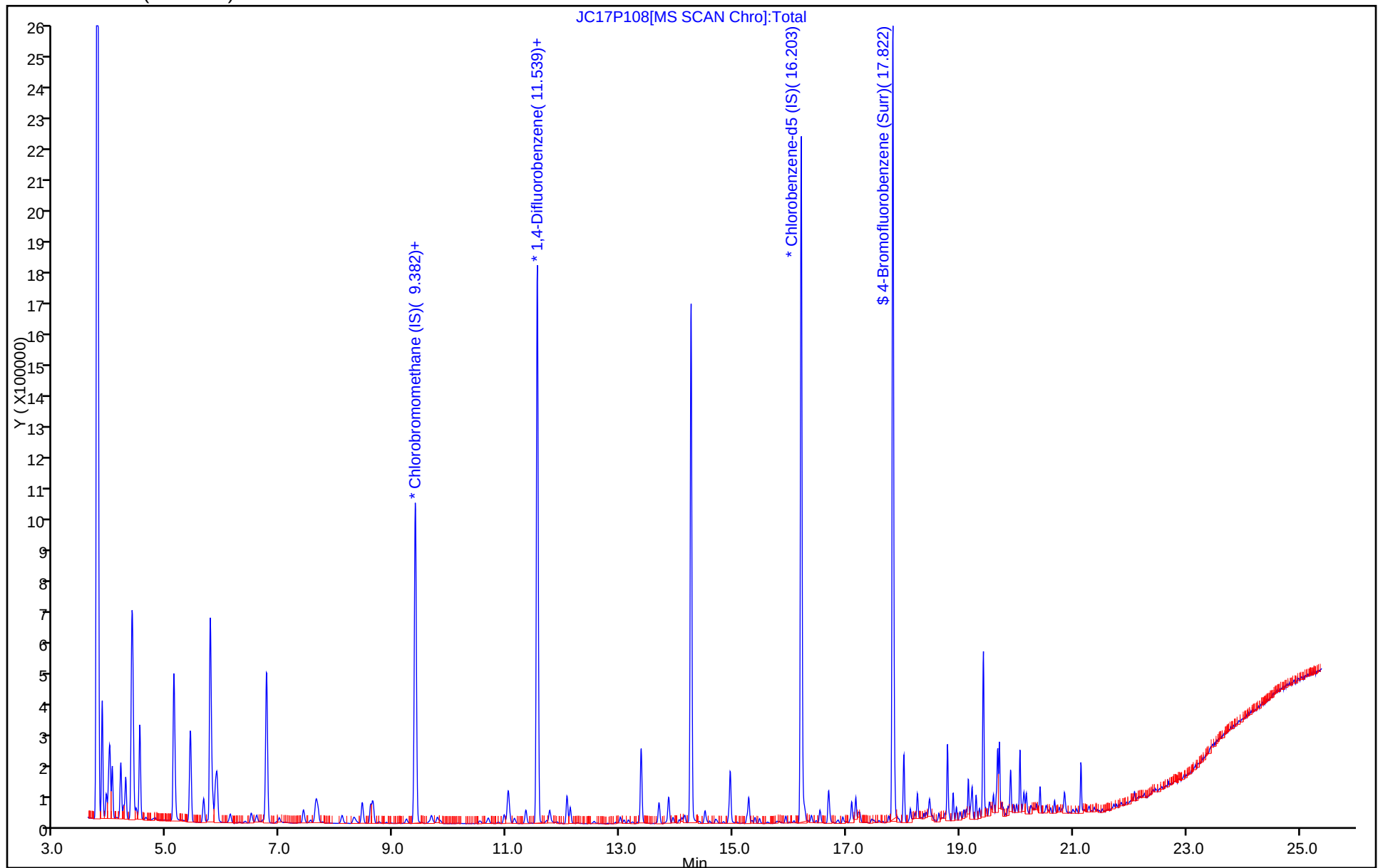
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P108.D

Injection Date: 17-Mar-2014 20:58:30

Instrument ID: MJ

Lims ID: 140-1042-A-8

Lab Sample ID: 140-1042-8

Client ID: DUP1

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

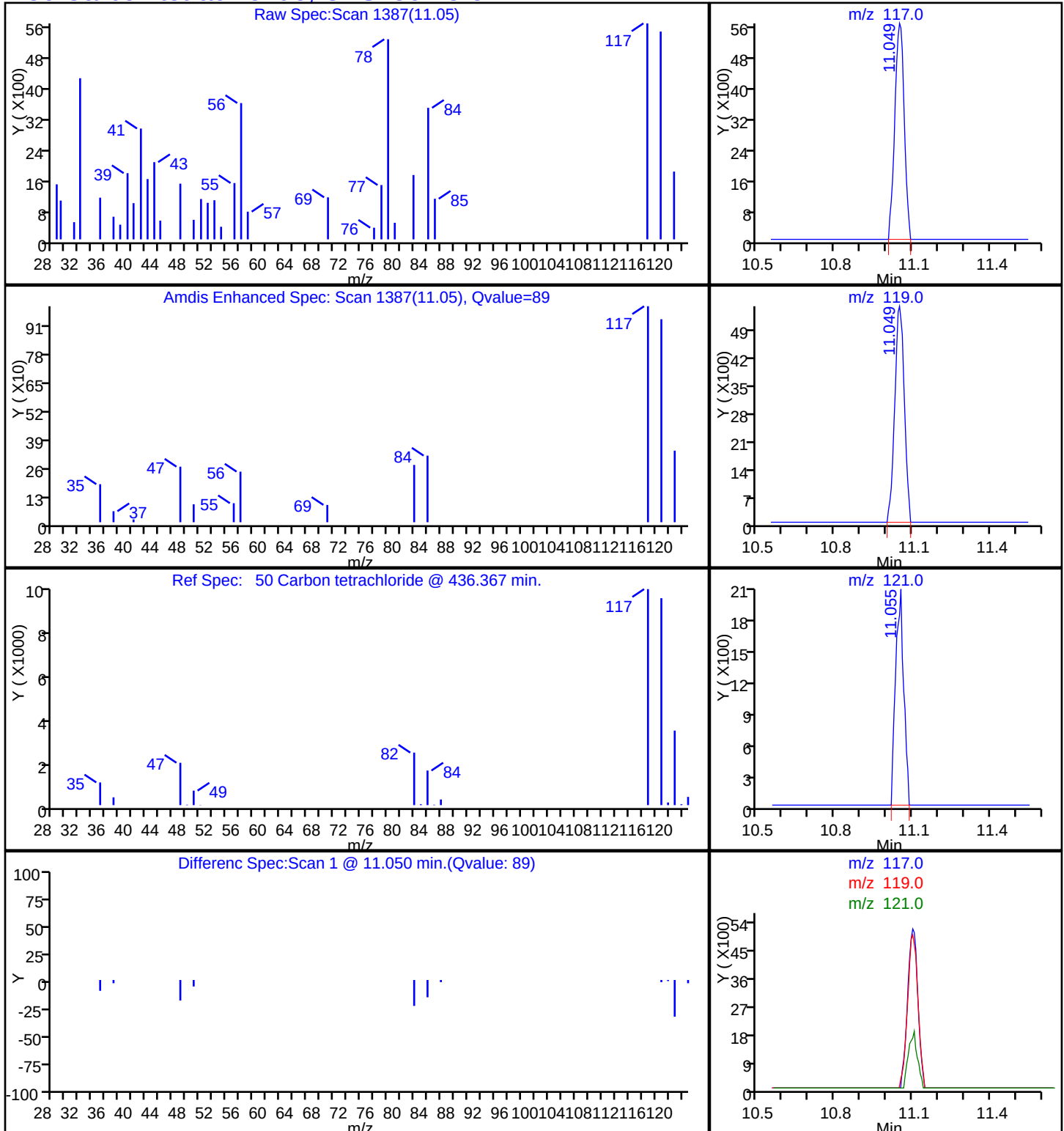
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #62-OA-2014 Lab Sample ID: 140-1042-9
 Matrix: Air Lab File ID: JC17P109.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 13:15
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 21:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.068		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #62-OA-2014 Lab Sample ID: 140-1042-9
 Matrix: Air Lab File ID: JC17P109.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 13:15
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 21:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.43		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P109.D
 Lims ID: 140-1042-A-9 Lab Sample ID: 140-1042-9
 Client ID: #62-OA-2014
 Sample Type: Client
 Inject. Date: 17-Mar-2014 21:53:30 ALS Bottle#: 9 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-9
 Misc. Info.: J031714,TO15,,140-0000526-013
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:29:00 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:29:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.384	9.387	-0.003	90	370514	4.00	
* 2 1,4-Difluorobenzene	114	11.536	11.544	-0.008	94	1775985	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.200	16.203	-0.003	86	1465533	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.819	17.822	-0.003	91	919477	3.55	
50 Carbon tetrachloride	117	11.047	11.055	-0.008	89	17144	0.0681	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P109.D

Injection Date: 17-Mar-2014 21:53:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-9

Lab Sample ID: 140-1042-9

Worklist Smp#: 13

Client ID: #62-OA-2014

Purge Vol: 500.000 mL

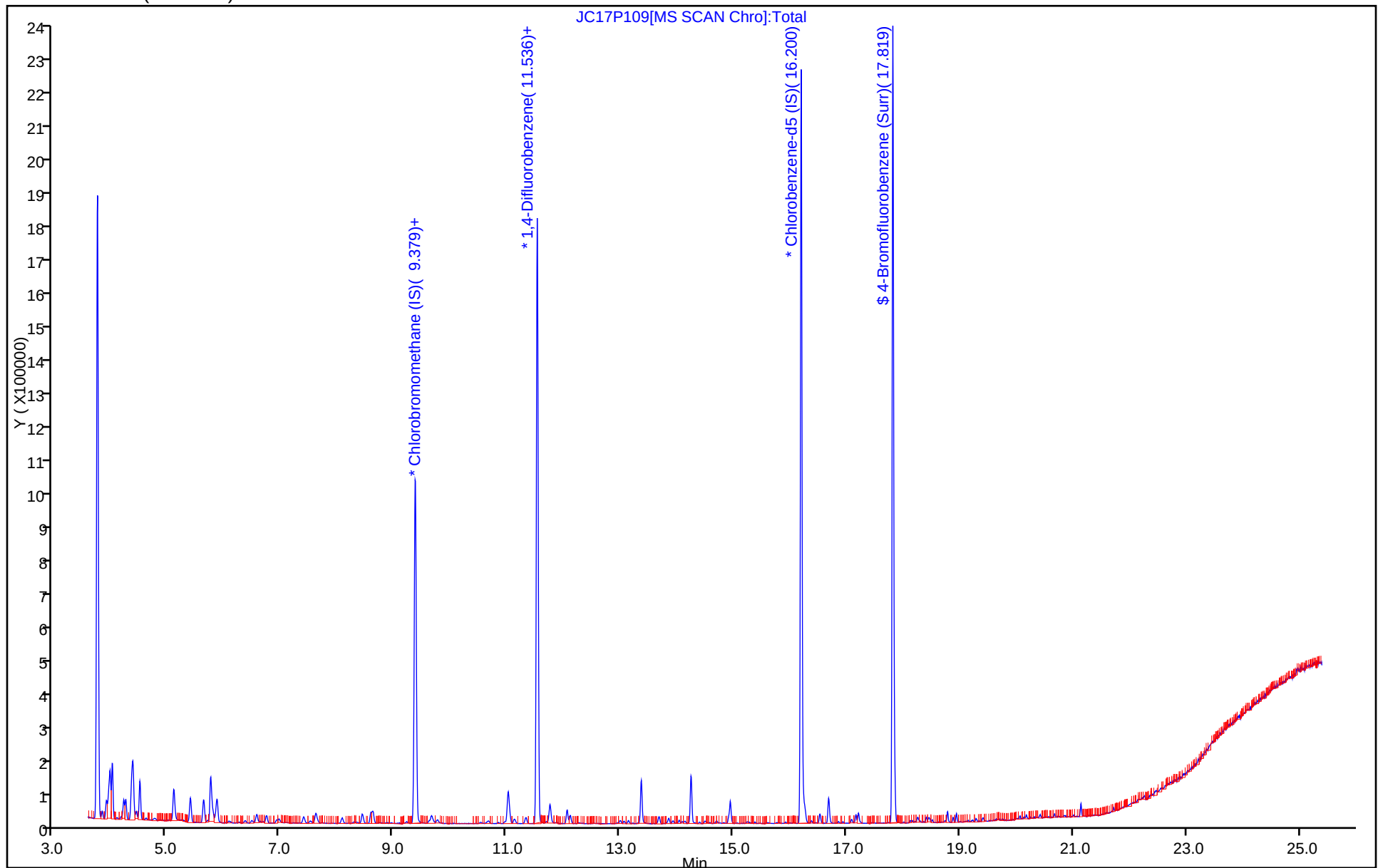
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P109.D

Injection Date: 17-Mar-2014 21:53:30

Instrument ID: MJ

Lims ID: 140-1042-A-9

Lab Sample ID: 140-1042-9

Client ID: #62-OA-2014

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

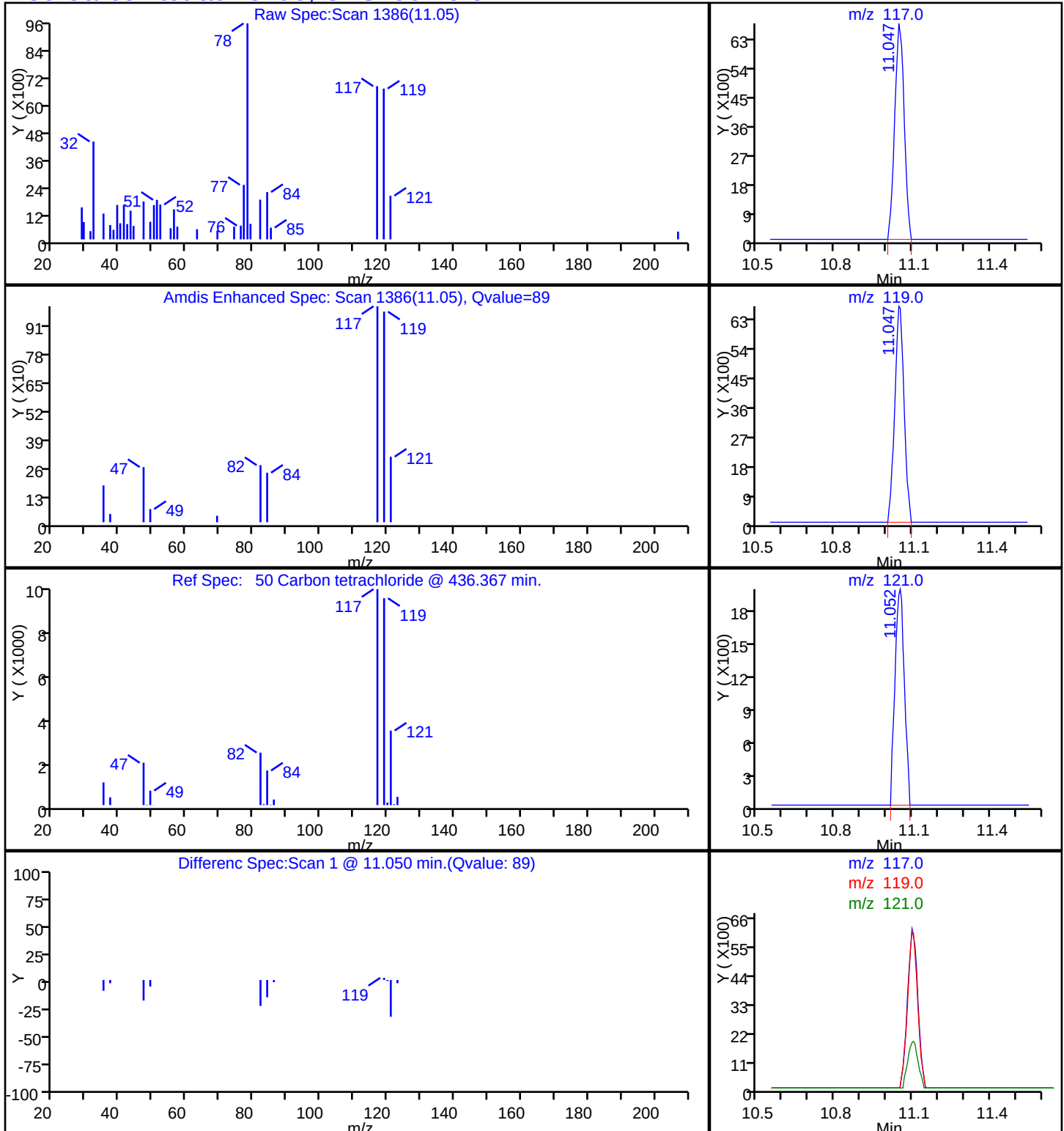
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #63-SS-2014 Lab Sample ID: 140-1042-10
 Matrix: Air Lab File ID: JC17P110.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 11:25
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 22:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.040		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	0.13		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #63-SS-2014 Lab Sample ID: 140-1042-10
 Matrix: Air Lab File ID: JC17P110.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 11:25
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 22:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.25		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	0.89		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P110.D
 Lims ID: 140-1042-A-10 Lab Sample ID: 140-1042-10
 Client ID: #63-SS-2014
 Sample Type: Client
 Inject. Date: 17-Mar-2014 22:47:30 ALS Bottle#: 10 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-10
 Misc. Info.: J031714,TO15,,140-0000526-014
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:29:36 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:29:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.387	-0.005	90	364797	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.544	-0.005	94	1715915	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.203	16.203	0.0	86	1415460	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.822	-0.005	91	965805	3.86	
34 trans-1,2-Dichloroethene	96	7.601	7.606	-0.005	83	9102	0.0738	
50 Carbon tetrachloride	117	11.050	11.055	-0.005	86	9613	0.0395	
73 Tetrachloroethene	129	15.385	15.390	-0.005	83	16104	0.1316	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P110.D

Injection Date: 17-Mar-2014 22:47:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-10

Lab Sample ID: 140-1042-10

Worklist Smp#: 14

Client ID: #63-SS-2014

Purge Vol: 500.000 mL

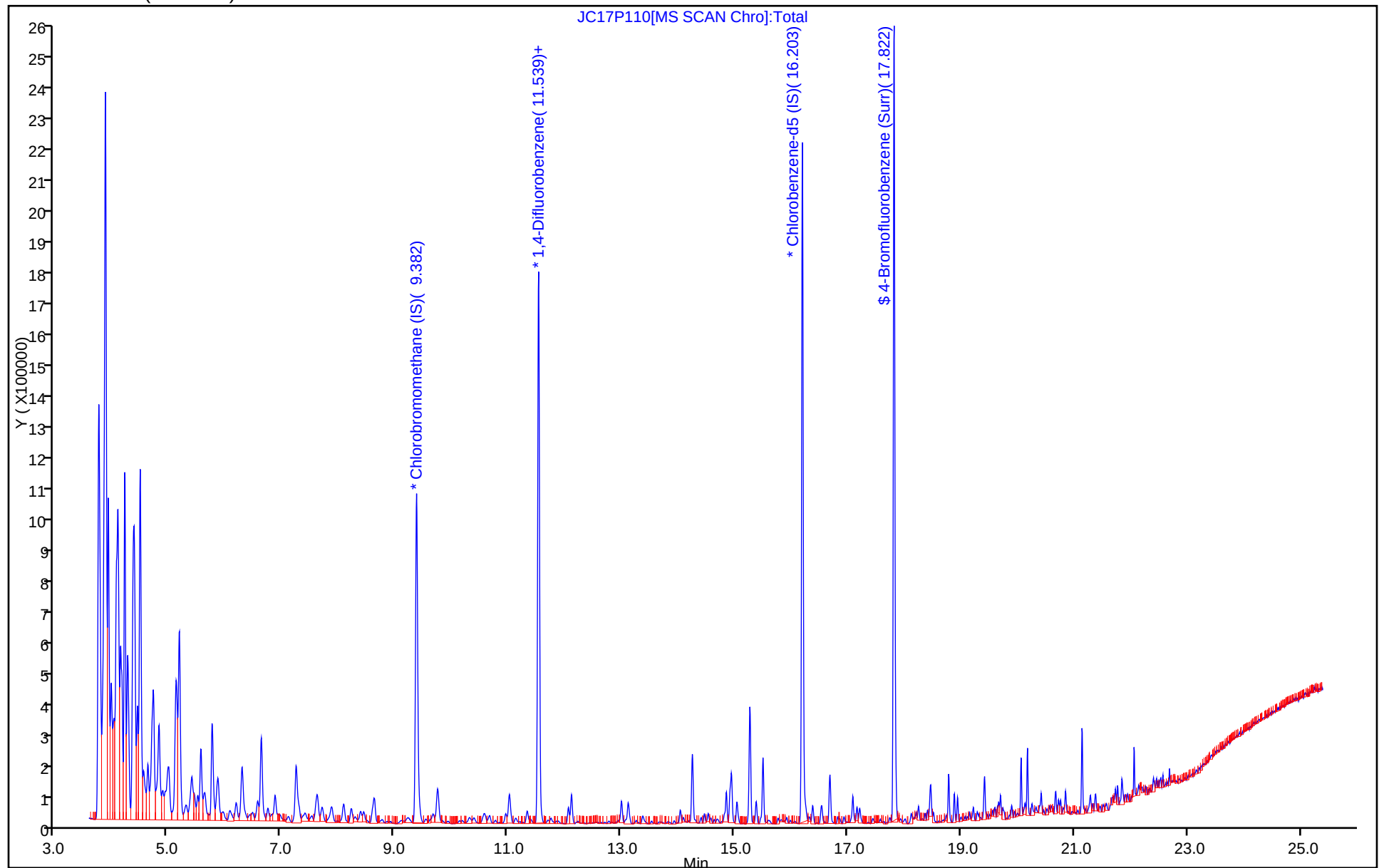
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P110.D

Injection Date: 17-Mar-2014 22:47:30

Instrument ID: MJ

Lims ID: 140-1042-A-10

Lab Sample ID: 140-1042-10

Client ID: #63-SS-2014

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 14

Purge Vol: 500.000 mL

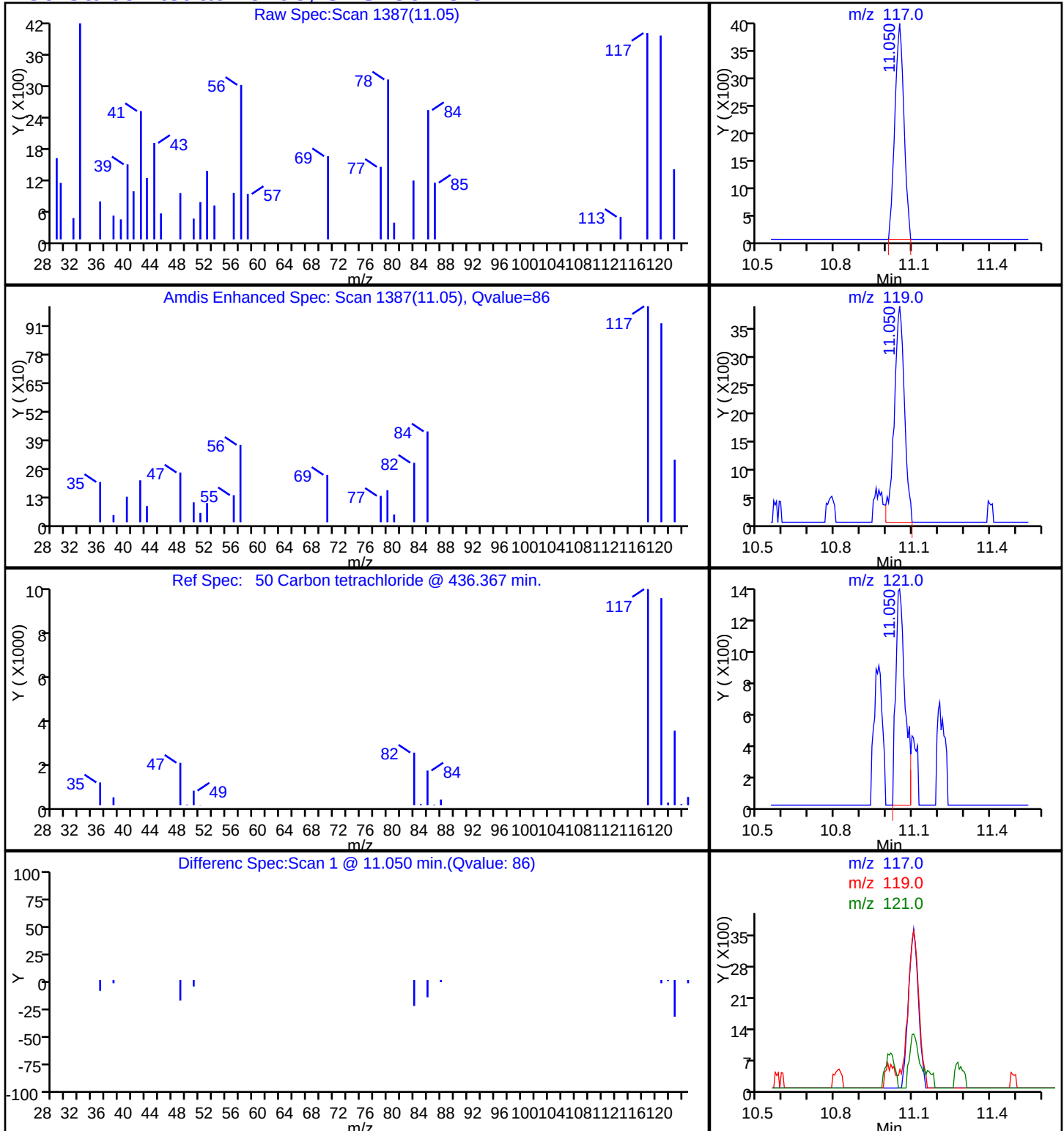
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P110.D

Injection Date: 17-Mar-2014 22:47:30

Instrument ID: MJ

Lims ID: 140-1042-A-10

Lab Sample ID: 140-1042-10

Client ID: #63-SS-2014

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 14

Purge Vol: 500.000 mL

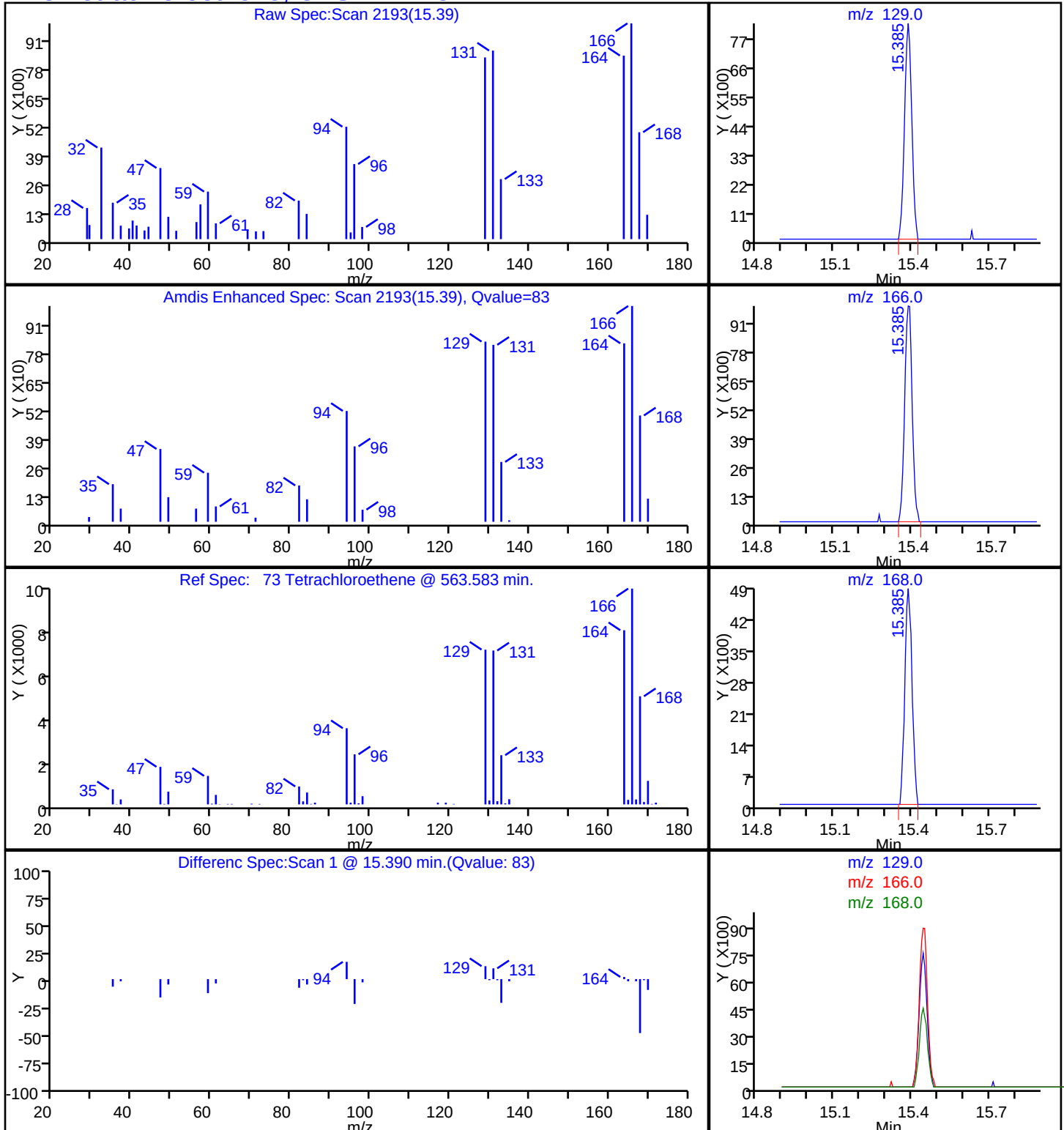
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #63-BA1-2014 Lab Sample ID: 140-1042-11
 Matrix: Air Lab File ID: JC17P111.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 11:06
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 23:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.098		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #63-BA1-2014 Lab Sample ID: 140-1042-11
 Matrix: Air Lab File ID: JC17P111.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 11:06
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 23:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.62		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P111.D
 Lims ID: 140-1042-A-11 Lab Sample ID: 140-1042-11
 Client ID: #63-BA1-2014
 Sample Type: Client
 Inject. Date: 17-Mar-2014 23:42:30 ALS Bottle#: 11 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-11
 Misc. Info.: J031714,TO15,,140-0000526-015
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:29:36 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:29:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.385	9.387	-0.002	92	375932	4.00	
* 2 1,4-Difluorobenzene	114	11.536	11.544	-0.008	94	1783543	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.200	16.203	-0.003	86	1484940	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.820	17.822	-0.002	91	1006194	3.83	
50 Carbon tetrachloride	117	11.052	11.055	-0.003	90	24880	0.0984	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P111.D

Injection Date: 17-Mar-2014 23:42:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-11

Lab Sample ID: 140-1042-11

Worklist Smp#: 15

Client ID: #63-BA1-2014

Purge Vol: 500.000 mL

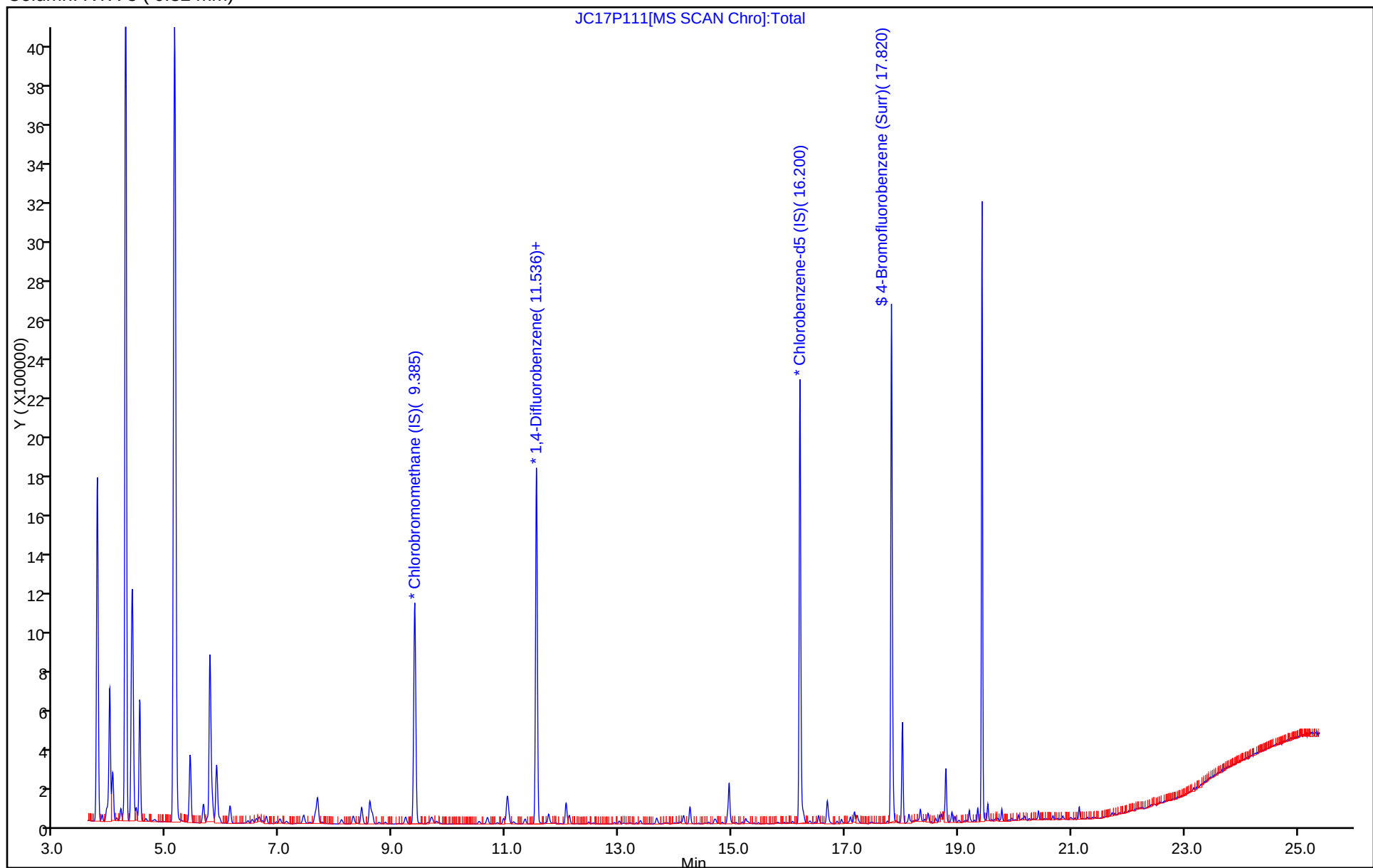
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P111.D

Injection Date: 17-Mar-2014 23:42:30

Instrument ID: MJ

Lims ID: 140-1042-A-11

Lab Sample ID: 140-1042-11

Client ID: #63-BA1-2014

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

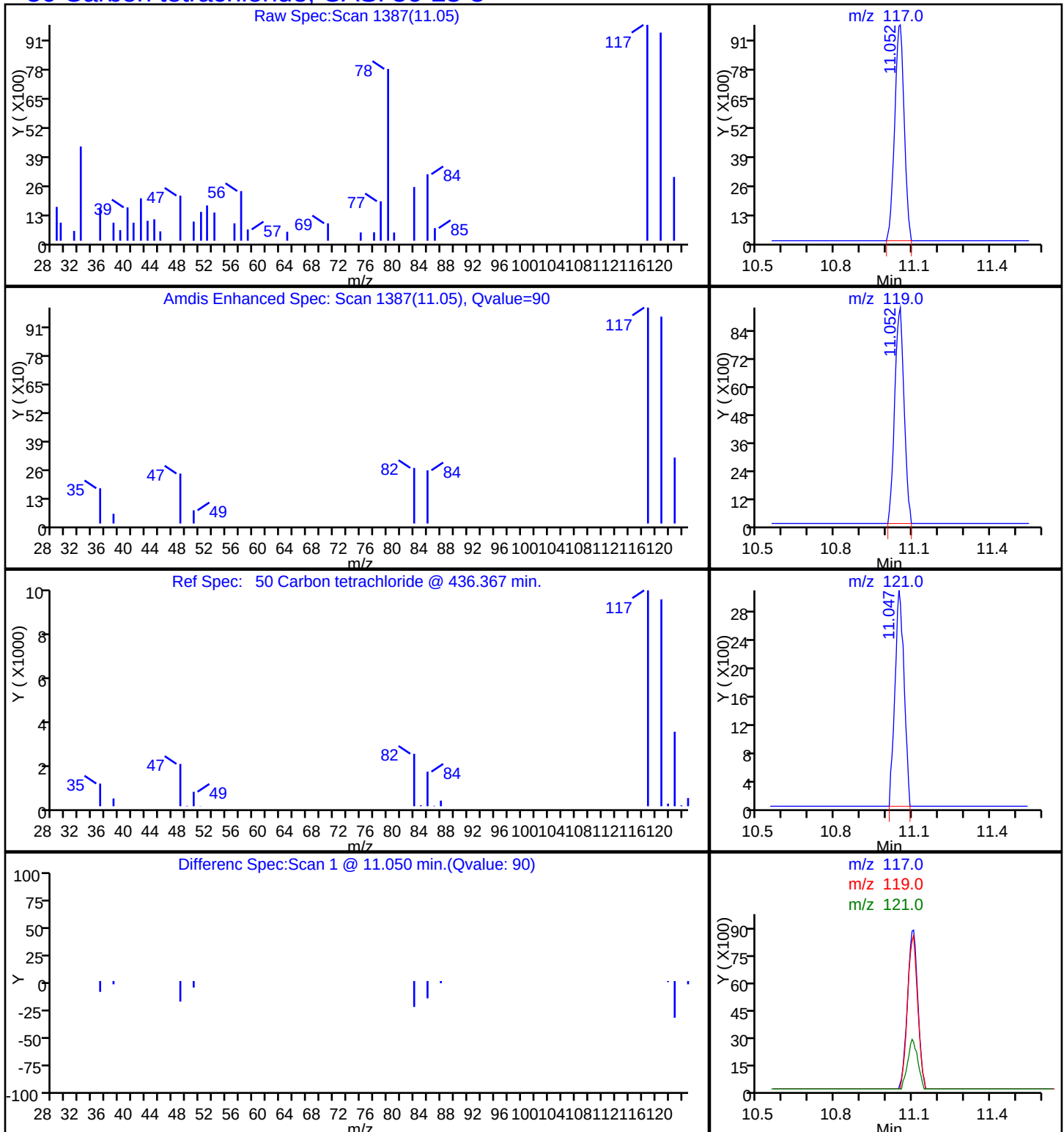
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #63-BA2-2014 Lab Sample ID: 140-1042-12
 Matrix: Air Lab File ID: JC17P112.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 11:08
 Sample wt/vol: 500 (mL) Date Analyzed: 03/18/2014 00:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.088		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #63-BA2-2014 Lab Sample ID: 140-1042-12
 Matrix: Air Lab File ID: JC17P112.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 11:08
 Sample wt/vol: 500 (mL) Date Analyzed: 03/18/2014 00:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.56		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P112.D
 Lims ID: 140-1042-A-12 Lab Sample ID: 140-1042-12
 Client ID: #63-BA2-2014
 Sample Type: Client
 Inject. Date: 18-Mar-2014 00:37:30 ALS Bottle#: 12 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-12
 Misc. Info.: J031714,TO15,,140-0000526-016
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:29:36 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:29:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.387	-0.005	90	349839	4.00	
* 2 1,4-Difluorobenzene	114	11.540	11.544	-0.004	94	1541887	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.203	-0.005	87	1277197	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.822	-0.005	90	918075	4.06	
50 Carbon tetrachloride	117	11.050	11.055	-0.005	90	19337	0.0885	
56 Trichloroethene	130	12.239	12.249	-0.010	38	2009	0.0157	
73 Tetrachloroethene	129	15.381	15.390	-0.009	61	2405	0.0218	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P112.D

Injection Date: 18-Mar-2014 00:37:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-12

Lab Sample ID: 140-1042-12

Worklist Smp#: 16

Client ID: #63-BA2-2014

Purge Vol: 500.000 mL

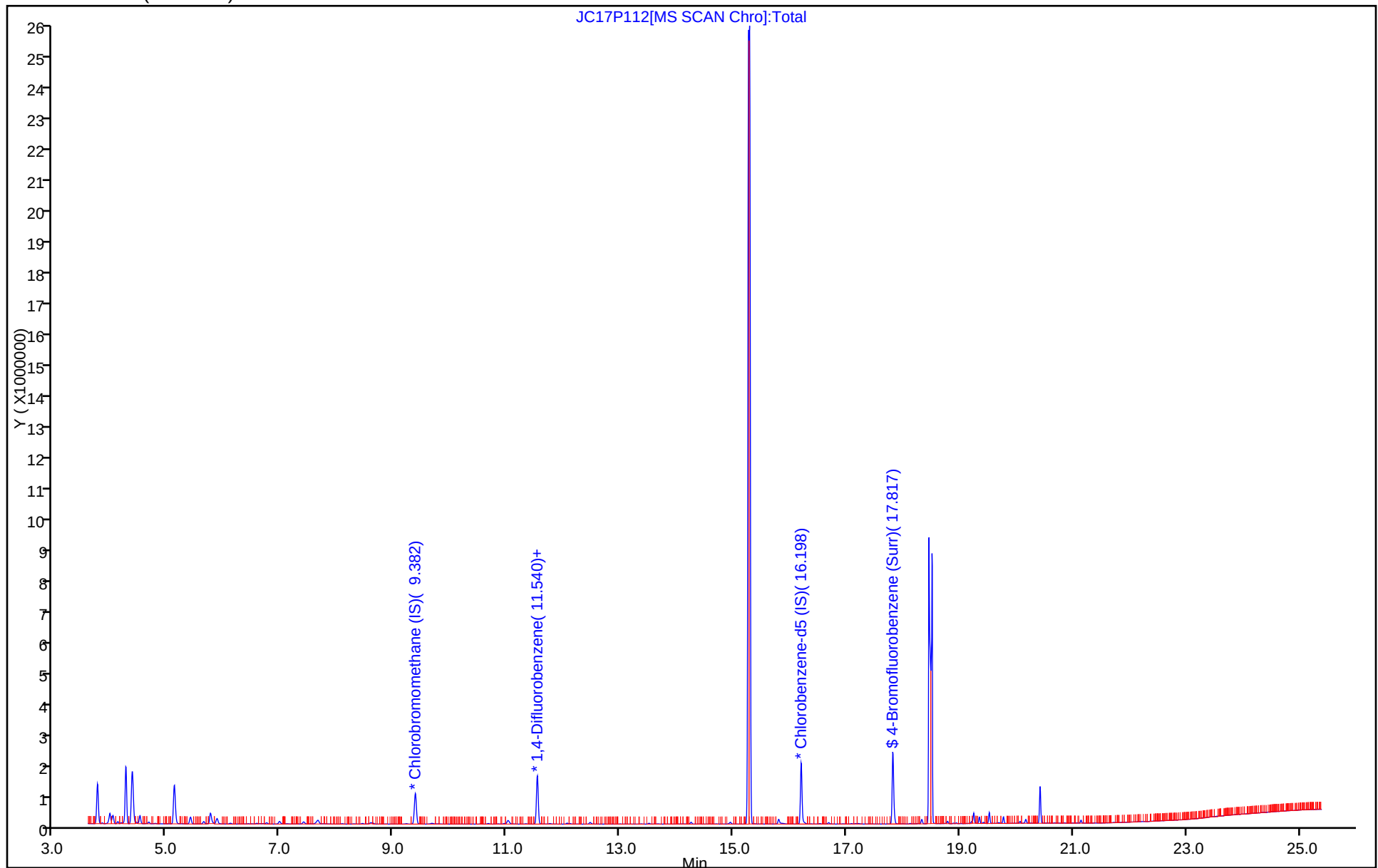
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P112.D

Injection Date: 18-Mar-2014 00:37:30

Instrument ID: MJ

Lims ID: 140-1042-A-12

Lab Sample ID: 140-1042-12

Client ID: #63-BA2-2014

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

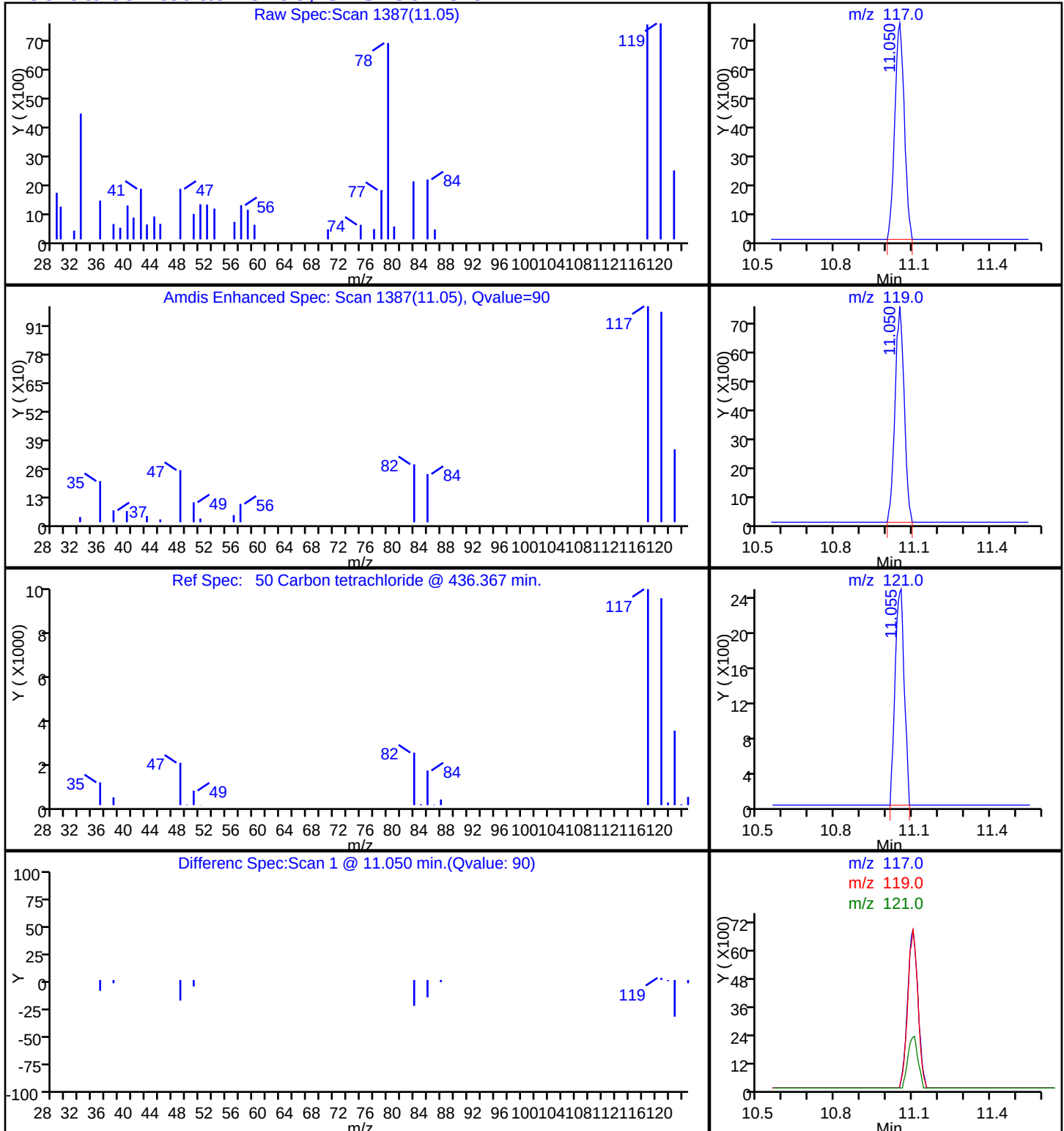
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #64-SS-2014 Lab Sample ID: 140-1042-13
 Matrix: Air Lab File ID: JC17P113.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 16:32
 Sample wt/vol: 500 (mL) Date Analyzed: 03/18/2014 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	ND		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	0.22		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	0.13		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #64-SS-2014 Lab Sample ID: 140-1042-13
 Matrix: Air Lab File ID: JC17P113.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 16:32
 Sample wt/vol: 500 (mL) Date Analyzed: 03/18/2014 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	ND		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	1.5		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	0.72		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P113.D
 Lims ID: 140-1042-A-13 Lab Sample ID: 140-1042-13
 Client ID: #64-SS-2014
 Sample Type: Client
 Inject. Date: 18-Mar-2014 01:31:30 ALS Bottle#: 13 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-13
 Misc. Info.: J031714,TO15,,140-0000526-017
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:29:36 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:30:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.387	-0.005	90	367333	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.544	-0.005	94	1708098	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.203	-0.005	87	1411521	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.822	-0.005	91	957086	3.83	
34 trans-1,2-Dichloroethene	96	7.607	7.606	0.001	70	4494	0.0362	
45 1,1,1-Trichloroethane	97	10.442	10.447	-0.005	68	9005	0.0404	
56 Trichloroethene	130	12.244	12.249	-0.005	89	19086	0.1342	
73 Tetrachloroethene	129	15.386	15.390	-0.004	90	26717	0.2190	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P113.D

Injection Date: 18-Mar-2014 01:31:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-13

Lab Sample ID: 140-1042-13

Worklist Smp#: 17

Client ID: #64-SS-2014

Purge Vol: 500.000 mL

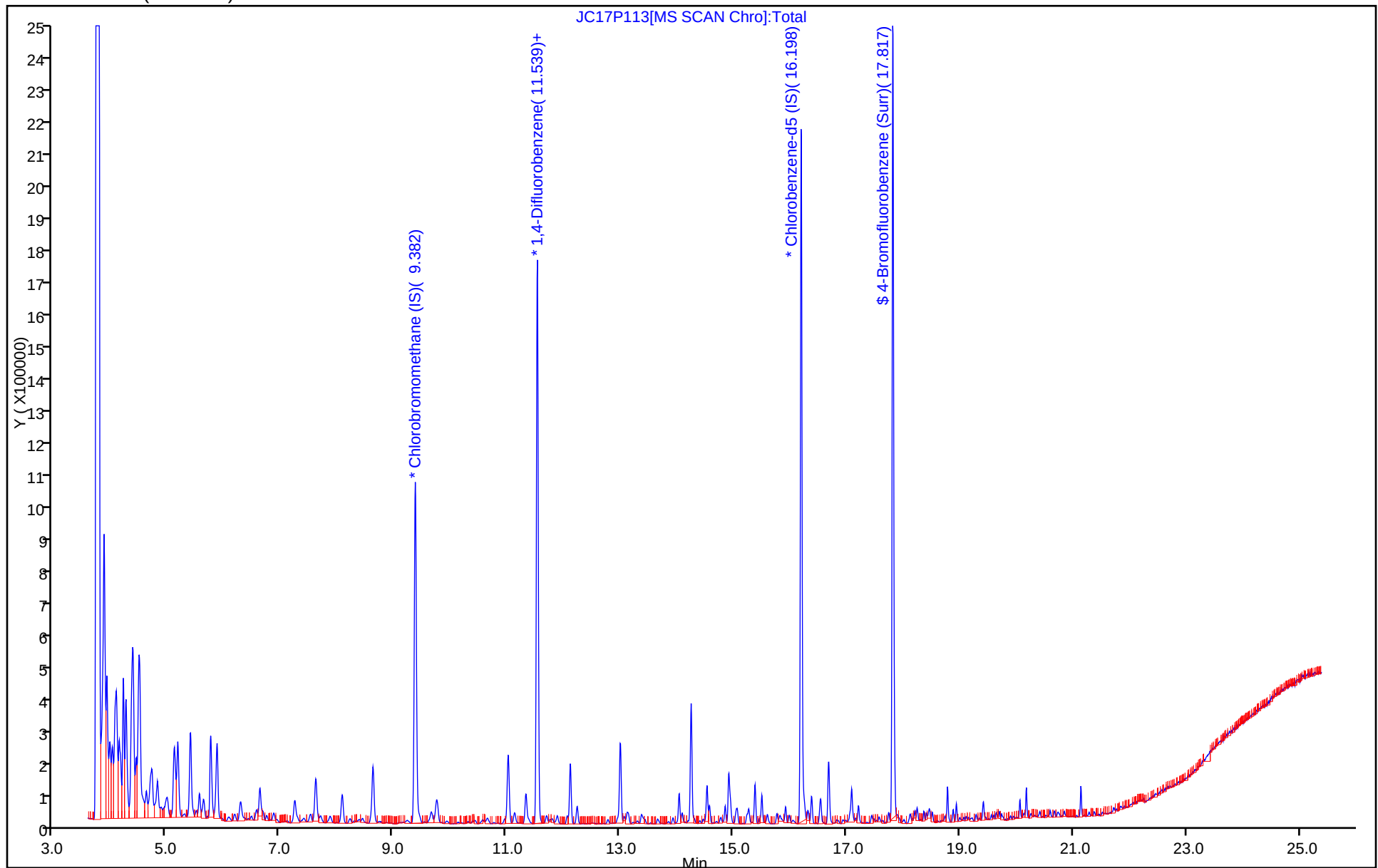
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P113.D

Injection Date: 18-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1042-A-13

Lab Sample ID: 140-1042-13

Client ID: #64-SS-2014

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

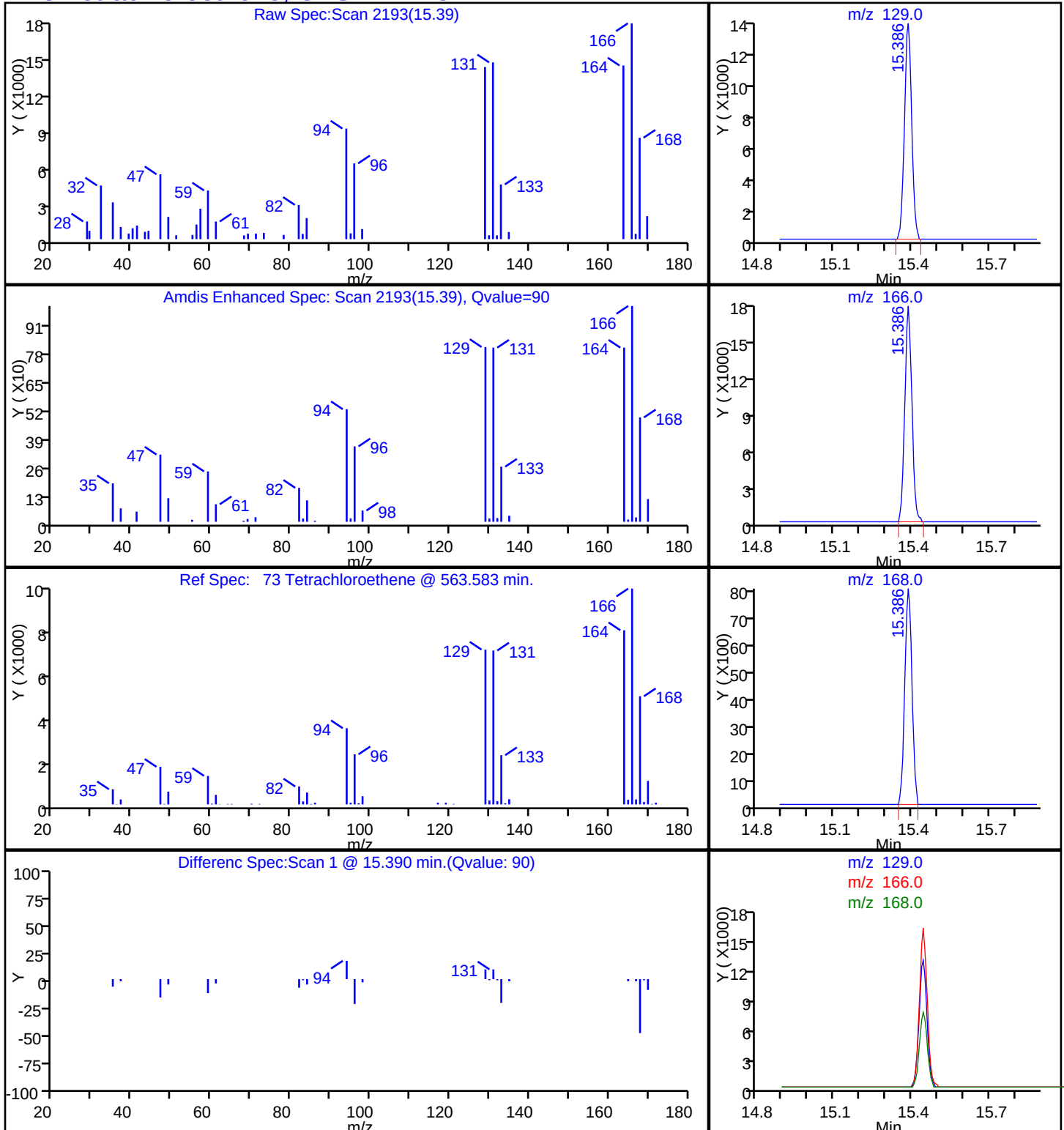
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

73 Tetrachloroethene, CAS: 127-18-4

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P113.D

Injection Date: 18-Mar-2014 01:31:30

Instrument ID: MJ

Lims ID: 140-1042-A-13

Lab Sample ID: 140-1042-13

Client ID: #64-SS-2014

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

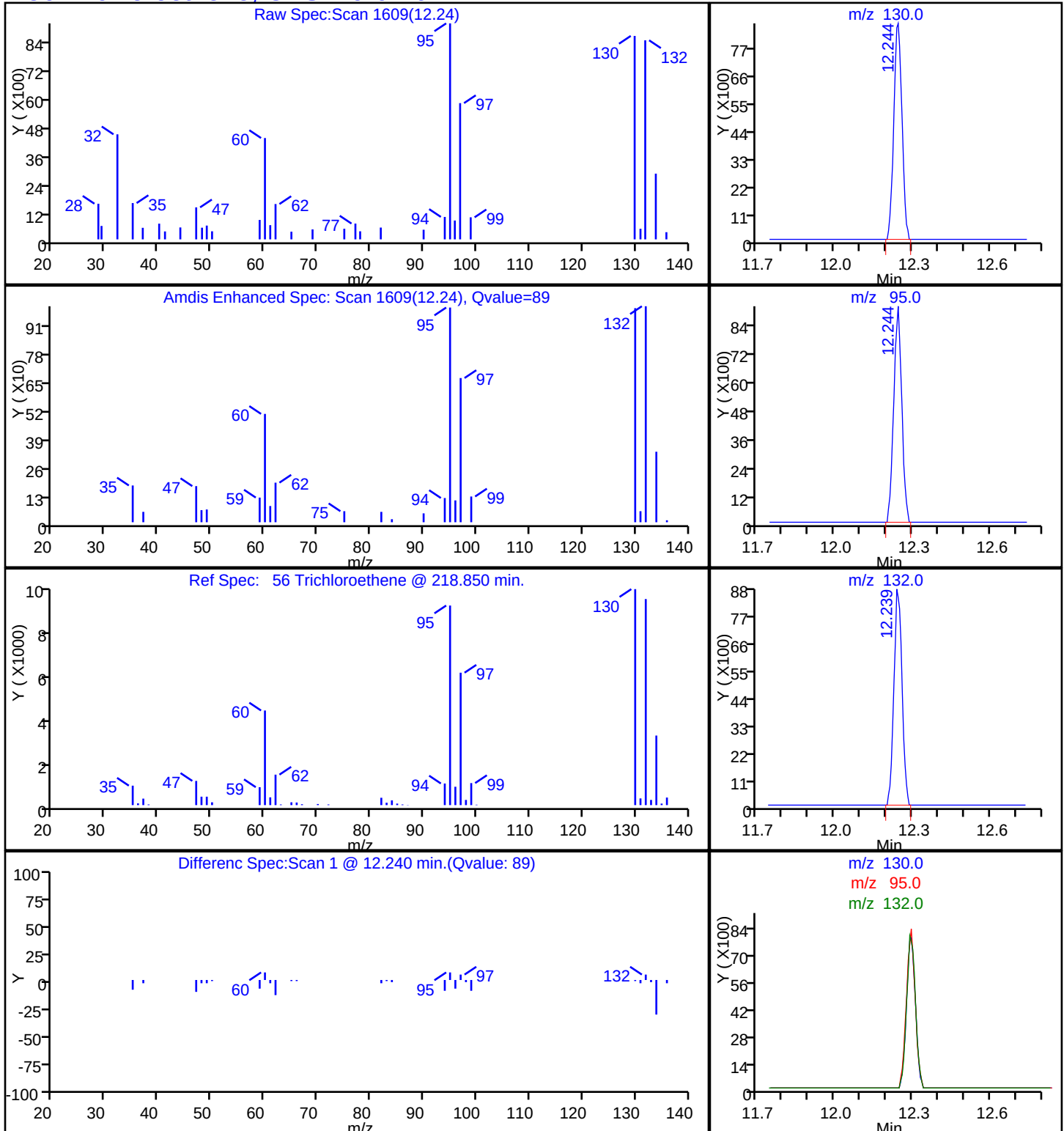
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

56 Trichloroethene, CAS: 79-01-6

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #64-BA-2014 Lab Sample ID: 140-1042-14
 Matrix: Air Lab File ID: JC17P114.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 16:34
 Sample wt/vol: 500 (mL) Date Analyzed: 03/18/2014 02:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.076		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #64-BA-2014 Lab Sample ID: 140-1042-14
 Matrix: Air Lab File ID: JC17P114.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 16:34
 Sample wt/vol: 500 (mL) Date Analyzed: 03/18/2014 02:25
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.48		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P114.D
 Lims ID: 140-1042-A-14 Lab Sample ID: 140-1042-14
 Client ID: #64-BA-2014
 Sample Type: Client
 Inject. Date: 18-Mar-2014 02:25:30 ALS Bottle#: 14 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-14
 Misc. Info.: J031714,TO15,,140-0000526-018
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:29:36 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:30:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.387	0.0	90	351906	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.544	-0.005	94	1585368	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.203	16.203	0.0	86	1338102	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.822	17.822	0.0	91	926470	3.91	
45 1,1,1-Trichloroethane	97	10.441	10.447	-0.006	63	9018	0.0422	
50 Carbon tetrachloride	117	11.054	11.055	-0.001	53	17095	0.0761	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P114.D

Injection Date: 18-Mar-2014 02:25:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-14

Lab Sample ID: 140-1042-14

Worklist Smp#: 18

Client ID: #64-BA-2014

Purge Vol: 500.000 mL

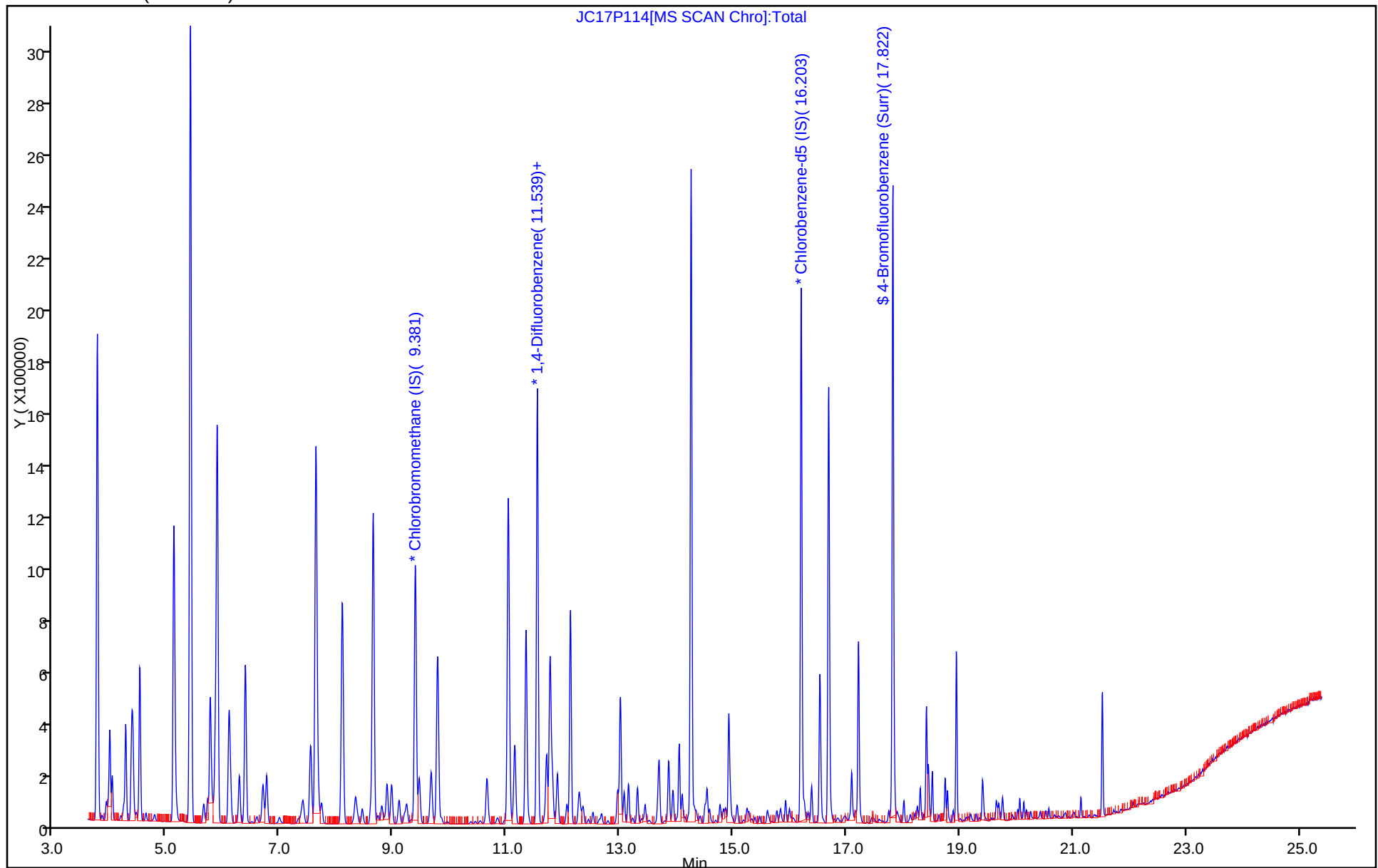
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P114.D

Injection Date: 18-Mar-2014 02:25:30

Instrument ID: MJ

Lims ID: 140-1042-A-14

Lab Sample ID: 140-1042-14

Client ID: #64-BA-2014

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

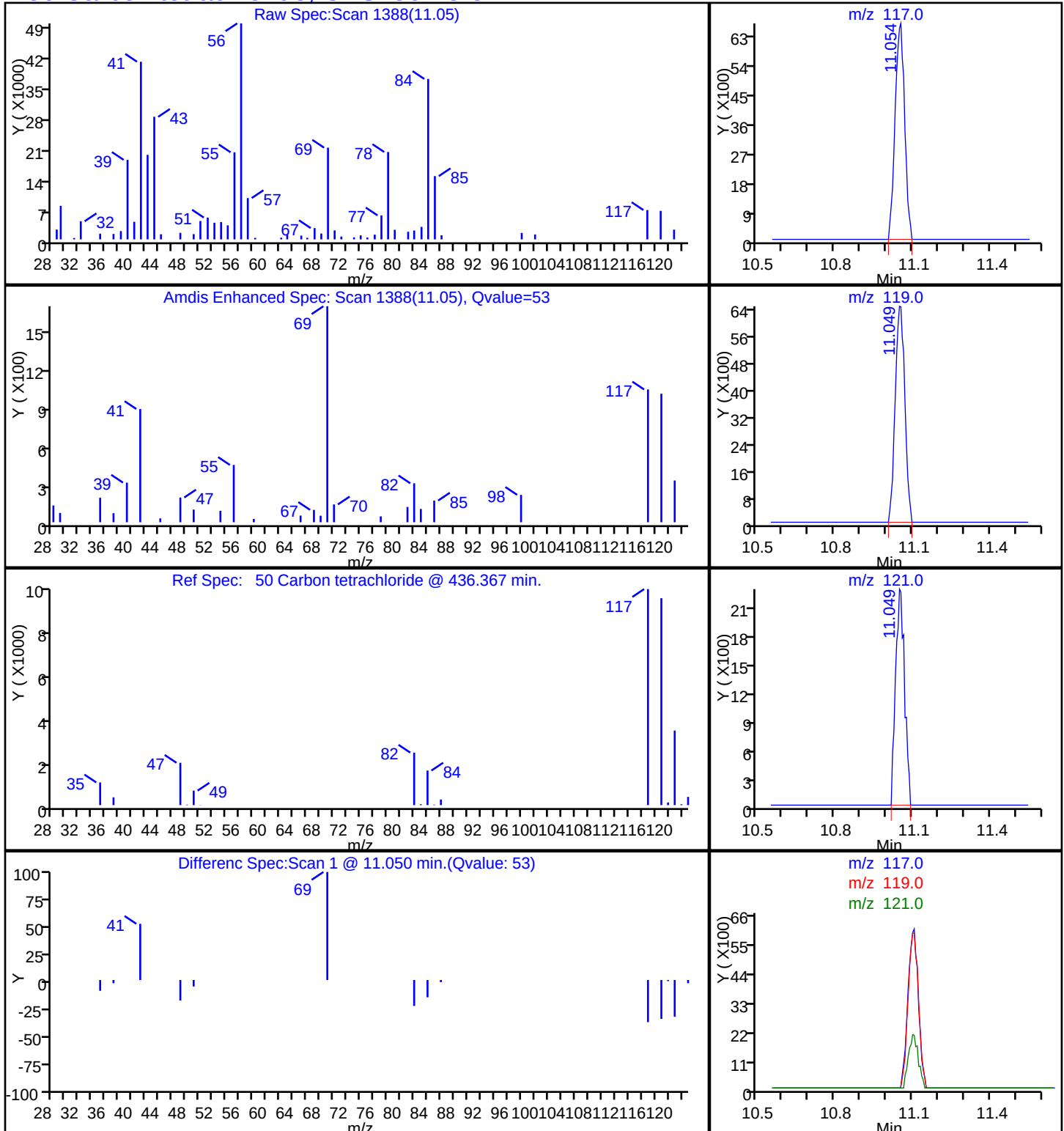
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #65-OA-2014 Lab Sample ID: 140-1042-15
 Matrix: Air Lab File ID: JC17P115.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 10:34
 Sample wt/vol: 500 (mL) Date Analyzed: 03/18/2014 03:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.064		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #65-OA-2014 Lab Sample ID: 140-1042-15
 Matrix: Air Lab File ID: JC17P115.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 10:34
 Sample wt/vol: 500 (mL) Date Analyzed: 03/18/2014 03:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.40		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P115.D
 Lims ID: 140-1042-A-15 Lab Sample ID: 140-1042-15
 Client ID: #65-OA-2014
 Sample Type: Client
 Inject. Date: 18-Mar-2014 03:20:30 ALS Bottle#: 15 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-a-15
 Misc. Info.: J031714,TO15,,140-0000526-019
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:29:36 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:30:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.383	9.387	-0.004	89	375410	4.00	
* 2 1,4-Difluorobenzene	114	11.540	11.544	-0.004	94	1825740	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.203	-0.005	86	1516127	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.818	17.822	-0.004	91	1003301	3.74	
34 trans-1,2-Dichloroethene	96	7.602	7.606	-0.004	69	6545	0.0516	
50 Carbon tetrachloride	117	11.045	11.055	-0.010	90	16651	0.0643	
73 Tetrachloroethene	129	15.381	15.390	-0.009	79	5134	0.0392	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P115.D

Injection Date: 18-Mar-2014 03:20:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-15

Lab Sample ID: 140-1042-15

Worklist Smp#: 19

Client ID: #65-OA-2014

Purge Vol: 500.000 mL

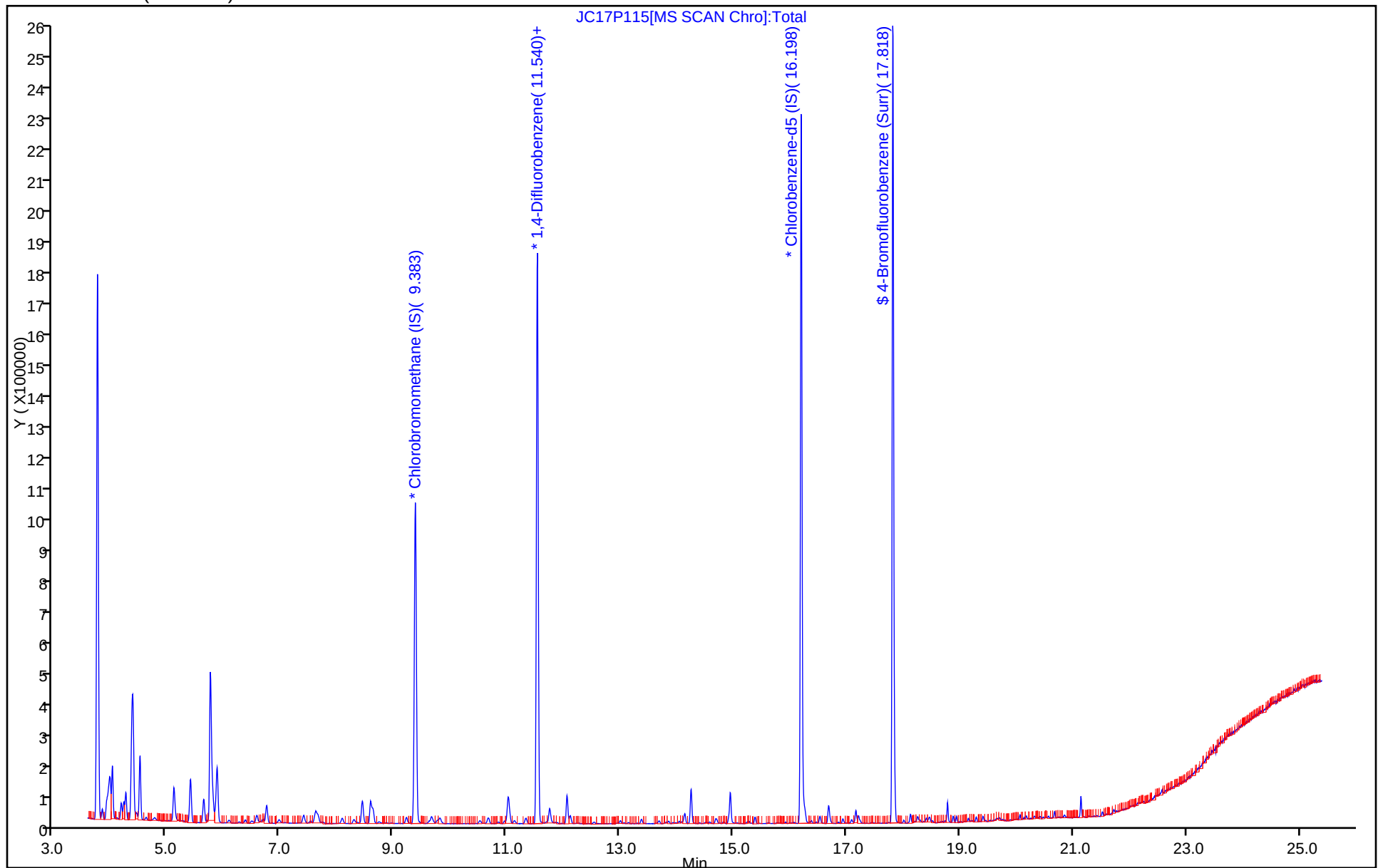
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P115.D

Injection Date: 18-Mar-2014 03:20:30

Instrument ID: MJ

Lims ID: 140-1042-A-15

Lab Sample ID: 140-1042-15

Client ID: #65-OA-2014

Operator ID: 403648

ALS Bottle#: 15

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

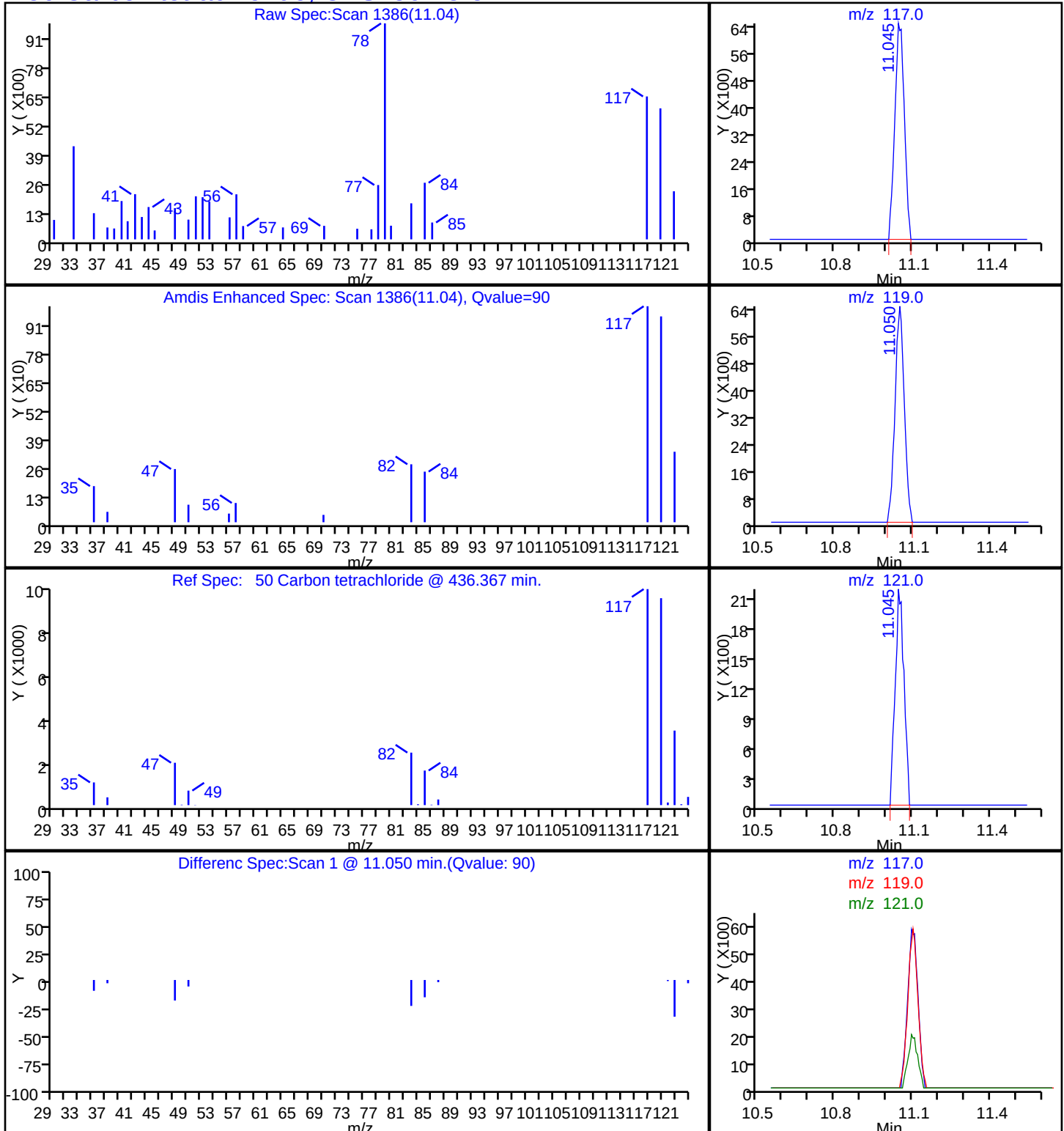
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #65-CS-2014 Lab Sample ID: 140-1042-16
 Matrix: Air Lab File ID: JC17P201.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 10:32
 Sample wt/vol: 500 (mL) Date Analyzed: 03/18/2014 04:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.065		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: #65-CS-2014 Lab Sample ID: 140-1042-16
 Matrix: Air Lab File ID: JC17P201.D
 Analysis Method: TO 15 LL Date Collected: 03/06/2014 10:32
 Sample wt/vol: 500 (mL) Date Analyzed: 03/18/2014 04:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	0.41		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P201.D
 Lims ID: 140-1042-A-16 Lab Sample ID: 140-1042-16
 Client ID: #65-CS-2014
 Sample Type: Client
 Inject. Date: 18-Mar-2014 04:14:30 ALS Bottle#: 1 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-1042-A-16
 Misc. Info.: J031714,TO15,,140-0000526-020
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:29:36 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:30:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.382	9.387	-0.005	89	361787	4.00	
* 2 1,4-Difluorobenzene	114	11.539	11.544	-0.005	94	1708384	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.198	16.203	-0.005	86	1361093	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.817	17.822	-0.005	91	903988	3.76	
34 trans-1,2-Dichloroethene	96	7.602	7.606	-0.004	72	6840	0.0559	
50 Carbon tetrachloride	117	11.050	11.055	-0.005	90	15826	0.0654	
73 Tetrachloroethene	129	15.386	15.390	-0.004	84	9144	0.0777	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P201.D

Injection Date: 18-Mar-2014 04:14:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-1042-A-16

Lab Sample ID: 140-1042-16

Worklist Smp#: 20

Client ID: #65-CS-2014

Purge Vol: 500.000 mL

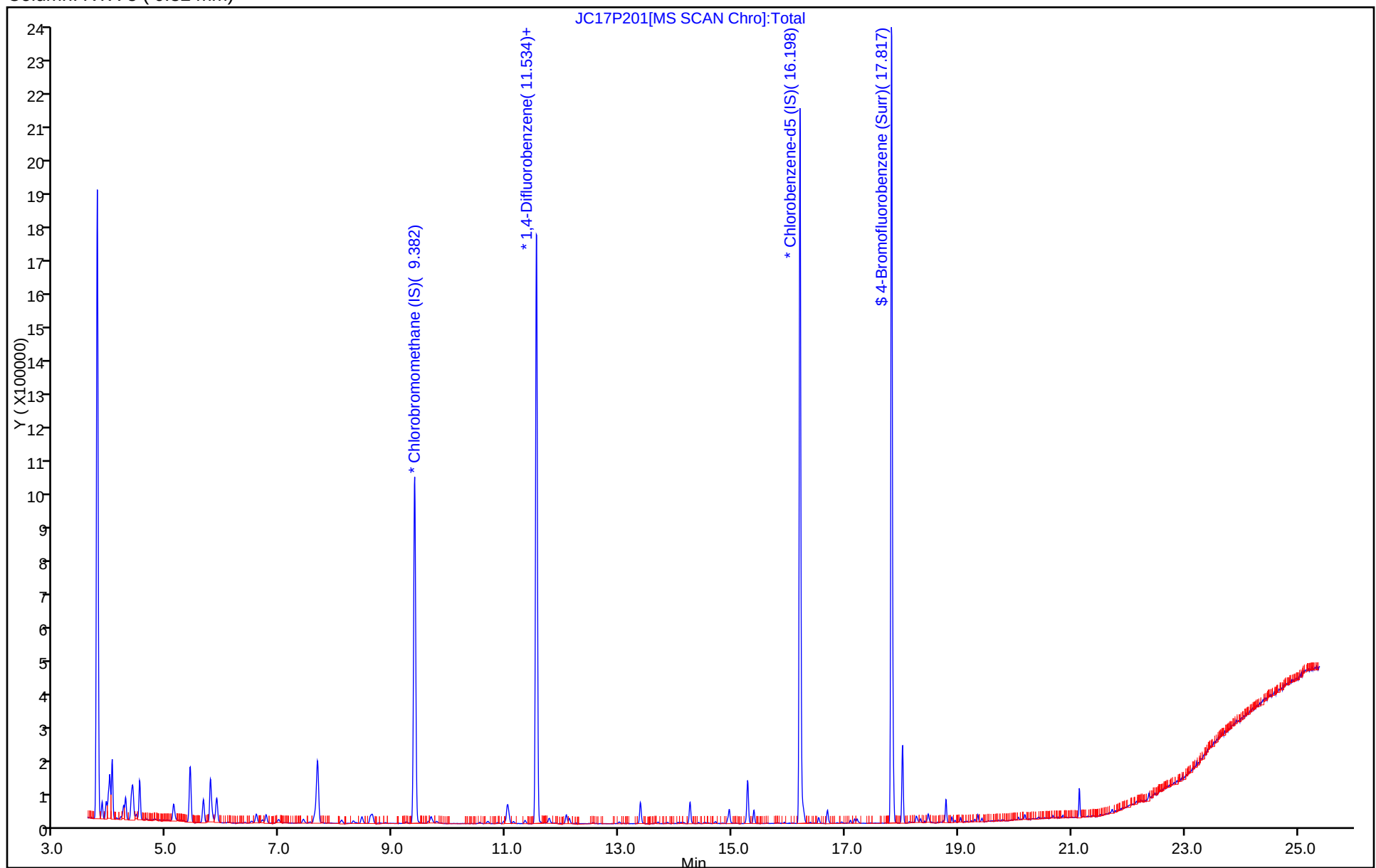
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JC17P201.D

Injection Date: 18-Mar-2014 04:14:30

Instrument ID: MJ

Lims ID: 140-1042-A-16

Lab Sample ID: 140-1042-16

Client ID: #65-CS-2014

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 20

Purge Vol: 500.000 mL

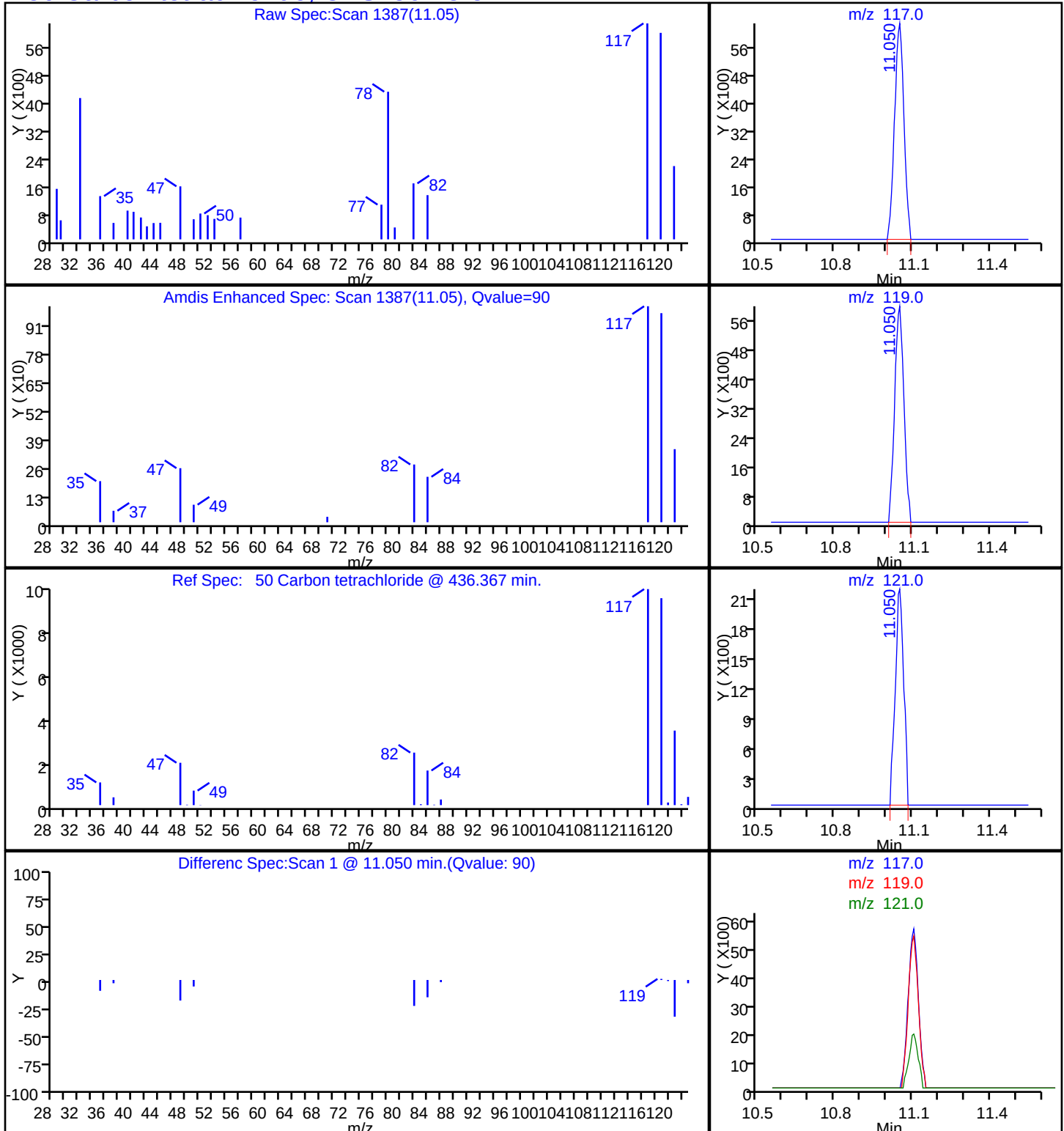
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Carbon tetrachloride, CAS: 56-23-5

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chlorodifluoromethane	+++++ 0.3753	0.4978 0.3659	0.5073 0.4196	0.4028 0.3604	0.3733	Ave		0.4128				14.0		30.0			
Propene	+++++ 1.1609	+++++ 1.0928	1.5479 1.2091	1.3069 1.0396	1.2285	Ave		1.2265				14.0		30.0			
Dichlorodifluoromethane	4.0543 3.8605	4.1829 3.7019	4.4748 4.1665	3.9221 3.4793	3.8163	Ave		3.9621				7.4		30.0			
Chloromethane	0.4990 0.4300	0.5059 0.4083	0.5376 0.4477	0.4430 0.3527	0.4267	Ave		0.4501				13.0		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.0829 2.9363	2.9387 2.9036	3.2994 3.3134	2.7218 2.8449	2.8704	Ave		2.9902				6.8		30.0			
Acetaldehyde	+++++ 0.3869	+++++ 0.3394	0.5021 0.4038	0.3733 0.3144	0.4428	Ave		0.3947				16.0		40.0			
Vinyl chloride	1.5245 1.4510	1.5243 1.3825	1.7385 1.5461	1.4871 1.2615	1.4309	Ave		1.4829				8.8		30.0			
1,3-Butadiene	1.0318 0.9981	1.1281 0.9554	1.1902 1.0690	1.0309 0.8729	0.9968	Ave		1.0304				9.0		30.0			
Butane	2.4463 1.9819	2.4604 1.8724	2.4977 2.0463	2.0911 1.6158	1.9815	Ave		2.1104				14.0		30.0			
Bromomethane	1.6099 1.4285	1.6087 1.3888	1.7128 1.5877	1.4631 1.3671	1.4070	Ave		1.5082				8.2		30.0			
Chloroethane	0.7289 0.6460	0.7041 0.6345	0.7842 0.7144	0.6734 0.6077	0.6467	Ave		0.6822				8.1		30.0			
Ethanol	+++++ 0.3202	+++++ 0.3084	0.3784 0.3103	0.3380 0.2624	0.3301	Ave		0.3211				11.0		40.0			
Vinyl bromide	1.2510 1.2325	1.2858 1.2290	1.4459 1.4152	1.2277 1.2497	1.2076	Ave		1.2827				6.8		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Methylbutane	+++++ 1.5962	1.9901 1.5455	2.0881 1.7015	1.6610 1.4088	1.5999	Ave		1.6989				13.0		30.0			
Trichlorofluoromethane	3.4010 3.3842	3.4970 3.3373	3.9742 3.7583	3.3853 3.2490	3.3401	Ave		3.4807				6.7		30.0			
Acrolein	+++++ 0.3021	0.4128 0.2855	0.3655 0.3935	0.2328 0.3121	0.3081	Ave		0.3266				18.0		30.0			
Acetonitrile	+++++ 0.3368	0.4098 0.3061	0.4320 0.3943	0.3296 0.3403	0.3366	Ave		0.3607				12.0		30.0			
Acetone	+++++ 0.5780	+++++ 0.3424	+++++ 0.3699	0.7210 +++++	0.8316	Ave		0.5686				38.0	*	30.0			
Isopropyl alcohol	+++++ 1.4403	+++++ 1.4471	1.7112 1.5786	1.5277 1.3482	1.4569	Ave		1.5014				7.8		30.0			
Pentane	+++++ 0.2110	0.1929 0.2103	0.2420 0.2383	0.2107 0.2065	0.2100	Ave		0.2152				7.7		30.0			
Ethyl ether	+++++ 1.0219	1.2193 0.9461	1.2370 1.0985	0.8503 0.9217	1.0780	Ave		1.0466				13.0		30.0			
1,1-Dichloroethene	1.2472 1.0504	1.1312 1.0692	1.2574 1.1985	1.0484 1.0684	1.0359	Ave		1.1230				7.9		30.0			
tert-Butyl alcohol	+++++ 1.5527	2.1474 1.6753	2.1170 1.9312	1.9306 1.6797	1.7618	Ave		1.8495				12.0		30.0			
Acrylonitrile	0.6837 0.5684	0.6036 0.5529	0.6491 0.6783	0.4430 0.6032	0.5680	Ave		0.5945				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.4110 2.3296	2.4189 2.3382	2.7256 2.5850	2.3179 2.2877	2.2929	Ave		2.4119				6.2		30.0			
Methylene Chloride	+++++ 1.0284	+++++ 1.0127	1.3860 1.0525	1.0569 0.9311	1.0231	Ave		1.0701				14.0		30.0			
3-Chloropropene	+++++ 1.0457	1.4141 1.0202	1.4133 1.0428	1.0400 0.8935	1.0351	Ave		1.1131				17.0		30.0			
Carbon disulfide	3.8327 3.6559	3.8048 3.6157	4.3304 4.0136	3.6252 3.4128	3.5747	Ave		3.7629				7.3		30.0			
trans-1,2-Dichloroethene	1.5956 1.2849	1.4088 1.2971	1.5141 1.3354	1.2666 1.2156	1.2555	Ave		1.3526				9.5		30.0			
2-Methylpentane	3.5143 2.9748	3.3896 2.8931	3.6215 3.0116	2.9875 2.4248	2.9621	Ave		3.0866				12.0		40.0			
Methyl tert-butyl ether	+++++ 2.0306	2.2440 1.9367	2.3259 2.1576	1.7335 1.8416	2.0623	Ave		2.0415				9.8		30.0			
1,1-Dichloroethane	2.2983 2.0618	2.2481 2.0212	2.5871 1.9936	1.8978 1.7914	2.0982	Ave		2.1108				11.0		30.0			
Vinyl acetate	+++++ 1.8387	2.0207 1.7150	2.0413 2.1043	1.4173 1.8329	1.8240	Ave		1.8493				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.3964	+++++ 0.3598	0.4111 0.3829	0.3437 0.3472	0.4093	Ave		0.3786				7.5		30.0			
C6 Range	+++++ 11.457	+++++ 10.950	14.161 11.507	11.950 10.055	11.668	Ave		11.678				11.0		30.0			
Hexane	1.2499 1.0288	1.1722 0.9966	1.2816 1.0234	1.0019 0.9009	1.0232	Ave		1.0754				12.0		30.0			
cis-1,2-Dichloroethene	+++++ 1.1421	1.2484 1.1159	1.4102 1.1085	1.0275 1.0343	1.1509	Ave		1.1547				11.0		30.0			
Ethyl acetate	+++++ 1.6675	1.8616 1.5787	1.8823 1.7022	1.3606 1.4909	1.6483	Ave		1.6490				11.0		30.0			
Chloroform	2.7060 2.2129	2.5161 2.1695	2.8522 2.1655	2.0807 1.9884	2.2854	Ave		2.3307				13.0		30.0			
Tetrahydrofuran	+++++ 0.8907	1.1007 0.8382	1.1060 0.9416	0.7993 0.8406	0.8948	Ave		0.9265				13.0		30.0			
1,1,1-Trichloroethane	2.5690 2.4044	2.5894 2.3199	2.9524 2.2395	2.2082 2.1153	2.4654	Ave		2.4293				10.0		30.0			
1,2-Dichloroethane	0.3524 0.2986	0.3242 0.3013	0.3469 0.2973	0.2680 0.3047	0.2994	Ave		0.3103				8.5		30.0			
1-Butanol	+++++ 0.0758	+++++ 0.0850	+++++ 0.1016	0.0902 0.0993	0.0728	Ave		0.0874				14.0		30.0			
Benzene	+++++ 0.6491	0.7894 0.6742	0.7885 0.6678	0.5956 0.6732	0.6526	Ave		0.6863				9.9		30.0			
Cyclohexane	0.1355 0.1326	0.1403 0.1351	0.1546 0.1320	0.1280 0.1295	0.1311	Ave		0.1354				6.0		30.0			
Carbon tetrachloride	0.5567 0.5334	0.5322 0.5682	0.6406 0.5720	0.5209 0.6134	0.5648	Ave		0.5669				6.9		30.0			
2,3-Dimethylpentane	0.1746 0.1531	0.1672 0.1548	0.1903 0.1594	0.1424 0.1580	0.1574	Ave		0.1619				8.6		40.0			
Thiophene	+++++ 0.4079	0.4449 0.4137	0.5038 0.4130	0.3692 0.4248	0.4135	Ave		0.4238				9.1		40.0			
2,2,4-Trimethylpentane	+++++ 1.1013	1.2866 1.1120	1.4233 1.1598	1.0650 1.0917	1.1349	Ave		1.1718				10.0		30.0			
Heptane	+++++ 0.2302	0.2523 0.2339	0.2876 0.2500	0.2069 0.2495	0.2312	Ave		0.2427				9.7		30.0			
1,2-Dichloropropane	0.2713 0.2248	0.2476 0.2244	0.2446 0.2162	0.1894 0.2424	0.2270	Ave		0.2320				9.9		30.0			
Trichloroethene	0.3681 0.3070	0.3361 0.3103	0.3882 0.3376	0.2860 0.3565	0.3066	Ave		0.3329				10.0		30.0			
Dibromomethane	0.3519 0.2871	0.3135 0.2904	0.3463 0.3019	0.2521 0.3144	0.2898	Ave		0.3053				10.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Bromodichloromethane	0.5415 0.4610	0.4794 0.4772	0.5203 0.5090	0.3917 0.5236	0.4559	Ave		0.4844				9.4		30.0			
1,4-Dioxane	0.0864 0.0761	0.0789 0.0837	0.0861 0.0932	0.0734 0.0944	0.0759	Ave		0.0831				9.1		30.0			
Methyl methacrylate	++++ 0.2033	0.2108 0.2121	0.2172 0.2415	0.1522 0.2315	0.1963	Ave		0.2081				13.0		30.0			
Methylcyclohexane	0.5084 0.4369	0.4885 0.4352	0.5437 0.4447	0.4036 0.4462	0.4506	Ave		0.4620				9.4		40.0			
4-Methyl-2-pentanone (MIBK)	0.4768 0.4049	0.4050 0.4208	0.3722 0.5038	0.3199 0.4786	0.3915	Ave		0.4193				14.0		30.0			
cis-1,3-Dichloropropene	0.3912 0.3148	0.3360 0.3226	0.3321 0.3286	0.2584 0.3651	0.3130	Ave		0.3291				11.0		30.0			
trans-1,3-Dichloropropene	++++ 0.3239	0.3387 0.3309	0.3498 0.3384	0.2652 0.3768	0.3281	Ave		0.3315				9.5		30.0			
Toluene	++++ 0.7167	0.8202 0.7308	0.8244 0.7195	0.6019 0.7841	0.7388	Ave		0.7420				9.6		30.0			
Toluene Range	++++ 1.7355	1.8850 1.7414	2.3214 1.7164	1.4393 1.8607	1.7681	Ave		1.8085				14.0		30.0			
1,1,2-Trichloroethane	++++ 0.2300	0.2512 0.2324	0.2564 0.2257	0.1979 0.2522	0.2355	Ave		0.2352				8.1		30.0			
2-Methylthiophene	++++ 0.6589	0.7303 0.6637	0.7306 0.6296	0.5576 0.7008	0.6632	Ave		0.6668				8.5		40.0			
3-Methylthiophene	++++ 0.6573	0.7094 0.6674	0.7385 0.6367	0.5566 0.7128	0.6732	Ave		0.6690				8.4		40.0			
2-Hexanone	0.2893 0.2225	0.2360 0.2440	0.2090 0.2907	0.1958 0.2785	0.2215	Ave		0.2430				15.0		30.0			
C8 Range	++++ 2.5227	++++ 2.5151	4.1853 2.4822	2.7311 2.3967	2.7836	Ave		2.8024				22.0		30.0			
Octane	++++ 0.2554	0.2894 0.2698	0.3001 0.2764	0.2400 0.2819	0.2649	Ave		0.2723				7.0		30.0			
Dibromochloromethane	0.5683 0.4999	0.4537 0.5452	0.4884 0.5757	0.4110 0.6423	0.4872	Ave		0.5191				14.0		30.0			
1,2-Dibromoethane (EDB)	++++ 0.3904	0.4062 0.3997	0.4255 0.4060	0.3250 0.4746	0.3969	Ave		0.4030				10.0		30.0			
Tetrachloroethene	0.4307 0.3126	0.3606 0.3248	0.3860 0.3276	0.2918 0.3623	0.3149	Ave		0.3457				13.0		30.0			
Chlorobenzene	0.7600 0.5843	0.6366 0.6134	0.6670 0.6220	0.5083 0.7170	0.5962	Ave		0.6339				12.0		30.0			
2,3-Dimethylheptane	++++ 0.7774	1.0016 0.7981	0.9243 0.7543	0.8155 0.6301	0.8355	Ave		0.8171				14.0		40.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethylbenzene	++++ 0.7809	0.8590 0.7918	0.9295 0.8662	0.6485 0.8867	0.7945	Ave		0.8196				11.0		30.0			
2-Ethylthiophene	++++ 0.6211	0.6509 0.6348	0.7104 0.6760	0.5063 0.7092	0.6300	Ave		0.6423				10.0		40.0			
m-Xylene & p-Xylene	0.8724 0.6048	0.6478 0.6174	0.7195 0.6892	0.5053 0.6848	0.6113	Ave		0.6614				15.0		30.0			
Nonane	0.5849 0.4962	0.5269 0.5198	0.5003 0.5325	0.4350 0.5270	0.5092	Ave		0.5146				7.7		30.0			
Bromoform	0.3869 0.3941	0.3029 0.4477	0.3351 0.5176	0.2786 0.6525	0.3753	Ave		0.4101				28.0		30.0			
Styrene	0.4586 0.4545	0.3795 0.4737	0.4178 0.5566	0.3161 0.5951	0.4359	Ave		0.4542				19.0		30.0			
o-Xylene	++++ 0.6220	0.6989 0.6334	0.7758 0.7157	0.5518 0.7183	0.6477	Ave		0.6705				10.0		30.0			
1,1,2,2-Tetrachloroethane	0.6366 0.5114	0.4928 0.5428	0.5223 0.6379	0.4404 0.6334	0.5127	Ave		0.5478				13.0		30.0			
1,2,3-Trichloropropane	0.1442 0.1219	0.1181 0.1290	0.1305 0.1531	0.1029 0.1606	0.1220	Ave		0.1314				14.0		30.0			
Isopropylbenzene	++++ 0.8840	0.9896 0.9244	1.0486 1.0733	0.7621 1.0613	0.8995	Ave		0.9553				11.0		30.0			
Propylbenzene	0.2681 0.2341	0.2110 0.2500	0.2443 0.3134	0.1854 0.3341	0.2269	Ave		0.2519				19.0		30.0			
2-Chlorotoluene	0.3095 0.2380	0.2477 0.2491	0.2685 0.2880	0.2030 0.3199	0.2426	Ave		0.2629				14.0		30.0			
4-Ethyltoluene	++++ 0.8311	0.8416 0.8990	0.8896 1.0959	0.6810 1.0745	0.8145	Ave		0.8909				15.0		30.0			
1,3,5-Trimethylbenzene	0.4938 0.3981	0.4061 0.4350	0.4303 0.5543	0.3429 0.5787	0.3917	Ave		0.4479				18.0		30.0			
Alpha Methyl Styrene	++++ 0.3207	++++ 0.3696	0.2496 0.4870	0.2079 ++++	0.2910	Ave		0.3209				31.0	*	30.0			
Decane	0.6374 0.5292	0.5113 0.5642	0.5207 0.6272	0.4260 0.5826	0.5375	Ave		0.5485				12.0		30.0			
tert-Butylbenzene	0.9408 0.7767	0.8087 0.8608	0.8237 1.1089	0.6758 1.1051	0.7724	Ave		0.8748				17.0		30.0			
1,2,4-Trimethylbenzene	0.8860 0.7036	0.6832 0.7761	0.7207 0.9851	0.5785 0.9682	0.6901	Ave		0.7768				18.0		30.0			
sec-Butylbenzene	1.2822 1.0386	1.0421 1.1381	1.0626 1.4231	0.8765 1.3609	1.0370	Ave		1.1401				16.0		30.0			
1,3-Dichlorobenzene	0.6165 0.4316	0.4587 0.4814	0.4606 0.6381	0.3506 0.7371	0.4206	Ave		0.5106				24.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzyl chloride	++++ 0.5194	0.5259 0.5969	0.5293 0.7868	0.4001 0.8036	0.4796	Ave		0.5802				25.0		30.0			
1,4-Dichlorobenzene	0.5812 0.3946	0.4226 0.4405	0.4275 0.6043	0.3295 0.6990	0.3777	Ave		0.4752				26.0		30.0			
4-Isopropyltoluene	1.0099 0.8431	0.8059 0.9293	0.8117 1.1712	0.6811 1.1487	0.8256	Ave		0.9141				18.0		30.0			
1,2,3-Trimethylbenzene	++++ 0.5818	0.6038 0.6245	0.6126 0.7801	0.5165 0.7656	0.5791	Ave		0.6330				15.0		40.0			
Butylcyclohexane	0.8668 0.6633	0.7527 0.6998	0.6856 0.7692	0.5955 0.7699	0.6994	Ave		0.7225				11.0		40.0			
1,2-Dichlorobenzene	0.5645 0.4286	0.4298 0.4797	0.4422 0.6537	0.3508 0.7309	0.4147	Ave		0.4994				25.0		30.0			
Indane	++++ 0.6382	0.6553 0.7031	0.6522 0.9291	0.5340 0.9433	0.6228	Ave		0.7098				21.0		40.0			
Butylbenzene	0.9460 0.7809	0.7473 0.8777	0.7741 1.1149	0.6052 1.0417	0.7458	Ave		0.8482				19.0		30.0			
Indene	0.7207 0.5892	0.5164 0.6812	0.5351 0.9374	0.4341 ++++	0.5474	Ave		0.6202				25.0		40.0			
Undecane	++++ 0.5055	0.5604 0.5578	0.5305 0.6932	0.4489 0.6332	0.4907	Ave		0.5525				14.0		30.0			
1,2-Dimethyl-4-Ethylbenzene	0.9638 0.7782	0.7650 0.8711	0.7308 1.1243	0.6104 1.1208	0.7493	Ave		0.8571				21.0		40.0			
1,2,4,5-Tetramethylbenzene	++++ 0.8069	0.8466 0.9215	0.7831 1.2072	0.6737 ++++	0.7884	Ave		0.8611				20.0		40.0			
1,2,3,5-Tetramethylbenzene	0.6914 0.4976	0.5735 0.5663	0.5216 0.7214	0.4291 ++++	0.4957	Ave		0.5621				18.0		40.0			
1,2,3,4-Tetramethylbenzene	++++ 0.6318	0.7601 0.7192	0.6390 0.9406	0.5613 ++++	0.6223	Ave		0.6963				18.0		40.0			
Dodecane	++++ 0.5222	0.6219 0.5549	0.5826 0.6951	0.4960 0.5857	0.5184	Ave		0.5721				11.0		30.0			
1,2,4-Trichlorobenzene	++++ 0.1978	0.2393 0.2353	0.1875 0.3503	0.1589 ++++	0.1860	Ave		0.2222				28.0		30.0			
Naphthalene	++++ 0.5440	0.6054 0.6234	0.5204 0.8528	0.4570 0.9116	0.5206	Ave		0.6294				26.0		30.0			
Benzo(b)thiophene	++++ 0.3584	0.4411 0.4226	0.3316 0.5886	0.2931 0.6439	0.3327	Ave		0.4265				30.0		40.0			
Hexachlorobutadiene	++++ 0.3710	0.4779 0.4186	0.4112 0.5814	0.3414 0.6501	0.3803	Ave		0.4540				24.0		30.0			
1,2,3-Trichlorobenzene	++++ 0.2455	0.2949 0.2721	0.2520 0.3767	0.2213 0.3886	0.2456	Ave		0.2871				22.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Methylnaphthalene	+++++ 0.0679	0.0753 0.0753	0.0599 0.1029	0.0578 0.0298	0.0666	Ave		0.0669				31.0		40.0			
1-Methylnaphthalene	+++++ 0.0730	0.0816 0.0750	0.0695 0.0927	0.0679 0.0189	0.0735	Ave		0.0690				31.0		40.0			
4-Bromofluorobenzene (Surr)	0.6600 0.7176	0.6934 0.7283	0.7134 0.7225	0.6897 0.7235	0.7189	Ave		0.7075				3.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-946/2	JICC111.D
Level 2	IC 140-946/3	JICC112.D
Level 3	IC 140-946/4	JICC113.D
Level 4	IC 140-946/5	JICC114.D
Level 5	IC 140-946/6	JICC115.D
Level 6	ICIS 140-946/7	JICC116.D
Level 7	IC 140-946/8	JICC117.D
Level 8	IC 140-946/9	JICC118.D
Level 9	IC 140-946/10	JICC119.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chlorodifluoromethane	CBM	Ave	+++++ 65895	3504 127336	7250 267278	13846 505684	32729	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propene	CBM	Ave	+++++ 203864	+++++ 380299	22123 770175	44922 1458925	107699	+++++ 2.00	+++++ 4.00	0.160 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14707 677907	29444 1288306	63957 2653935	134818 4882515	334566	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	1810 75510	3561 142083	7684 285173	15228 494916	37407	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	CBM	Ave	11183 515628	20686 1010496	47157 2110535	93560 3992171	251641	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 339724	+++++ 590590	35881 1285979	64164 2205919	194092	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl chloride	CBM	Ave	5530 254791	10730 481131	24848 984783	51116 1770210	125449	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	3743 175277	7941 332507	17011 680934	35435 1224939	87385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butane	CBM	Ave	8874 348021	17319 651614	35698 1303426	71879 2267439	173714	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	5840 250854	11324 483336	24480 1011303	50293 1918491	123346	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2644 113435	4956 220811	11208 455037	23148 852776	56692	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	+++++ 281128	+++++ 536616	27045 988374	58098 1841235	144711	+++++ 10.0	+++++ 20.0	0.800 40.0	2.00 80.0	5.00
Vinyl bromide	CBM	Ave	4538 216421	9051 427699	20665 901463	42200 1753642	105872	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	+++++ 280290	14009 537867	29844 1083786	57096 1976924	140258	+++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Trichlorofluoromethane	CBM	Ave	12337 594264	24616 1161422	56802 2393900	116368 4559353	292818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	++++ 53042	2906 99357	5224 250642	8002 437980	27013	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	++++ 59141	2885 106520	6174 251140	11328 477609	29505	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	++++ 101503	++++ 119169	++++ 235590	24784 ++++	72907	++++ 2.00	++++ 4.00	++++ 8.00	0.400 ++++	1.00
Isopropyl alcohol	CBM	Ave	++++ 252925	++++ 503623	24457 1005537	52512 1891993	127722	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Pentane	CBM	Ave	++++ 37045	1358 73196	3459 151771	7244 289822	18413	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	++++ 179455	8583 329259	17680 699710	29228 1293462	94508	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	4524 184446	7963 372110	17971 763429	36039 1499326	90818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	++++ 272663	15116 583041	30258 1230118	66363 2357157	154458	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	2480 99812	4249 192415	9278 432058	15228 846522	49792	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroethane	CBM	Ave	8746 409082	17027 813723	38956 1646524	79676 3210350	201012	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	++++ 180581	++++ 352418	19809 670417	36329 1306630	89695	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	++++ 183622	9954 355060	20200 664240	35748 1253863	90749	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	13903 641989	26783 1258326	61892 2556516	124614 4789123	313388	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	5788 225627	9917 451426	21641 850575	43537 1705804	110071	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	12748 522389	23860 1006835	51760 1918287	102693 3402713	259682	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	++++ 356577	15796 673998	33243 1374295	59586 2584260	180801	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	8337 362051	15825 703411	36976 1269839	65235 2513809	183945	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	++++ 322885	14224 596834	29176 1340341	48718 2572051	159904	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	++++ 69610	++++ 125222	5876 243895	11813 487204	35887	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
C6 Range	CBM	Ave	++++ 2011864	++++ 3810714	202396 7329744	410756 14110311	1022928	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Hexane	CBM	Ave	4534 180662	8251 346825	18317 651848	34438 1264226	89704	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	++++ 200551	8788 388357	20156 706076	35319 1451411	100896	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	++++ 292814	13104 549427	26903 1084225	46769 2092150	144504	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	9816 388598	17711 755016	40765 1379316	71523 2790275	200359	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	++++ 156408	7748 291715	15807 599765	27476 1179659	78446	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	9319 422225	18227 807351	42198 1426505	75903 2968435	216140	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFB	Ave	5688 248475	11010 473508	23652 840072	43695 1727411	125298	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1-Butanol	DFB	Ave	++++ 63073	++++ 133536	++++ 287181	14706 562689	30453	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Benzene	DFB	Ave	++++ 540059	26808 1059675	53761 1886757	97096 3816101	273136	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Cyclohexane	DFB	Ave	2187 110363	4766 212371	10543 372992	20873 734107	54874	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFB	Ave	8987 443845	18074 893077	43678 1616119	84912 3477511	236385	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFB	Ave	2819 127368	5679 243353	12974 450381	23214 895905	65875	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Thiophene	DFB	Ave	++++ 339429	15107 650293	34350 1166754	60186 2407949	173039	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFB	Ave	++++ 916367	43691 1747868	97042 3277019	173617 6188593	474988	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Heptane	DFB	Ave	++++ 191563	8567 367648	19608 706282	33732 1414497	96771	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFB	Ave	4380 187039	8407 352739	16678 610860	30869 1374081	95014	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Trichloroethene	DFB	Ave	5942 255418	11412 487687	26470 953846	46631 2020928	128335	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromomethane	DFB	Ave	5681 238917	10647 456395	23612 853084	41095 1782109	121268	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Bromodichloromethane	DFB	Ave	8741 383587	16281 749991	35477 1438067	63861 2968189	190788	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dioxane	DFB	Ave	1394 63279	2681 131505	5872 263409	11964 535040	31775	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Methyl methacrylate	DFB	Ave	++++ 169117	7159 333332	14809 682355	24813 1312475	82170	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methylcyclohexane	DFB	Ave	8207 363492	16589 683968	37072 1256319	65787 2529310	188580	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFB	Ave	7697 336876	13754 661355	25379 1423315	52154 2713031	163854	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFB	Ave	6314 261947	11409 507092	22640 928432	42126 2069482	131004	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZ	Ave	++++ 234824	9630 446194	20295 879585	35040 1963516	117538	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene	CBZ	Ave	++++ 519669	23320 985546	47832 1869974	79532 4086312	264651	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Toluene Range	CBZ	Ave	++++ 1258419	53595 2348373	134690 4461089	190190 9697293	633377	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZ	Ave	++++ 166783	7143 313466	14877 586633	26153 1314579	84373	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZ	Ave	++++ 477759	20765 895031	42390 1636492	73689 3652163	237579	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZ	Ave	++++ 476584	20169 900038	42847 1654764	73553 3714685	241139	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Hexanone	CBZ	Ave	3616 161365	6711 329061	12124 755508	25873 1451418	79350	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
C8 Range	CBZ	Ave	++++ 1829147	++++ 3391784	242838 6451566	360891 12490633	997149	++++ 2.00	++++ 4.00	0.160 8.00	0.400 16.0	1.00
Octane	CBZ	Ave	++++ 185219	8228 363887	17415 718344	31719 1469379	94899	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZ	Ave	7103 362439	12900 735197	28336 1496245	54305 3347546	174527	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZ	Ave	++++ 283094	11550 539062	24689 1055365	42940 2473337	142171	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZ	Ave	5383 226667	10252 437989	22395 851426	38555 1888055	112818	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Chlorobenzene	CBZ	Ave	9499 423684	18101 827157	38702 1616541	67168 3736744	213586	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZ	Ave	++++ 563663	28479 1076318	53631 1960561	107761 3283977	299289	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Ethylbenzene	CBZ	Ave	++++ 566249	24423 1067867	53929 2251254	85699 4621160	284603	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZ	Ave	++++ 450374	18507 856076	41218 1757131	66902 3695934	225682	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
m-Xylene & p-Xylene	CBZ	Ave	21806 877038	36838 1665289	83497 3582524	133531 7138010	437938	0.0800 4.00	0.160 8.00	0.320 16.0	0.800 32.0	2.00
Nonane	CBZ	Ave	7310 359753	14980 701033	29027 1384118	57485 2746405	182421	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Bromoform	CBZ	Ave	4835 285787	8612 603733	19445 1345387	36819 3400531	134430	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Styrene	CBZ	Ave	5732 329540	10790 638753	24244 1446724	41766 3101488	156161	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
o-Xylene	CBZ	Ave	++++ 451038	19871 854151	45016 1860295	72917 3743538	232024	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	7957 370844	14012 731970	30304 1658051	58192 3301073	183648	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZ	Ave	1802 88416	3358 174026	7573 398010	13592 836915	43710	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZ	Ave	++++ 640978	28138 1246662	60842 2789508	100706 5530866	322210	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Propylbenzene	CBZ	Ave	3351 169743	6000 337130	14173 814479	24502 1741082	81294	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZ	Ave	3868 172536	7042 335960	15581 748591	26819 1667404	86903	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZ	Ave	++++ 602615	23930 1212360	51618 2848420	89983 5599605	291767	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZ	Ave	6172 288648	11546 586616	24966 1440763	45307 3015712	140307	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZ	Ave	++++ 232501	++++ 498439	14480 1265706	27470 ++++	104233	++++ 2.00	++++ 4.00	0.160 8.00	0.400 ++++	1.00
Decane	CBZ	Ave	7967 383736	14539 760833	30213 1630218	56293 3036195	192549	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZ	Ave	11758 563181	22994 1160846	47790 2882125	89301 5759135	276681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZ	Ave	11073 510168	19426 1046672	41818 2560408	76446 5045591	247215	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZ	Ave	16025 753094	29629 1534847	61653 3698797	115821 7092519	371473	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZ	Ave	7705 312974	13041 649208	26725 1658482	46329 3841334	150681	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzyl chloride	CBZ	Ave	++++ 376583	14954 804987	30711 2044904	52876 4188073	171797	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZ	Ave	7264 286084	12015 593980	24804 1570678	43546 3642996	135286	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZ	Ave	12622 611347	22915 1253285	47097 3044134	90008 5986441	295742	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trimethylbenzene	CBZ	Ave	++++ 421832	17168 842178	35544 2027503	68250 3990183	207460	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZ	Ave	10834 480940	21401 943677	39782 1999366	78686 4012634	250533	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1 Analy Batch No.: 946

SDG No.: _____

Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2014 12:40 Calibration End Date: 03/11/2014 19:57 Calibration ID: 143

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dichlorobenzene	CBZ	Ave	7055 310746	12220 646950	25655 1699055	46356 3809042	148540	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indane	CBZ	Ave	++++ 462728	18631 948230	37844 2414878	70569 4915942	223109	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Butylbenzene	CBZ	Ave	11823 566214	21249 1183694	44913 2897714	79971 5428724	267179	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Indene	CBZ	Ave	9007 427230	14683 918630	31046 2436478	57358 ++++	196085	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Undecane	CBZ	Ave	++++ 366563	15935 752219	30780 1801735	59319 3299916	175793	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZ	Ave	12046 564256	21750 1174726	42042 2922288	80666 5841120	268427	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZ	Ave	++++ 585097	24071 1242657	45438 3137565	89023 ++++	282429	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
1,2,3,5-Tetramethylbenzene	CBZ	Ave	8641 360803	16306 763734	30265 1875036	56702 ++++	177582	0.0400 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
1,2,3,4-Tetramethylbenzene	CBZ	Ave	++++ 458134	21613 969881	37074 2444837	74166 ++++	222908	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Dodecane	CBZ	Ave	++++ 378646	17682 748275	33803 1806559	65545 3052464	185701	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 143447	6805 317385	10877 910586	21000 ++++	66621	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 ++++	1.00
Naphthalene	CBZ	Ave	++++ 394479	17213 840765	30193 2216472	60395 4750981	186491	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZ	Ave	++++ 259843	12541 569891	19240 1529823	38727 3355982	119182	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZ	Ave	++++ 268985	13588 564546	23861 1511092	45108 3388138	136244	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 178007	8385 366981	14621 979161	29244 2025463	87992	++++ 2.00	0.0800 4.00	0.160 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZ	Ave	++++ 307709	13381 634411	21725 1671920	47754 969606	149184	++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
1-Methylnaphthalene	CBZ	Ave	++++ 331073	14503 631891	25220 1506542	56061 616839	164584	++++ 12.5	0.500 25.0	1.00 50.0	2.50 100	6.25
4-Bromofluorobenzene (Surr)	CBZ	Ave	824893 1040623	985783 982151	1034797 938909	911404 942607	1030162	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:

Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D
 Lims ID: IC L1 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Mar-2014 12:40:30 ALS Bottle#: 8 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL1,,1,1,,ICAL 0.04
 Misc. Info.: J031114I,TO15,,140-0000516-002
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:46:11 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:46:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	362747	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1614195	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1249833	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	90	824893	3.73	
6 Chlorodifluoromethane	67	3.965	3.960	0.005	90	2070	0.0553	
7 Propene	41	3.975	3.973	0.002	94	6874	0.0618	
8 Dichlorodifluoromethane	85	4.035	4.029	0.006	90	14707	0.0409	
9 Chloromethane	52	4.239	4.230	0.009	40	1810	0.0443	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	84	11183	0.0412	
11 Acetaldehyde	44	4.400	4.398	0.002	99	23295	0.6509	
12 Vinyl chloride	62	4.422	4.419	0.003	30	5530	0.0411	
14 Butadiene	54	4.519	4.517	0.002	56	3743	0.0401	
13 Butane	43	4.519	4.517	0.002	83	8874	0.0464	
15 Bromomethane	94	4.868	4.871	-0.003	83	5840	0.0427	
16 Chloroethane	64	5.024	5.027	-0.003	67	2644	0.0427	
17 Ethanol	31	5.127	5.122	0.005	92	10598	0.3639	
18 Vinyl bromide	106	5.358	5.357	0.001	66	4538	0.0390	
19 2-Methylbutane	43	5.406	5.411	-0.005	73	8284	0.0538	
20 Trichlorofluoromethane	101	5.643	5.647	-0.004	75	12337	0.0391	
21 Acrolein	56	5.654	5.650	0.004	2	1845	0.0623	
22 Acetonitrile	40	5.718	5.720	-0.002	72	365	0.0112	
23 Acetone	58	5.783	5.776	0.007	81	13132	0.2547	
24 Isopropyl alcohol	45	5.869	5.858	0.011	45	8126	0.0597	
25 Pentane	72	5.880	5.884	-0.004	84	563	0.0288	
26 Ethyl ether	31	6.073	6.059	0.014	82	6445	0.0679	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	54	4524	0.0444	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	68	8253	0.0492	
29 Acrylonitrile	53	6.498	6.498	0.0	35	2480	0.0460	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.590	6.586	0.004	77	8746	0.0400	
31 Methylene Chloride	84	6.757	6.759	-0.002	87	6749	0.0695	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	67	6354	0.0629	
33 Carbon disulfide	76	6.940	6.942	-0.002	91	13903	0.0407	
34 trans-1,2-Dichloroethene	96	7.601	7.609	-0.008	64	5788	0.0472	
35 2-Methylpentane	43	7.633	7.631	0.002	88	12748	0.0455	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	58	9876	0.0533	
37 1,1-Dichloroethane	63	8.037	8.041	-0.004	29	8337	0.0436	
38 Vinyl acetate	43	8.145	8.141	0.004	82	8474	0.0505	
39 2-Butanone (MEK)	72	8.607	8.601	0.006	84	2486	0.0724	
40 Hexane	56	8.645	8.642	0.003	81	4534	0.0465	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	52	5401	0.0516	
42 Ethyl acetate	43	9.237	9.229	0.008	82	8452	0.0565	
43 Chloroform	83	9.398	9.403	-0.005	14	9816	0.0464	
44 Tetrahydrofuran	42	9.839	9.816	0.023	86	4727	0.0563	
45 1,1,1-Trichloroethane	97	10.447	10.450	-0.003	62	9319	0.0423	
46 1,2-Dichloroethane	62	10.549	10.547	0.002	46	5688	0.0454	
47 n-Butanol	31	10.974	10.958	0.016	70	3817	0.1082	
48 Benzene	78	11.033	11.033	0.0	68	14955	0.0540	
49 Cyclohexane	69	11.039	11.040	-0.001	65	2187	0.0400	
50 Carbon tetrachloride	117	11.060	11.059	0.001	85	8987	0.0393	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	77	2819	0.0431	
52 Thiophene	84	11.292	11.297	-0.005	47	8045	0.0470	
53 Isooctane	57	11.765	11.771	-0.006	91	23809	0.0503	
54 n-Heptane	71	12.131	12.130	0.001	80	4763	0.0486	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	55	4380	0.0468	
56 Trichloroethene	130	12.254	12.252	0.002	64	5942	0.0442	
57 Dibromomethane	93	12.330	12.332	-0.002	78	5681	0.0461	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	76	8741	0.0447	
58 1,4-Dioxane	88	12.497	12.483	0.014	40	1394	0.0416	
60 Methyl methacrylate	41	12.550	12.548	0.002	38	4643	0.0553	
61 Methylcyclohexane	83	13.013	13.013	0.0	80	8207	0.0440	
62 4-Methyl-2-pentanone (MIBK)	43	13.390	13.382	0.008	81	7697	0.0455	
63 cis-1,3-Dichloropropene	75	13.443	13.448	-0.005	57	6314	0.0475	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	59	5825	0.0562	
65 Toluene	91	14.261	14.262	-0.001	71	13203	0.0569	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	41	3627	0.0494	
67 2-Methylthiophene	97	14.412	14.413	-0.001	66	11278	0.0541	
68 3-Methylthiophene	97	14.611	14.612	-0.001	67	11032	0.0528	
69 2-Hexanone	58	14.702	14.694	0.008	77	3616	0.0476	
70 n-Octane	85	14.928	14.928	0.0	82	4390	0.0516	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	53	7103	0.0438	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	58	6293	0.0500	
73 Tetrachloroethene	129	15.391	15.393	-0.002	77	5383	0.0498	
75 Chlorobenzene	112	16.251	16.256	-0.005	75	9499	0.0480	
74 2,3-Dimethylheptane	43	16.262	16.260	0.002	91	14337	0.0562	
76 Ethylbenzene	91	16.536	16.536	0.0	73	14130	0.0552	
77 2-Ethylthiophene	97	16.633	16.638	-0.005	30	10632	0.0530	
78 m-Xylene & p-Xylene	91	16.698	16.696	0.002	92	21806	0.1055	
79 n-Nonane	57	17.096	17.098	-0.002	81	7310	0.0455	
81 Bromoform	173	17.150	17.149	0.001	52	4835	0.0377	
80 Styrene	104	17.155	17.157	-0.002	57	5732	0.0404	
82 o-Xylene	91	17.220	17.220	0.0	75	12031	0.0574	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	50	7957	0.0465	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	64	1802	0.0439	
85 Isopropylbenzene	105	17.795	17.793	0.002	80	15689	0.0526	
86 N-Propylbenzene	120	18.312	18.310	0.002	84	3351	0.0426	
87 2-Chlorotoluene	126	18.360	18.357	0.003	63	3868	0.0471	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	79	14155	0.0509	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	80	6172	0.0441	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	51	4051	0.0404	
91 n-Decane	57	18.791	18.793	-0.003	58	7967	0.0465	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	74	11758	0.0430	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.003	58	11073	0.0456	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	87	16025	0.0450	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	64	7705	0.0483	
96 Benzyl chloride	91	19.291	19.288	0.003	77	9484	0.0523	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	73	7264	0.0489	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	58	12622	0.0442	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	64	10198	0.0516	
100 Butylcyclohexane	83	19.458	19.460	-0.002	82	10834	0.0480	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	82	11897	0.0536	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	62	7055	0.0452	
103 n-Butylbenzene	91	19.775	19.777	-0.002	83	11823	0.0446	
104 Indene	116	19.780	19.781	-0.001	71	9007	0.0465	
105 Undecane	57	20.071	20.068	0.003	79	8831	0.0512	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.135	20.138	-0.003	67	12046	0.0450	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	80	14008	0.0521	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	69	8641	0.0492	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	72	10802	0.0496	
110 Dodecane	57	21.147	21.148	-0.001	72	10350	0.0579	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	39	4076	0.0587	
112 Naphthalene	128	21.529	21.527	0.002	87	10827	0.0551	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	65	9115	0.0684	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	66	8308	0.0586	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	55	5282	0.0589	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	79	9998	0.4781	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	83	10034	0.4652	
139 Isopropyl ether	45	8.806	8.794	0.012	85	11786	NR	
142 Tert-butyl ethyl ether	59	9.500	9.487	0.013	66	10168	NR	
140 Tert-amyl methyl ether	73	11.496	11.482	0.014	50	9463	NR	
A 118 C6 Range	1	8.639	8.596 -	8.682	0	71508	0.0675	
A 122 Toluene Range	1	14.261	14.231 -	14.291	0	31251	0.0553	
A 123 C8 Range	1	14.928	14.896 -	14.960	0	84643	0.0967	
S 124 Xylenes, Total	100				0		0.1629	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L1

Lab Sample ID:

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

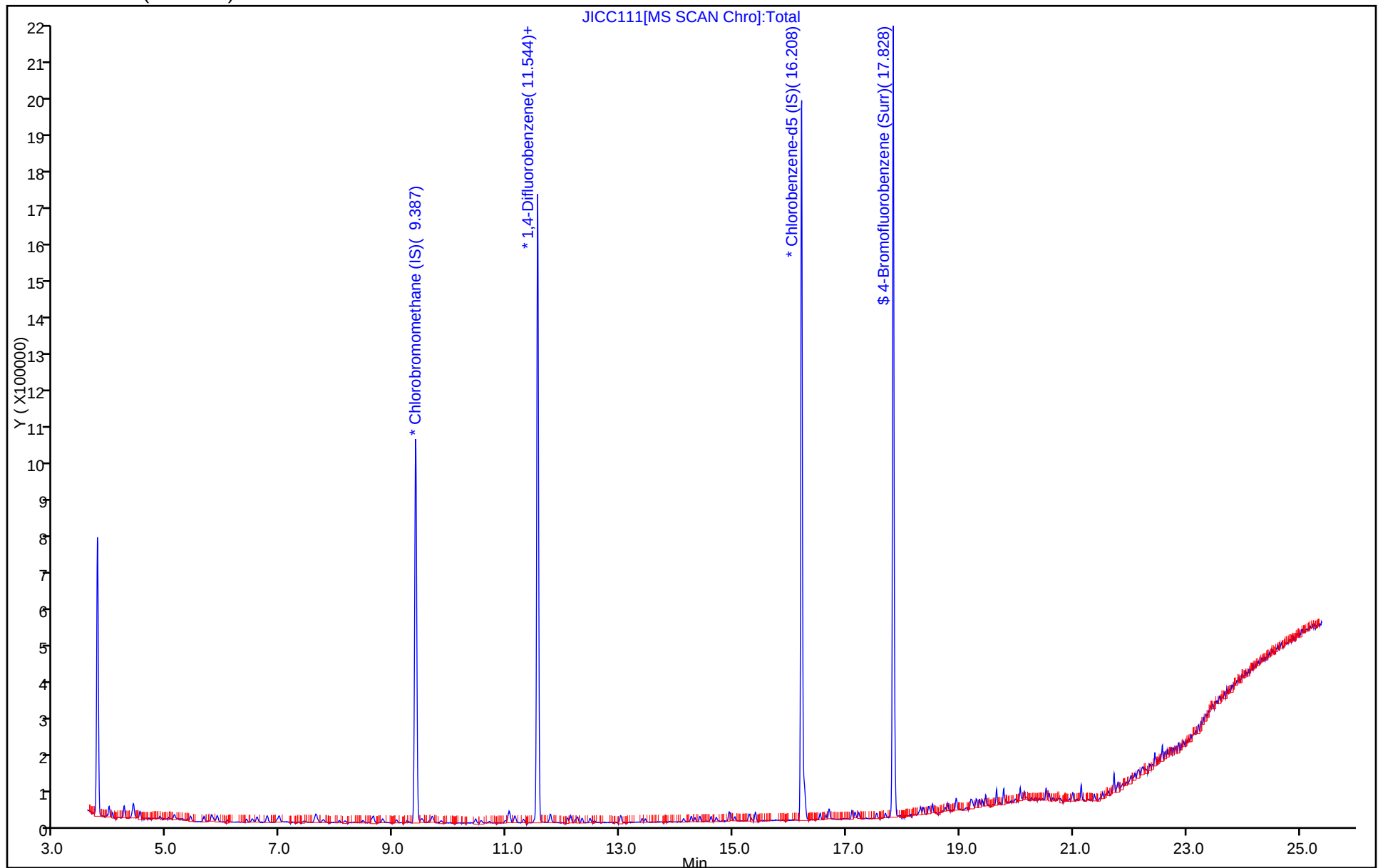
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30

Instrument ID: MJ

Lims ID: IC L1

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 2

Purge Vol: 500.000 mL

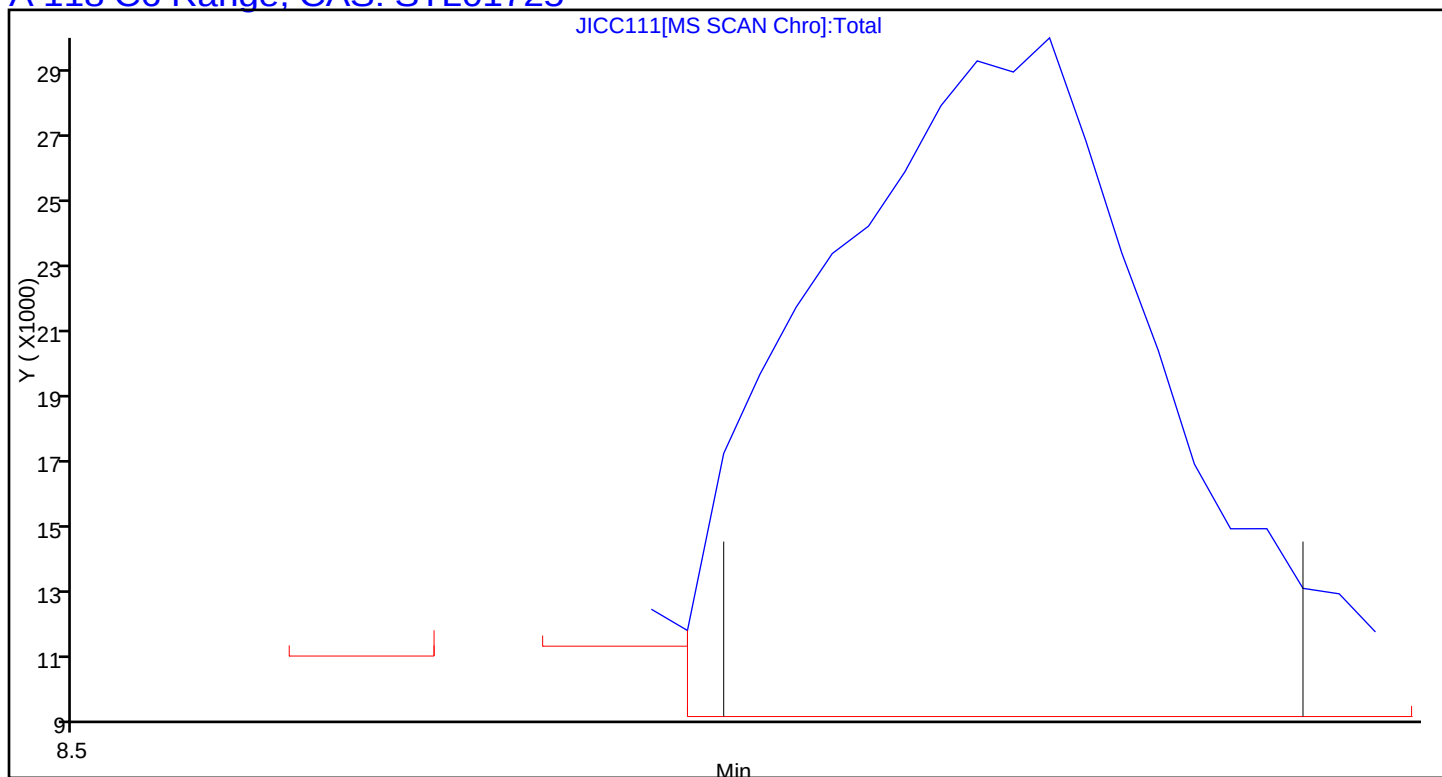
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30

Instrument ID: MJ

Lims ID: IC L1

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 2

Purge Vol: 500.000 mL

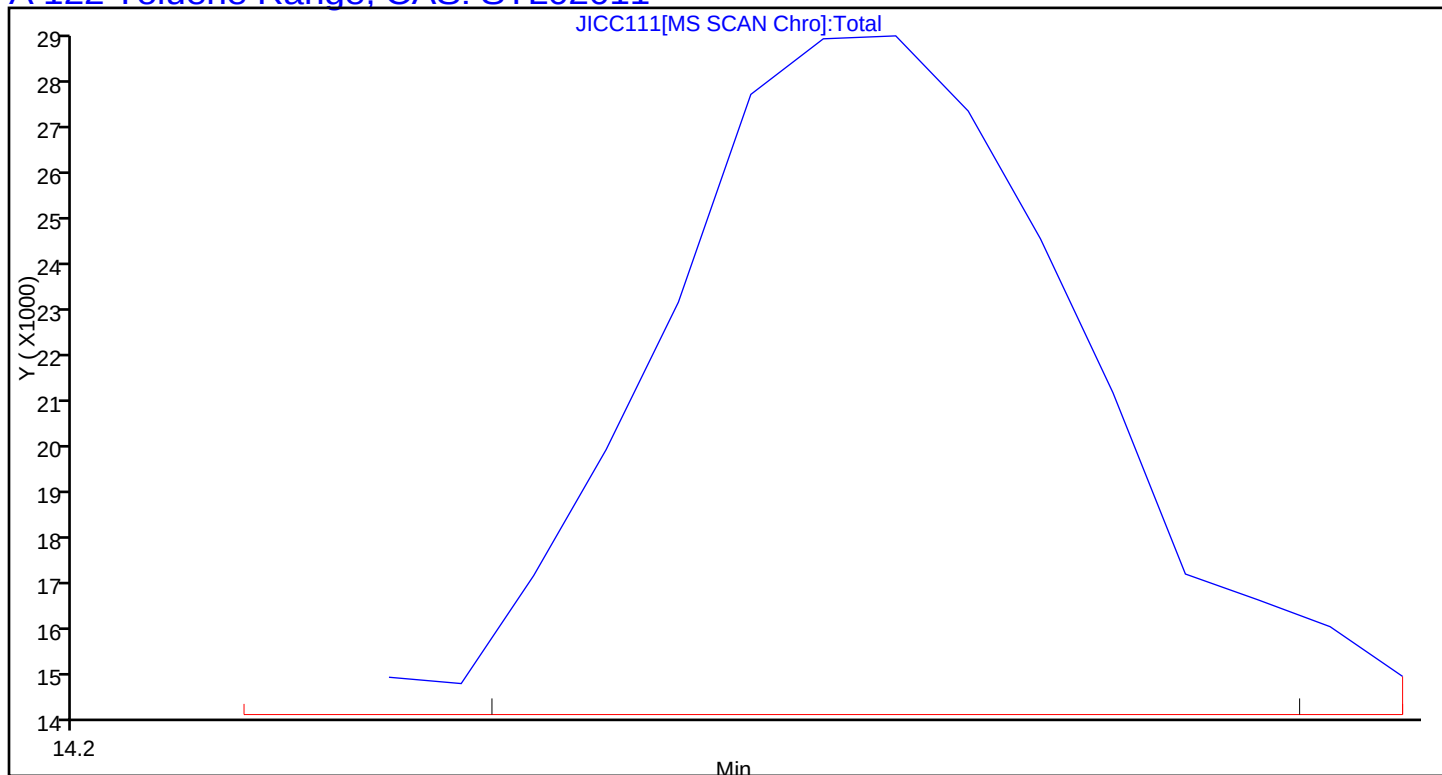
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC111.D

Injection Date: 11-Mar-2014 12:40:30

Instrument ID: MJ

Lims ID: IC L1

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 2

Purge Vol: 500.000 mL

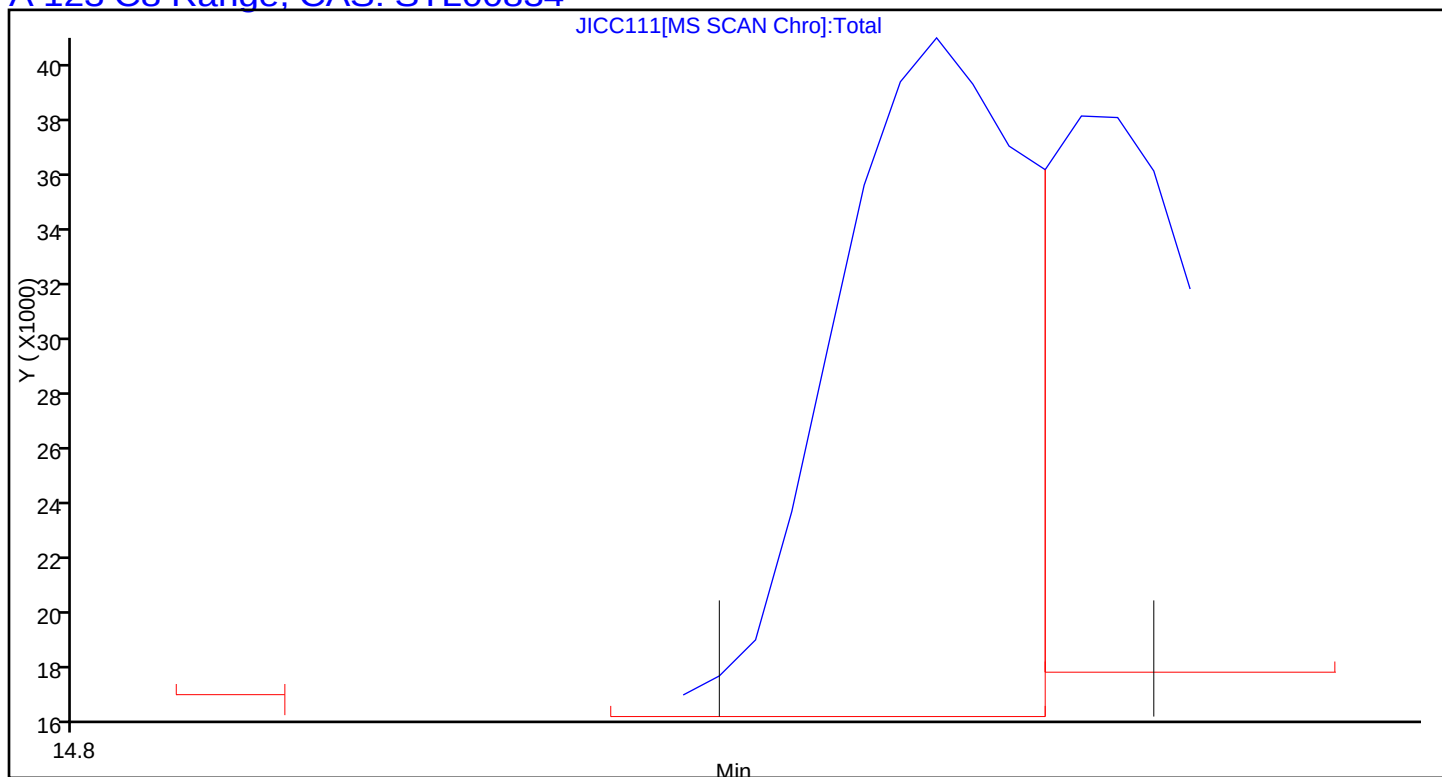
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D
 Lims ID: IC L2 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Mar-2014 13:35:30 ALS Bottle#: 8 Worklist Smp#: 3
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL2,,1,2,,ICAL 0.08
 Misc. Info.: J031114I,TO15,,140-0000516-003
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:57 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.392	-0.005	92	351959	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.547	-0.003	94	1697921	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1421637	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.822	17.825	-0.003	90	985783	3.92	
6 Chlorodifluoromethane	67	3.965	3.960	0.004	90	3504	0.0965	
7 Propene	41	3.975	3.973	0.002	98	12138	0.1125	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	95	29444	0.0845	
9 Chloromethane	52	4.228	4.230	-0.002	90	3561	0.0899	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	88	20686	0.0786	
11 Acetaldehyde	44	4.400	4.398	0.002	99	45343	1.31	
12 Vinyl chloride	62	4.416	4.419	-0.003	67	10730	0.0822	
14 Butadiene	54	4.519	4.517	0.002	58	7941	0.0876	
13 Butane	43	4.519	4.517	0.002	87	17319	0.0933	
15 Bromomethane	94	4.868	4.871	-0.003	88	11324	0.0853	
16 Chloroethane	64	5.030	5.027	0.003	66	4956	0.0826	
17 Ethanol	31	5.126	5.122	0.004	94	18689	0.6614	
18 Vinyl bromide	106	5.358	5.357	0.001	72	9051	0.0802	
19 2-Methylbutane	43	5.412	5.411	0.001	85	14009	0.0937	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	87	24616	0.0804	
21 Acrolein	56	5.648	5.650	-0.002	1	2906	0.1011	
22 Acetonitrile	40	5.729	5.720	0.009	91	2885	0.0909	
23 Acetone	58	5.788	5.776	0.012	83	21741	0.4346	
24 Isopropyl alcohol	45	5.863	5.858	0.005	57	14698	0.1113	
25 Pentane	72	5.885	5.884	0.001	84	1358	0.0717	
26 Ethyl ether	31	6.068	6.059	0.009	82	8583	0.0932	
27 1,1-Dichloroethene	96	6.396	6.399	-0.003	81	7963	0.0806	
28 2-Methyl-2-propanol	59	6.504	6.487	0.017	75	15116	0.0929	
29 Acrylonitrile	53	6.498	6.498	0.0	40	4249	0.0812	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.584	6.586	-0.002	83	17027	0.0802	
31 Methylene Chloride	84	6.756	6.759	-0.003	91	10876	0.1155	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	80	9954	0.1016	
33 Carbon disulfide	76	6.939	6.942	-0.003	98	26783	0.0809	
34 trans-1,2-Dichloroethene	96	7.606	7.609	-0.003	85	9917	0.0833	
35 2-Methylpentane	43	7.628	7.631	-0.003	86	23860	0.0879	
36 Methyl tert-butyl ether	73	7.752	7.738	0.014	84	15796	0.0879	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	65	15825	0.0852	
38 Vinyl acetate	43	8.144	8.141	0.003	99	14224	0.0874	
39 2-Butanone (MEK)	72	8.612	8.601	0.011	91	4259	0.1278	
40 Hexane	56	8.645	8.642	0.003	85	8251	0.0872	
41 cis-1,2-Dichloroethene	96	9.048	9.052	-0.004	67	8788	0.0865	
42 Ethyl acetate	43	9.236	9.229	0.007	83	13104	0.0903	
43 Chloroform	83	9.398	9.403	-0.005	15	17711	0.0864	
44 Tetrahydrofuran	42	9.833	9.816	0.017	89	7748	0.0950	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	78	18227	0.0853	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	63	11010	0.0836	
47 n-Butanol	31	10.974	10.958	0.016	72	4071	0.1097	
48 Benzene	78	11.033	11.033	0.0	92	26808	0.0920	
49 Cyclohexane	69	11.038	11.040	-0.002	83	4766	0.0829	
50 Carbon tetrachloride	117	11.055	11.059	-0.004	87	18074	0.0751	
51 2,3-Dimethylpentane	71	11.146	11.148	-0.002	82	5679	0.0826	
52 Thiophene	84	11.291	11.297	-0.006	67	15107	0.0840	
53 Isooctane	57	11.770	11.771	-0.001	91	43691	0.0878	
54 n-Heptane	71	12.131	12.130	0.001	80	8567	0.0832	
55 1,2-Dichloropropane	63	12.211	12.214	-0.003	69	8407	0.0854	
56 Trichloroethene	130	12.249	12.252	-0.003	73	11412	0.0807	
57 Dibromomethane	93	12.330	12.332	-0.002	84	10647	0.0822	
59 Dichlorobromomethane	83	12.469	12.472	-0.003	79	16281	0.0792	
58 1,4-Dioxane	88	12.496	12.483	0.013	55	2681	0.0760	
60 Methyl methacrylate	41	12.550	12.548	0.002	49	7159	0.0810	
61 Methylcyclohexane	83	13.013	13.013	0.0	88	16589	0.0846	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	83	13754	0.0773	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	68	11409	0.0817	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	67	9630	0.0817	
65 Toluene	91	14.261	14.262	-0.001	79	23320	0.0884	
66 1,1,2-Trichloroethane	83	14.325	14.328	-0.003	76	7143	0.0855	
67 2-Methylthiophene	97	14.411	14.413	-0.002	76	20765	0.0876	
68 3-Methylthiophene	97	14.610	14.612	-0.002	72	20169	0.0848	
69 2-Hexanone	58	14.691	14.694	-0.003	77	6711	0.0777	
70 n-Octane	85	14.928	14.928	0.0	90	8228	0.0850	
71 Chlorodibromomethane	129	15.025	15.027	-0.002	71	12900	0.0699	
72 Ethylene Dibromide	107	15.315	15.317	-0.002	75	11550	0.0806	
73 Tetrachloroethene	129	15.390	15.393	-0.003	82	10252	0.0834	
75 Chlorobenzene	112	16.257	16.256	0.001	30	18101	0.0803	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	93	28479	0.0981	
76 Ethylbenzene	91	16.536	16.536	0.0	83	24423	0.0838	
77 2-Ethylthiophene	97	16.639	16.638	0.001	51	18507	0.0811	
78 m-Xylene & p-Xylene	91	16.692	16.696	-0.004	95	36838	0.1567	
79 n-Nonane	57	17.096	17.098	-0.002	89	14980	0.0819	
81 Bromoform	173	17.150	17.149	0.001	64	8612	0.0591	
80 Styrene	104	17.155	17.157	-0.002	78	10790	0.0668	
82 o-Xylene	91	17.220	17.220	0.0	84	19871	0.0834	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	77	14012	0.0720	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	73	3358	0.0719	
85 Isopropylbenzene	105	17.790	17.793	-0.003	83	28138	0.0829	
86 N-Propylbenzene	120	18.312	18.310	0.002	90	6000	0.0670	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	77	7042	0.0754	
88 4-Ethyltoluene	105	18.451	18.454	-0.003	85	23930	0.0756	
89 1,3,5-Trimethylbenzene	120	18.521	18.524	-0.003	84	11546	0.0725	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	64	6489	0.0569	
91 n-Decane	57	18.790	18.793	-0.003	77	14539	0.0746	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	81	22994	0.0740	
93 1,2,4-Trimethylbenzene	105	18.946	18.949	-0.003	77	19426	0.0704	
94 sec-Butylbenzene	105	19.194	19.196	-0.002	89	29629	0.0731	
95 1,3-Dichlorobenzene	146	19.215	19.217	-0.002	83	13041	0.0719	
96 Benzyl chloride	91	19.285	19.288	-0.003	82	14954	0.0725	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	83	12015	0.0711	
98 4-Isopropyltoluene	119	19.350	19.352	-0.002	71	22915	0.0705	
99 1,2,3-Trimethylbenzene	105	19.409	19.409	0.0	82	17168	0.0763	
100 Butylcyclohexane	83	19.457	19.460	-0.003	86	21401	0.0833	
101 2,3-Dihydroindene	117	19.651	19.653	-0.002	81	18631	0.0739	
102 1,2-Dichlorobenzene	146	19.651	19.653	-0.002	71	12220	0.0688	
103 n-Butylbenzene	91	19.775	19.777	-0.002	90	21249	0.0705	
104 Indene	116	19.780	19.781	-0.001	81	14683	0.0666	
105 Undecane	57	20.065	20.068	-0.003	86	15935	0.0811	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	74	21750	0.0714	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.003	87	24071	0.0787	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	81	16306	0.0816	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.998	-0.002	84	21613	0.0873	
110 Dodecane	57	21.147	21.148	-0.001	75	17682	0.0870	
111 1,2,4-Trichlorobenzene	180	21.378	21.379	-0.001	57	6805	0.0862	
112 Naphthalene	128	21.528	21.527	0.001	92	17213	0.0769	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	76	12541	0.0827	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	77	13588	0.0842	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	70	8385	0.0822	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	82	13381	0.5625	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	86	14503	0.5912	
139 Isopropyl ether	45	8.801	8.794	0.007	90	21937	NR	
142 Tert-butyl ethyl ether	59	9.495	9.487	0.008	79	18395	NR	
140 Tert-amyl methyl ether	73	11.490	11.482	0.008	68	17787	NR	
A 118 C6 Range	1	8.639	8.596 -	8.682	0	106564	0.1037	
A 122 Toluene Range	1	14.261	14.231 -	14.291	0	53595	0.0834	
A 123 C8 Range	1	14.928	14.896 -	14.960	0	128220	0.1287	
S 124 Xylenes, Total	100				0		0.2401	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L2

Lab Sample ID:

Worklist Smp#: 3

Client ID:

Purge Vol: 500.000 mL

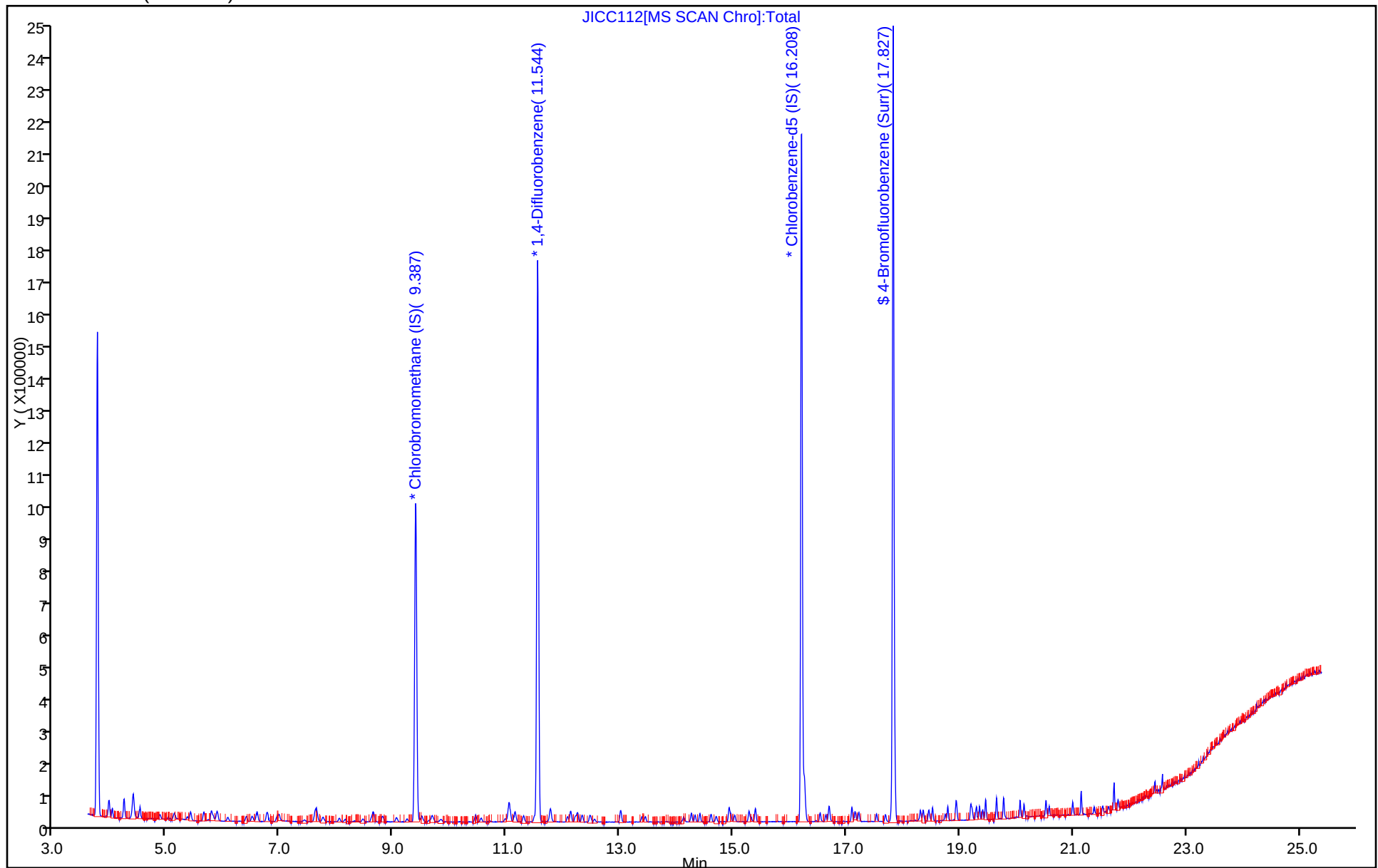
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30

Instrument ID: MJ

Lims ID: IC L2

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

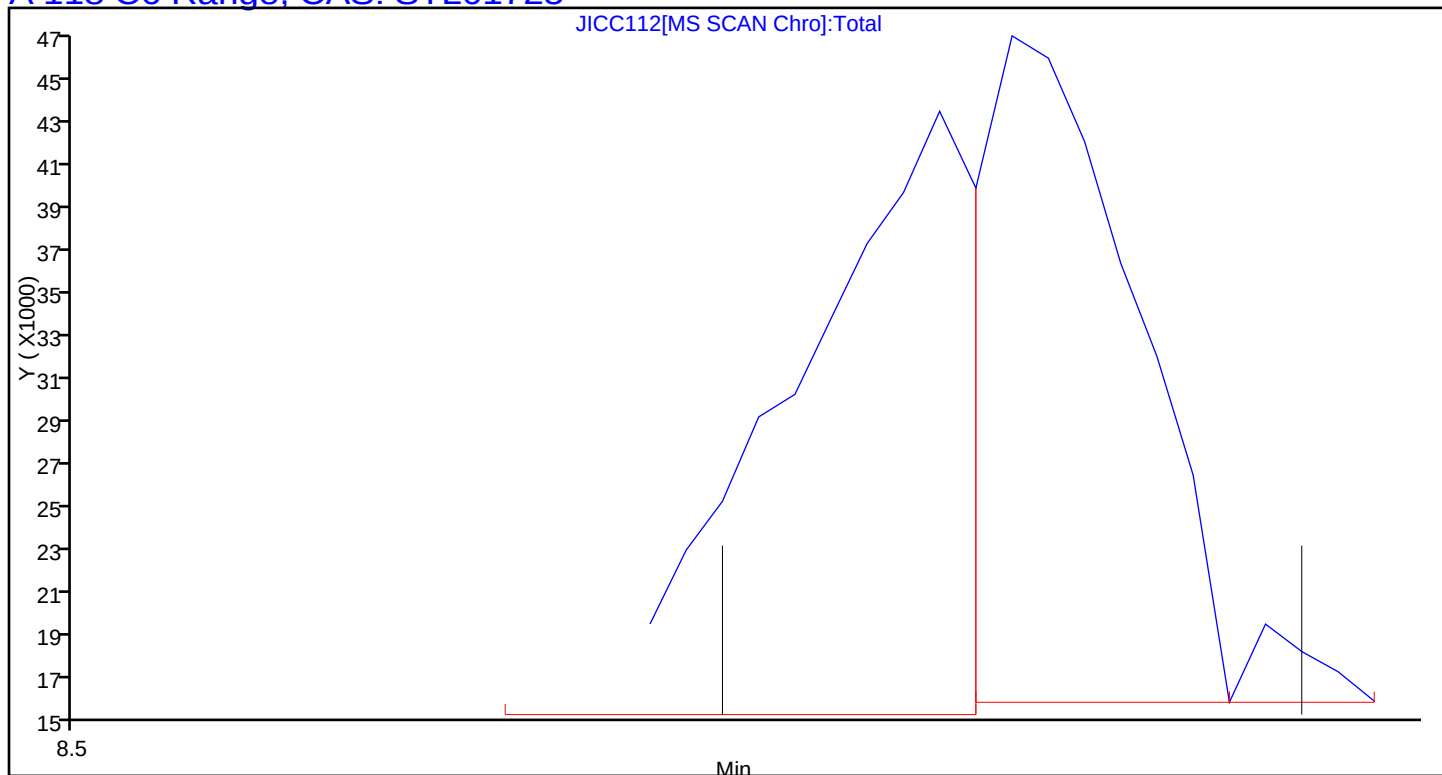
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30

Instrument ID: MJ

Lims ID: IC L2

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 3

Purge Vol: 500.000 mL

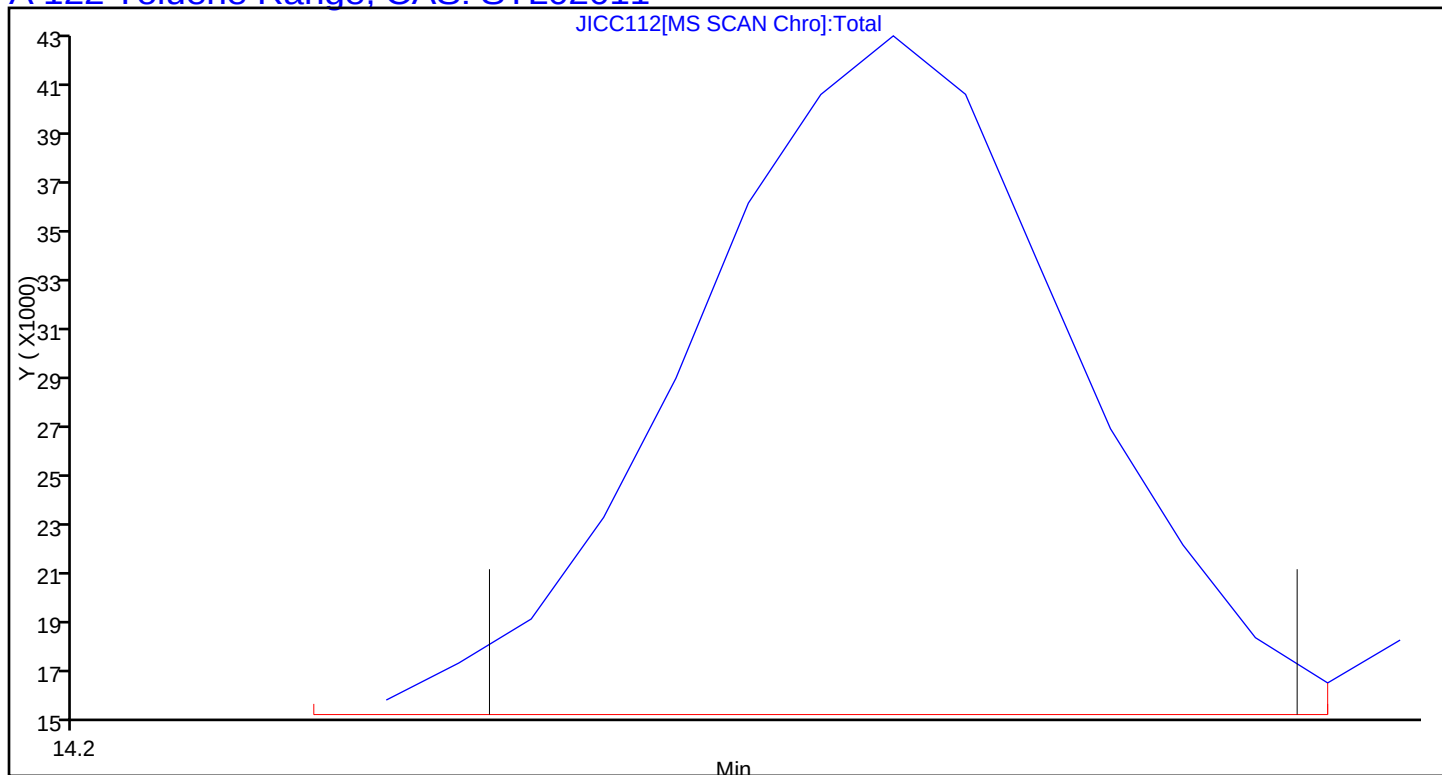
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Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC112.D

Injection Date: 11-Mar-2014 13:35:30

Instrument ID: MJ

Lims ID: IC L2

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 3

Purge Vol: 500.000 mL

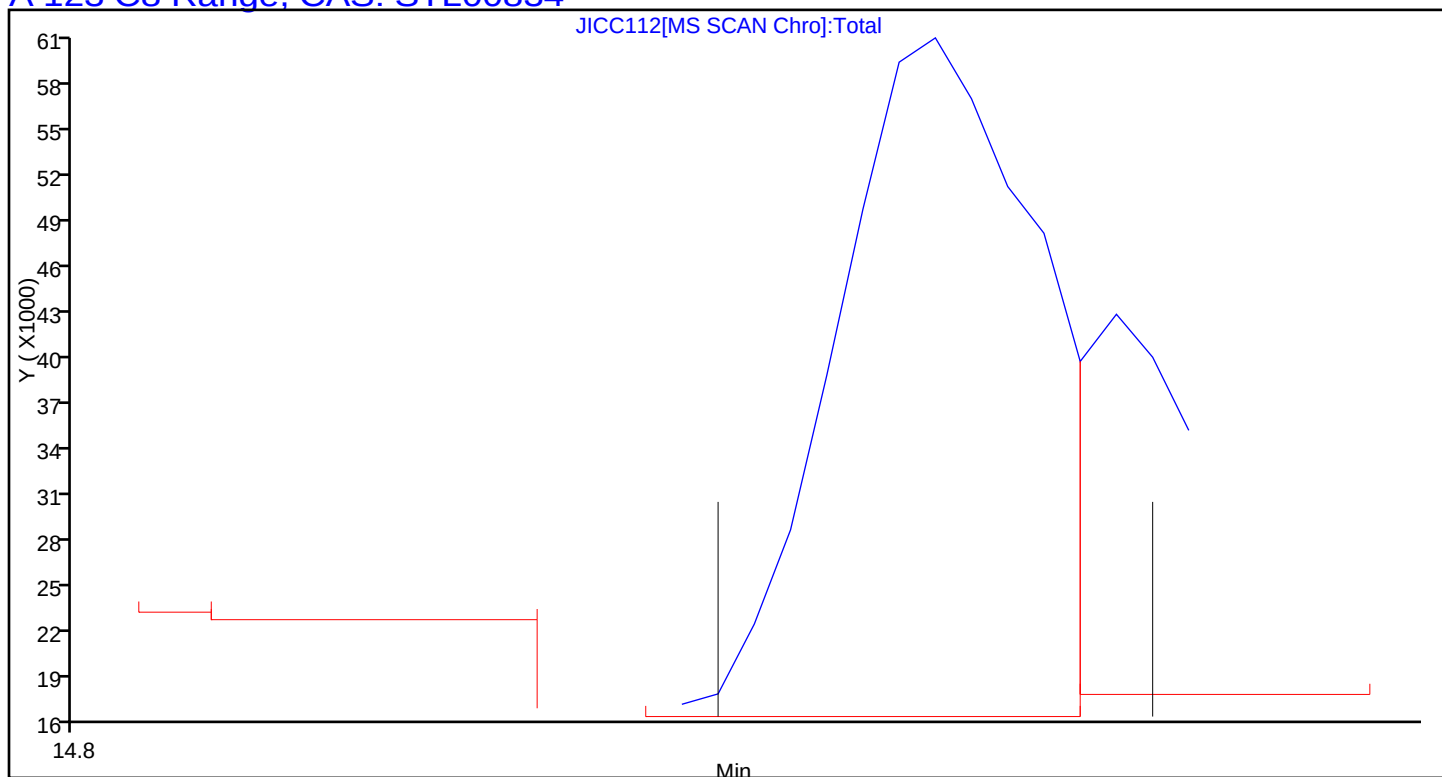
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D
 Lims ID: IC L3 Lab Sample ID: Client 140-535/4-A
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Mar-2014 14:29:30 ALS Bottle#: 9 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL3,,1,3,,ICAL 0.16
 Misc. Info.: J031114I,TO15,,140-0000516-004
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:45 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.388	9.392	-0.004	91	357314	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	94	1704540	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.204	16.208	-0.004	87	1450555	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1034797	4.03	
6 Chlorodifluoromethane	67	3.955	3.960	-0.005	92	7250	0.1966	
7 Propene	41	3.971	3.973	-0.002	99	22123	0.2019	
8 Dichlorodifluoromethane	85	4.025	4.029	-0.004	100	63957	0.1807	
9 Chloromethane	52	4.224	4.230	-0.006	60	7684	0.1911	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.234	4.238	-0.004	90	47157	0.1765	
11 Acetaldehyde	44	4.396	4.398	-0.002	98	35881	1.02	
12 Vinyl chloride	62	4.417	4.419	-0.002	87	24848	0.1876	
14 Butadiene	54	4.514	4.517	-0.003	85	17011	0.1848	
13 Butane	43	4.514	4.517	-0.003	87	35698	0.1894	
15 Bromomethane	94	4.869	4.871	-0.002	92	24480	0.1817	
16 Chloroethane	64	5.025	5.027	-0.002	78	11208	0.1839	
17 Ethanol	31	5.117	5.122	-0.005	94	27045	0.9428	
18 Vinyl bromide	106	5.353	5.357	-0.004	93	20665	0.1804	
19 2-Methylbutane	43	5.407	5.411	-0.004	93	29844	0.1967	
20 Trichlorofluoromethane	101	5.644	5.647	-0.003	96	56802	0.1827	
21 Acrolein	56	5.655	5.650	0.005	6	5224	0.1791	
22 Acetonitrile	40	5.719	5.720	-0.001	95	6174	0.1916	
23 Acetone	58	5.778	5.776	0.002	83	15375	0.3027	
24 Isopropyl alcohol	45	5.859	5.858	0.001	69	24457	0.1824	
25 Pentane	72	5.880	5.884	-0.004	93	3459	0.1799	
26 Ethyl ether	31	6.058	6.059	-0.001	88	17680	0.1891	
27 1,1-Dichloroethene	96	6.392	6.399	-0.007	94	17971	0.1791	
28 2-Methyl-2-propanol	59	6.488	6.487	0.001	91	30258	0.1831	
29 Acrylonitrile	53	6.499	6.498	0.001	44	9278	0.1747	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.585	6.586	-0.001	90	38956	0.1808	
31 Methylene Chloride	84	6.757	6.759	-0.002	93	19809	0.2072	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.768	6.778	-0.010	90	20200	0.2032	
33 Carbon disulfide	76	6.940	6.942	-0.002	97	61892	0.1841	
34 trans-1,2-Dichloroethene	96	7.607	7.609	-0.002	95	21641	0.1791	
35 2-Methylpentane	43	7.629	7.631	-0.002	93	51760	0.1877	
36 Methyl tert-butyl ether	73	7.742	7.738	0.004	93	33243	0.1823	
37 1,1-Dichloroethane	63	8.038	8.041	-0.003	90	36976	0.1961	
38 Vinyl acetate	43	8.140	8.141	-0.001	98	29176	0.1766	
39 2-Butanone (MEK)	72	8.608	8.601	0.007	94	5876	0.1737	
40 Hexane	56	8.635	8.642	-0.007	89	18317	0.1907	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	85	20156	0.1954	
42 Ethyl acetate	43	9.227	9.229	-0.003	94	26903	0.1826	
43 Chloroform	83	9.399	9.403	-0.004	67	40765	0.1958	
44 Tetrahydrofuran	42	9.818	9.816	0.002	89	15807	0.1910	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	90	42198	0.1945	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	86	23652	0.1789	
47 n-Butanol	31	10.964	10.958	0.006	76	8551	0.2295	
48 Benzene	78	11.029	11.033	-0.004	95	53761	0.1838	
49 Cyclohexane	69	11.034	11.040	-0.006	89	10543	0.1827	
50 Carbon tetrachloride	117	11.056	11.059	-0.003	94	43678	0.1808	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	88	12974	0.1880	
52 Thiophene	84	11.292	11.297	-0.005	92	34350	0.1902	
53 Isooctane	57	11.766	11.771	-0.005	97	97042	0.1943	
54 n-Heptane	71	12.126	12.130	-0.004	86	19608	0.1896	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	80	16678	0.1687	
56 Trichloroethene	130	12.250	12.252	-0.002	90	26470	0.1866	
57 Dibromomethane	93	12.330	12.332	-0.002	88	23612	0.1815	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	93	35477	0.1719	
58 1,4-Dioxane	88	12.492	12.483	0.009	69	5872	0.1658	
60 Methyl methacrylate	41	12.546	12.548	-0.002	74	14809	0.1670	
61 Methylcyclohexane	83	13.014	13.013	0.001	94	37072	0.1883	
62 4-Methyl-2-pentanone (MIBK)	43	13.385	13.382	0.003	88	25379	0.1420	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	85	22640	0.1614	
64 trans-1,3-Dichloropropene	75	14.122	14.126	-0.004	83	20295	0.1688	
65 Toluene	91	14.262	14.262	0.0	91	47832	0.1778	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	91	14877	0.1744	
67 2-Methylthiophene	97	14.412	14.413	-0.001	91	42390	0.1753	
68 3-Methylthiophene	97	14.611	14.612	-0.001	86	42847	0.1766	
69 2-Hexanone	58	14.697	14.694	0.003	82	12124	0.1376	
70 n-Octane	85	14.929	14.928	0.001	90	17415	0.1764	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	88	28336	0.1505	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	80	24689	0.1689	
73 Tetrachloroethene	129	15.391	15.393	-0.002	85	22395	0.1786	
75 Chlorobenzene	112	16.252	16.256	-0.004	75	38702	0.1684	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	94	53631	0.1810	
76 Ethylbenzene	91	16.532	16.536	-0.004	91	53929	0.1814	
77 2-Ethylthiophene	97	16.639	16.638	0.001	84	41218	0.1769	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	83497	0.3481	
79 n-Nonane	57	17.097	17.098	-0.001	91	29027	0.1555	
81 Bromoform	173	17.145	17.149	-0.004	80	19445	0.1308	
80 Styrene	104	17.156	17.157	-0.001	89	24244	0.1472	
82 o-Xylene	91	17.220	17.220	0.0	89	45016	0.1851	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	94	30304	0.1525	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.694	17.690	0.004	90	7573	0.1590	
85 Isopropylbenzene	105	17.791	17.793	-0.002	86	60842	0.1756	
86 N-Propylbenzene	120	18.312	18.310	0.002	96	14173	0.1551	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	89	15581	0.1634	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	94	51618	0.1598	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	89	24966	0.1537	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	78	14480	0.1244	
91 n-Decane	57	18.791	18.793	-0.002	86	30213	0.1519	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	47790	0.1507	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	86	41818	0.1484	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	95	61653	0.1491	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	94	26725	0.1443	
96 Benzyl chloride	91	19.286	19.288	-0.002	95	30711	0.1460	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	89	24804	0.1439	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	80	47097	0.1421	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	91	35544	0.1548	
100 Butylcyclohexane	83	19.458	19.460	-0.002	89	39782	0.1518	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	87	37844	0.1470	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	25655	0.1417	
103 n-Butylbenzene	91	19.776	19.777	-0.001	94	44913	0.1460	
104 Indene	116	19.781	19.781	0.0	83	31046	0.1380	
105 Undecane	57	20.066	20.068	-0.002	92	30780	0.1536	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	91	42402	0.1364	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	93	45438	0.1455	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	89	30265	0.1485	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	89	37074	0.1468	
110 Dodecane	57	21.147	21.148	-0.001	89	33803	0.1629	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	74	10877	0.1350	
112 Naphthalene	128	21.524	21.527	-0.003	95	30193	0.1323	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	80	19240	0.1244	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	79	23861	0.1449	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	85	14621	0.1404	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	89	21725	0.8950	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	92	25220	1.01	
139 Isopropyl ether	45	8.796	8.794	0.002	93	44609	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	93	40755	NR	
140 Tert-amyl methyl ether	73	11.486	11.482	0.004	74	38761	NR	
A 118 C6 Range	1	8.640	8.586 -	8.694	0	202396	0.1940	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	134690	0.2054	
A 123 C8 Range	1	14.923	14.886 -	14.961	0	242838	0.2390	
S 124 Xylenes, Total	100				0		0.5333	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

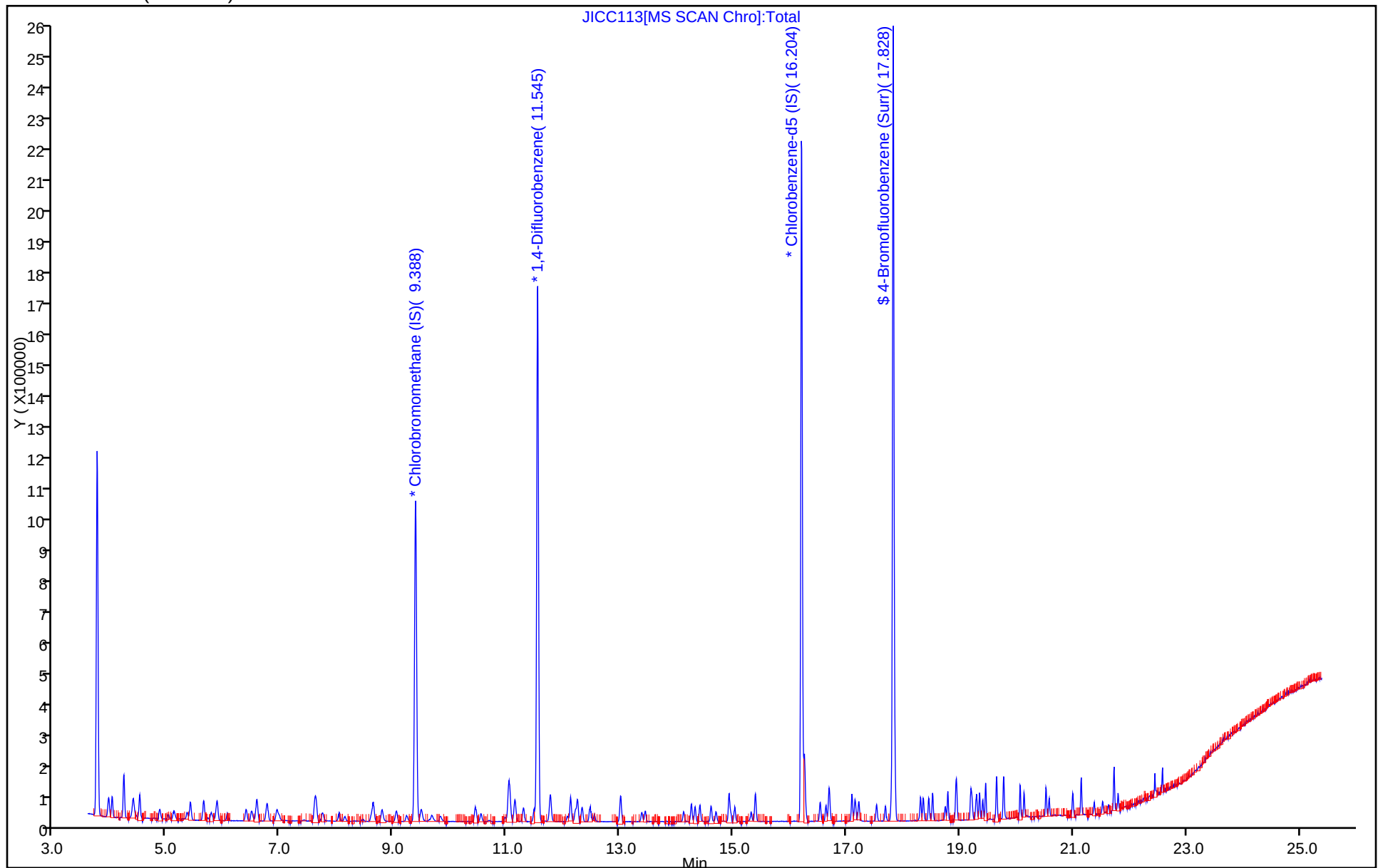
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

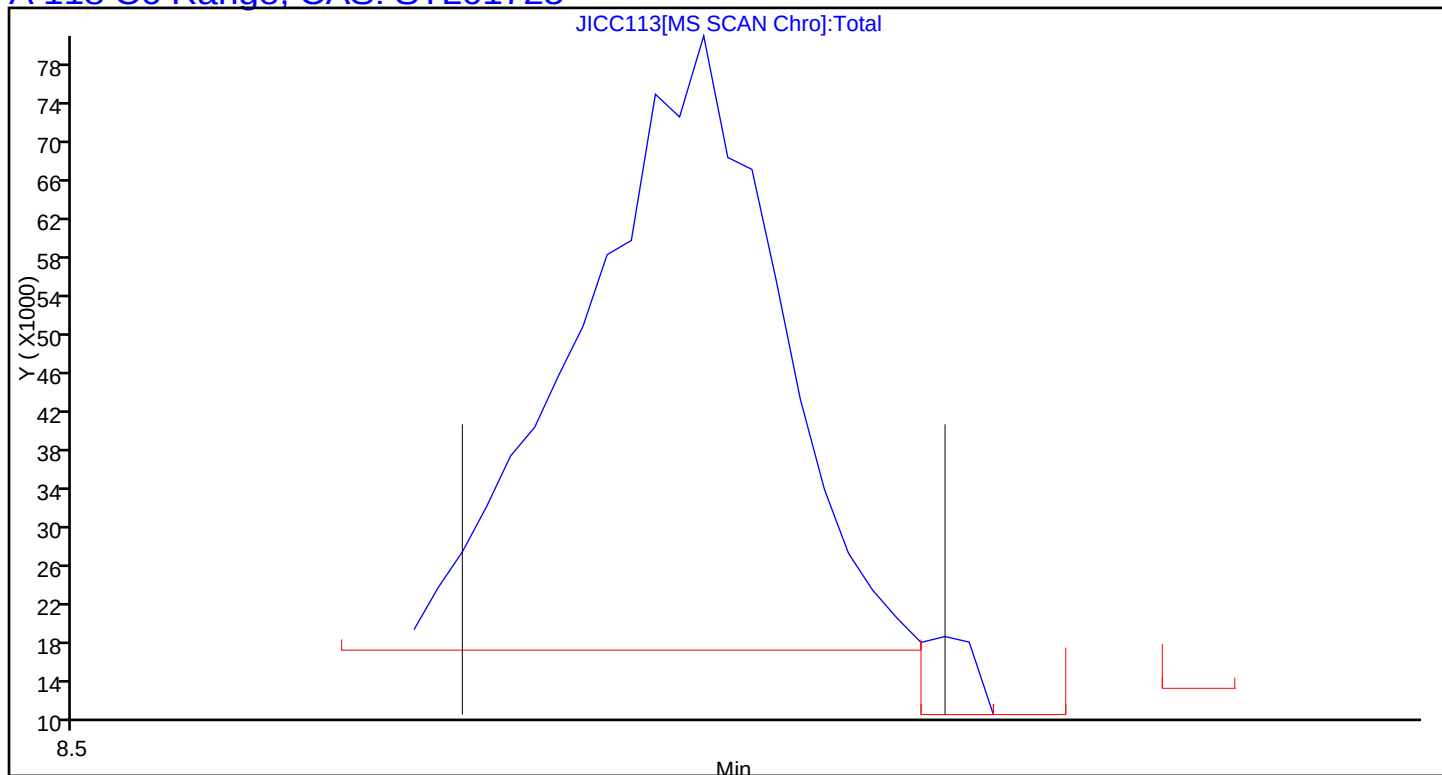
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 4

Purge Vol: 500.000 mL

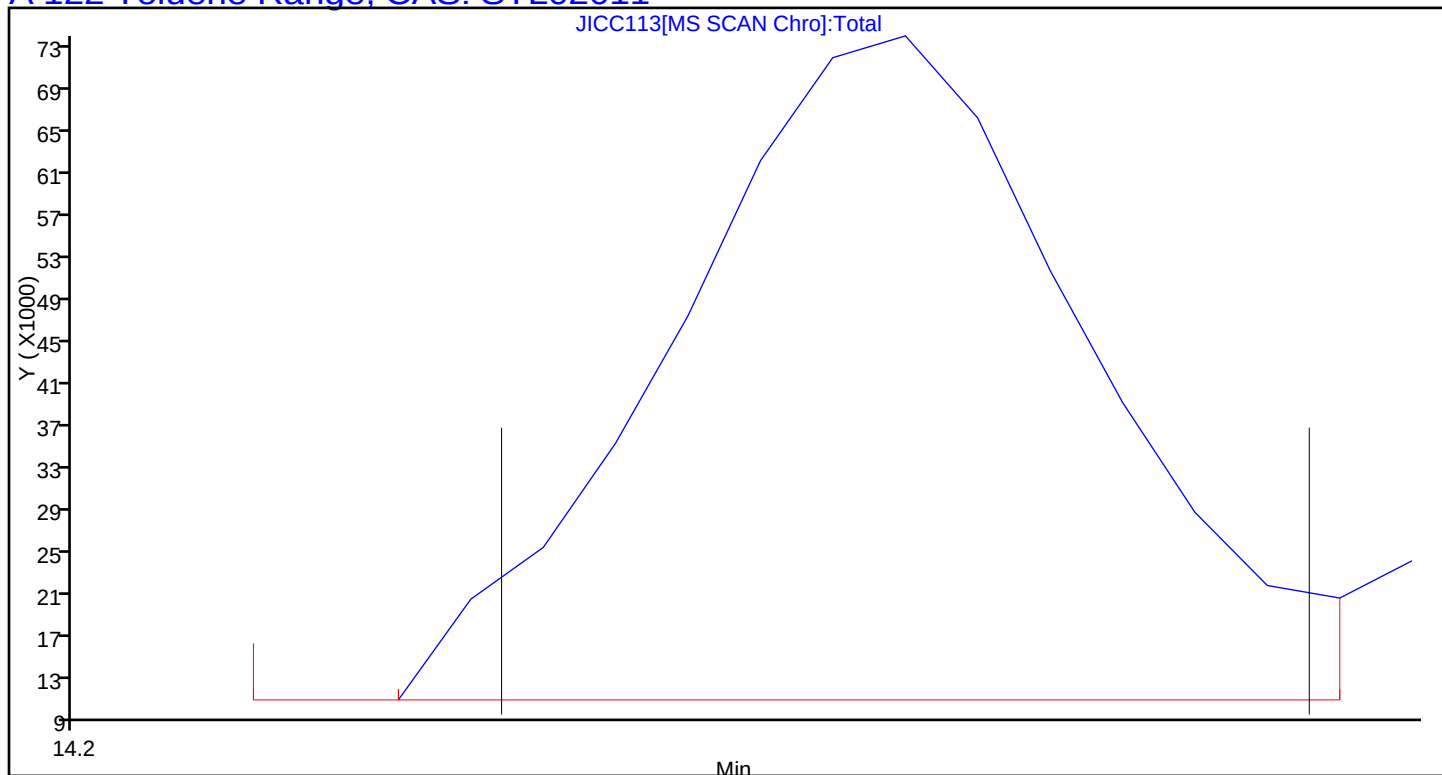
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC113.D

Injection Date: 11-Mar-2014 14:29:30

Instrument ID: MJ

Lims ID: IC L3

Lab Sample ID: Client 140-535/4-A

Client ID:

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

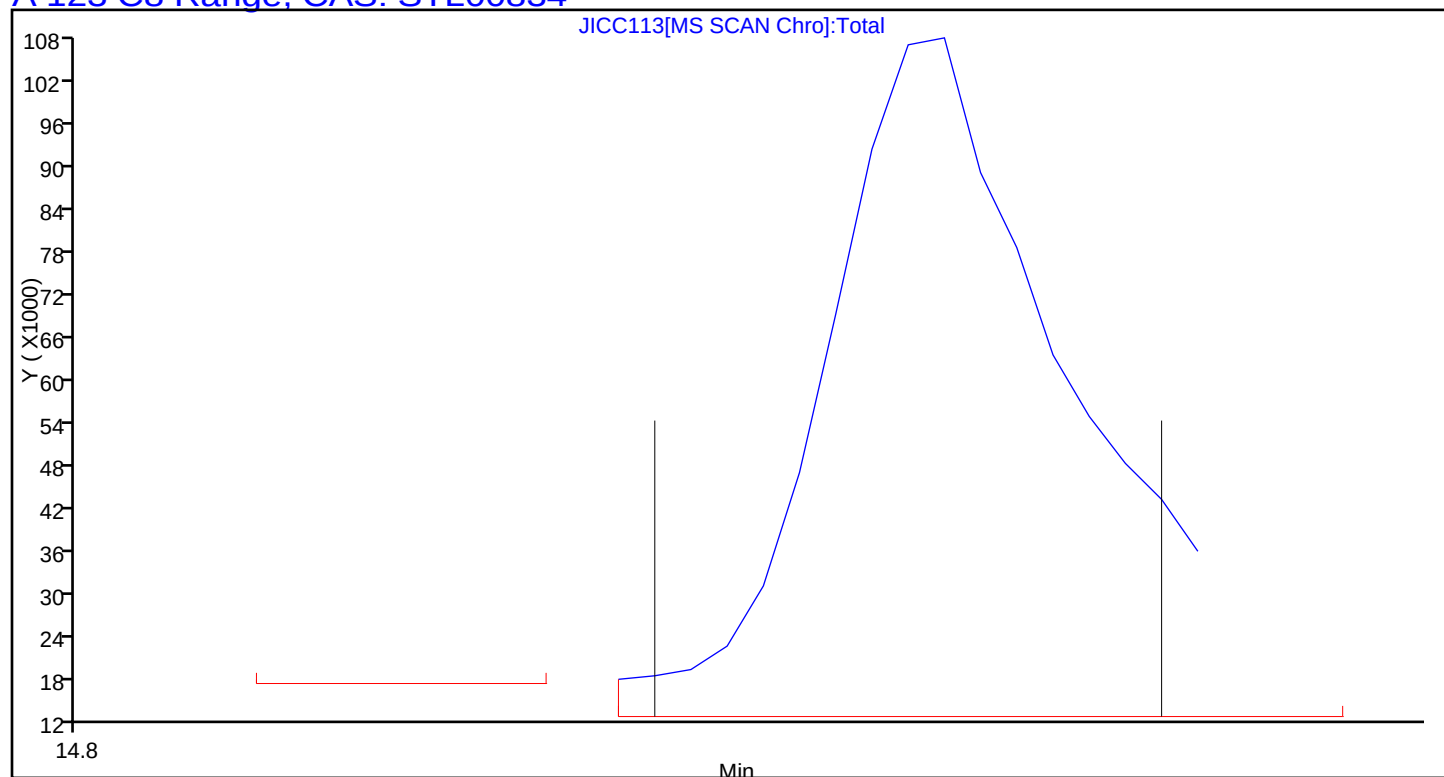
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D
 Lims ID: IC L4 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Mar-2014 15:23:30 ALS Bottle#: 10 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL4,,1,4,,ICAL 0.4
 Misc. Info.: J031114I,TO15,,140-0000516-005
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:29 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	343740	4.00	
* 2 1,4-Difluorobenzene	114	11.547	11.547	0.0	94	1630205	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.205	16.208	-0.003	87	1321433	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	90	911404	3.90	
6 Chlorodifluoromethane	67	3.962	3.960	0.002	96	13846	0.3903	
7 Propene	41	3.972	3.973	-0.001	99	44922	0.4262	
8 Dichlorodifluoromethane	85	4.032	4.029	0.003	100	134818	0.3960	
9 Chloromethane	52	4.231	4.230	0.001	100	15228	0.3937	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.236	4.238	-0.002	92	93560	0.3641	
11 Acetaldehyde	44	4.397	4.398	-0.001	99	64164	1.89	
12 Vinyl chloride	62	4.419	4.419	0.0	98	51116	0.4011	
14 Butadiene	54	4.516	4.517	-0.001	65	35435	0.4002	
13 Butane	43	4.516	4.517	-0.001	86	71879	0.3963	
15 Bromomethane	94	4.871	4.871	0.0	94	50293	0.3880	
16 Chloroethane	64	5.027	5.027	0.0	98	23148	0.3949	
17 Ethanol	31	5.118	5.122	-0.004	94	58098	2.11	
18 Vinyl bromide	106	5.355	5.357	-0.002	94	42200	0.3828	
19 2-Methylbutane	43	5.414	5.411	0.003	91	57096	0.3911	
20 Trichlorofluoromethane	101	5.645	5.647	-0.002	97	116368	0.3890	
21 Acrolein	56	5.651	5.650	0.001	19	8002	0.2852	
22 Acetonitrile	40	5.721	5.720	0.001	99	11328	0.3655	
23 Acetone	58	5.775	5.776	-0.001	83	24784	0.5072	
24 Isopropyl alcohol	45	5.855	5.858	-0.003	94	52512	0.4070	
25 Pentane	72	5.882	5.884	-0.002	95	7244	0.3917	
26 Ethyl ether	31	6.065	6.059	0.006	90	29228	0.3250	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	96	36039	0.3735	
28 2-Methyl-2-propanol	59	6.485	6.487	-0.002	93	66363	0.4175	
29 Acrylonitrile	53	6.495	6.498	-0.003	93	15228	0.2981	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.587	6.586	0.001	93	79676	0.3844	
31 Methylene Chloride	84	6.759	6.759	0.0	94	36329	0.3951	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.775	6.778	-0.003	91	35748	0.3737	
33 Carbon disulfide	76	6.942	6.942	0.0	99	124614	0.3854	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	96	43537	0.3746	
35 2-Methylpentane	43	7.630	7.631	-0.001	94	102693	0.3872	
36 Methyl tert-butyl ether	73	7.738	7.738	0.0	95	59586	0.3396	
37 1,1-Dichloroethane	63	8.039	8.041	-0.002	96	65235	0.3596	
38 Vinyl acetate	43	8.142	8.141	0.001	99	48718	0.3066	
39 2-Butanone (MEK)	72	8.604	8.601	0.003	78	11813	0.3631	
40 Hexane	56	8.636	8.642	-0.006	87	34438	0.3727	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	93	35319	0.3559	
42 Ethyl acetate	43	9.228	9.229	-0.001	95	46769	0.3300	
43 Chloroform	83	9.400	9.403	-0.003	80	71523	0.3571	
44 Tetrahydrofuran	42	9.815	9.816	-0.001	93	27476	0.3451	
45 1,1,1-Trichloroethane	97	10.449	10.450	-0.001	96	75903	0.3636	
46 1,2-Dichloroethane	62	10.546	10.547	-0.001	94	43695	0.3455	
47 n-Butanol	31	10.960	10.958	0.002	94	14706	0.4127	
48 Benzene	78	11.030	11.033	-0.003	96	97096	0.3471	
49 Cyclohexane	69	11.036	11.040	-0.004	93	20873	0.3782	
50 Carbon tetrachloride	117	11.057	11.059	-0.002	94	84912	0.3675	
51 2,3-Dimethylpentane	71	11.143	11.148	-0.005	91	23214	0.3518	
52 Thiophene	84	11.294	11.297	-0.003	93	60186	0.3484	
53 Isooctane	57	11.767	11.771	-0.004	97	173617	0.3635	
54 n-Heptane	71	12.128	12.130	-0.002	91	33732	0.3410	
55 1,2-Dichloropropane	63	12.214	12.214	0.0	84	30869	0.3265	
56 Trichloroethene	130	12.246	12.252	-0.006	95	46631	0.3437	
57 Dibromomethane	93	12.332	12.332	0.0	88	41095	0.3303	
59 Dichlorobromomethane	83	12.472	12.472	0.0	97	63861	0.3235	
58 1,4-Dioxane	88	12.483	12.483	0.0	45	11964	0.3532	
60 Methyl methacrylate	41	12.547	12.548	-0.001	84	24813	0.2925	
61 Methylcyclohexane	83	13.010	13.013	-0.003	95	65787	0.3494	
62 4-Methyl-2-pentanone (MIBK)	43	13.381	13.382	-0.001	93	52154	0.3052	
63 cis-1,3-Dichloropropene	75	13.446	13.448	-0.002	93	42126	0.3141	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	92	35040	0.3200	
65 Toluene	91	14.258	14.262	-0.004	93	79532	0.3244	
66 1,1,2-Trichloroethane	83	14.328	14.328	0.0	95	26153	0.3366	
67 2-Methylthiophene	97	14.409	14.413	-0.004	95	73689	0.3345	
68 3-Methylthiophene	97	14.608	14.612	-0.004	94	73553	0.3328	
69 2-Hexanone	58	14.694	14.694	0.0	88	25873	0.3222	
70 n-Octane	85	14.925	14.928	-0.003	93	31719	0.3527	
71 Chlorodibromomethane	129	15.027	15.027	0.0	94	54305	0.3167	
72 Ethylene Dibromide	107	15.318	15.317	0.001	89	42940	0.3225	
73 Tetrachloroethene	129	15.393	15.393	0.0	90	38555	0.3376	
75 Chlorobenzene	112	16.254	16.256	-0.002	66	67168	0.3208	
74 2,3-Dimethylheptane	43	16.259	16.260	-0.001	95	107761	0.3992	
76 Ethylbenzene	91	16.534	16.536	-0.002	97	85699	0.3165	
77 2-Ethylthiophene	97	16.636	16.638	-0.002	91	66902	0.3153	
78 m-Xylene & p-Xylene	91	16.695	16.696	-0.001	99	133531	0.6111	
79 n-Nonane	57	17.098	17.098	0.0	93	57485	0.3381	
81 Bromoform	173	17.147	17.149	-0.002	92	36819	0.2718	
80 Styrene	104	17.158	17.157	0.001	95	41766	0.2783	
82 o-Xylene	91	17.217	17.220	-0.003	94	72917	0.3292	
83 1,1,2,2-Tetrachloroethane	83	17.534	17.534	0.0	97	58192	0.3215	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.690	17.690	0.0	95	13592	0.3132	
85 Isopropylbenzene	105	17.792	17.793	-0.001	83	100706	0.3191	
86 N-Propylbenzene	120	18.309	18.310	-0.001	97	24502	0.2944	
87 2-Chlorotoluene	126	18.357	18.357	0.0	94	26819	0.3088	
88 4-Ethyltoluene	105	18.454	18.454	0.0	96	89983	0.3057	
89 1,3,5-Trimethylbenzene	120	18.524	18.524	0.0	91	45307	0.3062	
90 Alpha Methyl Styrene	118	18.744	18.745	-0.001	81	27470	0.2591	
91 n-Decane	57	18.793	18.793	0.0	87	56293	0.3107	
92 tert-Butylbenzene	119	18.933	18.937	-0.004	83	89301	0.3090	
93 1,2,4-Trimethylbenzene	105	18.949	18.949	0.0	90	76446	0.2979	
94 sec-Butylbenzene	105	19.196	19.196	0.0	96	115821	0.3075	
95 1,3-Dichlorobenzene	146	19.218	19.217	0.001	96	46329	0.2747	
96 Benzyl chloride	91	19.288	19.288	0.0	95	52876	0.2759	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	92	43546	0.2774	
98 4-Isopropyltoluene	119	19.352	19.352	0.0	81	90008	0.2981	
99 1,2,3-Trimethylbenzene	105	19.406	19.409	-0.003	97	68250	0.3264	
100 Butylcyclohexane	83	19.460	19.460	0.0	91	78686	0.3297	
101 2,3-Dihydroindene	117	19.654	19.653	0.001	89	70569	0.3010	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	78	46356	0.2810	
103 n-Butylbenzene	91	19.777	19.777	0.0	96	79971	0.2854	
104 Indene	116	19.777	19.781	-0.004	83	57358	0.2800	
105 Undecane	57	20.068	20.068	0.0	95	59319	0.3250	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.138	20.138	0.0	93	80666	0.2849	
108 1,2,4,5-Tetramethylbenzene	119	20.525	20.525	0.0	96	89023	0.3130	
107 1,2,3,5-Tetramethylbenzene	119	20.579	20.582	-0.003	93	56702	0.3054	
109 1,2,3,4-Tetramethylbenzene	119	20.998	20.998	0.0	95	74166	0.3224	
110 Dodecane	57	21.149	21.148	0.001	92	65545	0.3468	
111 1,2,4-Trichlorobenzene	180	21.380	21.379	0.001	88	21000	0.2861	
112 Naphthalene	128	21.526	21.527	-0.001	98	60395	0.2905	
113 Benzo(b)thiophene	134	21.633	21.631	0.002	90	38727	0.2749	
114 Hexachlorobutadiene	225	21.730	21.729	0.001	83	45108	0.3008	
115 1,2,3-Trichlorobenzene	180	21.800	21.800	0.0	93	29244	0.3083	
116 2-Methylnaphthalene	142	22.451	22.449	0.002	97	47754	2.16	
117 1-Methylnaphthalene	142	22.585	22.583	0.002	97	56061	2.46	
139 Isopropyl ether	45	8.792	8.794	-0.002	96	82128	NR	
142 Tert-butyl ethyl ether	59	9.486	9.487	-0.001	93	74941	NR	
140 Tert-amyl methyl ether	73	11.482	11.482	0.0	76	70041	NR	
A 118 C6 Range	1	8.642	8.588 -	8.696	0	410756	0.4093	
A 122 Toluene Range	1	14.258	14.228 -	14.288	0	190190	0.3183	
A 123 C8 Range	1	14.925	14.882 -	14.968	0	360891	0.3898	
S 124 Xylenes, Total	100				0		0.9404	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L4

Lab Sample ID:

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

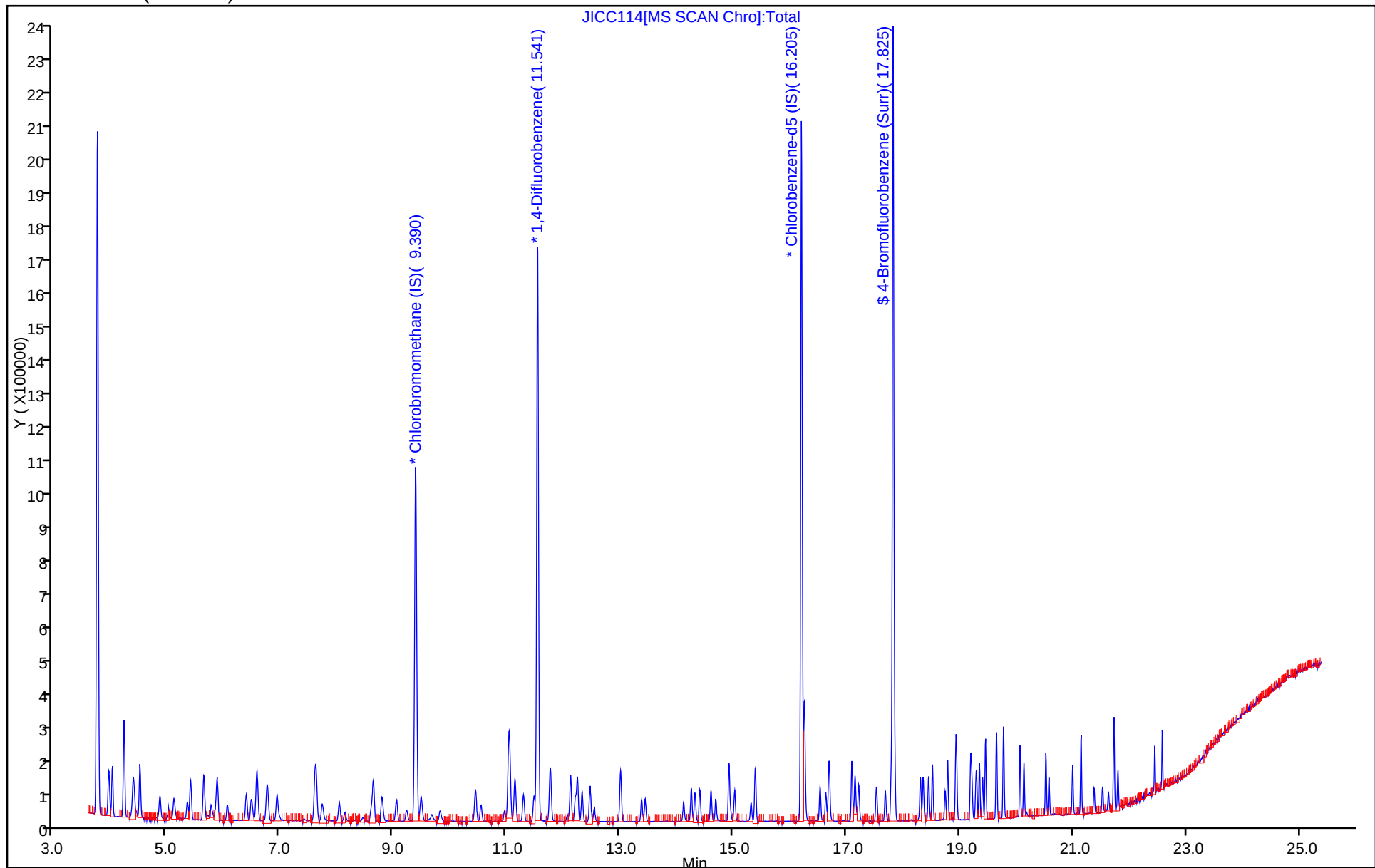
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30

Instrument ID: MJ

Lims ID: IC L4

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

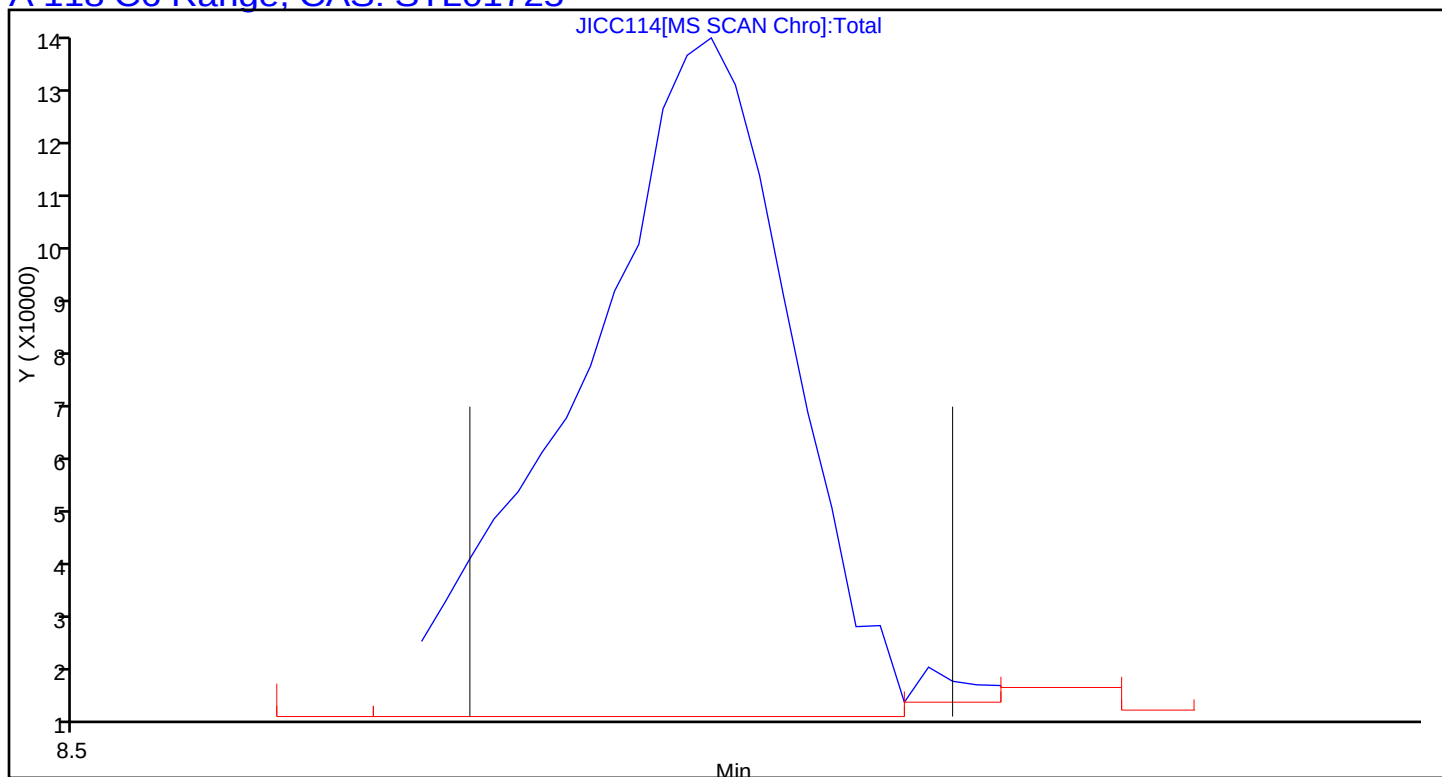
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30

Instrument ID: MJ

Lims ID: IC L4

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 5

Purge Vol: 500.000 mL

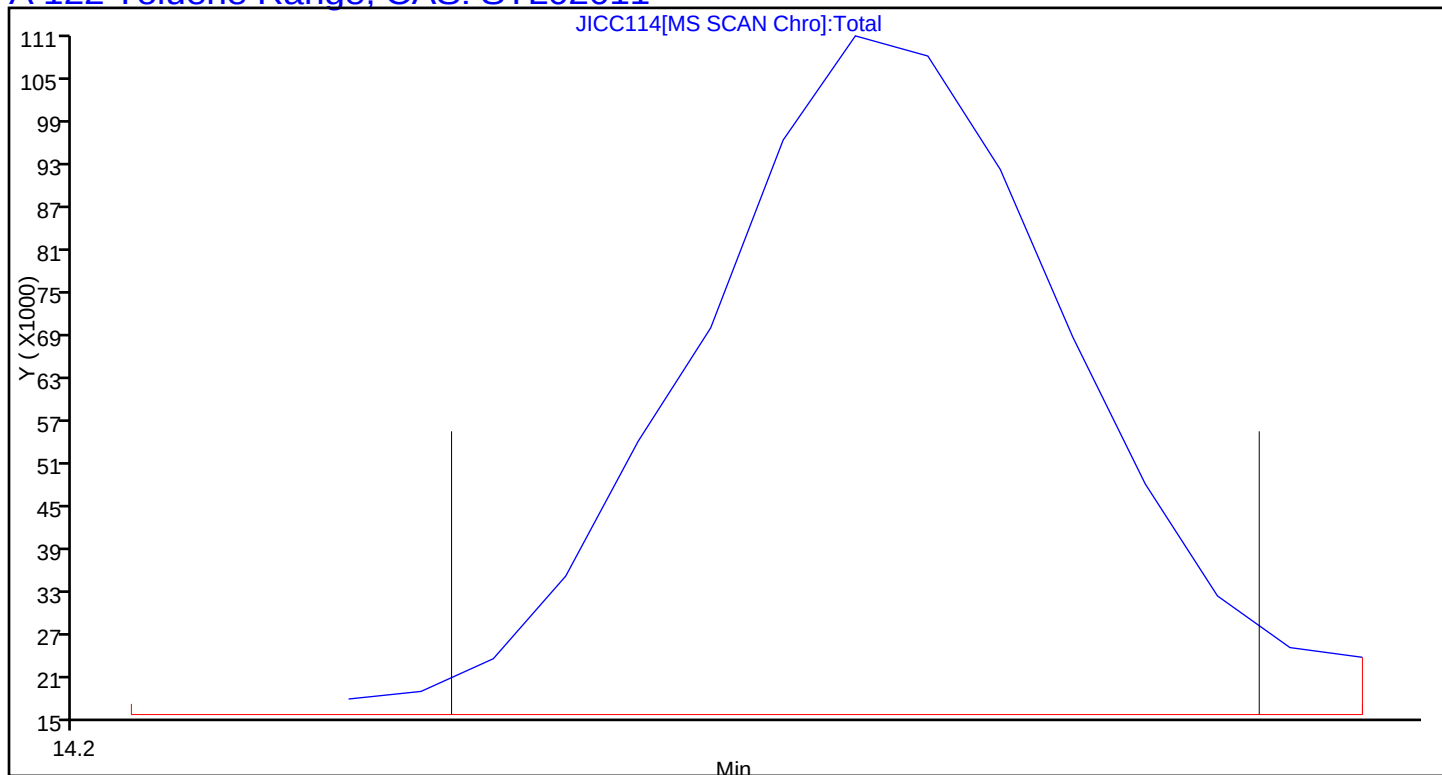
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC114.D

Injection Date: 11-Mar-2014 15:23:30

Instrument ID: MJ

Lims ID: IC L4

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 5

Purge Vol: 500.000 mL

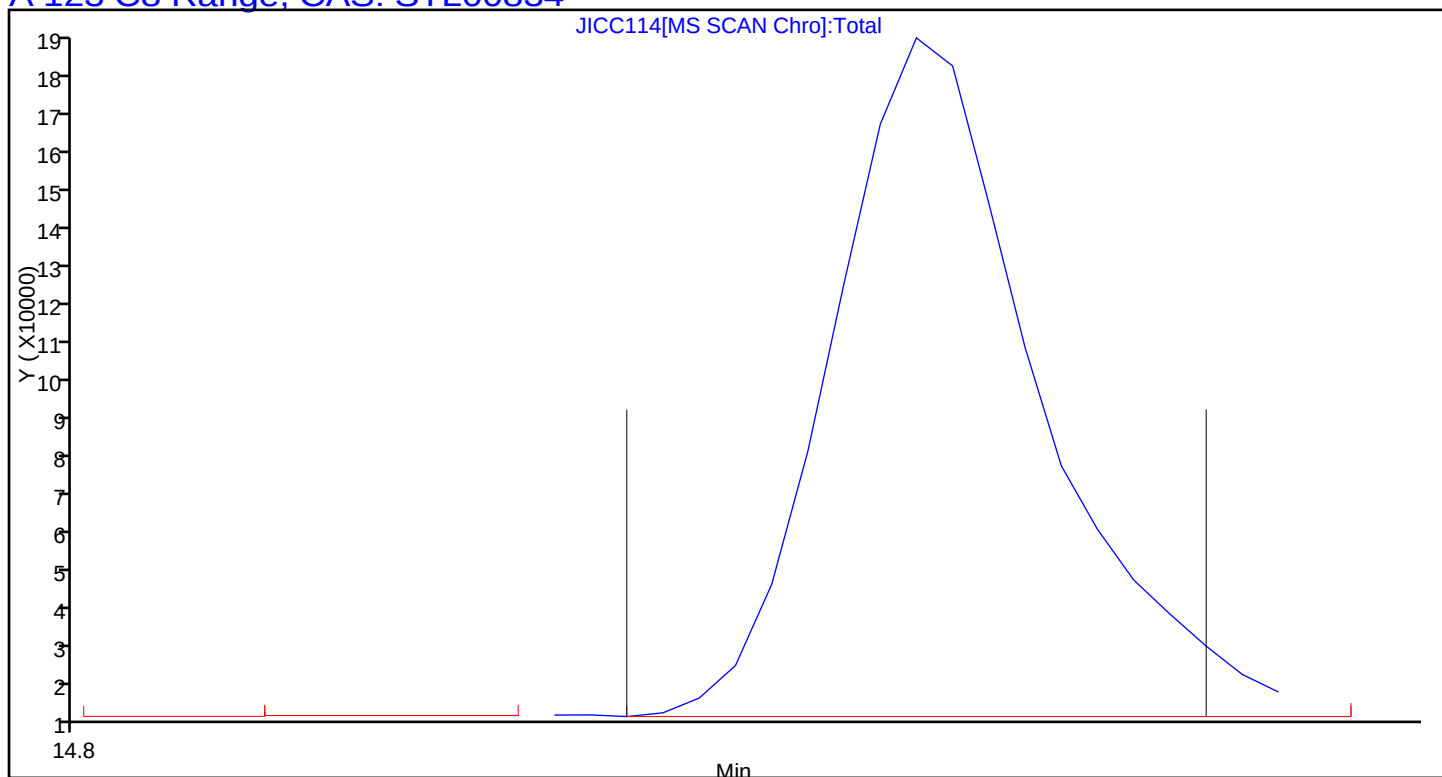
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D
 Lims ID: IC L5 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Mar-2014 16:17:30 ALS Bottle#: 11 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL5,,1,5,,ICAL 1
 Misc. Info.: J031114I,TO15,,140-0000516-006
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:45:15 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:45:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.393	9.392	0.001	93	350674	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	93	1674047	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1432884	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	90	1030162	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	32729	0.9044	
7 Propene	41	3.976	3.973	0.003	99	107699	1.00	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	334566	0.9632	
9 Chloromethane	52	4.229	4.230	-0.001	98	37407	0.9480	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	91	251641	0.9599	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	194092	5.61	
12 Vinyl chloride	62	4.417	4.419	-0.002	98	125449	0.9650	
14 Butadiene	54	4.514	4.517	-0.003	90	87385	0.9674	
13 Butane	43	4.519	4.517	0.002	86	173714	0.9389	
15 Bromomethane	94	4.874	4.871	0.003	98	123346	0.9329	
16 Chloroethane	64	5.025	5.027	-0.002	98	56692	0.9479	
17 Ethanol	31	5.117	5.122	-0.005	95	144711	5.14	
18 Vinyl bromide	106	5.359	5.357	0.002	97	105872	0.9415	
19 2-Methylbutane	43	5.412	5.411	0.001	92	140258	0.9417	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	97	292818	0.9596	
21 Acrolein	56	5.649	5.650	-0.001	24	27013	0.9436	
22 Acetonitrile	40	5.719	5.720	-0.001	100	29505	0.9331	
23 Acetone	58	5.773	5.776	-0.003	85	72907	1.46	
24 Isopropyl alcohol	45	5.854	5.858	-0.004	96	127722	0.9703	
25 Pentane	72	5.886	5.884	0.002	96	18413	0.9759	
26 Ethyl ether	31	6.058	6.059	-0.001	93	94508	1.03	
27 1,1-Dichloroethene	96	6.402	6.399	0.003	97	90818	0.9225	
28 2-Methyl-2-propanol	59	6.478	6.487	-0.009	95	154458	0.9526	
29 Acrylonitrile	53	6.499	6.498	0.001	93	49792	0.9554	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.585	6.586	-0.001	94	201012	0.9507	
31 Methylene Chloride	84	6.757	6.759	-0.002	96	89695	0.9561	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	90749	0.9300	
33 Carbon disulfide	76	6.940	6.942	-0.002	99	313388	0.9500	
34 trans-1,2-Dichloroethene	96	7.613	7.609	0.004	98	110071	0.9282	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	259682	0.9597	
36 Methyl tert-butyl ether	73	7.736	7.738	-0.002	95	180801	1.01	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	183945	0.99	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	159904	0.9863	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	35887	1.08	
40 Hexane	56	8.640	8.642	-0.002	89	89704	0.9515	
41 cis-1,2-Dichloroethene	96	9.054	9.052	0.002	95	100896	1.00	
42 Ethyl acetate	43	9.226	9.229	-0.003	97	144504	1.00	
43 Chloroform	83	9.404	9.403	0.001	87	200359	0.9806	
44 Tetrahydrofuran	42	9.813	9.816	-0.003	93	78446	0.9658	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	216140	1.01	
46 1,2-Dichloroethane	62	10.544	10.547	-0.003	96	125298	0.9648	
47 n-Butanol	31	10.953	10.958	-0.005	84	30453	0.8322	
48 Benzene	78	11.034	11.033	0.001	97	273136	0.9509	
49 Cyclohexane	69	11.039	11.040	-0.001	93	54874	0.9681	
50 Carbon tetrachloride	117	11.061	11.059	0.002	97	236385	1.00	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	65875	0.9721	
52 Thiophene	84	11.298	11.297	0.001	96	173039	0.9755	
53 Isooctane	57	11.771	11.771	0.0	98	474988	0.9685	
54 n-Heptane	71	12.131	12.130	0.001	93	96771	0.9527	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	95014	0.9787	
56 Trichloroethene	130	12.250	12.252	-0.002	97	128335	0.9210	
57 Dibromomethane	93	12.330	12.332	-0.002	91	121268	0.9492	
59 Dichlorobromomethane	83	12.470	12.472	-0.002	98	190788	0.9411	
58 1,4-Dioxane	88	12.481	12.483	-0.002	87	31775	0.9134	
60 Methyl methacrylate	41	12.546	12.548	-0.002	90	82170	0.9434	
61 Methylcyclohexane	83	13.014	13.013	0.001	95	188580	0.9754	
62 4-Methyl-2-pentanone (MIBK)	43	13.379	13.382	-0.003	98	163854	0.9338	
63 cis-1,3-Dichloropropene	75	13.449	13.448	0.001	95	131004	0.9512	
64 trans-1,3-Dichloropropene	75	14.127	14.126	0.001	98	117538	0.9899	
65 Toluene	91	14.262	14.262	0.0	93	264651	1.00	
66 1,1,2-Trichloroethane	83	14.326	14.328	-0.002	96	84373	1.00	
67 2-Methylthiophene	97	14.412	14.413	-0.001	98	237579	0.99	
68 3-Methylthiophene	97	14.611	14.612	-0.001	99	241139	1.01	
69 2-Hexanone	58	14.692	14.694	-0.002	92	79350	0.9114	
70 n-Octane	85	14.929	14.928	0.001	94	94899	0.9730	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	174527	0.9386	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	97	142171	0.9847	
73 Tetrachloroethene	129	15.391	15.393	-0.002	92	112818	0.9111	
75 Chlorobenzene	112	16.257	16.256	0.001	84	213586	0.9406	
74 2,3-Dimethylheptane	43	16.257	16.260	-0.003	95	299289	1.02	
76 Ethylbenzene	91	16.537	16.536	0.001	98	284603	0.9693	
77 2-Ethylthiophene	97	16.639	16.638	0.001	97	225682	0.9808	
78 m-Xylene & p-Xylene	91	16.693	16.696	-0.003	100	437938	1.85	
79 n-Nonane	57	17.097	17.098	-0.001	93	182421	0.9895	
81 Bromoform	173	17.150	17.149	0.001	93	134430	0.9151	
80 Styrene	104	17.156	17.157	-0.001	98	156161	0.9598	
82 o-Xylene	91	17.220	17.220	0.0	96	232024	0.9661	
83 1,1,2,2-Tetrachloroethane	83	17.532	17.534	-0.002	99	183648	0.9358	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.688	17.690	-0.002	97	43710	0.9288	
85 Isopropylbenzene	105	17.791	17.793	-0.002	96	322210	0.9415	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	81294	0.9008	
87 2-Chlorotoluene	126	18.355	18.357	-0.002	97	86903	0.9227	
88 4-Ethyltoluene	105	18.452	18.454	-0.002	98	291767	0.9142	
89 1,3,5-Trimethylbenzene	120	18.522	18.524	-0.002	92	140307	0.8745	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	84	104233	0.9066	
91 n-Decane	57	18.791	18.793	-0.002	88	192549	0.9800	
92 tert-Butylbenzene	119	18.936	18.937	-0.001	87	276681	0.8830	
93 1,2,4-Trimethylbenzene	105	18.947	18.949	-0.002	95	247215	0.8884	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	371473	0.9095	
95 1,3-Dichlorobenzene	146	19.216	19.217	-0.001	98	150681	0.8238	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	171797	0.8266	
97 1,4-Dichlorobenzene	146	19.302	19.302	0.0	93	135286	0.7947	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	295742	0.9032	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	207460	0.9149	
100 Butylcyclohexane	83	19.458	19.460	-0.002	93	250533	0.9680	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	223109	0.8775	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	79	148540	0.8303	
103 n-Butylbenzene	91	19.776	19.777	-0.001	96	267179	0.8794	
104 Indene	116	19.781	19.781	0.0	85	196085	0.8826	
105 Undecane	57	20.066	20.068	-0.002	96	175793	0.8882	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	268427	0.8743	
108 1,2,4,5-Tetramethylbenzene	119	20.523	20.525	-0.002	97	282429	0.9156	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	94	177582	0.8820	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	97	222908	0.8936	
110 Dodecane	57	21.147	21.148	-0.001	94	185701	0.9061	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	66621	0.8371	
112 Naphthalene	128	21.529	21.527	0.002	99	186491	0.8271	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	98	119182	0.7801	
114 Hexachlorobutadiene	225	21.728	21.729	-0.001	84	136244	0.8378	
115 1,2,3-Trichlorobenzene	180	21.798	21.800	-0.002	95	87992	0.8556	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	99	149184	6.22	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	164584	6.66	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	244016	NR	
142 Tert-butyl ethyl ether	59	9.485	9.487	-0.002	95	220627	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	81	203973	NR	
A 118 C6 Range	1	8.640	8.581 -	8.699	0	1022928	1.00	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	633377	0.9777	
A 123 C8 Range	1	14.934	14.886 -	14.983	0	997149	0.99	
S 124 Xylenes, Total	100				0		2.81	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L5

Lab Sample ID:

Worklist Smp#: 6

Client ID:

Purge Vol: 500.000 mL

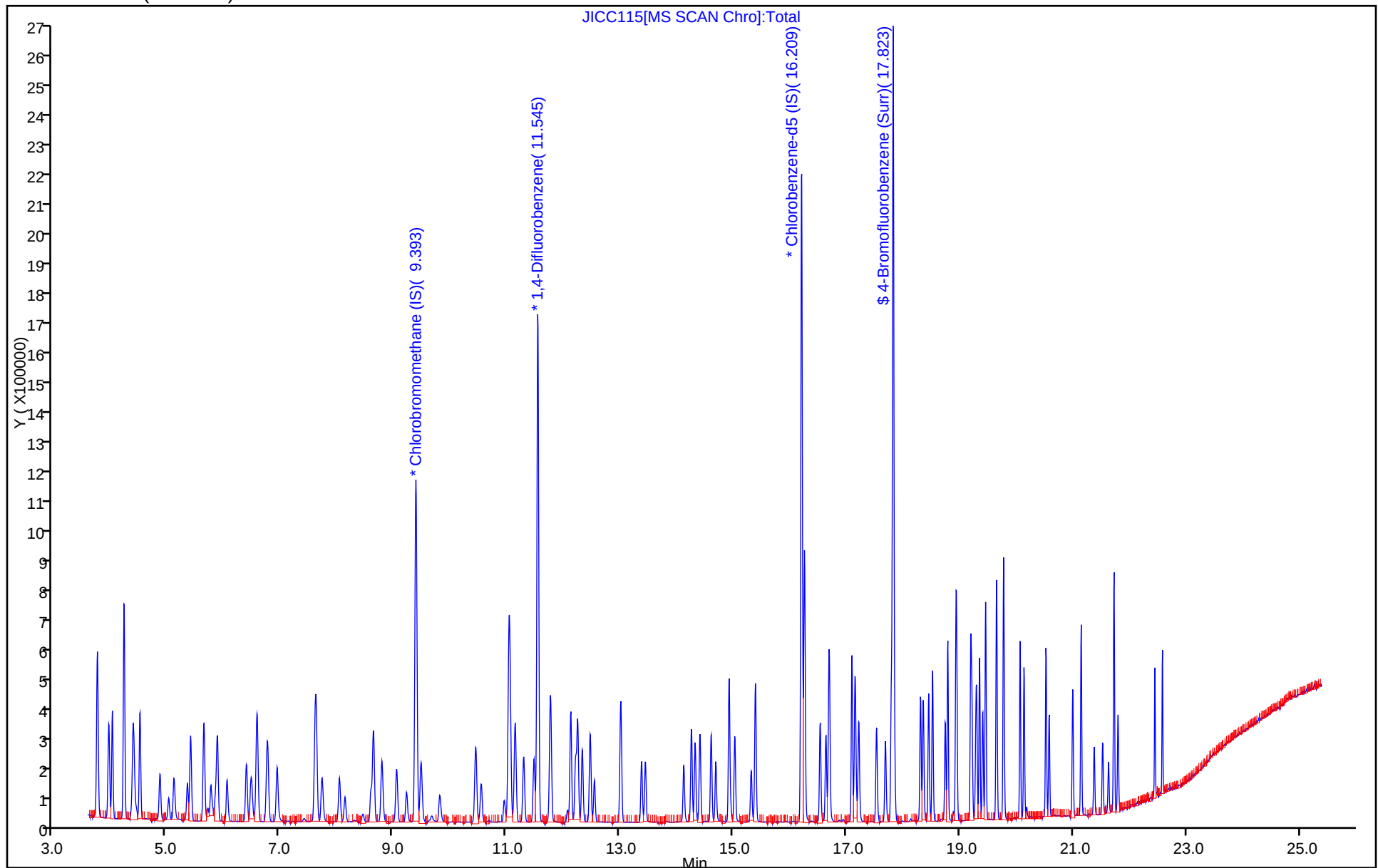
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30

Instrument ID: MJ

Lims ID: IC L5

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

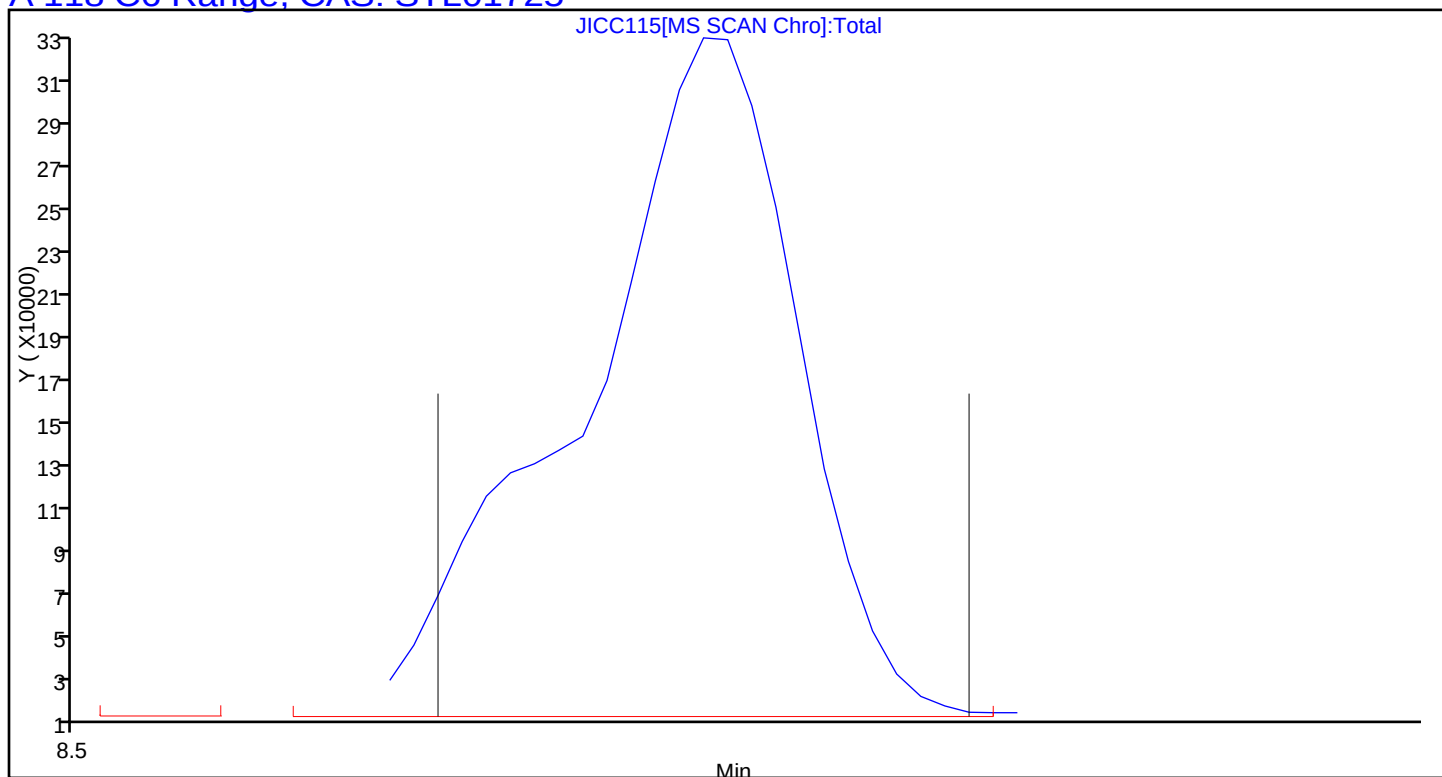
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30

Instrument ID: MJ

Lims ID: IC L5

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 6

Purge Vol: 500.000 mL

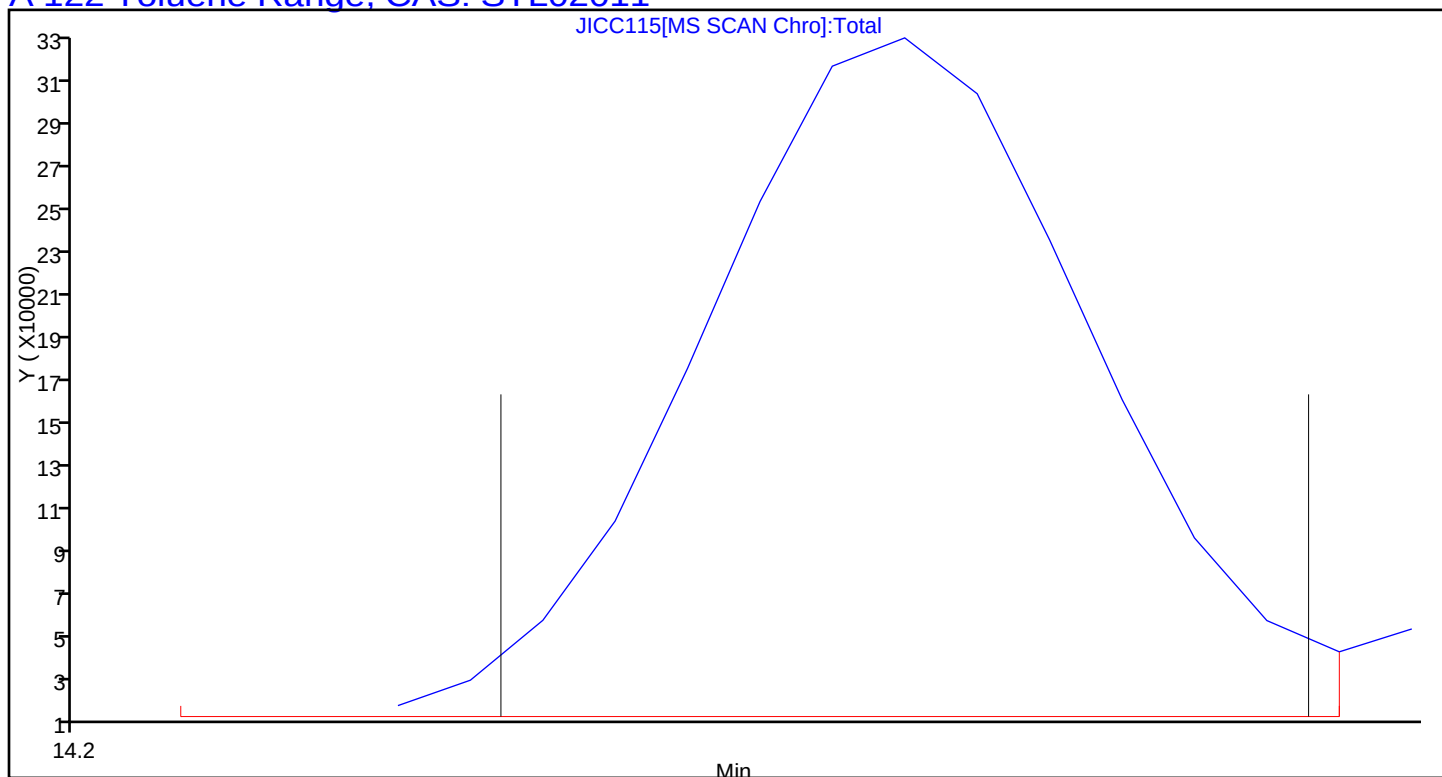
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC115.D

Injection Date: 11-Mar-2014 16:17:30

Instrument ID: MJ

Lims ID: IC L5

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 6

Purge Vol: 500.000 mL

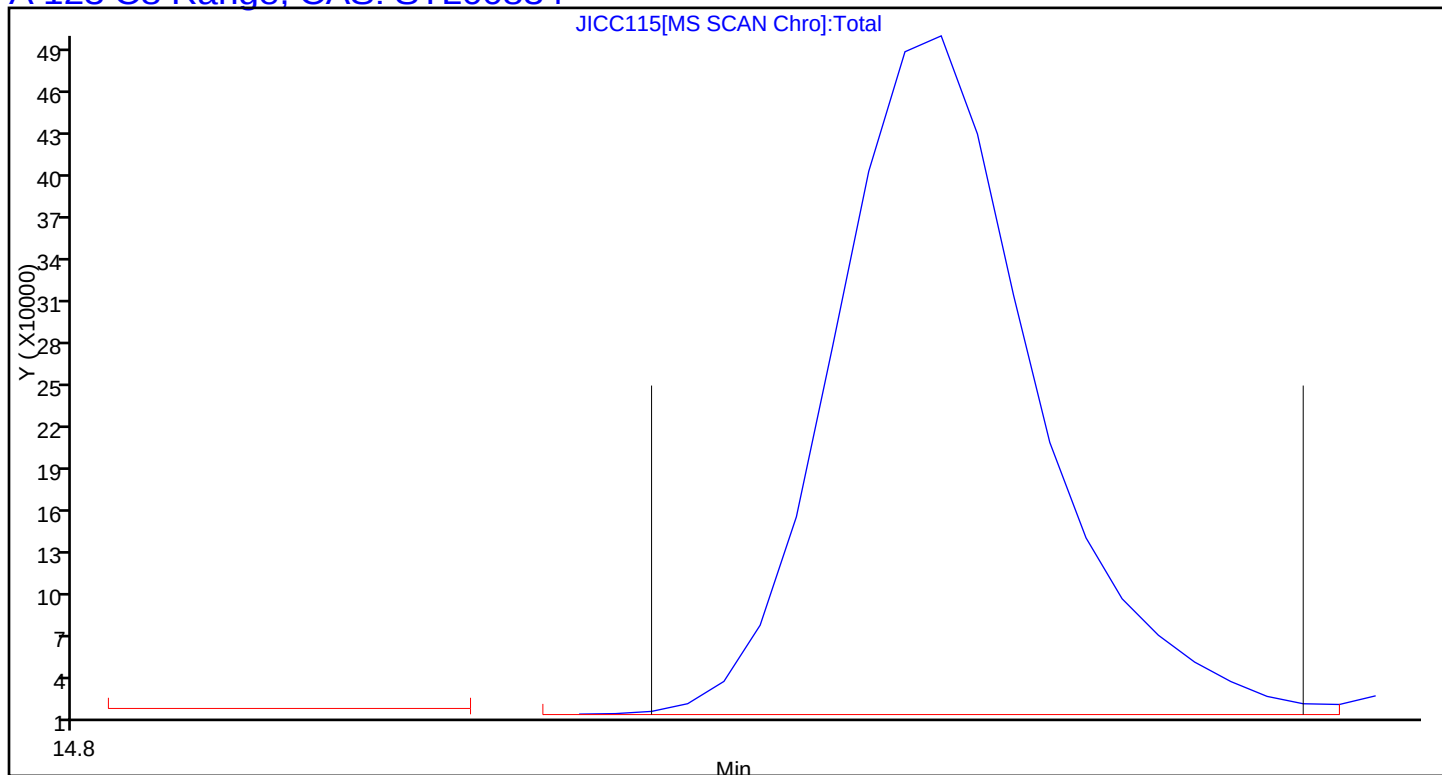
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D
 Lims ID: ICIS L6 Lab Sample ID:
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 11-Mar-2014 17:11:30 ALS Bottle#: 12 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL6,,1,6,,ICAL 2
 Misc. Info.: J031114I,TO15,,140-0000516-007
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:47:02 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.394	9.392	0.002	92	351204	4.00	
* 2 1,4-Difluorobenzene	114	11.545	11.547	-0.002	92	1664083	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.209	16.208	0.001	86	1450172	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.823	17.825	-0.002	89	1040623	4.06	
6 Chlorodifluoromethane	67	3.960	3.960	0.0	97	65895	1.82	
7 Propene	41	3.971	3.973	-0.002	99	203864	1.89	
8 Dichlorodifluoromethane	85	4.030	4.029	0.001	100	677907	1.95	
9 Chloromethane	52	4.229	4.230	-0.001	98	75510	1.91	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.240	4.238	0.002	92	515628	1.96	
11 Acetaldehyde	44	4.396	4.398	-0.002	99	339724	9.80	
12 Vinyl chloride	62	4.418	4.419	-0.001	99	254791	1.96	
14 Butadiene	54	4.514	4.517	-0.003	66	175277	1.94	
13 Butane	43	4.514	4.517	-0.003	86	348021	1.88	
15 Bromomethane	94	4.869	4.871	-0.002	99	250854	1.89	
16 Chloroethane	64	5.025	5.027	-0.002	100	113435	1.89	
17 Ethanol	31	5.117	5.122	-0.005	95	281128	9.97	
18 Vinyl bromide	106	5.354	5.357	-0.003	97	216421	1.92	
19 2-Methylbutane	43	5.413	5.411	0.002	92	280290	1.88	
20 Trichlorofluoromethane	101	5.649	5.647	0.002	98	594264	1.94	
21 Acrolein	56	5.649	5.650	-0.001	68	53042	1.85	
22 Acetonitrile	40	5.714	5.720	-0.006	100	59141	1.87	
23 Acetone	58	5.773	5.776	-0.003	85	101503	2.03	
24 Isopropyl alcohol	45	5.849	5.858	-0.009	94	252925	1.92	
25 Pentane	72	5.886	5.884	0.002	97	37045	1.96	
26 Ethyl ether	31	6.053	6.059	-0.006	93	179455	1.95	
27 1,1-Dichloroethene	96	6.397	6.399	-0.002	97	184446	1.87	
28 2-Methyl-2-propanol	59	6.473	6.487	-0.014	95	272663	1.68	
29 Acrylonitrile	53	6.494	6.498	-0.004	95	99812	1.91	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.586	6.586	0.0	95	409082	1.93	
31 Methylene Chloride	84	6.758	6.759	-0.001	95	180581	1.92	
32 3-Chloro-1-propene	39	6.779	6.778	0.001	94	183622	1.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.941	6.942	-0.001	99	641989	1.94	
34 trans-1,2-Dichloroethene	96	7.608	7.609	-0.001	98	225627	1.90	
35 2-Methylpentane	43	7.629	7.631	-0.002	95	522389	1.93	
36 Methyl tert-butyl ether	73	7.731	7.738	-0.007	96	356577	1.99	
37 1,1-Dichloroethane	63	8.043	8.041	0.002	100	362051	1.95	
38 Vinyl acetate	43	8.140	8.141	-0.001	100	322885	1.99	
39 2-Butanone (MEK)	72	8.597	8.601	-0.004	99	69610	2.09	
40 Hexane	56	8.640	8.642	-0.002	90	180662	1.91	
41 cis-1,2-Dichloroethene	96	9.049	9.052	-0.003	95	200551	1.98	
42 Ethyl acetate	43	9.227	9.229	-0.002	97	292814	2.02	
43 Chloroform	83	9.404	9.403	0.001	96	388598	1.90	
44 Tetrahydrofuran	42	9.808	9.816	-0.008	94	156408	1.92	
45 1,1,1-Trichloroethane	97	10.448	10.450	-0.002	96	422225	1.98	
46 1,2-Dichloroethane	62	10.545	10.547	-0.002	95	248475	1.92	
47 n-Butanol	31	10.948	10.958	-0.010	88	63073	1.73	
48 Benzene	78	11.034	11.033	0.001	97	540059	1.89	
49 Cyclohexane	69	11.040	11.040	0.0	92	110363	1.96	
50 Carbon tetrachloride	117	11.061	11.059	0.002	96	443845	1.88	
51 2,3-Dimethylpentane	71	11.147	11.148	-0.001	91	127368	1.89	
52 Thiophene	84	11.298	11.297	0.001	96	339429	1.93	
53 Isooctane	57	11.771	11.771	0.0	98	916367	1.88	
54 n-Heptane	71	12.132	12.130	0.002	92	191563	1.90	
55 1,2-Dichloropropane	63	12.212	12.214	-0.002	88	187039	1.94	
56 Trichloroethene	130	12.250	12.252	-0.002	93	255418	1.84	
57 Dibromomethane	93	12.331	12.332	-0.001	91	238917	1.88	
59 Dichlorobromomethane	83	12.471	12.472	-0.001	99	383587	1.90	
58 1,4-Dioxane	88	12.476	12.483	-0.007	85	63279	1.83	
60 Methyl methacrylate	41	12.546	12.548	-0.002	91	169117	1.95	
61 Methylcyclohexane	83	13.014	13.013	0.001	96	363492	1.89	
62 4-Methyl-2-pentanone (MIBK)	43	13.380	13.382	-0.002	98	336876	1.93	
63 cis-1,3-Dichloropropene	75	13.450	13.448	0.002	94	261947	1.91	
64 trans-1,3-Dichloropropene	75	14.128	14.126	0.002	98	234824	1.95	
65 Toluene	91	14.262	14.262	0.0	94	519669	1.93	
66 1,1,2-Trichloroethane	83	14.327	14.328	-0.001	97	166783	1.96	
67 2-Methylthiophene	97	14.413	14.413	0.0	98	477759	1.98	
68 3-Methylthiophene	97	14.612	14.612	0.0	99	476584	1.97	
69 2-Hexanone	58	14.692	14.694	-0.002	93	161365	1.83	
70 n-Octane	85	14.929	14.928	0.001	94	185219	1.88	
71 Chlorodibromomethane	129	15.026	15.027	-0.001	96	362439	1.93	
72 Ethylene Dibromide	107	15.316	15.317	-0.001	98	283094	1.94	
73 Tetrachloroethene	129	15.392	15.393	-0.001	92	226667	1.81	
75 Chlorobenzene	112	16.258	16.256	0.002	87	423684	1.84	
74 2,3-Dimethylheptane	43	16.258	16.260	-0.002	95	563663	1.90	
76 Ethylbenzene	91	16.538	16.536	0.002	98	566249	1.91	
77 2-Ethylthiophene	97	16.640	16.638	0.002	97	450374	1.93	
78 m-Xylene & p-Xylene	91	16.694	16.696	-0.002	100	877038	3.66	
79 n-Nonane	57	17.097	17.098	-0.001	93	359753	1.93	
81 Bromoform	173	17.151	17.149	0.002	94	285787	1.92	
80 Styrene	104	17.156	17.157	-0.001	98	329540	2.00	
82 o-Xylene	91	17.221	17.220	0.001	96	451038	1.86	
83 1,1,1,2,2-Tetrachloroethane	83	17.533	17.534	-0.001	99	370844	1.87	
84 1,2,3-Trichloropropane	110	17.689	17.690	-0.001	97	88416	1.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.791	17.793	-0.002	97	640978	1.85	
86 N-Propylbenzene	120	18.307	18.310	-0.003	98	169743	1.86	
87 2-Chlorotoluene	126	18.356	18.357	-0.001	97	172536	1.81	
88 4-Ethyltoluene	105	18.453	18.454	-0.001	97	602615	1.87	
89 1,3,5-Trimethylbenzene	120	18.523	18.524	-0.001	92	288648	1.78	
90 Alpha Methyl Styrene	118	18.743	18.745	-0.002	85	232501	2.00	
91 n-Decane	57	18.792	18.793	-0.001	89	383736	1.93	
92 tert-Butylbenzene	119	18.937	18.937	0.0	87	563181	1.78	
93 1,2,4-Trimethylbenzene	105	18.948	18.949	-0.001	95	510168	1.81	
94 sec-Butylbenzene	105	19.195	19.196	-0.001	98	753094	1.82	
95 1,3-Dichlorobenzene	146	19.217	19.217	-0.001	99	312974	1.69	
96 Benzyl chloride	91	19.286	19.288	-0.002	98	376583	1.79	
97 1,4-Dichlorobenzene	146	19.303	19.302	0.001	94	286084	1.66	
98 4-Isopropyltoluene	119	19.351	19.352	-0.001	88	611347	1.84	
99 1,2,3-Trimethylbenzene	105	19.410	19.409	0.001	98	421832	1.84	
100 Butylcyclohexane	83	19.459	19.460	-0.001	93	480940	1.84	
101 2,3-Dihydroindene	117	19.652	19.653	-0.001	89	462728	1.80	
102 1,2-Dichlorobenzene	146	19.652	19.653	-0.001	80	310746	1.72	
103 n-Butylbenzene	91	19.776	19.777	-0.001	97	566214	1.84	
104 Indene	116	19.781	19.781	0.0	86	427230	1.90	
105 Undecane	57	20.066	20.068	-0.002	96	366563	1.83	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.136	20.138	-0.002	97	564256	1.82	
108 1,2,4,5-Tetramethylbenzene	119	20.524	20.525	-0.001	96	585097	1.87	
107 1,2,3,5-Tetramethylbenzene	119	20.583	20.582	0.001	95	360803	1.77	
109 1,2,3,4-Tetramethylbenzene	119	20.997	20.998	-0.001	96	458134	1.81	
110 Dodecane	57	21.148	21.148	0.0	95	378646	1.83	
111 1,2,4-Trichlorobenzene	180	21.379	21.379	0.0	94	143447	1.78	
112 Naphthalene	128	21.524	21.527	-0.003	99	394479	1.73	
113 Benzo(b)thiophene	134	21.632	21.631	0.001	99	259843	1.68	
114 Hexachlorobutadiene	225	21.729	21.729	0.0	84	268985	1.63	
115 1,2,3-Trichlorobenzene	180	21.799	21.800	-0.001	95	178007	1.71	
116 2-Methylnaphthalene	142	22.450	22.449	0.001	98	307709	12.7	
117 1-Methylnaphthalene	142	22.584	22.583	0.001	96	331073	13.2	
139 Isopropyl ether	45	8.791	8.794	-0.003	97	479467	NR	
142 Tert-butyl ethyl ether	59	9.480	9.487	-0.007	95	438027	NR	
140 Tert-amyl methyl ether	73	11.475	11.482	-0.007	92	413190	NR	
A 118 C6 Range	1	8.640	8.571 -	8.710	0	2011864	1.96	
A 122 Toluene Range	1	14.262	14.232 -	14.292	0	1258419	1.92	
A 123 C8 Range	1	14.927	14.881 -	14.988	0	1829147	1.80	
S 124 Xylenes, Total	100				0		5.51	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ICIS L6

Lab Sample ID:

Worklist Smp#: 7

Client ID:

Purge Vol: 500.000 mL

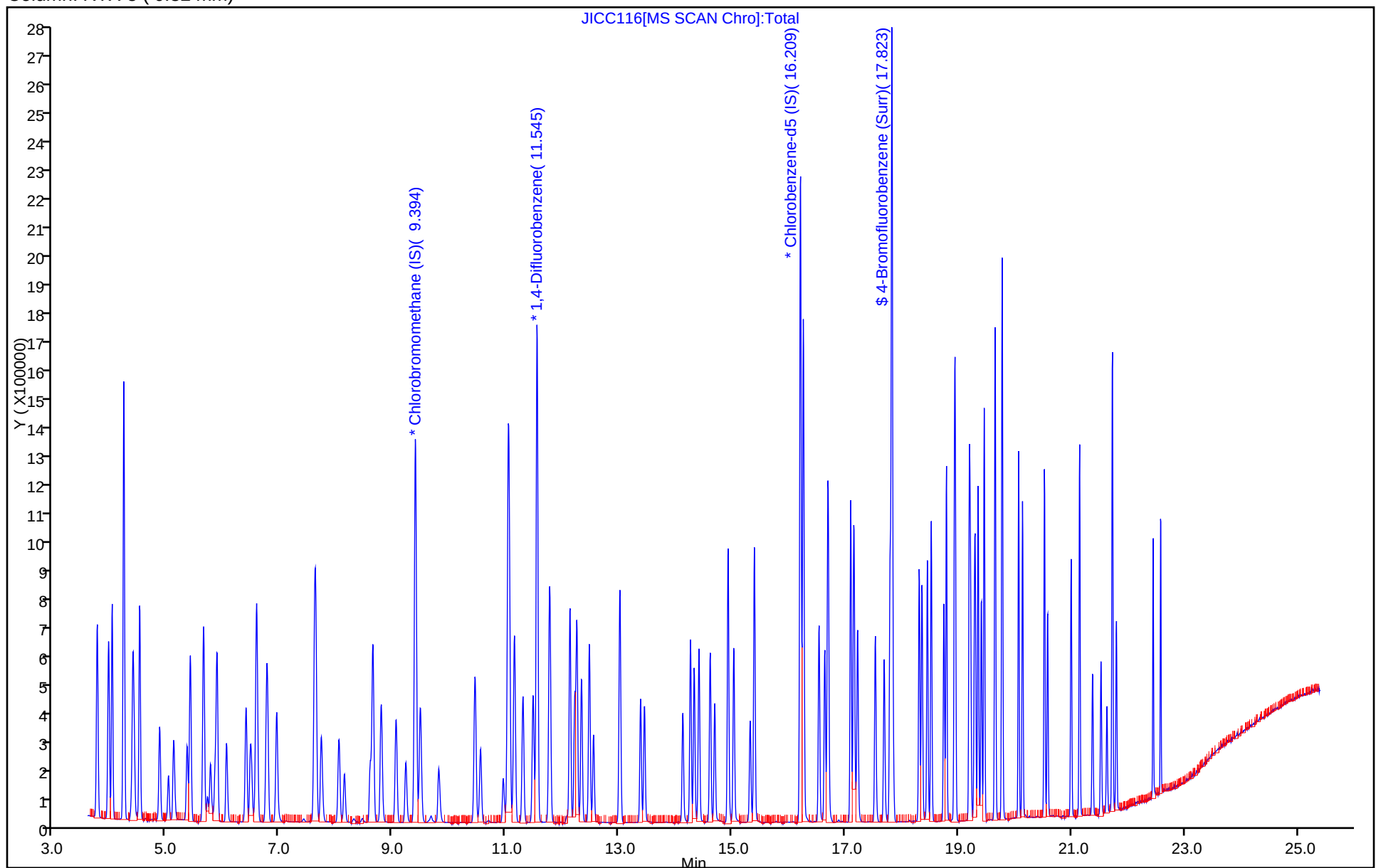
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Lims ID: ICIS L6

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

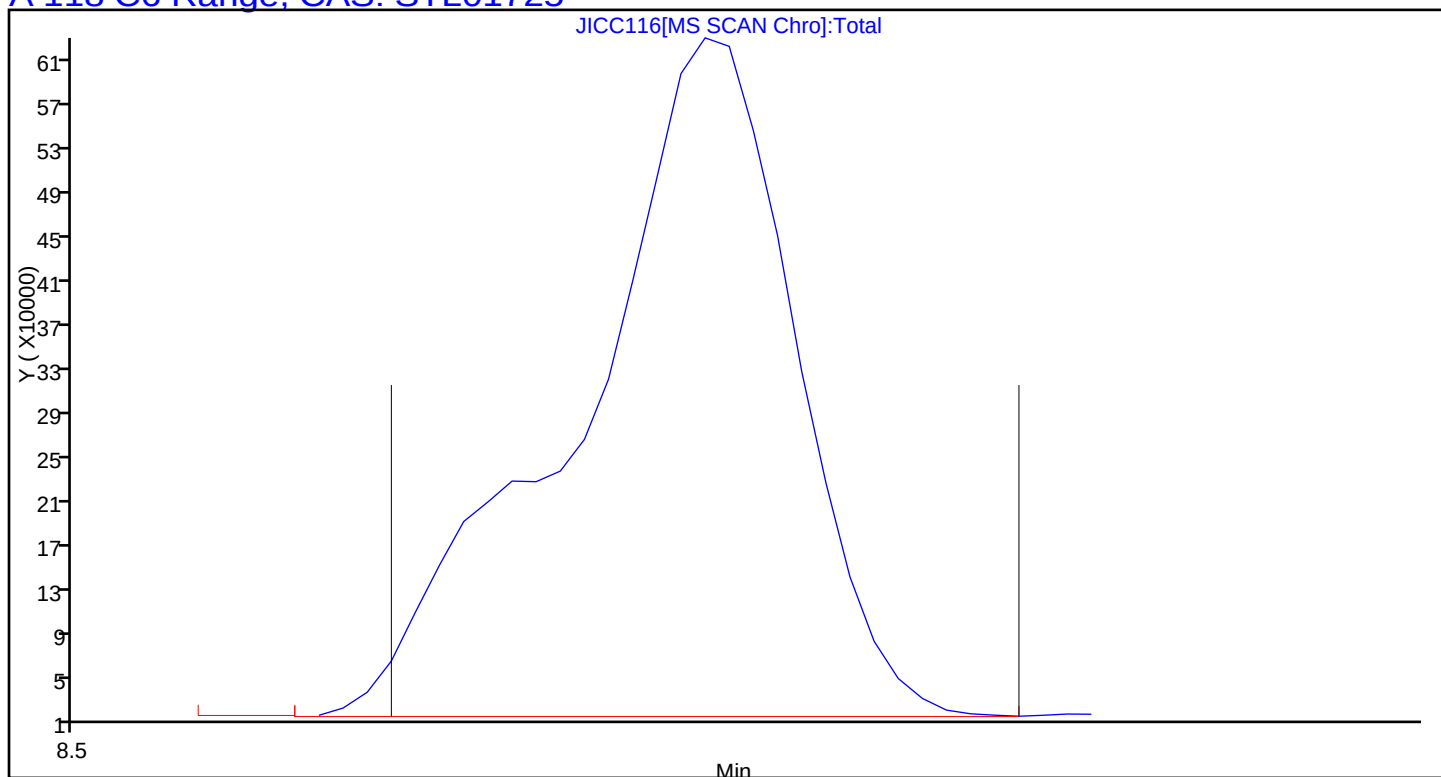
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Lims ID: ICIS L6

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 7

Purge Vol: 500.000 mL

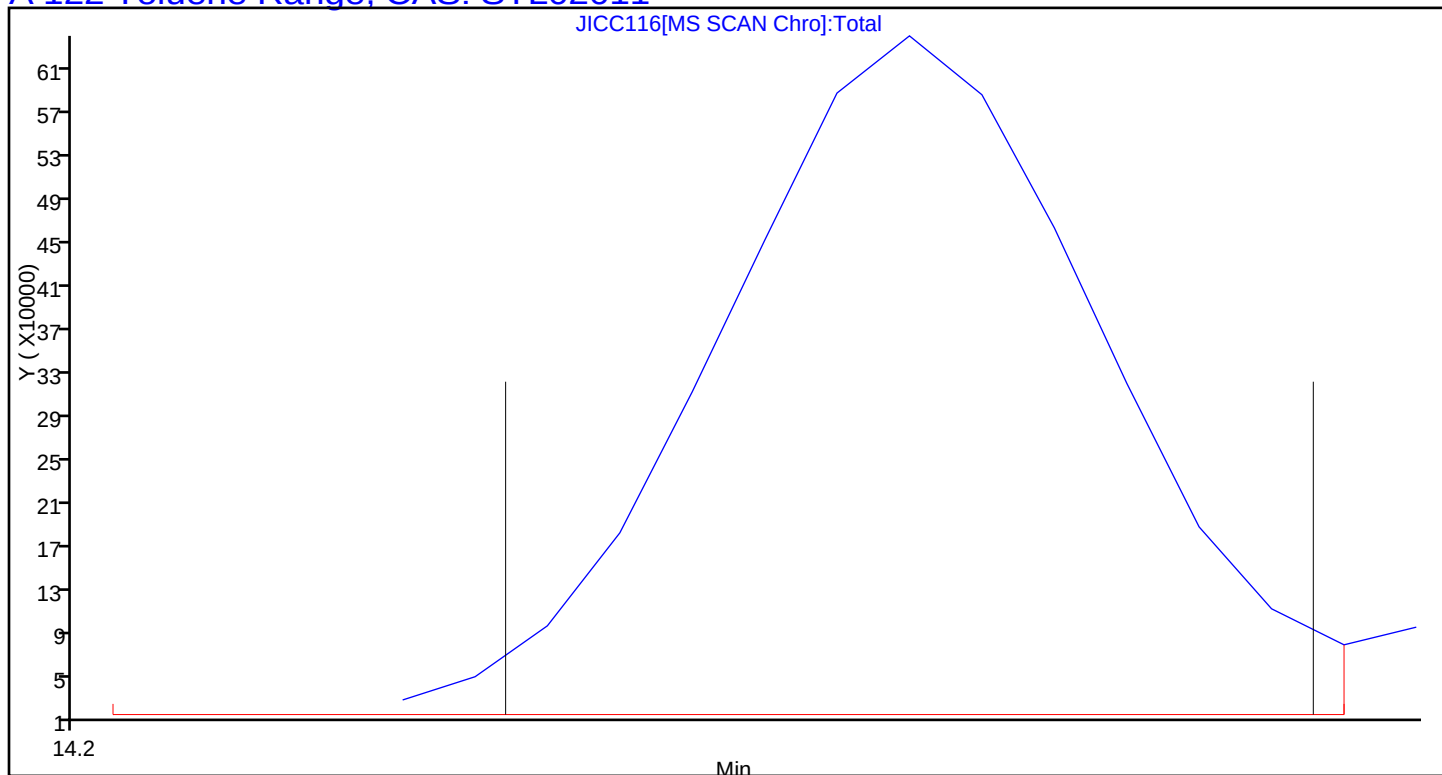
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Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011

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Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC116.D

Injection Date: 11-Mar-2014 17:11:30

Instrument ID: MJ

Lims ID: ICIS L6

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 7

Purge Vol: 500.000 mL

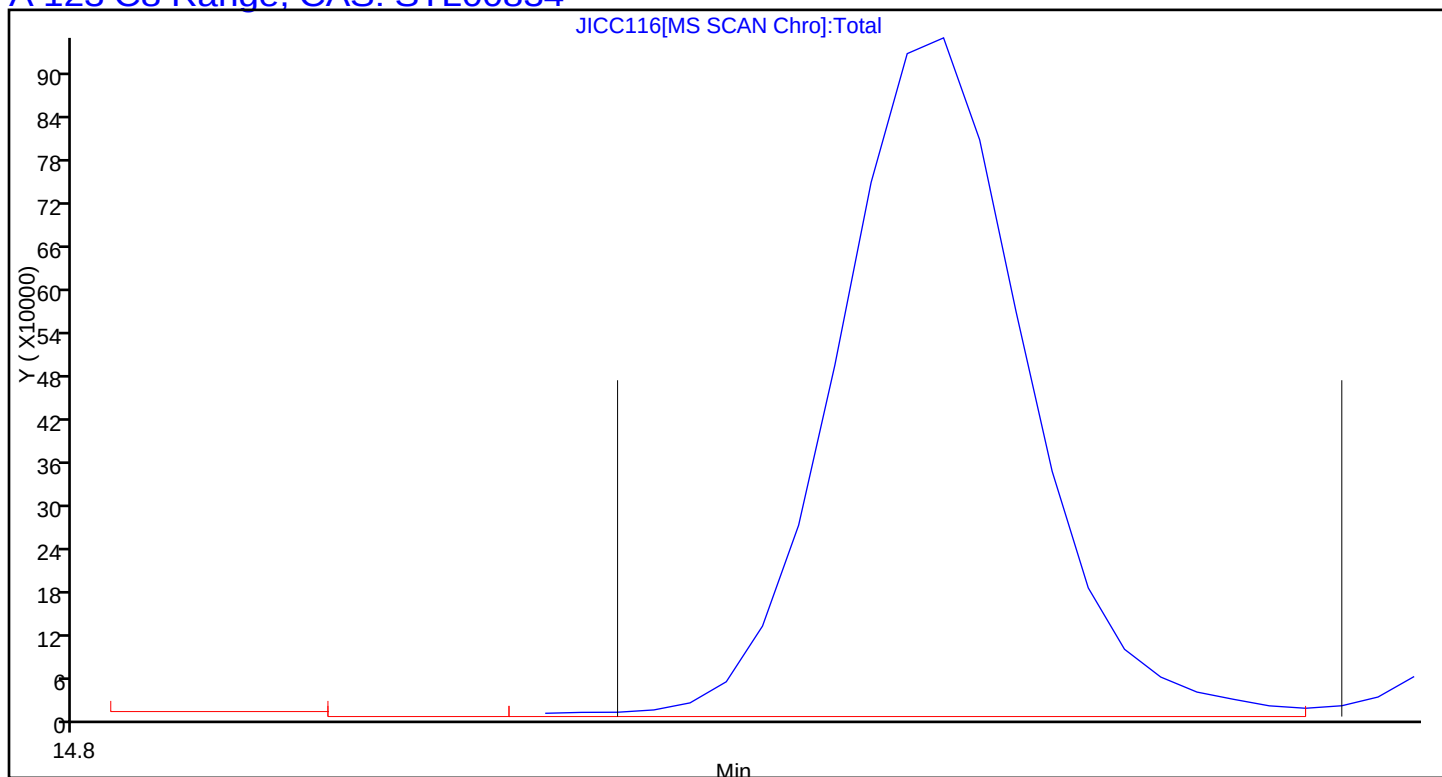
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D
 Lims ID: IC L7 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-Mar-2014 18:06:30 ALS Bottle#: 13 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL7,,1,7,,ICAL 4
 Misc. Info.: J031114I,TO15,,140-0000516-008
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:57 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.391	9.392	-0.001	93	348015	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	92	1571787	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1348573	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.826	17.825	0.001	89	982151	4.12	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	127336	3.55	
7 Propene	41	3.973	3.973	0.0	99	380299	3.56	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	1288306	3.74	
9 Chloromethane	52	4.232	4.230	0.002	99	142083	3.63	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	1010496	3.88	
11 Acetaldehyde	44	4.398	4.398	0.0	98	590590	17.2	
12 Vinyl chloride	62	4.420	4.419	0.001	99	481131	3.73	
14 Butadiene	54	4.517	4.517	0.0	66	332507	3.71	
13 Butane	43	4.517	4.517	0.0	85	651614	3.55	
15 Bromomethane	94	4.872	4.871	0.001	99	483336	3.68	
16 Chloroethane	64	5.028	5.027	0.001	99	220811	3.72	
17 Ethanol	31	5.119	5.122	-0.003	95	536616	19.2	
18 Vinyl bromide	106	5.356	5.357	-0.001	97	427699	3.83	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	537867	3.64	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	97	1161422	3.84	
21 Acrolein	56	5.646	5.650	-0.004	24	99357	3.50	
22 Acetonitrile	40	5.716	5.720	-0.004	99	106520	3.39	
23 Acetone	58	5.770	5.776	-0.006	91	119169	2.41	
24 Isopropyl alcohol	45	5.851	5.858	-0.007	98	503623	3.86	
25 Pentane	72	5.883	5.884	-0.001	98	73196	3.91	
26 Ethyl ether	31	6.050	6.059	-0.009	94	329259	3.62	
27 1,1-Dichloroethene	96	6.400	6.399	0.001	98	372110	3.81	
28 2-Methyl-2-propanol	59	6.475	6.487	-0.012	94	583041	3.62	
29 Acrylonitrile	53	6.496	6.498	-0.002	93	192415	3.72	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.586	-0.004	95	813723	3.88	
31 Methylene Chloride	84	6.760	6.759	0.001	95	352418	3.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	92	355060	3.67	
33 Carbon disulfide	76	6.943	6.942	0.001	99	1258326	3.84	
34 trans-1,2-Dichloroethene	96	7.610	7.609	0.001	99	451426	3.84	
35 2-Methylpentane	43	7.631	7.631	0.0	95	1006835	3.75	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	673998	3.79	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	703411	3.83	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	596834	3.71	
39 2-Butanone (MEK)	72	8.594	8.601	-0.007	100	125222	3.80	
40 Hexane	56	8.643	8.642	0.001	88	346825	3.71	
41 cis-1,2-Dichloroethene	96	9.052	9.052	0.0	94	388357	3.87	
42 Ethyl acetate	43	9.224	9.229	-0.005	99	549427	3.83	
43 Chloroform	83	9.401	9.403	-0.002	96	755016	3.72	
44 Tetrahydrofuran	42	9.805	9.816	-0.011	94	291715	3.62	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	807351	3.82	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	96	473508	3.88	
47 n-Butanol	31	10.945	10.958	-0.013	89	133536	3.89	
48 Benzene	78	11.031	11.033	-0.002	97	1059675	3.93	
49 Cyclohexane	69	11.042	11.040	0.002	93	212371	3.99	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	99	893077	4.01	
51 2,3-Dimethylpentane	71	11.150	11.148	0.002	91	243353	3.82	
52 Thiophene	84	11.300	11.297	0.003	96	650293	3.90	
53 Isooctane	57	11.774	11.771	0.003	98	1747868	3.80	
54 n-Heptane	71	12.129	12.130	-0.001	92	367648	3.85	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	85	352739	3.87	
56 Trichloroethene	130	12.252	12.252	0.0	93	487687	3.73	
57 Dibromomethane	93	12.333	12.332	0.001	92	456395	3.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	749991	3.94	
58 1,4-Dioxane	88	12.473	12.483	-0.010	37	131505	4.03	
60 Methyl methacrylate	41	12.548	12.548	0.0	91	333332	4.08	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	683968	3.77	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	661355	4.01	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	94	507092	3.92	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	97	446194	3.99	
65 Toluene	91	14.264	14.262	0.002	94	985546	3.94	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	313466	3.95	
67 2-Methylthiophene	97	14.415	14.413	0.002	97	895031	3.98	
68 3-Methylthiophene	97	14.614	14.612	0.002	99	900038	3.99	
69 2-Hexanone	58	14.689	14.694	-0.005	93	329061	4.02	
70 n-Octane	85	14.926	14.928	-0.002	93	363887	3.96	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	735197	4.20	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	539062	3.97	
73 Tetrachloroethene	129	15.394	15.393	0.001	93	437989	3.76	
75 Chlorobenzene	112	16.255	16.256	-0.001	94	827157	3.87	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	94	1076318	3.91	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	1067867	3.86	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	98	856076	3.95	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	99	1665289	7.47	
79 n-Nonane	57	17.099	17.098	0.001	92	701033	4.04	
81 Bromoform	173	17.148	17.149	-0.001	94	603733	4.37	
80 Styrene	104	17.158	17.157	0.001	97	638753	4.17	
82 o-Xylene	91	17.218	17.220	-0.002	96	854151	3.78	
83 1,1,2,2-Tetrachloroethane	83	17.535	17.534	0.001	99	731970	3.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	174026	3.93	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	1246662	3.87	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	337130	3.97	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	335960	3.79	
88 4-Ethyltoluene	105	18.455	18.454	0.001	97	1212360	4.04	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	93	586616	3.89	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	86	498439	4.61	
91 n-Decane	57	18.794	18.793	0.001	89	760833	4.11	
92 tert-Butylbenzene	119	18.939	18.937	0.002	88	1160846	3.94	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	94	1046672	4.00	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	1534847	3.99	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	649208	3.77	
96 Benzyl chloride	91	19.289	19.288	0.001	98	804987	4.12	
97 1,4-Dichlorobenzene	146	19.300	19.302	-0.002	94	593980	3.71	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	1253285	4.07	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	842178	3.95	
100 Butylcyclohexane	83	19.461	19.460	0.001	94	943677	3.87	
101 2,3-Dihydroindene	117	19.655	19.653	0.002	89	948230	3.96	
102 1,2-Dichlorobenzene	146	19.655	19.653	0.002	82	646950	3.84	
103 n-Butylbenzene	91	19.778	19.777	0.001	97	1183694	4.14	
104 Indene	116	19.778	19.781	-0.003	86	918630	4.39	
105 Undecane	57	20.069	20.068	0.001	96	752219	4.04	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	96	1174726	4.07	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	1242657	4.28	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	763734	4.03	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	97	969881	4.13	
110 Dodecane	57	21.145	21.148	-0.003	95	748275	3.88	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	317385	4.24	
112 Naphthalene	128	21.527	21.527	0.0	99	840765	3.96	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	569891	3.96	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	564546	3.69	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	366981	3.79	
116 2-Methylnaphthalene	142	22.447	22.449	-0.003	96	634411	28.1	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	631891	27.2	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	915837	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	861034	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	88	814994	NR	
A 118 C6 Range	1	8.643	8.573 -	8.713	0	3810714	3.75	
A 122 Toluene Range	1	14.264	14.234 -	14.294	0	2348373	3.85	
A 123 C8 Range	1	14.926	14.878 -	14.974	0	3391784	3.59	
S 124 Xylenes, Total	100				0		11.2	

Report Date: 14-Mar-2014 14:44:57

Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L7

Lab Sample ID:

Worklist Smp#: 8

Client ID:

Purge Vol: 500.000 mL

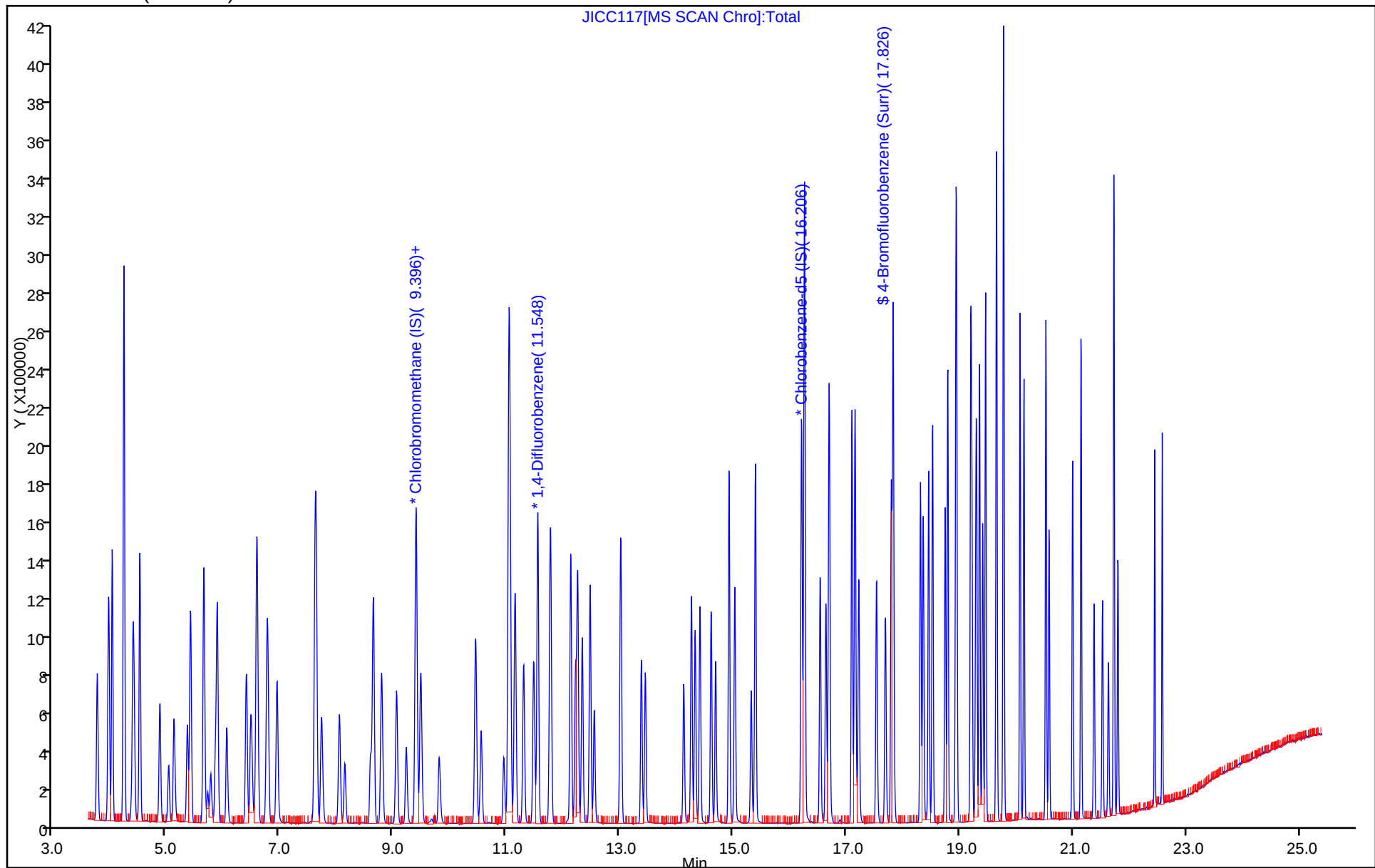
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30

Instrument ID: MJ

Lims ID: IC L7

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 8

Purge Vol: 500.000 mL

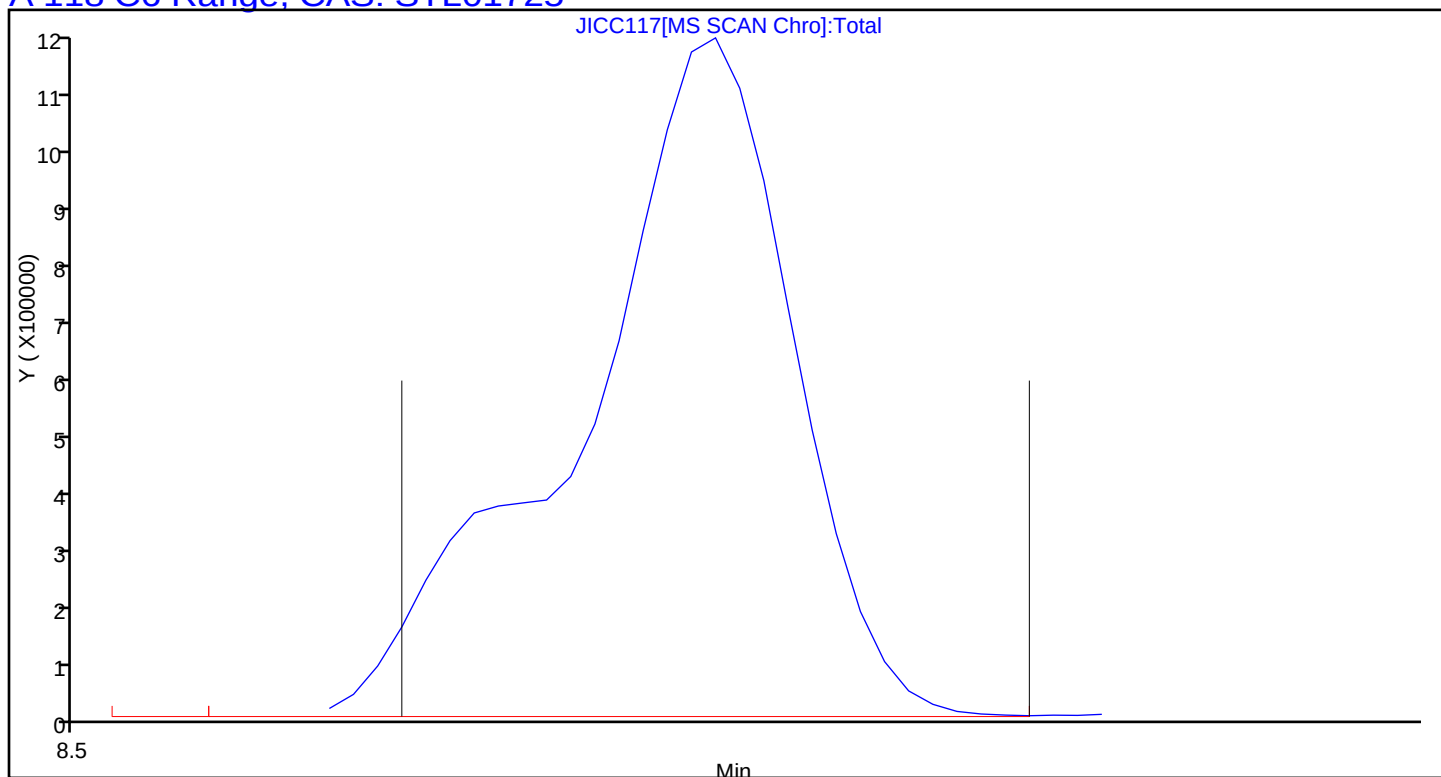
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30

Instrument ID: MJ

Lims ID: IC L7

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 8

Purge Vol: 500.000 mL

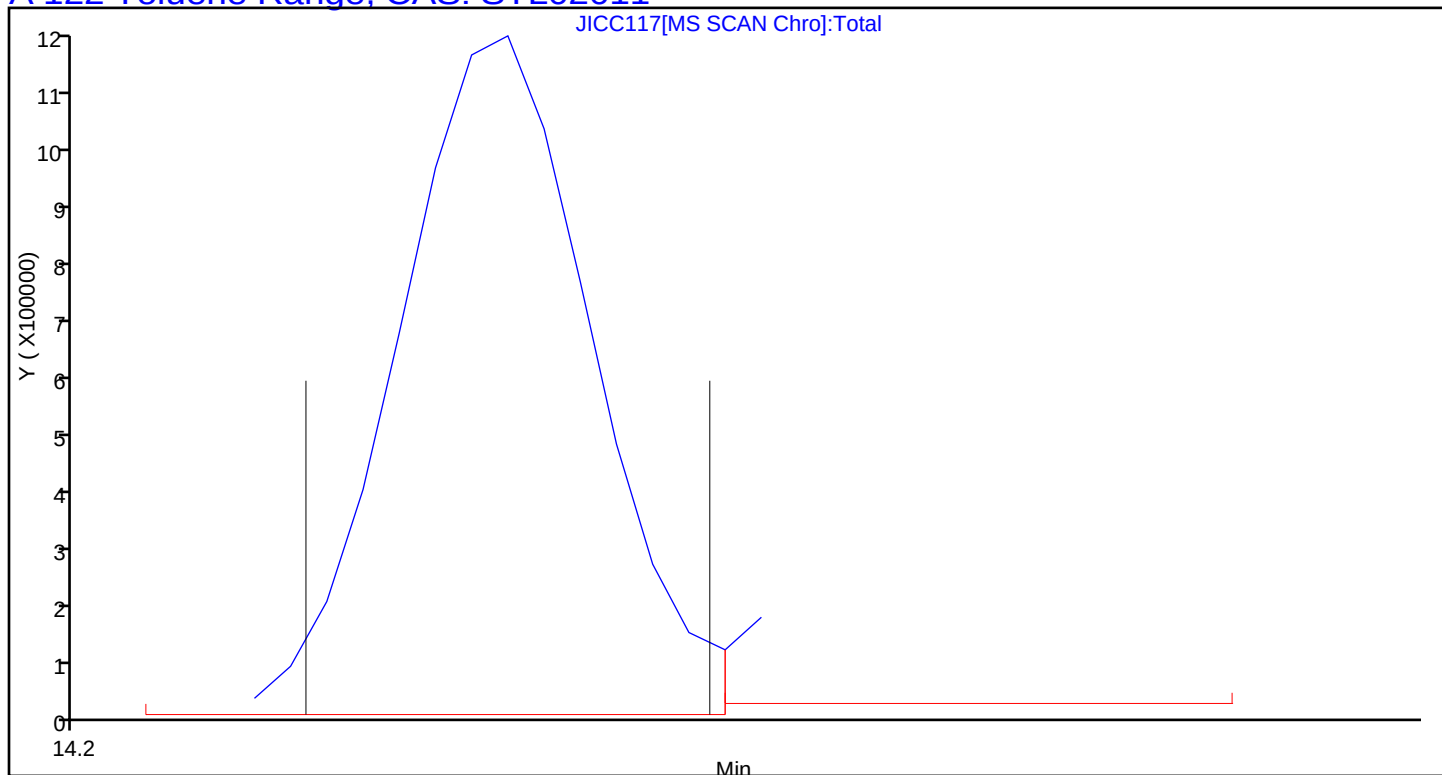
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC117.D

Injection Date: 11-Mar-2014 18:06:30

Instrument ID: MJ

Lims ID: IC L7

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 8

Purge Vol: 500.000 mL

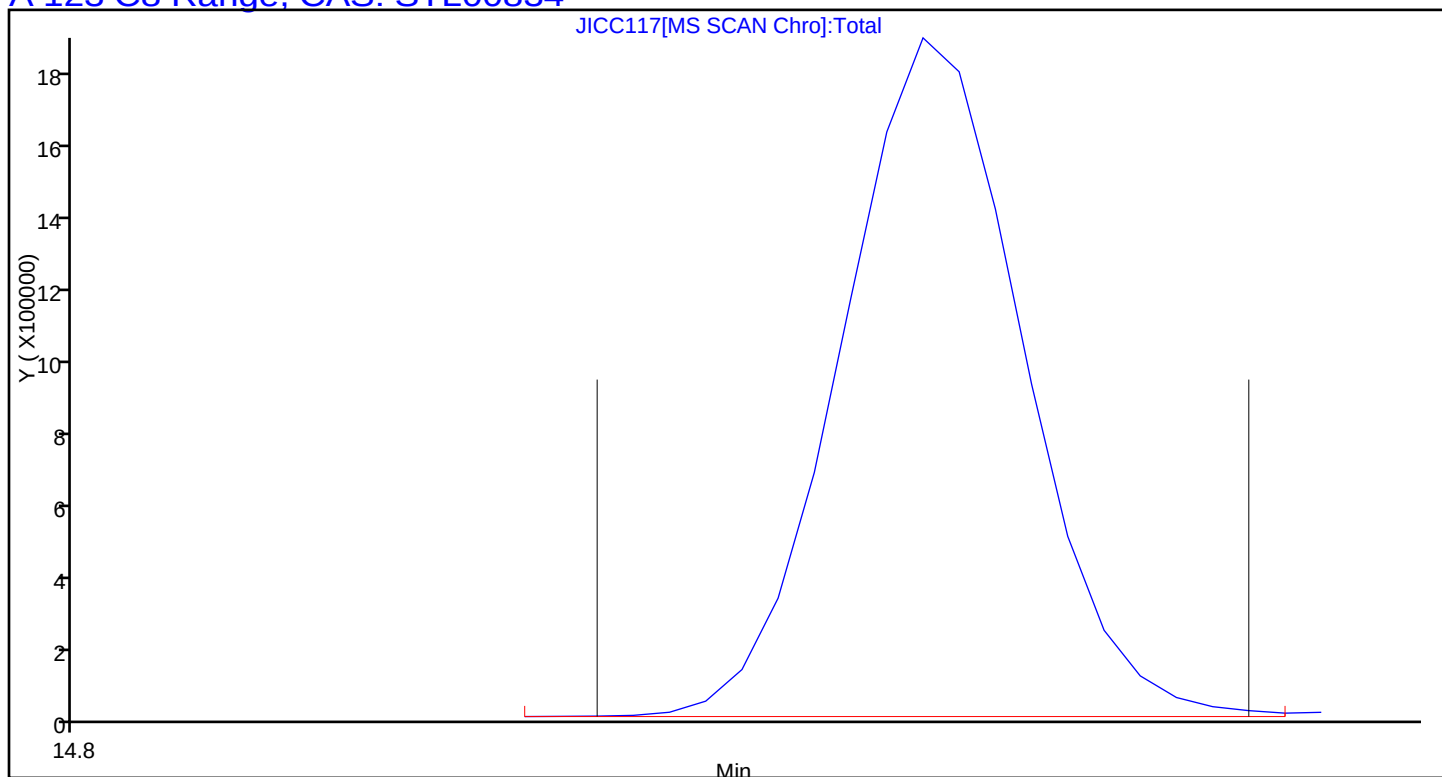
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D
 Lims ID: IC L8 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 11-Mar-2014 19:02:30 ALS Bottle#: 14 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL8,,1,8,,ICAL 8
 Misc. Info.: J031114I,TO15,,140-0000516-009
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:50 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.397	9.392	0.005	91	318482	4.00	
* 2 1,4-Difluorobenzene	114	11.549	11.547	0.002	92	1412691	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.208	16.208	0.0	87	1299560	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.827	17.825	0.002	89	938909	4.08	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	97	267278	8.13	
7 Propene	41	3.969	3.973	-0.004	99	770175	7.89	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	99	2653935	8.41	
9 Chloromethane	52	4.228	4.230	-0.002	98	285173	7.96	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.238	4.238	0.0	88	2110535	8.86	
11 Acetaldehyde	44	4.400	4.398	0.002	96	1285979	40.9	
12 Vinyl chloride	62	4.416	4.419	-0.003	99	984783	8.34	
14 Butadiene	54	4.518	4.517	0.001	68	680934	8.30	
13 Butane	43	4.518	4.517	0.001	85	1303426	7.76	
15 Bromomethane	94	4.873	4.871	0.002	99	1011303	8.42	
16 Chloroethane	64	5.029	5.027	0.002	99	455037	8.38	
17 Ethanol	31	5.126	5.122	0.004	94	988374	38.7	
18 Vinyl bromide	106	5.357	5.357	0.0	98	901463	8.83	
19 2-Methylbutane	43	5.411	5.411	0.0	92	1083786	8.01	
20 Trichlorofluoromethane	101	5.648	5.647	0.001	99	2393900	8.64	
21 Acrolein	56	5.648	5.650	-0.002	51	250642	9.64	
22 Acetonitrile	40	5.718	5.720	-0.002	99	251140	8.75	
23 Acetone	58	5.772	5.776	-0.004	77	235590	5.20	
24 Isopropyl alcohol	45	5.858	5.858	0.0	98	1005537	8.41	
25 Pentane	72	5.884	5.884	0.0	98	151771	8.86	
26 Ethyl ether	31	6.051	6.059	-0.008	94	699710	8.40	
27 1,1-Dichloroethene	96	6.401	6.399	0.002	98	763429	8.54	
28 2-Methyl-2-propanol	59	6.482	6.487	-0.005	94	1230118	8.35	
29 Acrylonitrile	53	6.498	6.498	0.0	92	432058	9.13	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.584	6.586	-0.002	96	1646524	8.57	
31 Methylene Chloride	84	6.761	6.759	0.002	94	670417	7.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.783	6.778	0.005	94	664240	7.49	
33 Carbon disulfide	76	6.944	6.942	0.002	99	2556516	8.53	
34 trans-1,2-Dichloroethene	96	7.611	7.609	0.002	99	850575	7.90	
35 2-Methylpentane	43	7.633	7.631	0.002	96	1918287	7.81	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	1374295	8.45	
37 1,1-Dichloroethane	63	8.042	8.041	0.001	100	1269839	7.56	
38 Vinyl acetate	43	8.138	8.141	-0.003	100	1340341	9.10	
39 2-Butanone (MEK)	72	8.596	8.601	-0.005	100	243895	8.09	
40 Hexane	56	8.644	8.642	0.002	90	651848	7.61	
41 cis-1,2-Dichloroethene	96	9.053	9.052	0.001	94	706076	7.68	
42 Ethyl acetate	43	9.225	9.229	-0.004	99	1084225	8.26	
43 Chloroform	83	9.408	9.403	0.005	97	1379316	7.43	
44 Tetrahydrofuran	42	9.806	9.816	-0.010	93	599765	8.13	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	1426505	7.38	
46 1,2-Dichloroethane	62	10.548	10.547	0.001	96	840072	7.67	
47 n-Butanol	31	10.947	10.958	-0.011	86	287181	9.30	
48 Benzene	78	11.033	11.033	0.0	97	1886757	7.78	
49 Cyclohexane	69	11.043	11.040	0.003	90	372992	7.80	
50 Carbon tetrachloride	117	11.060	11.059	0.001	99	1616119	8.07	
51 2,3-Dimethylpentane	71	11.151	11.148	0.003	92	450381	7.88	
52 Thiophene	84	11.302	11.297	0.005	96	1166754	7.79	
53 Isooctane	57	11.775	11.771	0.004	98	3277019	7.92	
54 n-Heptane	71	12.130	12.130	0.0	91	706282	8.24	
55 1,2-Dichloropropane	63	12.216	12.214	0.002	85	610860	7.46	
56 Trichloroethene	130	12.254	12.252	0.002	96	953846	8.11	
57 Dibromomethane	93	12.334	12.332	0.002	93	853084	7.91	
59 Dichlorobromomethane	83	12.474	12.472	0.002	99	1438067	8.41	
58 1,4-Dioxane	88	12.474	12.483	-0.009	36	263409	8.97	
60 Methyl methacrylate	41	12.544	12.548	-0.004	91	682355	9.28	
61 Methylcyclohexane	83	13.012	13.013	-0.001	96	1256319	7.70	
62 4-Methyl-2-pentanone (MIBK)	43	13.378	13.382	-0.004	97	1423315	9.61	
63 cis-1,3-Dichloropropene	75	13.448	13.448	0.0	94	928432	7.99	
64 trans-1,3-Dichloropropene	75	14.126	14.126	0.0	97	879585	8.17	
65 Toluene	91	14.266	14.262	0.004	94	1869974	7.76	
66 1,1,2-Trichloroethane	83	14.330	14.328	0.002	96	586633	7.68	
67 2-Methylthiophene	97	14.416	14.413	0.003	97	1636492	7.55	
68 3-Methylthiophene	97	14.615	14.612	0.003	99	1654764	7.61	
69 2-Hexanone	58	14.691	14.694	-0.003	94	755508	9.57	
70 n-Octane	85	14.927	14.928	-0.001	92	718344	8.12	
71 Chlorodibromomethane	129	15.030	15.027	0.003	95	1496245	8.87	
72 Ethylene Dibromide	107	15.320	15.317	0.003	98	1055365	8.06	
73 Tetrachloroethene	129	15.395	15.393	0.002	95	851426	7.58	
75 Chlorobenzene	112	16.256	16.256	0.0	92	1616541	7.85	
74 2,3-Dimethylheptane	43	16.261	16.260	0.001	91	1960561	7.39	
76 Ethylbenzene	91	16.536	16.536	0.0	98	2251254	8.45	
77 2-Ethylthiophene	97	16.638	16.638	0.0	97	1757131	8.42	
78 m-Xylene & p-Xylene	91	16.697	16.696	0.001	98	3582524	16.7	
79 n-Nonane	57	17.101	17.098	0.003	90	1384118	8.28	
81 Bromoform	173	17.149	17.149	0.0	94	1345387	10.1	
80 Styrene	104	17.160	17.157	0.003	97	1446724	9.80	
82 o-Xylene	91	17.219	17.220	-0.001	97	1860295	8.54	
83 1,1,2,2-Tetrachloroethane	83	17.536	17.534	0.002	99	1658051	9.32	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.692	17.690	0.002	97	398010	9.32	
85 Isopropylbenzene	105	17.795	17.793	0.002	96	2789508	8.99	
86 N-Propylbenzene	120	18.311	18.310	0.001	99	814479	9.95	
87 2-Chlorotoluene	126	18.359	18.357	0.002	96	748591	8.76	
88 4-Ethyltoluene	105	18.456	18.454	0.002	97	2848420	9.84	
89 1,3,5-Trimethylbenzene	120	18.526	18.524	0.002	94	1440763	9.90	
90 Alpha Methyl Styrene	118	18.747	18.745	0.002	86	1265706	12.1	
91 n-Decane	57	18.795	18.793	0.002	90	1630218	9.15	
92 tert-Butylbenzene	119	18.940	18.937	0.003	88	2882125	10.1	
93 1,2,4-Trimethylbenzene	105	18.951	18.949	0.002	90	2560408	10.1	
94 sec-Butylbenzene	105	19.199	19.196	0.003	97	3698797	9.99	
95 1,3-Dichlorobenzene	146	19.220	19.217	0.003	98	1658482	10.0	
96 Benzyl chloride	91	19.290	19.288	0.002	99	2044904	10.8	
97 1,4-Dichlorobenzene	146	19.301	19.302	-0.001	95	1570678	10.2	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	87	3044134	10.3	
99 1,2,3-Trimethylbenzene	105	19.408	19.409	-0.001	97	2027503	9.86	
100 Butylcyclohexane	83	19.462	19.460	0.002	95	1999366	8.52	
101 2,3-Dihydroindene	117	19.656	19.653	0.003	90	2414878	10.5	
102 1,2-Dichlorobenzene	146	19.656	19.653	0.003	84	1699055	10.5	
103 n-Butylbenzene	91	19.780	19.777	0.003	97	2897714	10.5	
104 Indene	116	19.780	19.781	-0.001	86	2436478	12.1	
105 Undecane	57	20.070	20.068	0.002	94	1801735	10.0	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.140	20.138	0.002	96	2922288	10.5	
108 1,2,4,5-Tetramethylbenzene	119	20.527	20.525	0.002	97	3137565	11.2	
107 1,2,3,5-Tetramethylbenzene	119	20.581	20.582	-0.001	96	1875036	10.3	
109 1,2,3,4-Tetramethylbenzene	119	21.001	20.998	0.003	97	2444837	10.8	
110 Dodecane	57	21.146	21.148	-0.002	96	1806559	9.72	
111 1,2,4-Trichlorobenzene	180	21.377	21.379	-0.002	92	910586	12.6	
112 Naphthalene	128	21.528	21.527	0.001	99	2216472	10.8	
113 Benzo(b)thiophene	134	21.630	21.631	-0.001	99	1529823	11.0	
114 Hexachlorobutadiene	225	21.727	21.729	-0.002	85	1511092	10.2	
115 1,2,3-Trichlorobenzene	180	21.797	21.800	-0.003	94	979161	10.5	
116 2-Methylnaphthalene	142	22.448	22.449	-0.001	96	1671920	76.9	
117 1-Methylnaphthalene	142	22.582	22.583	-0.001	95	1506542	67.2	
139 Isopropyl ether	45	8.789	8.794	-0.005	97	1812554	NR	
142 Tert-butyl ethyl ether	59	9.483	9.487	-0.004	95	1742738	NR	
140 Tert-amyl methyl ether	73	11.474	11.482	-0.008	92	1719215	NR	
A 118 C6 Range	1	8.639	8.563 -	8.714	0	7329744	7.88	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	4461089	7.59	
A 123 C8 Range	1	14.927	14.879 -	14.976	0	6451566	7.09	
S 124 Xylenes, Total	100				0		25.2	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L8

Lab Sample ID:

Worklist Smp#: 9

Client ID:

Purge Vol: 500.000 mL

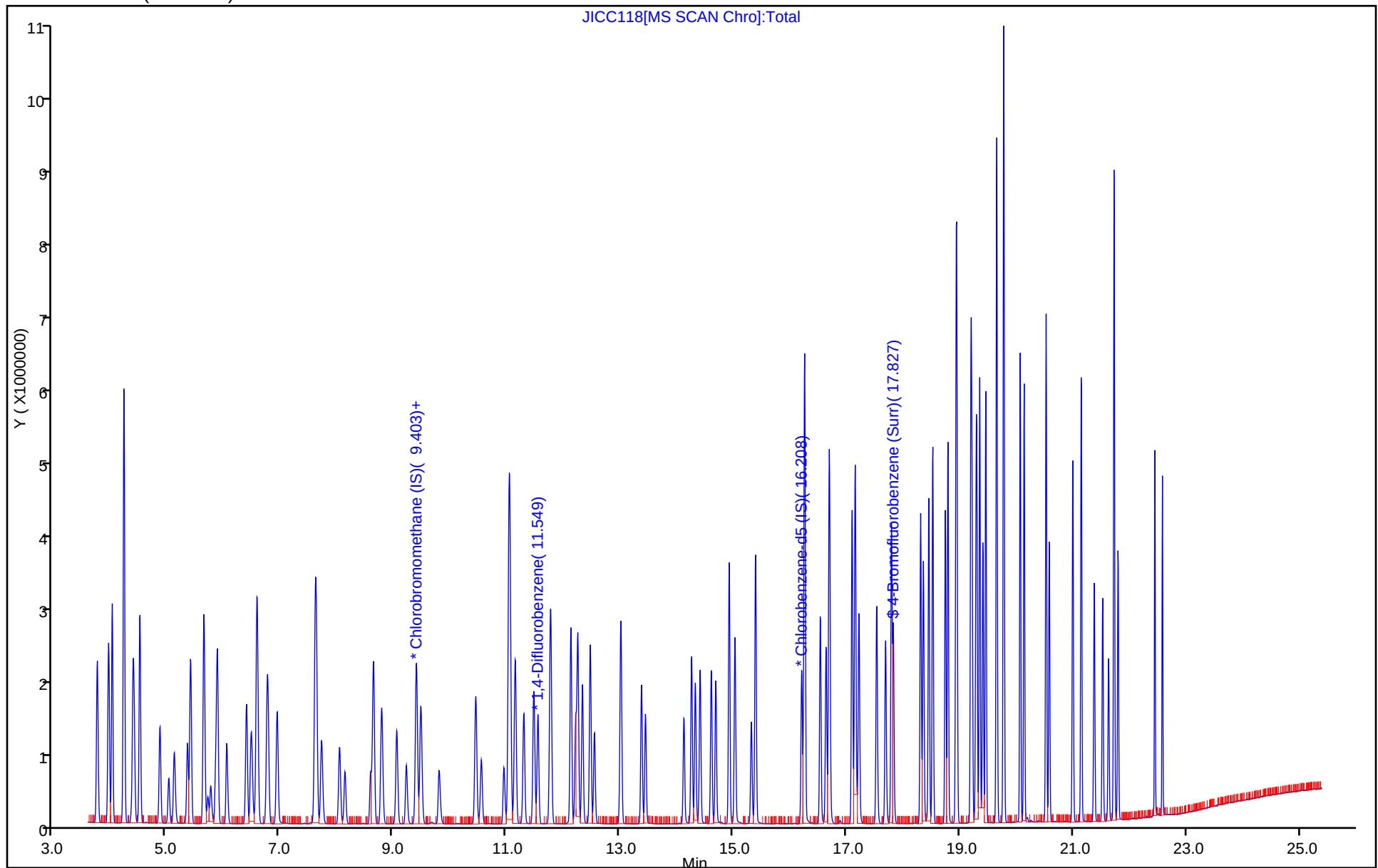
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30

Instrument ID: MJ

Lims ID: IC L8

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

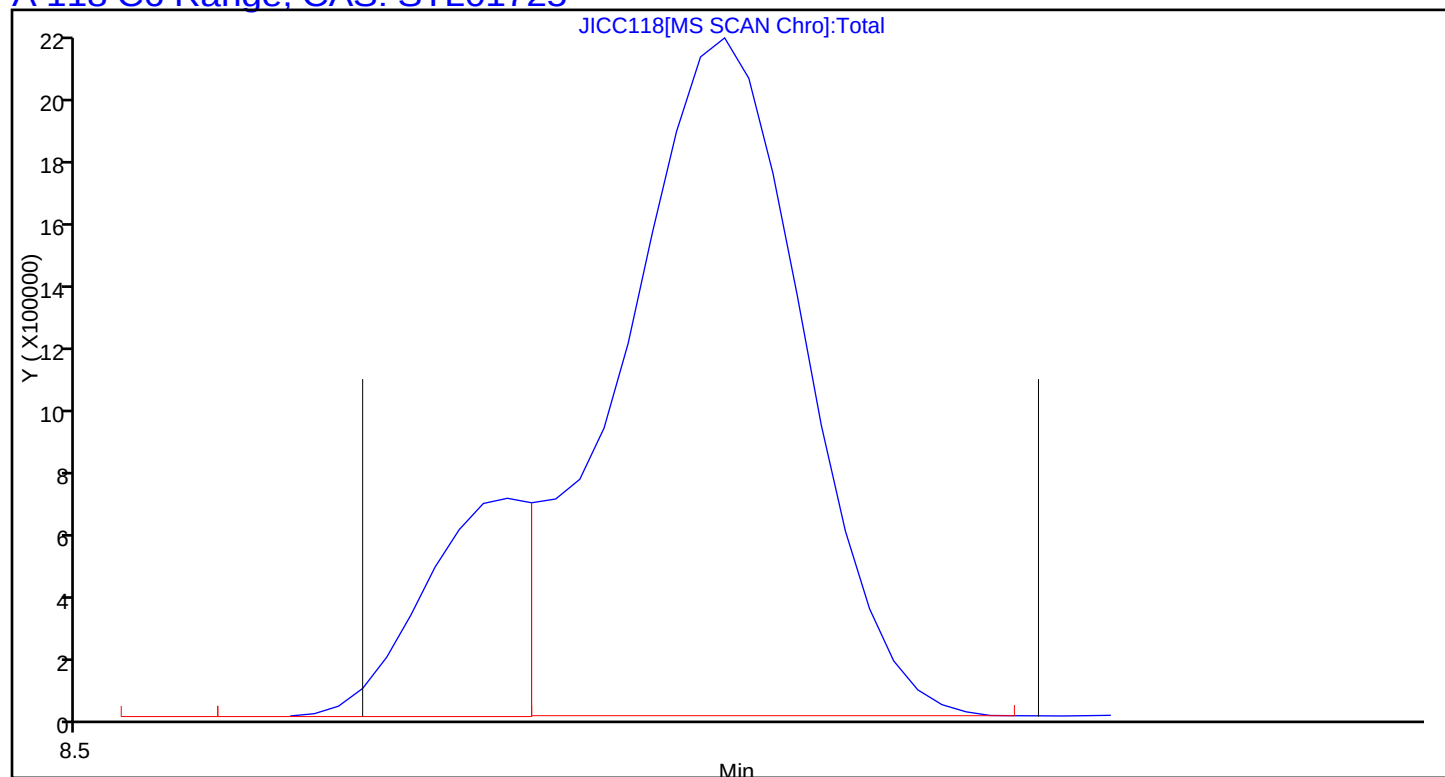
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30

Instrument ID: MJ

Lims ID: IC L8

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 9

Purge Vol: 500.000 mL

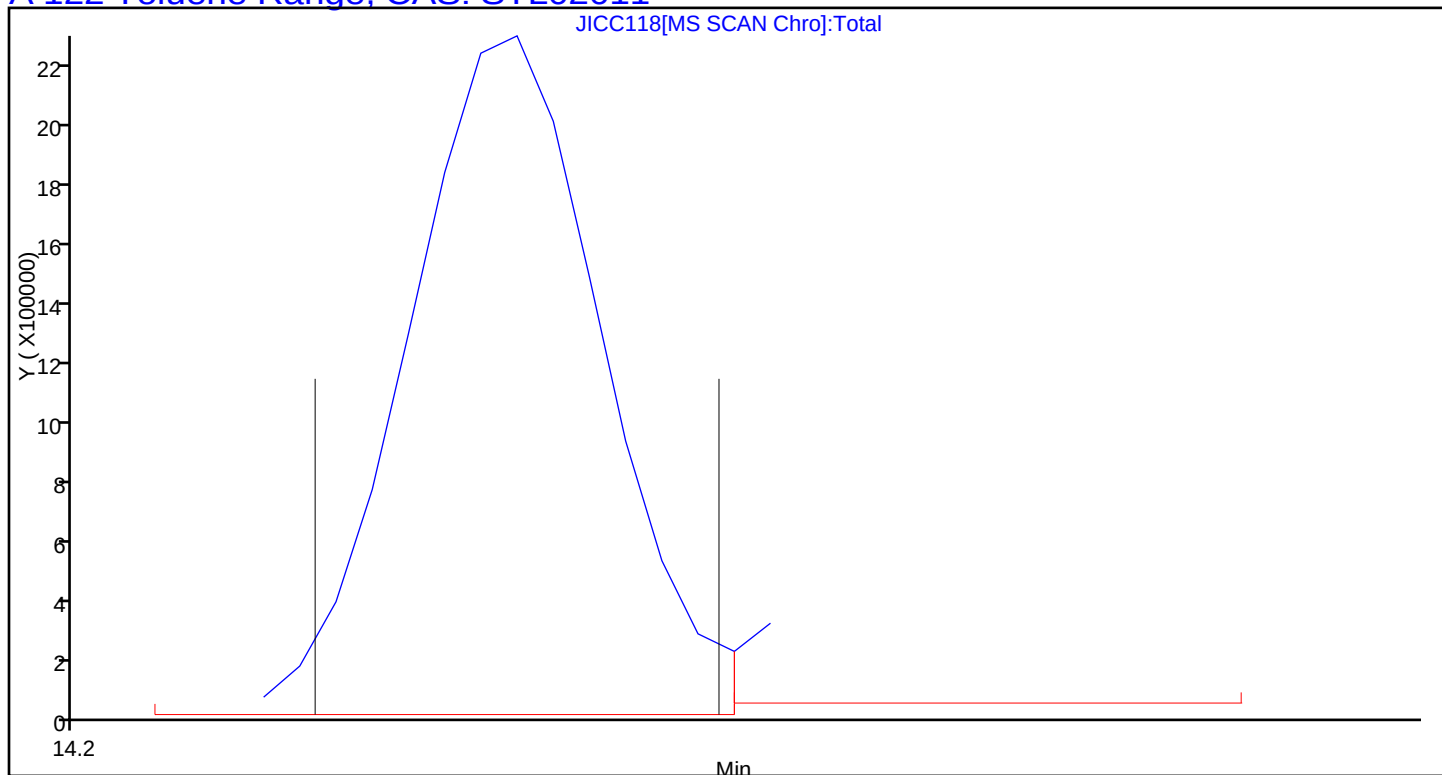
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011

Report Date: 14-Mar-2014 14:44:51

Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC118.D

Injection Date: 11-Mar-2014 19:02:30

Instrument ID: MJ

Lims ID: IC L8

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

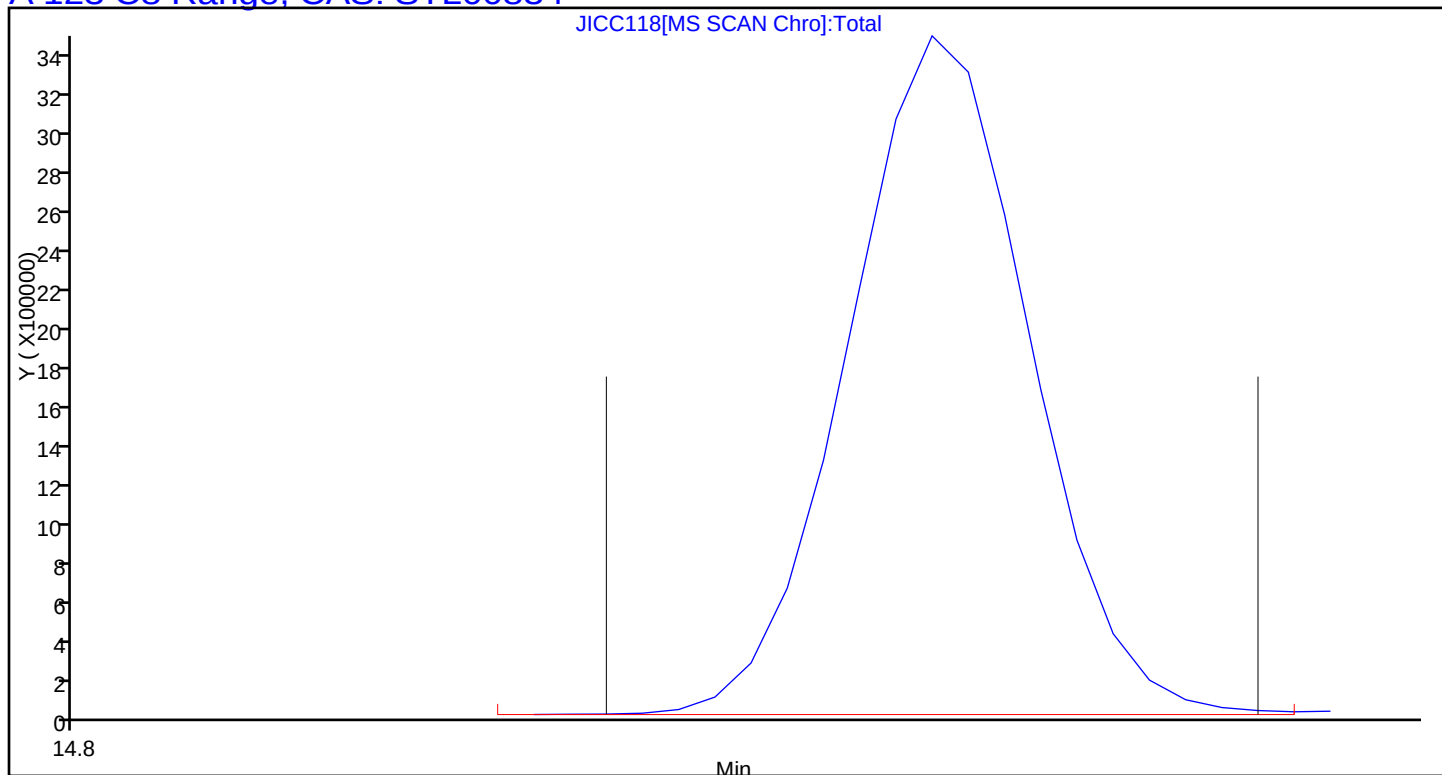
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Lims ID: IC L9 Lab Sample ID:
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 11-Mar-2014 19:57:30 ALS Bottle#: 15 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: ICAL9,,1,9,,ICAL 16
 Misc. Info.: J031114I,TO15,,140-0000516-010
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 14:44:43 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: barlozhetskayaa

Date: 14-Mar-2014 14:44:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.403	9.392	0.011	95	350824	4.00	
* 2 1,4-Difluorobenzene	114	11.555	11.547	0.008	89	1417201	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.214	16.208	0.006	86	1302893	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.828	17.825	0.003	89	942607	4.09	
6 Chlorodifluoromethane	67	3.959	3.960	-0.001	96	505684	14.0	
7 Propene	41	3.970	3.973	-0.003	99	1458925	13.6	
8 Dichlorodifluoromethane	85	4.029	4.029	0.0	98	4882515	14.1	
9 Chloromethane	52	4.228	4.230	-0.002	99	494916	12.5	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.238	0.001	85	3992171	15.2	
11 Acetaldehyde	44	4.401	4.398	0.003	96	2205919	63.7	
12 Vinyl chloride	62	4.422	4.419	0.003	99	1770210	13.6	
14 Butadiene	54	4.519	4.517	0.002	69	1224939	13.6	
13 Butane	43	4.519	4.517	0.002	84	2267439	12.3	
15 Bromomethane	94	4.874	4.871	0.003	99	1918491	14.5	
16 Chloroethane	64	5.030	5.027	0.003	99	852776	14.3	
17 Ethanol	31	5.132	5.122	0.010	93	1841235	65.4	
18 Vinyl bromide	106	5.363	5.357	0.006	99	1753642	15.6	
19 2-Methylbutane	43	5.417	5.411	0.006	91	1976924	13.3	
20 Trichlorofluoromethane	101	5.654	5.647	0.007	99	4559353	14.9	
21 Acrolein	56	5.654	5.650	0.004	82	437980	15.3	
22 Acetonitrile	40	5.724	5.720	0.004	99	477609	15.1	
23 Acetone	58	5.772	5.776	-0.004	77	454598	9.12	
24 Isopropyl alcohol	45	5.864	5.858	0.006	86	1891993	14.4	
25 Pentane	72	5.891	5.884	0.007	98	289822	15.4	
26 Ethyl ether	31	6.057	6.059	-0.002	95	1293462	14.1	
27 1,1-Dichloroethene	96	6.407	6.399	0.008	100	1499326	15.2	
28 2-Methyl-2-propanol	59	6.493	6.487	0.006	94	2357157	14.5	
29 Acrylonitrile	53	6.504	6.498	0.006	94	846522	16.2	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.590	6.586	0.004	97	3210350	15.2	
31 Methylene Chloride	84	6.767	6.759	0.008	92	1306630	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.789	6.778	0.011	94	1253863	12.8	
33 Carbon disulfide	76	6.945	6.942	0.003	99	4789123	14.5	
34 trans-1,2-Dichloroethene	96	7.617	7.609	0.008	96	1705804	14.4	
35 2-Methylpentane	43	7.639	7.631	0.008	92	3402713	12.6	
36 Methyl tert-butyl ether	73	7.730	7.738	-0.008	96	2584260	14.4	
37 1,1-Dichloroethane	63	8.048	8.041	0.007	100	2513809	13.6	
38 Vinyl acetate	43	8.145	8.141	0.004	100	2572051	15.9	
39 2-Butanone (MEK)	72	8.597	8.601	-0.005	100	487204	14.7	
40 Hexane	56	8.650	8.642	0.008	90	1264226	13.4	
41 cis-1,2-Dichloroethene	96	9.059	9.052	0.007	93	1451411	14.3	
42 Ethyl acetate	43	9.231	9.229	0.002	99	2092150	14.5	
43 Chloroform	83	9.414	9.403	0.011	97	2790275	13.6	
44 Tetrahydrofuran	42	9.807	9.816	-0.009	93	1179659	14.5	
45 1,1,1-Trichloroethane	97	10.452	10.450	0.002	96	2968435	13.9	
46 1,2-Dichloroethane	62	10.555	10.547	0.008	95	1727411	15.7	
47 n-Butanol	31	10.958	10.958	0.0	86	562689	18.2	
48 Benzene	78	11.039	11.033	0.006	97	3816101	15.7	
49 Cyclohexane	69	11.044	11.040	0.004	82	734107	15.3	
50 Carbon tetrachloride	117	11.060	11.059	0.001	98	3477511	17.3	
51 2,3-Dimethylpentane	71	11.152	11.148	0.004	91	895905	15.6	
52 Thiophene	84	11.302	11.297	0.005	95	2407949	16.0	
53 Isooctane	57	11.776	11.771	0.005	97	6188593	14.9	
54 n-Heptane	71	12.136	12.130	0.006	89	1414497	16.4	
55 1,2-Dichloropropane	63	12.222	12.214	0.008	90	1374081	16.7	
56 Trichloroethene	130	12.260	12.252	0.008	94	2020928	17.1	
57 Dibromomethane	93	12.341	12.332	0.009	95	1782109	16.5	
59 Dichlorobromomethane	83	12.475	12.472	0.003	99	2968189	17.3	
58 1,4-Dioxane	88	12.475	12.483	-0.008	55	535040	18.2	
60 Methyl methacrylate	41	12.550	12.548	0.002	89	1312475	17.8	
61 Methylcyclohexane	83	13.018	13.013	0.005	97	2529310	15.5	
62 4-Methyl-2-pentanone (MIBK)	43	13.384	13.382	0.002	97	2713031	18.3	
63 cis-1,3-Dichloropropene	75	13.454	13.448	0.006	92	2069482	17.7	
64 trans-1,3-Dichloropropene	75	14.132	14.126	0.006	97	1963516	18.2	
65 Toluene	91	14.266	14.262	0.004	92	4086312	16.9	
66 1,1,2-Trichloroethane	83	14.331	14.328	0.003	97	1314579	17.2	
67 2-Methylthiophene	97	14.417	14.413	0.004	96	3652163	16.8	
68 3-Methylthiophene	97	14.616	14.612	0.004	98	3714685	17.0	
69 2-Hexanone	58	14.697	14.694	0.003	95	1451418	18.3	
70 n-Octane	85	14.934	14.928	0.006	89	1469379	16.6	
71 Chlorodibromomethane	129	15.036	15.027	0.009	94	3347546	19.8	
72 Ethylene Dibromide	107	15.321	15.317	0.004	98	2473337	18.8	
73 Tetrachloroethene	129	15.396	15.393	0.003	97	1888055	16.8	
75 Chlorobenzene	112	16.262	16.256	0.006	97	3736744	18.1	
74 2,3-Dimethylheptane	43	16.268	16.260	0.008	85	3283977	12.3	
76 Ethylbenzene	91	16.542	16.536	0.006	97	4621160	17.3	
77 2-Ethylthiophene	97	16.644	16.638	0.006	96	3695934	17.7	
78 m-Xylene & p-Xylene	91	16.703	16.696	0.007	96	7138010	33.1	
79 n-Nonane	57	17.101	17.098	0.003	85	2746405	16.4	
81 Bromoform	173	17.155	17.149	0.006	95	3400531	25.5	
80 Styrene	104	17.161	17.157	0.004	96	3101488	21.0	
82 o-Xylene	91	17.225	17.220	0.005	99	3743538	17.1	
83 1,1,2,2-Tetrachloroethane	83	17.537	17.534	0.003	99	3301073	18.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.693	17.690	0.003	96	836915	19.6	
85 Isopropylbenzene	105	17.801	17.793	0.008	95	5530866	17.8	
86 N-Propylbenzene	120	18.312	18.310	0.002	97	1741082	21.2	
87 2-Chlorotoluene	126	18.360	18.357	0.003	93	1667404	19.5	
88 4-Ethyltoluene	105	18.457	18.454	0.003	96	5599605	19.3	
89 1,3,5-Trimethylbenzene	120	18.527	18.524	0.003	95	3015712	20.7	
90 Alpha Methyl Styrene	118	18.748	18.745	0.003	86	2701607	25.8	
91 n-Decane	57	18.796	18.793	0.003	91	3036195	17.0	
92 tert-Butylbenzene	119	18.941	18.937	0.004	89	5759135	20.2	
93 1,2,4-Trimethylbenzene	105	18.952	18.949	0.003	89	5045591	19.9	
94 sec-Butylbenzene	105	19.199	19.196	0.003	96	7092519	19.1	
95 1,3-Dichlorobenzene	146	19.221	19.217	0.004	95	3841334	23.1	
96 Benzyl chloride	91	19.291	19.288	0.003	95	4188073	22.2	
97 1,4-Dichlorobenzene	146	19.307	19.302	0.005	94	3642996	23.5	
98 4-Isopropyltoluene	119	19.355	19.352	0.003	84	5986441	20.1	
99 1,2,3-Trimethylbenzene	105	19.415	19.409	0.006	96	3990183	19.4	
100 Butylcyclohexane	83	19.463	19.460	0.003	96	4012634	17.1	
101 2,3-Dihydroindene	117	19.657	19.653	0.004	90	4915942	21.3	
102 1,2-Dichlorobenzene	146	19.657	19.653	0.004	89	3809042	23.4	
103 n-Butylbenzene	91	19.780	19.777	0.003	95	5428724	19.7	
104 Indene	116	19.786	19.781	0.005	88	4978609	24.6	
105 Undecane	57	20.071	20.068	0.003	91	3299916	18.3	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.141	20.138	0.003	91	5841120	20.9	
108 1,2,4,5-Tetramethylbenzene	119	20.528	20.525	0.003	94	6339016	22.6	
107 1,2,3,5-Tetramethylbenzene	119	20.587	20.582	0.005	95	3871454	21.1	
109 1,2,3,4-Tetramethylbenzene	119	21.002	20.998	0.004	94	5109192	22.5	
110 Dodecane	57	21.152	21.148	0.004	96	3052464	16.4	
111 1,2,4-Trichlorobenzene	180	21.384	21.379	0.005	93	2137430	29.5	
112 Naphthalene	128	21.529	21.527	0.002	98	4750981	23.2	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	99	3355982	24.2	
114 Hexachlorobutadiene	225	21.733	21.729	0.004	82	3388138	22.9	
115 1,2,3-Trichlorobenzene	180	21.803	21.800	0.003	95	2025463	21.7	
116 2-Methylnaphthalene	142	22.449	22.449	0.0	96	969606	44.5	
117 1-Methylnaphthalene	142	22.583	22.583	0.0	96	616839	27.4	
139 Isopropyl ether	45	8.796	8.794	0.002	96	3380667	NR	
142 Tert-butyl ethyl ether	59	9.484	9.487	-0.003	94	3237327	NR	
140 Tert-amyl methyl ether	73	11.480	11.482	-0.002	93	3205213	NR	
A 118 C6 Range	1	8.635	8.553 -	8.736	0	14110311	13.8	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	9697293	16.5	
A 123 C8 Range	1	14.928	14.880 -	14.977	0	12490633	13.7	
S 124 Xylenes, Total	100				0		50.3	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L9

Lab Sample ID:

Worklist Smp#: 10

Client ID:

Purge Vol: 500.000 mL

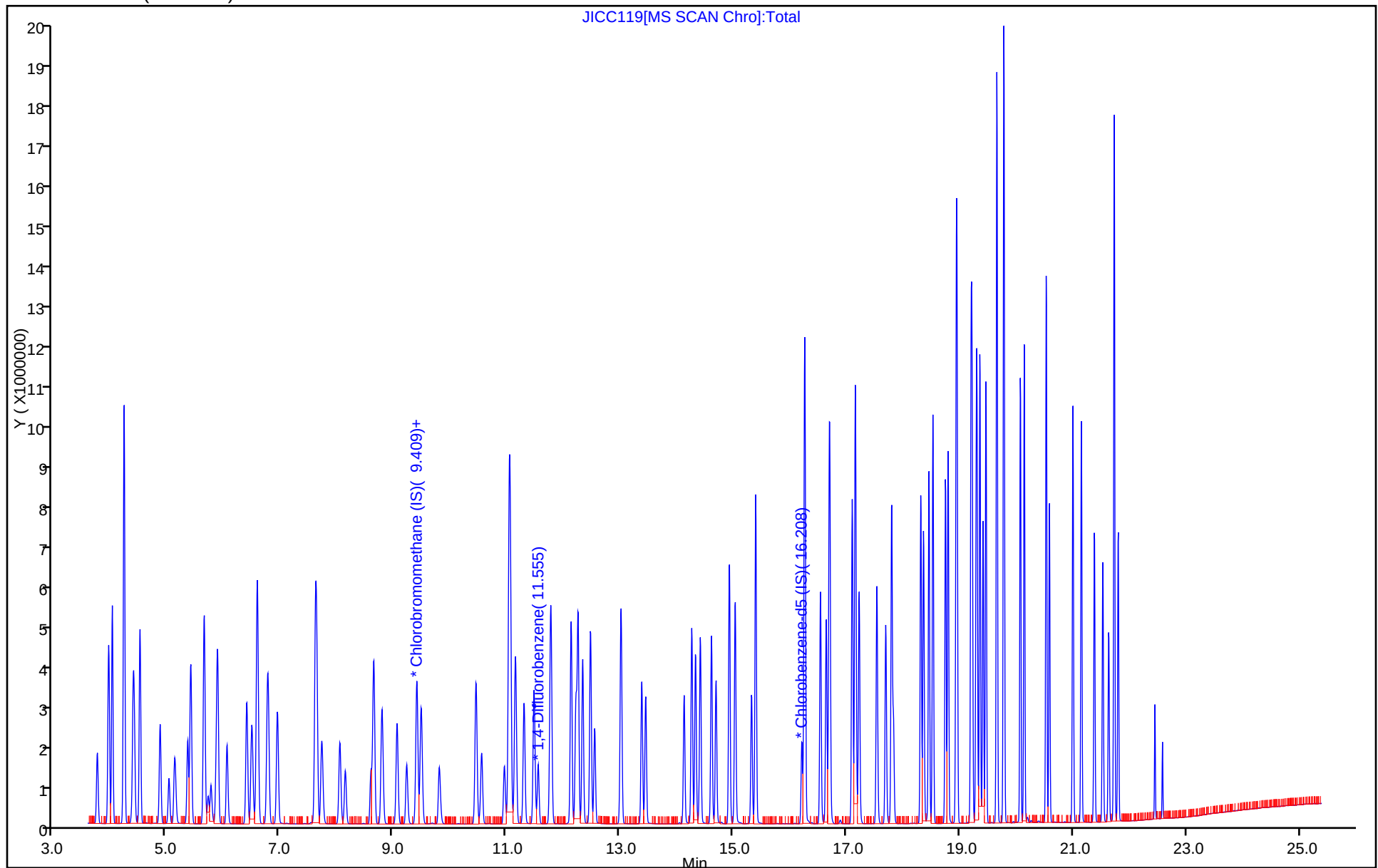
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30

Instrument ID: MJ

Lims ID: IC L9

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 15

Worklist Smp#: 10

Purge Vol: 500.000 mL

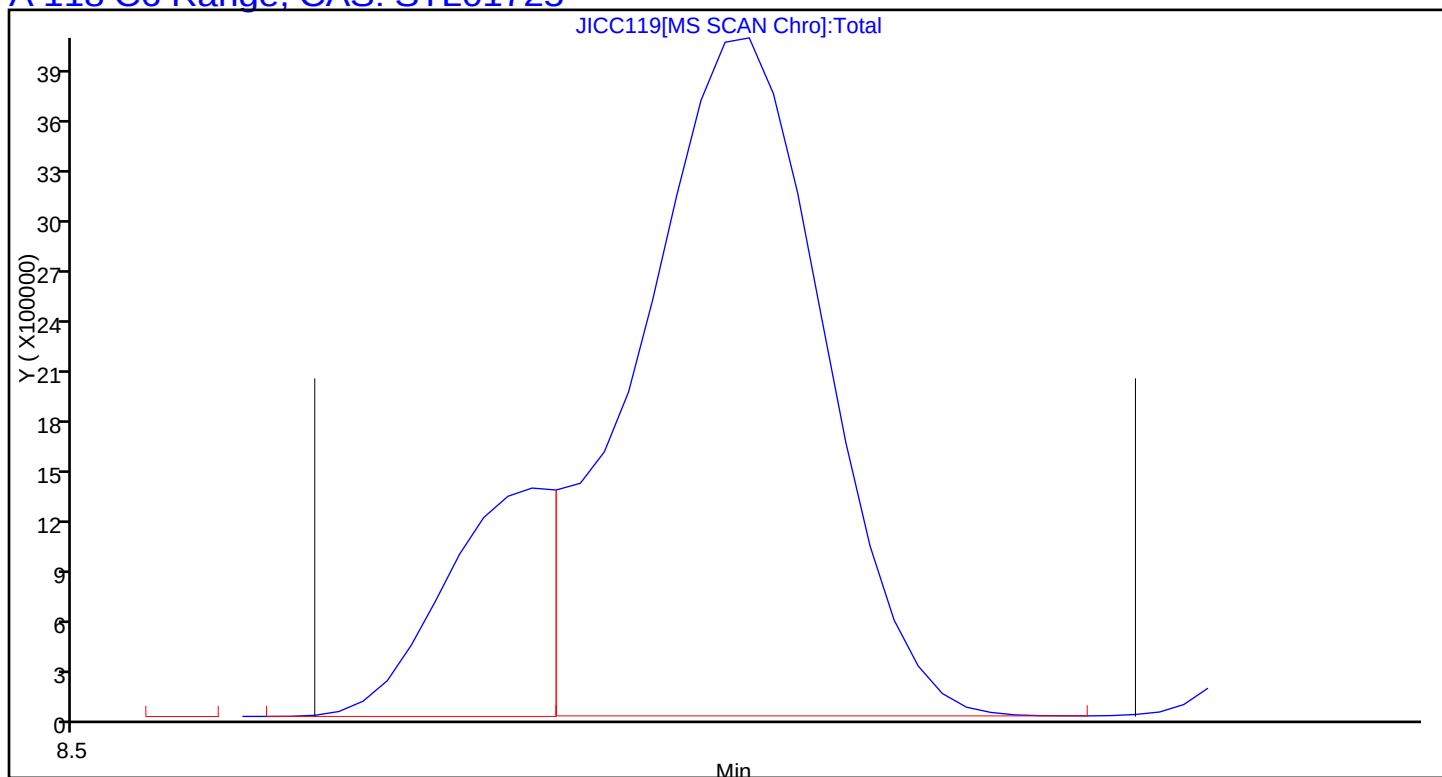
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 118 C6 Range, CAS: STL01725

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30

Instrument ID: MJ

Lims ID: IC L9

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 15

Worklist Smp#: 10

Purge Vol: 500.000 mL

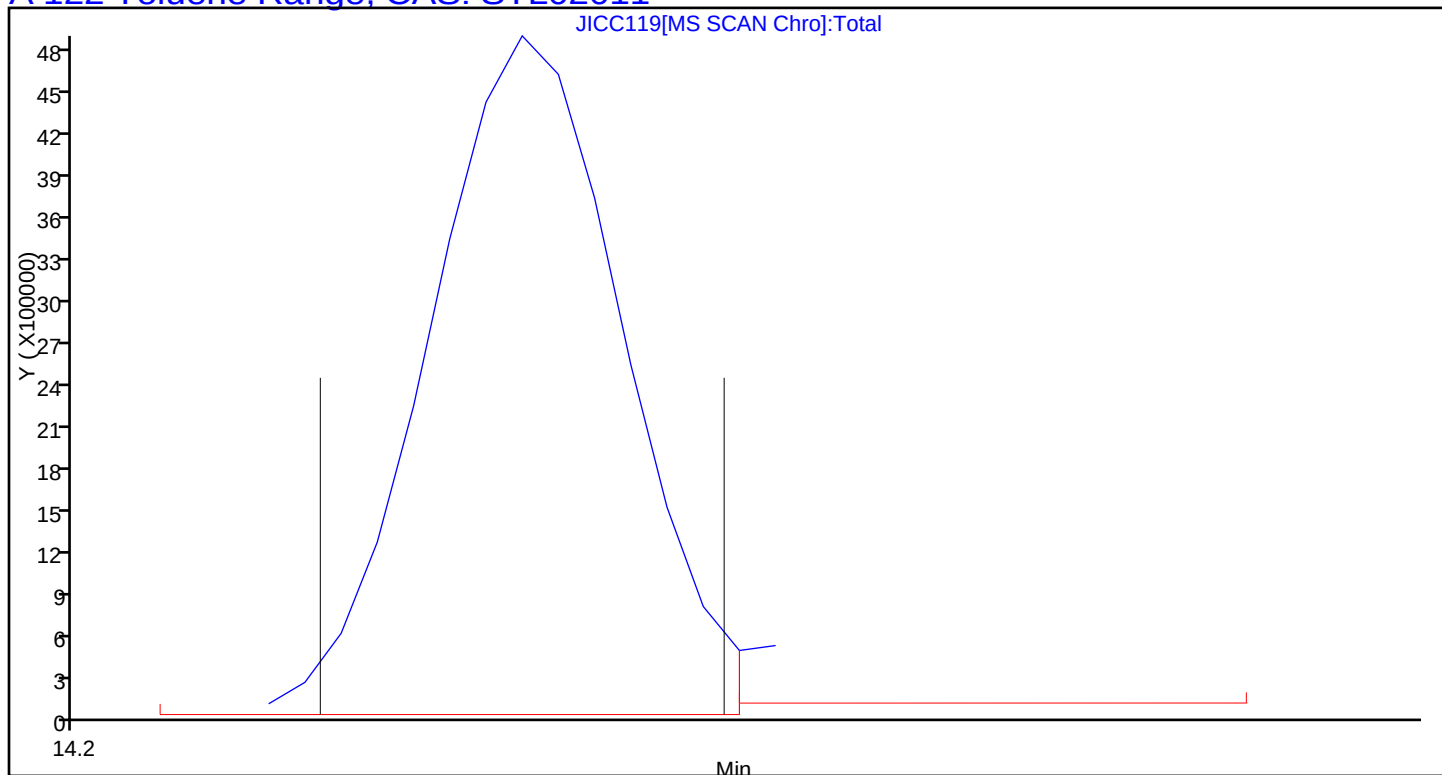
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Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 Toluene Range, CAS: STL02011

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D

Injection Date: 11-Mar-2014 19:57:30

Instrument ID: MJ

Lims ID: IC L9

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 15

Worklist Smp#: 10

Purge Vol: 500.000 mL

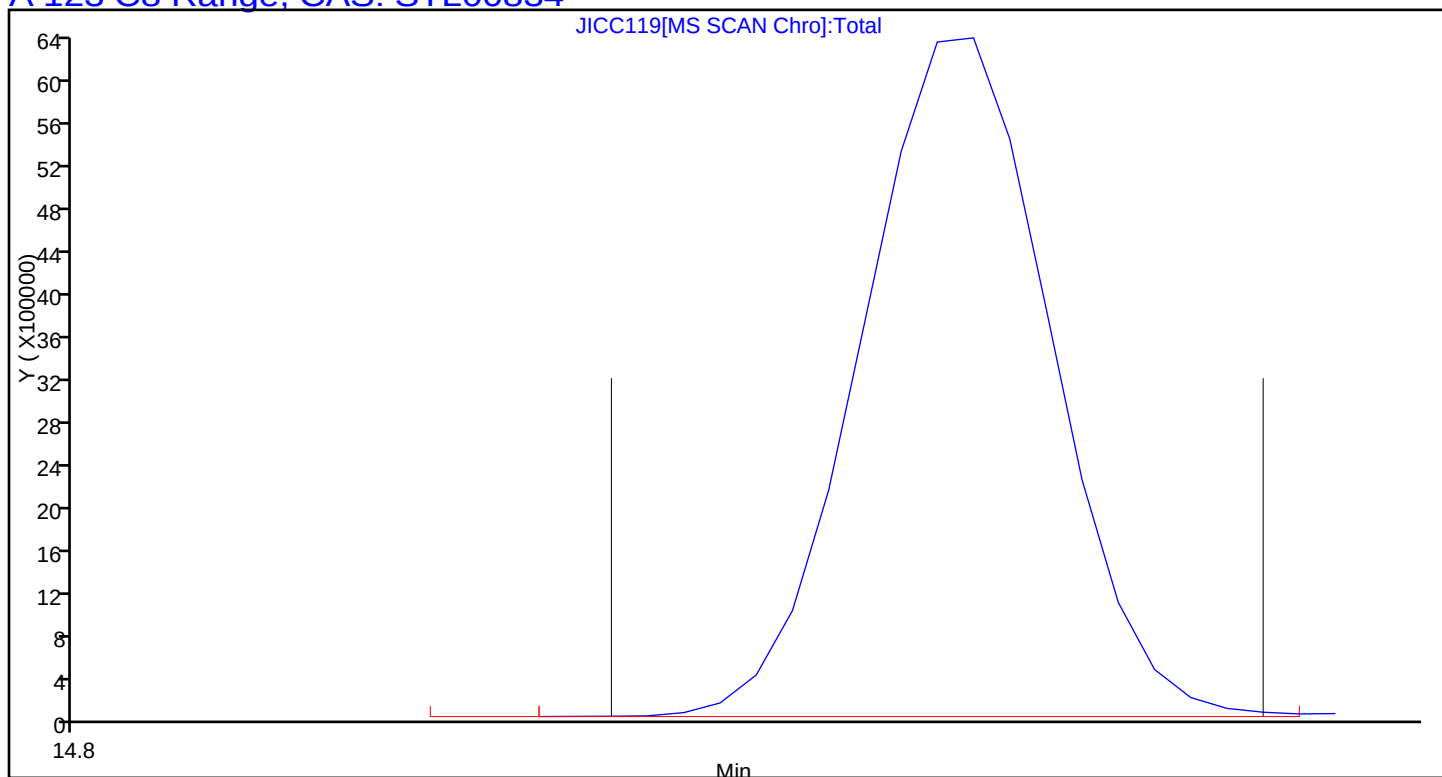
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 123 C8 Range, CAS: STL00834

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1

SDG No.: _____

Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.3927		1.90	2.00	-4.9	35.0
Propene	Ave	1.227	1.098		1.79	2.00	-10.4	35.0
Dichlorodifluoromethane	Ave	3.962	3.635		1.83	2.00	-8.3	35.0
Chloromethane	Ave	0.4501	0.4065		1.81	2.00	-9.7	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.017		2.02	2.00	0.9	35.0
Acetaldehyde	Ave	0.3947	0.3532		8.95	10.0	-10.5	80.0
Vinyl chloride	Ave	1.483	1.396		1.88	2.00	-5.9	35.0
1,3-Butadiene	Ave	1.030	1.004		1.95	2.00	-2.6	35.0
Butane	Ave	2.110	1.870		1.77	2.00	-11.4	35.0
Bromomethane	Ave	1.508	1.386		1.84	2.00	-8.1	35.0
Chloroethane	Ave	0.6822	0.6020		1.76	2.00	-11.8	35.0
Ethanol	Ave	0.3211	0.2779		8.65	10.0	-13.5	80.0
Vinyl bromide	Ave	1.283	1.299		2.03	2.00	1.3	35.0
2-Methylbutane	Ave	1.699	1.599		1.88	2.00	-5.9	35.0
Acrolein	Ave	0.3266	0.2252		1.38	2.00	-31.0	35.0
Trichlorofluoromethane	Ave	3.481	3.332		1.91	2.00	-4.3	35.0
Acetonitrile	Ave	0.3607	0.3021		1.68	2.00	-16.2	35.0
Acetone	Ave	0.5686	0.4096			2.00	-28.0	35.0
Isopropyl alcohol	Ave	1.501	1.466		1.95	2.00	-2.4	35.0
Pentane	Ave	0.2152	0.2069		1.92	2.00	-3.9	35.0
Ethyl ether	Ave	1.047	0.8811		1.68	2.00	-15.8	35.0
1,1-Dichloroethene	Ave	1.123	1.253		2.23	2.00	11.6	35.0
tert-Butyl alcohol	Ave	1.849	1.758		1.90	2.00	-5.0	35.0
Acrylonitrile	Ave	0.5945	0.5425		1.83	2.00	-8.7	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.678		2.22	2.00	11.1	35.0
Methylene Chloride	Ave	1.070	1.161		2.17	2.00	8.5	35.0
3-Chloropropene	Ave	1.113	1.032		1.86	2.00	-7.2	35.0
Carbon disulfide	Ave	3.763	3.823		2.03	2.00	1.6	35.0
trans-1,2-Dichloroethene	Ave	1.353	1.283		1.90	2.00	-5.1	35.0
2-Methylpentane	Ave	3.087	2.996		1.94	2.00	-2.9	80.0
Methyl tert-butyl ether	Ave	2.042	1.840		1.80	2.00	-9.9	35.0
1,1-Dichloroethane	Ave	2.111	2.102		1.99	2.00	-0.4	35.0
Vinyl acetate	Ave	1.849	1.657		1.79	2.00	-10.4	35.0
2-Butanone (MEK)	Ave	0.3786	0.3381		1.79	2.00	-10.7	35.0
Hexane	Ave	1.075	0.9854		1.83	2.00	-8.4	35.0
cis-1,2-Dichloroethene	Ave	1.155	1.171		2.03	2.00	1.4	35.0
Ethyl acetate	Ave	1.649	1.508		1.83	2.00	-8.6	35.0
Chloroform	Ave	2.331	2.280		1.96	2.00	-2.2	35.0
Tetrahydrofuran	Ave	0.9265	0.8140		1.76	2.00	-12.1	35.0
1,1,1-Trichloroethane	Ave	2.429	2.357		1.94	2.00	-3.0	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3053		1.97	2.00	-1.6	35.0
1-Butanol	Ave	0.0874	0.0831		1.90	2.00	-5.0	35.0
Benzene	Ave	0.6863	0.6700		1.95	2.00	-2.4	35.0
Cyclohexane	Ave	0.1354	0.1273		1.88	2.00	-6.0	35.0
Carbon tetrachloride	Ave	0.5669	0.5577		1.97	2.00	-1.6	35.0
2,3-Dimethylpentane	Ave	0.1619	0.1476		1.82	2.00	-8.9	80.0
Thiophene	Ave	0.4238	0.3980		1.88	2.00	-6.1	80.0
2,2,4-Trimethylpentane	Ave	1.172	1.096		1.87	2.00	-6.5	35.0
Heptane	Ave	0.2427	0.2273		1.87	2.00	-6.4	35.0
1,2-Dichloropropane	Ave	0.2320	0.2086		1.80	2.00	-10.1	35.0
Trichloroethene	Ave	0.3329	0.3084		1.85	2.00	-7.4	35.0
Dibromomethane	Ave	0.3053	0.2742		1.80	2.00	-10.2	35.0
Bromodichloromethane	Ave	0.4844	0.4604		1.90	2.00	-5.0	35.0
1,4-Dioxane	Ave	0.0831	0.0721		1.73	2.00	-13.3	35.0
Methyl methacrylate	Ave	0.2081	0.1844		1.77	2.00	-11.4	35.0
Methylcyclohexane	Ave	0.4620	0.4153		1.80	2.00	-10.1	80.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3620		1.73	2.00	-13.7	35.0
cis-1,3-Dichloropropene	Ave	0.3291	0.2994		1.82	2.00	-9.0	35.0
trans-1,3-Dichloropropene	Ave	0.3315	0.2916		1.76	2.00	-12.0	35.0
Toluene	Ave	0.7420	0.6560		1.77	2.00	-11.6	35.0
1,1,2-Trichloroethane	Ave	0.2352	0.2032		1.73	2.00	-13.6	35.0
2-Methylthiophene	Ave	0.6668	0.5885		1.76	2.00	-11.8	80.0
3-Methylthiophene	Ave	0.6690	0.5758		1.72	2.00	-13.9	80.0
2-Hexanone	Ave	0.2430	0.2176		1.79	2.00	-10.5	35.0
Octane	Ave	0.2723	0.2524		1.85	2.00	-7.3	35.0
Dibromochloromethane	Ave	0.5191	0.4880		1.88	2.00	-6.0	35.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.3491		1.73	2.00	-13.4	35.0
Tetrachloroethene	Ave	0.3457	0.3028		1.75	2.00	-12.4	35.0
Chlorobenzene	Ave	0.6339	0.5280		1.67	2.00	-16.7	35.0
2,3-Dimethylheptane	Ave	0.8171	0.8009		1.96	2.00	-2.0	80.0
Ethylbenzene	Ave	0.8196	0.7195		1.76	2.00	-12.2	35.0
2-Ethylthiophene	Ave	0.6423	0.5532		1.72	2.00	-13.9	80.0
m-Xylene & p-Xylene	Ave	0.6614	0.5572		3.37	4.00	-15.7	35.0
Nonane	Ave	0.5146	0.4621		1.80	2.00	-10.2	35.0
Bromoform	Ave	0.4101	0.3532		1.72	2.00	-13.9	35.0
Styrene	Ave	0.4542	0.4097		1.80	2.00	-9.8	35.0
o-Xylene	Ave	0.6705	0.5779		1.72	2.00	-13.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.4775		1.74	2.00	-12.8	35.0
1,2,3-Trichloropropane	Ave	0.1314	0.1129		1.72	2.00	-14.1	35.0
Isopropylbenzene	Ave	0.9553	0.8094		1.69	2.00	-15.3	35.0
Propylbenzene	Ave	0.2519	0.2135		1.70	2.00	-15.2	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Lab Sample ID: ICV 140-946/14 Calibration Date: 03/11/2014 23:33
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JLCSC11.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2127		1.62	2.00	-19.1	35.0
4-Ethyltoluene	Ave	0.8909	0.7838		1.76	2.00	-12.0	35.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.3817		1.70	2.00	-14.8	35.0
Alpha Methyl Styrene	Ave	0.3209	0.2911		1.81	2.00	-9.3	35.0
Decane	Ave	0.5485	0.4798		1.75	2.00	-12.5	35.0
tert-Butylbenzene	Ave	0.8748	0.7380		1.69	2.00	-15.6	35.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.6716		1.73	2.00	-13.6	35.0
sec-Butylbenzene	Ave	1.140	0.9809		1.72	2.00	-14.0	35.0
1,3-Dichlorobenzene	Ave	0.5106	0.3857		1.51	2.00	-24.5	35.0
Benzyl chloride	Ave	0.5802	0.4785		1.65	2.00	-17.5	35.0
1,4-Dichlorobenzene	Ave	0.4752	0.3601		1.52	2.00	-24.2	35.0
4-Isopropyltoluene	Ave	0.9141	0.7905		1.73	2.00	-13.5	35.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.5684		1.80	2.00	-10.2	80.0
Butylcyclohexane	Ave	0.7225	0.6145		1.70	2.00	-14.9	80.0
Indane	Ave	0.7098	0.6057		1.71	2.00	-14.7	80.0
1,2-Dichlorobenzene	Ave	0.4994	0.3813		1.53	2.00	-23.6	35.0
Butylbenzene	Ave	0.8482	0.6995		1.65	2.00	-17.5	35.0
Indene	Ave	0.6202	0.5555		1.79	2.00	-10.4	80.0
Undecane	Ave	0.5525	0.4806		1.74	2.00	-13.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.7156		1.67	2.00	-16.5	80.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.7687		1.79	2.00	-10.7	80.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.4782		1.70	2.00	-14.9	80.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.6065		1.74	2.00	-12.9	80.0
Dodecane	Ave	0.5721	0.5050		1.77	2.00	-11.7	35.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.1874		1.69	2.00	-15.7	35.0
Naphthalene	Ave	0.6294	0.5313		1.69	2.00	-15.6	35.0
Benzo(b) thiophene	Ave	0.4265	0.3579		1.68	2.00	-16.1	80.0
Hexachlorobutadiene	Ave	0.4540	0.3272		1.44	2.00	-27.9	35.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2381		1.66	2.00	-17.1	35.0
2-Methylnaphthalene	Ave	0.0669	0.0445		8.32	12.5	-33.5	80.0
1-Methylnaphthalene	Ave	0.0690	0.0474		8.59	12.5	-31.3	80.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7141		4.04	4.00	0.9	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCSC11.D
 Lims ID: ICV Lab Sample ID: ICV 140-949/14-A
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Mar-2014 23:33:30 ALS Bottle#: 1 Worklist Smp#: 14
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: LCS/ICV,,3,,
 Misc. Info.: J031114I,TO15,,140-0000516-014
 Operator ID: 7126 Instrument ID: MJ
 Sublist:
 Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 14-Mar-2014 13:55:12 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 12-Mar-2014 06:59:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.390	9.392	-0.002	93	326764	4.00	
* 2 1,4-Difluorobenzene	114	11.548	11.547	0.001	93	1541489	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.206	16.208	-0.002	87	1315171	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.825	17.825	0.0	89	939102	4.04	
6 Chlorodifluoromethane	67	3.957	3.960	-0.003	97	64162	1.90	
7 Propene	41	3.968	3.973	-0.005	99	179454	1.79	
8 Dichlorodifluoromethane	85	4.027	4.029	-0.002	100	593826	1.83	
9 Chloromethane	52	4.226	4.230	-0.004	98	66411	1.81	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.237	4.238	-0.001	90	492863	2.02	
11 Acetaldehyde	44	4.393	4.398	-0.005	98	288501	8.95	
12 Vinyl chloride	62	4.414	4.419	-0.005	99	228060	1.88	
14 Butadiene	54	4.511	4.517	-0.006	92	164047	1.95	
13 Butane	43	4.517	4.517	0.0	89	305448	1.77	
15 Bromomethane	94	4.866	4.871	-0.005	99	226405	1.84	
16 Chloroethane	64	5.022	5.027	-0.005	99	98352	1.76	
17 Ethanol	31	5.114	5.122	-0.008	94	227027	8.65	
18 Vinyl bromide	106	5.350	5.357	-0.007	97	212311	2.03	
19 2-Methylbutane	43	5.410	5.411	-0.001	92	261226	1.88	
20 Trichlorofluoromethane	101	5.646	5.647	-0.001	98	544405	1.91	
21 Acrolein	56	5.641	5.650	-0.009	27	36793	1.38	
22 Acetonitrile	40	5.711	5.720	-0.009	100	49356	1.68	
23 Acetone	58	5.770	5.776	-0.006	84	66917	1.44	
24 Isopropyl alcohol	45	5.845	5.858	-0.013	97	239534	1.95	
25 Pentane	72	5.883	5.884	-0.001	97	33800	1.92	
26 Ethyl ether	31	6.050	6.059	-0.009	93	143950	1.68	
27 1,1-Dichloroethene	96	6.399	6.399	0.0	97	204737	2.23	
28 2-Methyl-2-propanol	59	6.469	6.487	-0.018	94	287155	1.90	
29 Acrylonitrile	53	6.491	6.498	-0.007	94	88630	1.83	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.582	6.586	-0.004	94	437601	2.22	
31 Methylene Chloride	84	6.760	6.759	0.001	95	189676	2.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.776	6.778	-0.002	91	168678	1.86	
33 Carbon disulfide	76	6.937	6.942	-0.005	99	624567	2.03	
34 trans-1,2-Dichloroethene	96	7.604	7.609	-0.005	98	209642	1.90	
35 2-Methylpentane	43	7.631	7.631	0.0	95	489470	1.94	
36 Methyl tert-butyl ether	73	7.728	7.738	-0.010	96	300567	1.80	
37 1,1-Dichloroethane	63	8.040	8.041	-0.001	100	343423	1.99	
38 Vinyl acetate	43	8.137	8.141	-0.004	100	270800	1.79	
39 2-Butanone (MEK)	72	8.600	8.601	-0.001	100	55244	1.79	
40 Hexane	56	8.643	8.642	0.001	90	160988	1.83	
41 cis-1,2-Dichloroethene	96	9.051	9.052	-0.001	95	191302	2.03	
42 Ethyl acetate	43	9.224	9.229	-0.005	97	246331	1.83	
43 Chloroform	83	9.401	9.403	-0.002	88	372507	1.96	
44 Tetrahydrofuran	42	9.810	9.816	-0.006	94	132989	1.76	
45 1,1,1-Trichloroethane	97	10.450	10.450	0.0	96	385014	1.94	
46 1,2-Dichloroethane	62	10.547	10.547	0.0	95	235329	1.97	
47 n-Butanol	31	10.945	10.958	-0.013	87	64008	1.90	
48 Benzene	78	11.031	11.033	-0.002	97	516383	1.95	
49 Cyclohexane	69	11.042	11.040	0.002	92	98107	1.88	
50 Carbon tetrachloride	117	11.058	11.059	-0.001	97	429830	1.97	
51 2,3-Dimethylpentane	71	11.144	11.148	-0.004	92	113738	1.82	
52 Thiophene	84	11.300	11.297	0.003	96	306757	1.88	
53 Isooctane	57	11.768	11.771	-0.003	98	844794	1.87	
54 n-Heptane	71	12.129	12.130	-0.001	93	175150	1.87	
55 1,2-Dichloropropane	63	12.215	12.214	0.001	88	160801	1.80	
56 Trichloroethene	130	12.252	12.252	0.0	95	237727	1.85	
57 Dibromomethane	93	12.333	12.332	0.001	91	211308	1.80	
59 Dichlorobromomethane	83	12.473	12.472	0.001	99	354860	1.90	
58 1,4-Dioxane	88	12.478	12.483	-0.005	87	55564	1.73	
60 Methyl methacrylate	41	12.543	12.548	-0.005	91	142117	1.77	
61 Methylcyclohexane	83	13.011	13.013	-0.002	96	320093	1.80	
62 4-Methyl-2-pentanone (MIBK)	43	13.377	13.382	-0.005	98	278989	1.73	
63 cis-1,3-Dichloropropene	75	13.447	13.448	-0.001	95	230781	1.82	
64 trans-1,3-Dichloropropene	75	14.124	14.126	-0.002	99	191744	1.76	
65 Toluene	91	14.264	14.262	0.002	93	431398	1.77	
66 1,1,2-Trichloroethane	83	14.329	14.328	0.001	97	133590	1.73	
67 2-Methylthiophene	97	14.415	14.413	0.002	98	386959	1.76	
68 3-Methylthiophene	97	14.608	14.612	-0.004	99	378623	1.72	
69 2-Hexanone	58	14.689	14.694	-0.005	93	143062	1.79	
70 n-Octane	85	14.926	14.928	-0.002	95	165974	1.85	
71 Chlorodibromomethane	129	15.028	15.027	0.001	96	320894	1.88	
72 Ethylene Dibromide	107	15.319	15.317	0.002	98	229585	1.73	
73 Tetrachloroethene	129	15.394	15.393	0.001	92	199104	1.75	
75 Chlorobenzene	112	16.255	16.256	-0.001	84	347218	1.67	
74 2,3-Dimethylheptane	43	16.260	16.260	0.0	95	526675	1.96	
76 Ethylbenzene	91	16.534	16.536	-0.002	98	473153	1.76	
77 2-Ethylthiophene	97	16.637	16.638	-0.001	97	363744	1.72	
78 m-Xylene & p-Xylene	91	16.696	16.696	0.0	100	732866	3.37	
79 n-Nonane	57	17.099	17.098	0.001	93	303879	1.80	
81 Bromoform	173	17.148	17.149	-0.001	93	232231	1.72	
80 Styrene	104	17.158	17.157	0.001	98	269410	1.80	
82 o-Xylene	91	17.218	17.220	-0.002	99	380024	1.72	
83 1,1,2,2-Tetrachloroethane	83	17.530	17.534	-0.004	99	313972	1.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.691	17.690	0.001	97	74208	1.72	
85 Isopropylbenzene	105	17.793	17.793	0.0	96	532274	1.69	
86 N-Propylbenzene	120	18.310	18.310	0.0	98	140408	1.70	
87 2-Chlorotoluene	126	18.358	18.357	0.001	97	139891	1.62	
88 4-Ethyltoluene	105	18.455	18.454	0.001	98	515426	1.76	
89 1,3,5-Trimethylbenzene	120	18.525	18.524	0.001	92	251020	1.70	
90 Alpha Methyl Styrene	118	18.745	18.745	0.0	85	191429	1.81	
91 n-Decane	57	18.788	18.793	-0.005	89	315493	1.75	
92 tert-Butylbenzene	119	18.934	18.937	-0.003	87	485314	1.69	
93 1,2,4-Trimethylbenzene	105	18.950	18.949	0.001	92	441617	1.73	
94 sec-Butylbenzene	105	19.197	19.196	0.001	98	645034	1.72	
95 1,3-Dichlorobenzene	146	19.219	19.217	0.002	99	253635	1.51	
96 Benzyl chloride	91	19.283	19.288	-0.005	98	314626	1.65	
97 1,4-Dichlorobenzene	146	19.299	19.302	-0.003	93	236806	1.52	
98 4-Isopropyltoluene	119	19.353	19.352	0.001	88	519786	1.73	
99 1,2,3-Trimethylbenzene	105	19.407	19.409	-0.002	98	373764	1.80	
100 Butylcyclohexane	83	19.461	19.460	0.001	93	404088	1.70	
101 2,3-Dihydroindene	117	19.649	19.653	-0.004	89	398305	1.71	
102 1,2-Dichlorobenzene	146	19.654	19.653	0.001	79	250746	1.53	
103 n-Butylbenzene	91	19.773	19.777	-0.004	96	459993	1.65	
104 Indene	116	19.778	19.781	-0.003	86	365312	1.79	
105 Undecane	57	20.069	20.068	0.001	96	316015	1.74	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.139	20.138	0.001	97	470558	1.67	
108 1,2,4,5-Tetramethylbenzene	119	20.526	20.525	0.001	97	505503	1.79	
107 1,2,3,5-Tetramethylbenzene	119	20.580	20.582	-0.002	95	314467	1.70	
109 1,2,3,4-Tetramethylbenzene	119	20.999	20.998	0.001	96	398813	1.74	
110 Dodecane	57	21.145	21.148	-0.003	94	332106	1.77	
111 1,2,4-Trichlorobenzene	180	21.376	21.379	-0.003	94	123214	1.69	
112 Naphthalene	128	21.526	21.527	-0.001	99	349347	1.69	
113 Benzo(b)thiophene	134	21.629	21.631	-0.002	99	235321	1.68	
114 Hexachlorobutadiene	225	21.726	21.729	-0.003	84	215146	1.44	
115 1,2,3-Trichlorobenzene	180	21.801	21.800	0.001	96	156570	1.66	
116 2-Methylnaphthalene	142	22.446	22.449	-0.003	97	183079	8.32	
117 1-Methylnaphthalene	142	22.581	22.583	-0.002	96	194988	8.59	
139 Isopropyl ether	45	8.788	8.794	-0.006	97	419583	NR	
142 Tert-butyl ethyl ether	59	9.482	9.487	-0.005	96	370351	NR	
140 Tert-amyl methyl ether	73	11.478	11.482	-0.004	93	349396	NR	
A 118 C6 Range	1	8.633	8.553 -	8.736	0	1771274	1.86	
A 122 Toluene Range	1	14.266	14.236 -	14.296	0	1044079	1.76	
A 123 C8 Range	1	14.927	14.880 -	14.977	0	1637147	1.78	
S 124 Xylenes, Total	100				0		5.09	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JLCSC11.D

Injection Date: 11-Mar-2014 23:33:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ICV

Lab Sample ID: ICV 140-949/14-A

Worklist Smp#: 14

Client ID:

Purge Vol: 500.000 mL

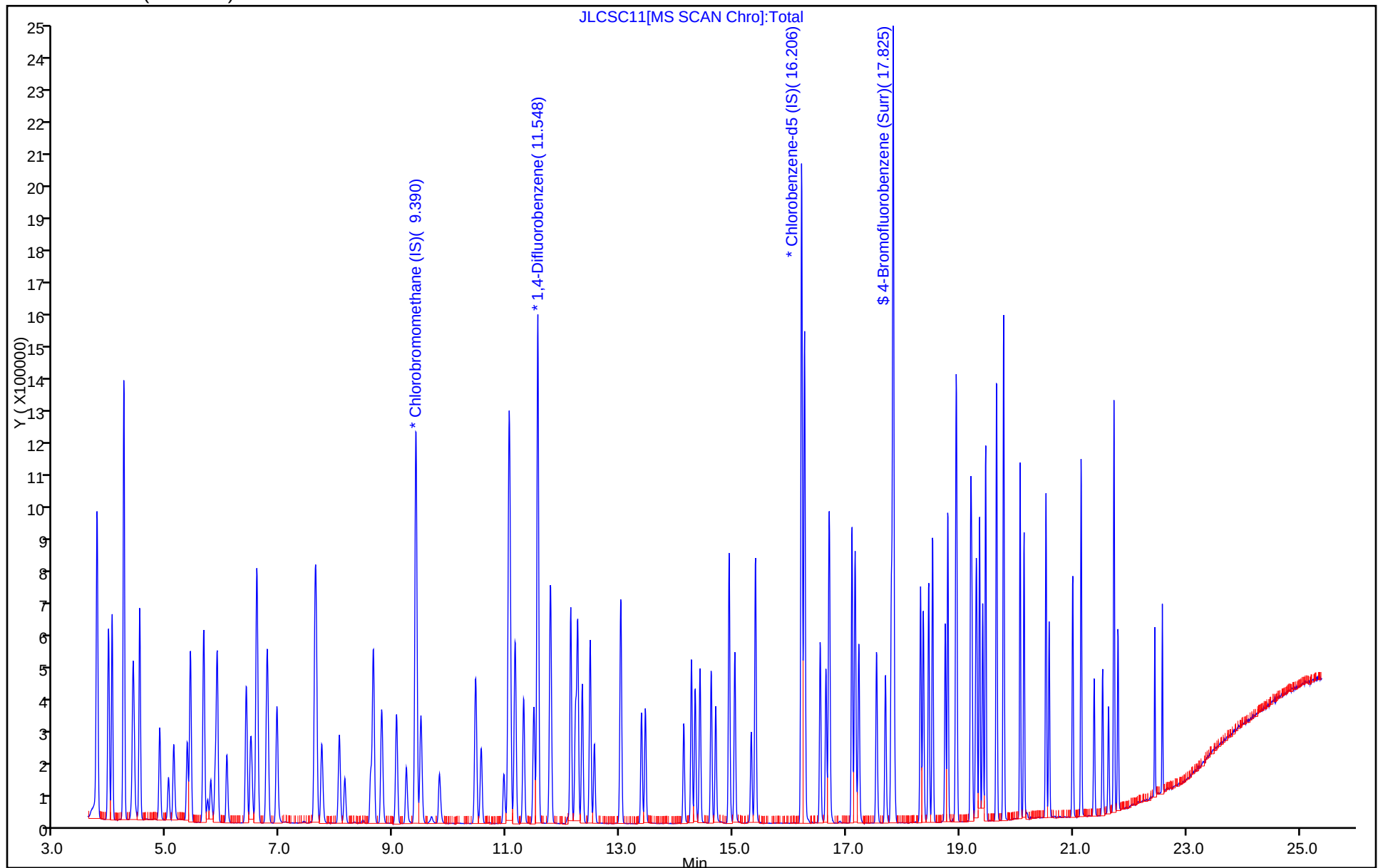
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1

SDG No.: _____

Lab Sample ID: CCVIS 140-968/2 Calibration Date: 03/17/2014 10:32

Instrument ID: MJ Calib Start Date: 03/11/2014 12:40

GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57

Lab File ID: JCCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4128	0.4132		2.00	2.00	0.1	30.0
Propene	Ave	1.227	1.154		1.88	2.00	-5.9	30.0
Dichlorodifluoromethane	Ave	3.962	4.046		2.04	2.00	2.1	30.0
Chloromethane	Ave	0.4501	0.4519		2.01	2.00	0.4	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.990	3.349		2.24	2.00	12.0	30.0
Acetaldehyde	Ave	0.3947	0.3255		8.25	10.0	-17.5	50.0
Vinyl chloride	Ave	1.483	1.531		2.07	2.00	3.3	30.0
1,3-Butadiene	Ave	1.030	1.038		2.02	2.00	0.8	30.0
Butane	Ave	2.110	2.000		1.90	2.00	-5.2	30.0
Bromomethane	Ave	1.508	1.574		2.09	2.00	4.4	30.0
Chloroethane	Ave	0.6822	0.6904		2.02	2.00	1.2	30.0
Ethanol	Ave	0.3211	0.2869		8.93	10.0	-10.7	50.0
Vinyl bromide	Ave	1.283	1.331		2.08	2.00	3.8	30.0
2-Methylbutane	Ave	1.699	1.638		1.93	2.00	-3.6	30.0
Acrolein	Ave	0.3266	0.2625		1.61	2.00	-19.6	30.0
Trichlorofluoromethane	Ave	3.481	3.645		2.09	2.00	4.7	30.0
Acetonitrile	Ave	0.3607	0.3029		1.68	2.00	-16.0	30.0
Acetone	Ave	0.5686	0.3177			2.00	-44.1*	30.0
Isopropyl alcohol	Ave	1.501	1.376		1.83	2.00	-8.3	30.0
Pentane	Ave	0.2152	0.2240		2.08	2.00	4.1	30.0
Ethyl ether	Ave	1.047	0.9880		1.89	2.00	-5.6	30.0
1,1-Dichloroethene	Ave	1.123	1.127		2.01	2.00	0.3	30.0
tert-Butyl alcohol	Ave	1.849	1.631		1.76	2.00	-11.8	30.0
Acrylonitrile	Ave	0.5945	0.5121		1.72	2.00	-13.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.412	2.482		2.06	2.00	2.9	30.0
Methylene Chloride	Ave	1.070	1.049		1.96	2.00	-1.9	30.0
3-Chloropropene	Ave	1.113	1.004		1.80	2.00	-9.8	30.0
Carbon disulfide	Ave	3.763	3.826		2.03	2.00	1.7	30.0
trans-1,2-Dichloroethene	Ave	1.353	1.331		1.97	2.00	-1.6	30.0
2-Methylpentane	Ave	3.087	2.977		1.93	2.00	-3.5	50.0
Methyl tert-butyl ether	Ave	2.042	1.917		1.88	2.00	-6.1	30.0
1,1-Dichloroethane	Ave	2.111	2.042		1.93	2.00	-3.3	30.0
Vinyl acetate	Ave	1.849	1.620		1.75	2.00	-12.4	30.0
2-Butanone (MEK)	Ave	0.3786	0.3351		1.77	2.00	-11.5	30.0
Hexane	Ave	1.075	1.005		1.87	2.00	-6.6	30.0
cis-1,2-Dichloroethene	Ave	1.155	1.144		1.98	2.00	-0.9	30.0
Ethyl acetate	Ave	1.649	1.500		1.82	2.00	-9.0	30.0
Chloroform	Ave	2.331	2.263		1.94	2.00	-2.9	30.0
Tetrahydrofuran	Ave	0.9265	0.8099		1.75	2.00	-12.6	30.0
1,1,1-Trichloroethane	Ave	2.429	2.353		1.94	2.00	-3.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-968/2 Calibration Date: 03/17/2014 10:32
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3103	0.3247		2.09	2.00	4.6	30.0
1-Butanol	Ave	0.0874	0.0809		1.85	2.00	-7.5	30.0
Benzene	Ave	0.6863	0.7043		2.05	2.00	2.6	30.0
Cyclohexane	Ave	0.1354	0.1416		2.09	2.00	4.6	30.0
Carbon tetrachloride	Ave	0.5669	0.6033		2.13	2.00	6.4	30.0
2,3-Dimethylpentane	Ave	0.1619	0.1611		1.99	2.00	-0.5	50.0
Thiophene	Ave	0.4238	0.4404		2.08	2.00	3.9	50.0
2,2,4-Trimethylpentane	Ave	1.172	1.182		2.02	2.00	0.9	30.0
Heptane	Ave	0.2427	0.2450		2.02	2.00	0.9	30.0
1,2-Dichloropropane	Ave	0.2320	0.2368		2.04	2.00	2.1	30.0
Trichloroethene	Ave	0.3329	0.3373		2.03	2.00	1.3	30.0
Dibromomethane	Ave	0.3053	0.3095		2.03	2.00	1.4	30.0
Bromodichloromethane	Ave	0.4844	0.5069		2.09	2.00	4.6	30.0
1,4-Dioxane	Ave	0.0831	0.0767		1.85	2.00	-7.7	30.0
Methyl methacrylate	Ave	0.2081	0.1970		1.89	2.00	-5.3	30.0
Methylcyclohexane	Ave	0.4620	0.4639		2.01	2.00	0.4	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4193	0.3911		1.87	2.00	-6.7	30.0
cis-1,3-Dichloropropene	Ave	0.3291	0.3353		2.04	2.00	1.9	30.0
trans-1,3-Dichloropropene	Ave	0.3315	0.3744		2.26	2.00	12.9	30.0
Toluene	Ave	0.7420	0.8371		2.26	2.00	12.8	30.0
1,1,2-Trichloroethane	Ave	0.2352	0.2728		2.32	2.00	16.0	30.0
2-Methylthiophene	Ave	0.6668	0.7823		2.35	2.00	17.3	50.0
3-Methylthiophene	Ave	0.6690	0.7863		2.35	2.00	17.5	50.0
2-Hexanone	Ave	0.2430	0.2554		2.10	2.00	5.1	30.0
Octane	Ave	0.2723	0.3240		2.38	2.00	19.0	30.0
Dibromochloromethane	Ave	0.5191	0.6305		2.43	2.00	21.5	30.0
1,2-Dibromoethane (EDB)	Ave	0.4030	0.4530		2.25	2.00	12.4	30.0
Tetrachloroethene	Ave	0.3457	0.3884		2.25	2.00	12.4	30.0
Chlorobenzene	Ave	0.6339	0.6950		2.19	2.00	9.6	30.0
2,3-Dimethylheptane	Ave	0.8171	0.9650		2.36	2.00	18.1	50.0
Ethylbenzene	Ave	0.8196	0.8709		2.13	2.00	6.3	30.0
2-Ethylthiophene	Ave	0.6423	0.7007		2.18	2.00	9.1	50.0
m-Xylene & p-Xylene	Ave	0.6614	0.6722		4.07	4.00	1.6	30.0
Nonane	Ave	0.5146	0.6024		2.34	2.00	17.0	30.0
Bromoform	Ave	0.4101	0.4934		2.41	2.00	20.3	30.0
Styrene	Ave	0.4542	0.4866		2.14	2.00	7.1	30.0
o-Xylene	Ave	0.6705	0.7001		2.09	2.00	4.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5478	0.5994		2.19	2.00	9.4	30.0
1,2,3-Trichloropropane	Ave	0.1314	0.1421		2.16	2.00	8.2	30.0
Isopropylbenzene	Ave	0.9553	1.007		2.11	2.00	5.4	30.0
Propylbenzene	Ave	0.2519	0.2675		2.12	2.00	6.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-968/2 Calibration Date: 03/17/2014 10:32
 Instrument ID: MJ Calib Start Date: 03/11/2014 12:40
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/11/2014 19:57
 Lab File ID: JCCVC17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.2629	0.2765		2.10	2.00	5.2	30.0
4-Ethyltoluene	Ave	0.8909	0.9570		2.15	2.00	7.4	30.0
1,3,5-Trimethylbenzene	Ave	0.4479	0.4580		2.05	2.00	2.3	30.0
Alpha Methyl Styrene	Ave	0.3209	0.3683		2.30	2.00	14.8	30.0
Decane	Ave	0.5485	0.6000		2.19	2.00	9.4	30.0
tert-Butylbenzene	Ave	0.8748	0.9083		2.08	2.00	3.8	30.0
1,2,4-Trimethylbenzene	Ave	0.7768	0.8227		2.12	2.00	5.9	30.0
sec-Butylbenzene	Ave	1.140	1.218		2.14	2.00	6.8	30.0
1,3-Dichlorobenzene	Ave	0.5106	0.5063		1.98	2.00	-0.8	30.0
Benzyl chloride	Ave	0.5802	0.6046		2.08	2.00	4.2	30.0
1,4-Dichlorobenzene	Ave	0.4752	0.4613		1.94	2.00	-2.9	30.0
4-Isopropyltoluene	Ave	0.9141	0.9920		2.17	2.00	8.5	30.0
1,2,3-Trimethylbenzene	Ave	0.6330	0.6808		2.15	2.00	7.6	50.0
Butylcyclohexane	Ave	0.7225	0.7842		2.17	2.00	8.5	50.0
1,2-Dichlorobenzene	Ave	0.4994	0.5044		2.02	2.00	1.0	30.0
Indane	Ave	0.7098	0.7437		2.10	2.00	4.8	50.0
Butylbenzene	Ave	0.8482	0.8906		2.10	2.00	5.0	30.0
Indene	Ave	0.6202	0.6916		2.23	2.00	11.5	50.0
Undecane	Ave	0.5525	0.5629		2.04	2.00	1.9	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.8571	0.8905		2.08	2.00	3.9	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.8611	0.9132		2.12	2.00	6.1	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5621	0.5630		2.00	2.00	0.2	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6963	0.7114		2.04	2.00	2.2	50.0
Dodecane	Ave	0.5721	0.5508		1.93	2.00	-3.7	30.0
1,2,4-Trichlorobenzene	Ave	0.2222	0.2304		2.07	2.00	3.7	30.0
Naphthalene	Ave	0.6294	0.5990		1.90	2.00	-4.8	30.0
Benzo(b)thiophene	Ave	0.4265	0.4074		1.91	2.00	-4.5	50.0
Hexachlorobutadiene	Ave	0.4540	0.4232		1.86	2.00	-6.8	30.0
1,2,3-Trichlorobenzene	Ave	0.2871	0.2741		1.91	2.00	-4.5	30.0
2-Methylnaphthalene	Ave	0.0669	0.0654		12.2	12.5	-2.4	50.0
1-Methylnaphthalene	Ave	0.0690	0.0672		12.2	12.5	-2.7	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7075	0.7164		4.05	4.00	1.3	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JCCVC17.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 17-Mar-2014 10:32:30 ALS Bottle#: 9 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J031714,TO15,,140-0000526-002
 Operator ID: 060487 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub3
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:26:34 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:26:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.387	0.0	91	388766	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.544	0.0	93	1692326	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.203	16.203	0.0	87	1272779	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.822	17.822	0.0	91	911756	4.05	
6 Chlorodifluoromethane	67	3.964	3.964	0.0	97	80319	2.00	
7 Propene	41	3.975	3.975	0.0	99	224244	1.88	
8 Dichlorodifluoromethane	85	4.034	4.034	0.0	100	786535	2.04	
9 Chloromethane	52	4.233	4.233	0.0	98	87846	2.01	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.239	0.0	91	650971	2.24	
11 Acetaldehyde	44	4.400	4.400	0.0	99	316314	8.25	
12 Vinyl chloride	62	4.422	4.422	0.0	99	297674	2.07	
14 Butadiene	54	4.518	4.518	0.0	67	201839	2.02	
13 Butane	43	4.518	4.518	0.0	85	388857	1.90	
15 Bromomethane	94	4.874	4.874	0.0	99	306055	2.09	
16 Chloroethane	64	5.030	5.030	0.0	99	134206	2.02	
17 Ethanol	31	5.121	5.121	0.0	94	278820	8.93	
18 Vinyl bromide	106	5.358	5.358	0.0	97	258777	2.08	
19 2-Methylbutane	43	5.411	5.411	0.0	92	318407	1.93	
20 Trichlorofluoromethane	101	5.648	5.648	0.0	98	708543	2.09	
21 Acrolein	56	5.648	5.648	0.0	89	51016	1.61	
22 Acetonitrile	40	5.718	5.718	0.0	100	58877	1.68	
23 Acetone	58	5.772	5.772	0.0	91	61746	1.12	
24 Isopropyl alcohol	45	5.853	5.853	0.0	96	267525	1.83	
25 Pentane	72	5.885	5.885	0.0	97	43541	2.08	
26 Ethyl ether	31	6.057	6.057	0.0	93	192054	1.89	
27 1,1-Dichloroethene	96	6.396	6.396	0.0	98	218993	2.01	
28 2-Methyl-2-propanol	59	6.477	6.477	0.0	95	317047	1.76	
29 Acrylonitrile	53	6.493	6.493	0.0	92	99545	1.72	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.584	6.584	0.0	95	482455	2.06	
31 Methylene Chloride	84	6.762	6.762	0.0	94	204003	1.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.778	6.778	0.0	93	195116	1.80	
33 Carbon disulfide	76	6.939	6.939	0.0	99	743735	2.03	
34 trans-1,2-Dichloroethene	96	7.606	7.606	0.0	98	258649	1.97	
35 2-Methylpentane	43	7.628	7.628	0.0	95	578690	1.93	
36 Methyl tert-butyl ether	73	7.730	7.730	0.0	96	372561	1.88	
37 1,1-Dichloroethane	63	8.042	8.042	0.0	100	396970	1.93	
38 Vinyl acetate	43	8.139	8.139	0.0	100	314963	1.75	
39 2-Butanone (MEK)	72	8.596	8.596	0.0	98	65140	1.77	
40 Hexane	56	8.639	8.639	0.0	90	195334	1.87	
41 cis-1,2-Dichloroethene	96	9.048	9.048	0.0	95	222462	1.98	
42 Ethyl acetate	43	9.220	9.220	0.0	97	291562	1.82	
43 Chloroform	83	9.398	9.398	0.0	96	439818	1.94	
44 Tetrahydrofuran	42	9.807	9.807	0.0	94	157439	1.75	
45 1,1,1-Trichloroethane	97	10.447	10.447	0.0	96	457418	1.94	
46 1,2-Dichloroethane	62	10.543	10.543	0.0	97	274723	2.09	
47 n-Butanol	31	10.947	10.947	0.0	87	68459	1.85	
48 Benzene	78	11.028	11.028	0.0	97	595946	2.05	
49 Cyclohexane	69	11.033	11.033	0.0	93	119849	2.09	
50 Carbon tetrachloride	117	11.055	11.055	0.0	97	510450	2.13	
51 2,3-Dimethylpentane	71	11.146	11.146	0.0	92	136343	1.99	
52 Thiophene	84	11.297	11.297	0.0	96	372667	2.08	
53 Isooctane	57	11.765	11.765	0.0	98	1000079	2.02	
54 n-Heptane	71	12.125	12.125	0.0	92	207312	2.02	
55 1,2-Dichloropropane	63	12.211	12.211	0.0	89	200370	2.04	
56 Trichloroethene	130	12.249	12.249	0.0	92	285372	2.03	
57 Dibromomethane	93	12.329	12.329	0.0	93	261924	2.03	
59 Dichlorobromomethane	83	12.469	12.469	0.0	99	428902	2.09	
58 1,4-Dioxane	88	12.475	12.475	0.0	86	64920	1.85	
60 Methyl methacrylate	41	12.539	12.539	0.0	91	166715	1.89	
61 Methylcyclohexane	83	13.007	13.007	0.0	96	392541	2.01	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.373	0.0	98	330896	1.87	
63 cis-1,3-Dichloropropene	75	13.443	13.443	0.0	95	283739	2.04	
64 trans-1,3-Dichloropropene	75	14.121	14.121	0.0	98	238248	2.26	
65 Toluene	91	14.261	14.261	0.0	93	532690	2.26	
66 1,1,2-Trichloroethane	83	14.320	14.320	0.0	97	173618	2.32	
67 2-Methylthiophene	97	14.411	14.411	0.0	97	497840	2.35	
68 3-Methylthiophene	97	14.605	14.605	0.0	99	500412	2.35	
69 2-Hexanone	58	14.686	14.686	0.0	93	162526	2.10	
70 n-Octane	85	14.922	14.922	0.0	94	206192	2.38	
71 Chlorodibromomethane	129	15.025	15.025	0.0	96	401239	2.43	
72 Ethylene Dibromide	107	15.315	15.315	0.0	98	288290	2.25	
73 Tetrachloroethene	129	15.390	15.390	0.0	94	247162	2.25	
75 Chlorobenzene	112	16.251	16.251	0.0	88	442271	2.19	
74 2,3-Dimethylheptane	43	16.256	16.256	0.0	95	614129	2.36	
76 Ethylbenzene	91	16.531	16.531	0.0	98	554246	2.13	
77 2-Ethylthiophene	97	16.633	16.633	0.0	98	445888	2.18	
78 m-Xylene & p-Xylene	91	16.692	16.692	0.0	100	855589	4.07	
79 n-Nonane	57	17.096	17.096	0.0	92	383348	2.34	
81 Bromoform	173	17.144	17.144	0.0	94	314011	2.41	
80 Styrene	104	17.155	17.155	0.0	98	309638	2.14	
82 o-Xylene	91	17.214	17.214	0.0	96	445516	2.09	
83 1,1,2,2-Tetrachloroethane	83	17.526	17.526	0.0	99	381427	2.19	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
84 1,2,3-Trichloropropane	110	17.687	17.687	0.0	97	90450	2.16	
85 Isopropylbenzene	105	17.790	17.790	0.0	97	640610	2.11	
86 N-Propylbenzene	120	18.306	18.306	0.0	98	170240	2.12	
87 2-Chlorotoluene	126	18.354	18.354	0.0	97	175968	2.10	
88 4-Ethyltoluene	105	18.451	18.451	0.0	98	609011	2.15	
89 1,3,5-Trimethylbenzene	120	18.521	18.521	0.0	92	291482	2.05	
90 Alpha Methyl Styrene	118	18.742	18.742	0.0	87	234378	2.30	
91 n-Decane	57	18.790	18.790	0.0	89	381834	2.19	
92 tert-Butylbenzene	119	18.930	18.930	0.0	89	578000	2.08	
93 1,2,4-Trimethylbenzene	105	18.946	18.946	0.0	91	523540	2.12	
94 sec-Butylbenzene	105	19.194	19.194	0.0	98	774964	2.14	
95 1,3-Dichlorobenzene	146	19.215	19.215	0.0	97	322174	1.98	
96 Benzyl chloride	91	19.280	19.280	0.0	98	384785	2.08	
97 1,4-Dichlorobenzene	146	19.296	19.296	0.0	92	293563	1.94	
98 4-Isopropyltoluene	119	19.350	19.350	0.0	88	631269	2.17	
99 1,2,3-Trimethylbenzene	105	19.403	19.403	0.0	98	433254	2.15	
100 Butylcyclohexane	83	19.457	19.457	0.0	94	499055	2.17	
101 2,3-Dihydroindene	117	19.651	19.651	0.0	90	473269	2.10	
102 1,2-Dichlorobenzene	146	19.651	19.651	0.0	81	321017	2.02	
103 n-Butylbenzene	91	19.775	19.775	0.0	96	566737	2.10	
104 Indene	116	19.775	19.775	0.0	86	440151	2.23	
105 Undecane	57	20.065	20.065	0.0	96	358215	2.04	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.135	20.135	0.0	98	566709	2.08	
108 1,2,4,5-Tetramethylbenzene	119	20.522	20.522	0.0	97	581164	2.12	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	95	358285	2.00	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.996	0.0	97	452737	2.04	
110 Dodecane	57	21.146	21.146	0.0	95	350530	1.93	
111 1,2,4-Trichlorobenzene	180	21.372	21.372	0.0	94	146645	2.07	
112 Naphthalene	128	21.523	21.523	0.0	99	381189	1.90	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	99	259265	1.91	
114 Hexachlorobutadiene	225	21.727	21.727	0.0	86	269289	1.86	
115 1,2,3-Trichlorobenzene	180	21.797	21.797	0.0	95	174443	1.91	
116 2-Methylnaphthalene	142	22.443	22.443	0.0	99	259974	12.2	
117 1-Methylnaphthalene	142	22.577	22.577	0.0	97	267179	12.2	
139 Isopropyl ether	45	8.790	8.790	0.0	97	497680	NR	
142 Tert-butyl ethyl ether	59	9.478	9.478	0.0	96	460058	NR	
140 Tert-amyl methyl ether	73	11.474	11.474	0.0	93	434482	NR	
A 118 C6 Range	1	8.639	8.569 - 8.709		0	2124900	1.87	
A 122 Toluene Range	1	14.261	14.231 - 14.291		0	1284784	2.23	
A 123 C8 Range	1	14.920	14.874 - 14.982		0	1960561	2.20	
S 124 Xylenes, Total	100				0		6.15	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JCCVC17.D

Injection Date: 17-Mar-2014 10:32:30

Instrument ID: MJ

Operator ID: 060487

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

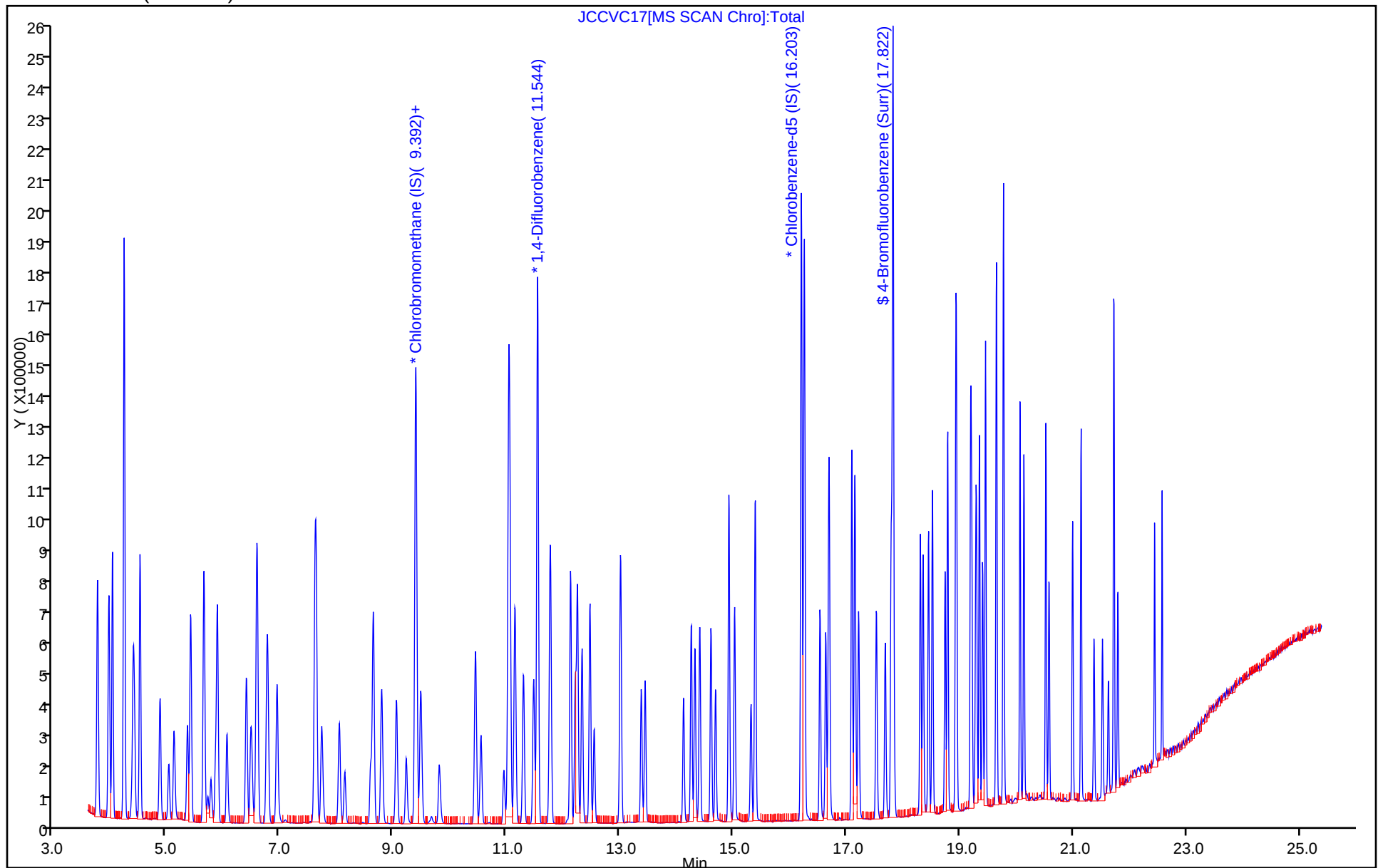
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D
Lims ID: BFB Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 11-Mar-2014 12:12:30 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: BFB,,3,,,BFB
Misc. Info.: J031114I,BFB,,,,140-0000516-001
Operator ID: 7126 Instrument ID: MJ
Method: \\KNXCHROM\ChromData\MJ\20140311-516.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Mar-2014 13:55:12 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
\$ 4 BFB	95	4.067	4.067	0.0	0	577512	NR	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFBC11.D

Injection Date: 11-Mar-2014 12:12:30

Instrument ID: MJ

Lims ID: BFB

Lab Sample ID:

Client ID:

Operator ID: 7126

ALS Bottle#: 16

Worklist Smp#: 1

Purge Vol: 500.000 mL

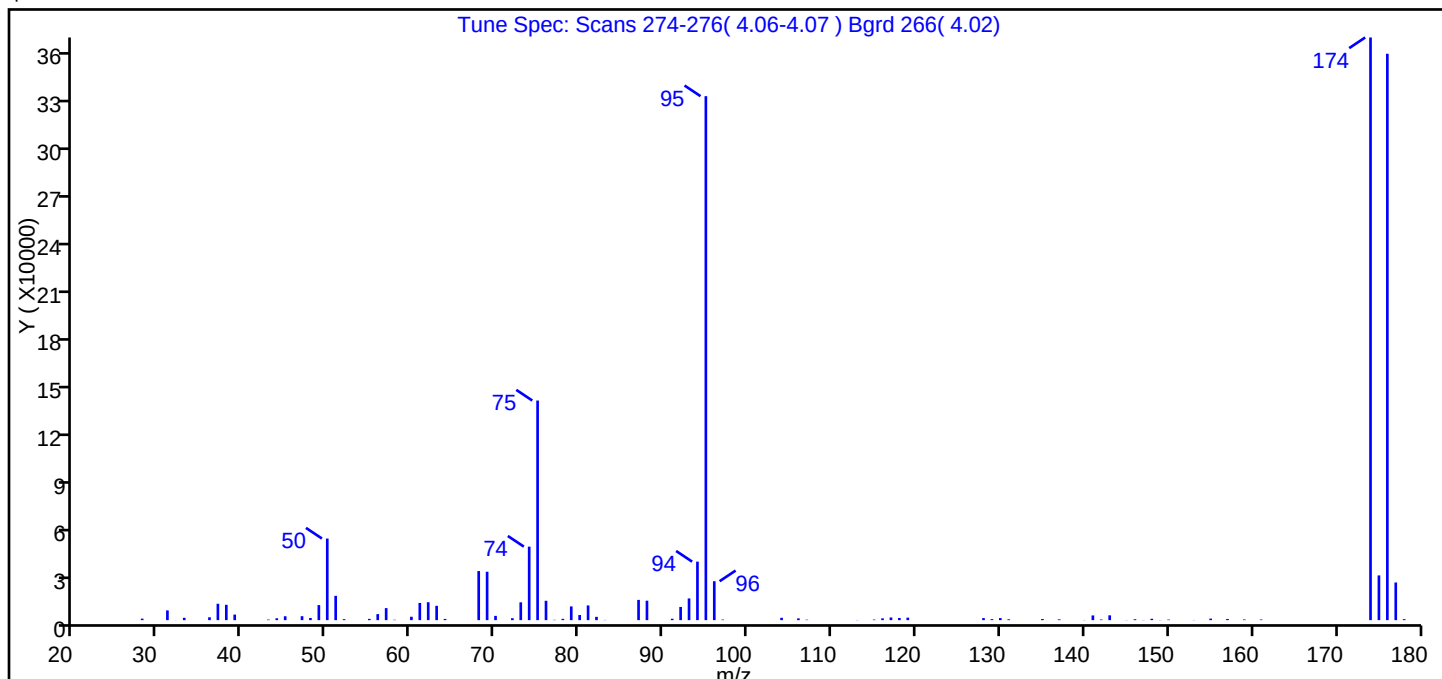
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.60
75	30.00 - 60.00% of mass 95	41.90
96	5.00 - 9.00% of mass 95	7.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	111.20
175	5.00 - 9.00% of mass 174	8.50 (7.70)
176	95.00 - 101.00% of mass 174	108.10 (97.20)
177	5.00 - 9.00% of mass 176	7.20 (6.60)

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFB11.D\MJ_TO15.rslt\spectra.d

Injection Date: 11-Mar-2014 12:12:30

Spectrum: Tune Spec: Scans 274-276(4.06-4.07) Bgrd 266(4.02)

Base Peak: 174.00

Minimum % Base Peak: 0

Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	953	61.00	10830	92.00	8305	141.00	2961
31.00	6139	62.00	11271	93.00	13655	142.00	393
32.00	34	63.00	9021	94.00	36808	143.00	3028
33.00	1475	64.00	763	95.00	329664	145.00	103
36.00	1812	68.00	30888	96.00	24488	146.00	580
37.00	10300	69.00	30448	97.00	363	147.00	102
38.00	9642	70.00	2681	104.00	1481	148.00	873
39.00	3502	72.00	1219	106.00	1093	149.00	103
43.00	373	73.00	11227	107.00	287	150.00	366
44.00	1174	74.00	46248	113.00	104	153.00	104
45.00	2439	75.00	138176	115.00	366	155.00	974
47.00	2486	76.00	12185	116.00	1129	157.00	736
48.00	1370	77.00	211	117.00	1684	159.00	420
49.00	9471	78.00	817	118.00	1356	161.00	400
50.00	51344	79.00	8634	119.00	1577	174.00	366592
51.00	15289	80.00	3213	128.00	1285	175.00	28144
52.00	627	81.00	9265	129.00	646	176.00	356352
55.00	803	82.00	2083	130.00	1299	177.00	23688
56.00	3804	83.00	127	131.00	535	178.00	619
57.00	7571	87.00	12739	135.00	724		
58.00	240	88.00	12242	137.00	514		
60.00	2142	91.00	876	140.00	107		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JBFB11.D

Injection Date: 11-Mar-2014 12:12:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: BFB

Lab Sample ID:

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

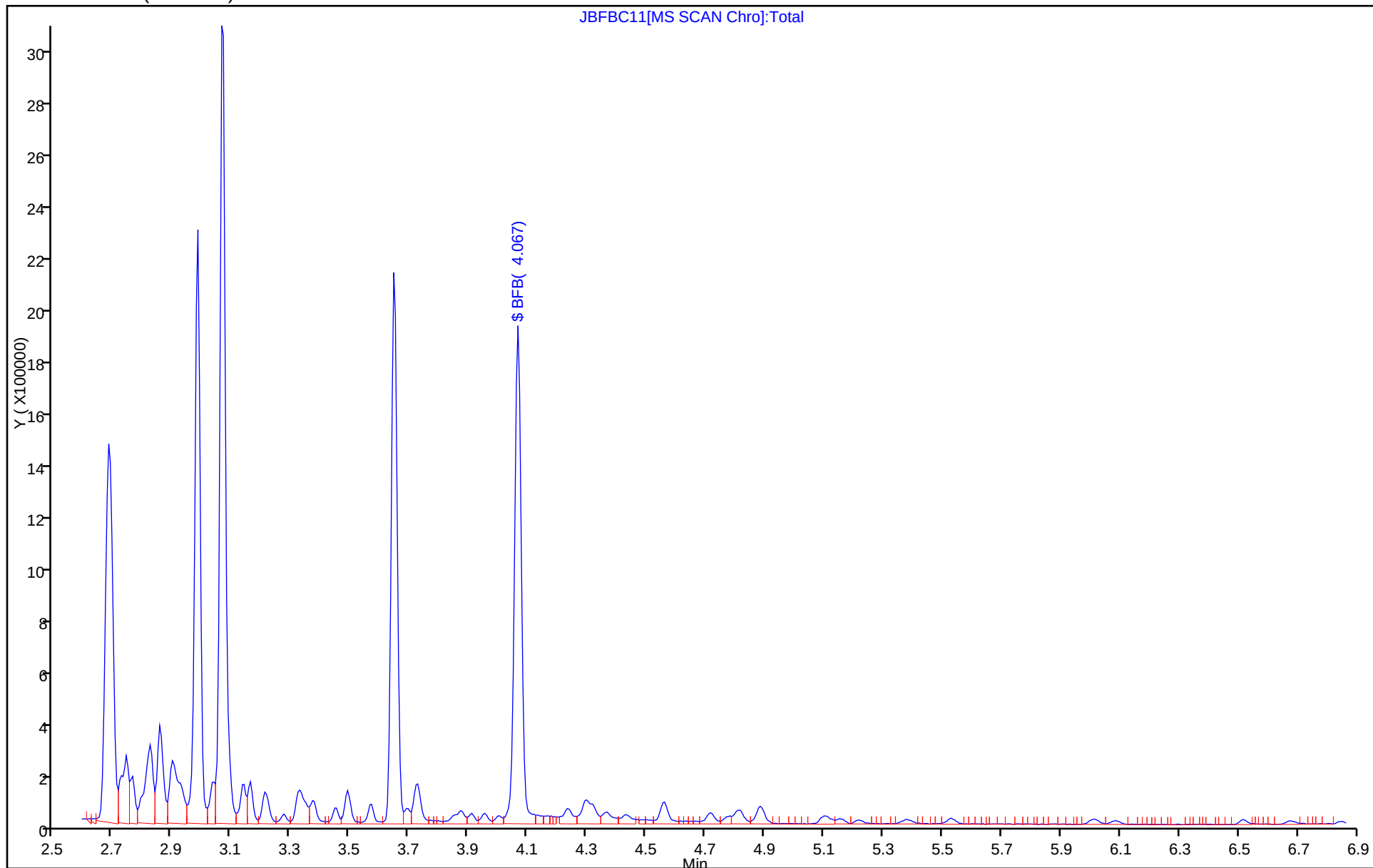
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JBFBC17.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 17-Mar-2014 10:03:30 ALS Bottle#: 16 Worklist Smp#: 1
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: BFB,,3,,,bfb
Misc. Info.: J031714,BFB,,140-0000526-001
Operator ID: 060487 Instrument ID: MJ
Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 18-Mar-2014 09:22:57 Calib Date: 11-Mar-2014 19:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:22:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
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\$ 4 BFB	95	4.046	4.046	0.0	0	965583	NR	
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TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JBFBC17.D

Injection Date: 17-Mar-2014 10:03:30

Instrument ID: MJ

Lims ID: bfb

Client ID:

Operator ID: 060487

ALS Bottle#: 16

Worklist Smp#: 1

Purge Vol: 500.000 mL

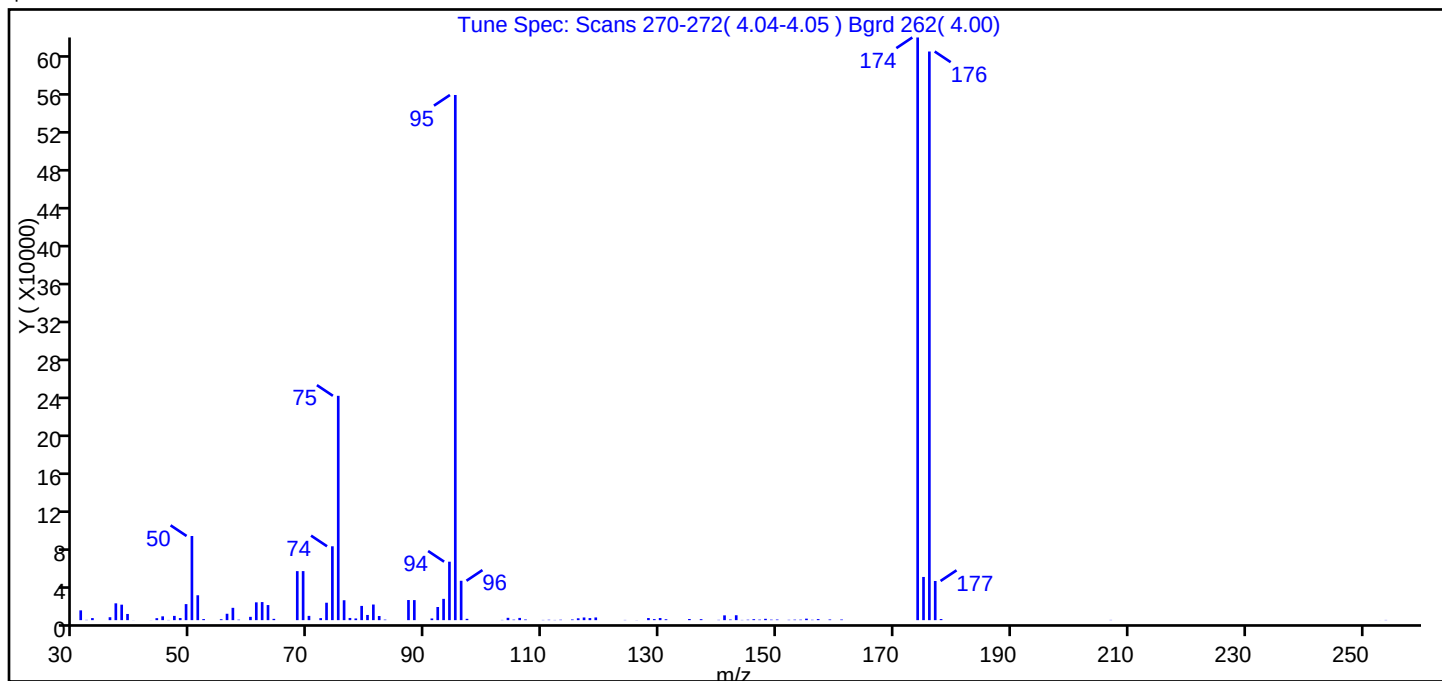
Dil. Factor: 1.0000

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.00
75	30.00 - 60.00% of mass 95	42.70
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	111.00
175	5.00 - 9.00% of mass 174	8.20 (7.40)
176	95.00 - 101.00% of mass 174	108.30 (97.60)
177	5.00 - 9.00% of mass 176	7.50 (6.90)

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JBFB17.D\MJ_TO15.rslt\spectra.d
Injection Date: 17-Mar-2014 10:03:30
Spectrum: Tune Spec: Scans 270-272(4.04-4.05) Bgrd 262(4.00)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	10402	63.00	16033	103.00	232	144.00	234
32.00	294	64.00	1376	104.00	2478	145.00	467
33.00	2180	68.00	52088	105.00	534	146.00	1024
36.00	3095	69.00	52120	106.00	2371	147.00	560
37.00	17872	70.00	4536	107.00	689	148.00	1440
38.00	16440	72.00	2134	110.00	237	149.00	530
39.00	6566	73.00	18512	111.00	421	150.00	652
40.00	73	74.00	78488	112.00	215	152.00	362
41.00	6	75.00	238400	113.00	453	153.00	532
43.00	77	76.00	21144	115.00	697	154.00	508
44.00	2092	77.00	2323	116.00	1965	155.00	1585
45.00	4049	78.00	1782	117.00	2835	156.00	385
46.00	206	79.00	15125	118.00	2197	157.00	1109
47.00	4519	80.00	5507	119.00	2857	159.00	725
48.00	2247	81.00	16608	124.00	235	161.00	657
49.00	17040	82.00	4397	126.00	114	174.00	619200
50.00	89424	83.00	549	128.00	2236	175.00	45904
51.00	26440	87.00	21376	129.00	1099	176.00	604288
52.00	1128	88.00	21288	130.00	2247	177.00	41624
55.00	967	91.00	1761	131.00	957	178.00	1156
56.00	6787	92.00	13964	135.00	1207	207.00	249
57.00	13095	93.00	22624	137.00	1032	253.00	41
58.00	522	94.00	62120	140.00	313	254.00	223
60.00	3501	95.00	558080	141.00	5088		
61.00	18928	96.00	41864	142.00	671		
62.00	19200	97.00	1400	143.00	5212		

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JBFBC17.D

Injection Date: 17-Mar-2014 10:03:30

Instrument ID: MJ

Operator ID: 060487

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Purge Vol: 500.000 mL

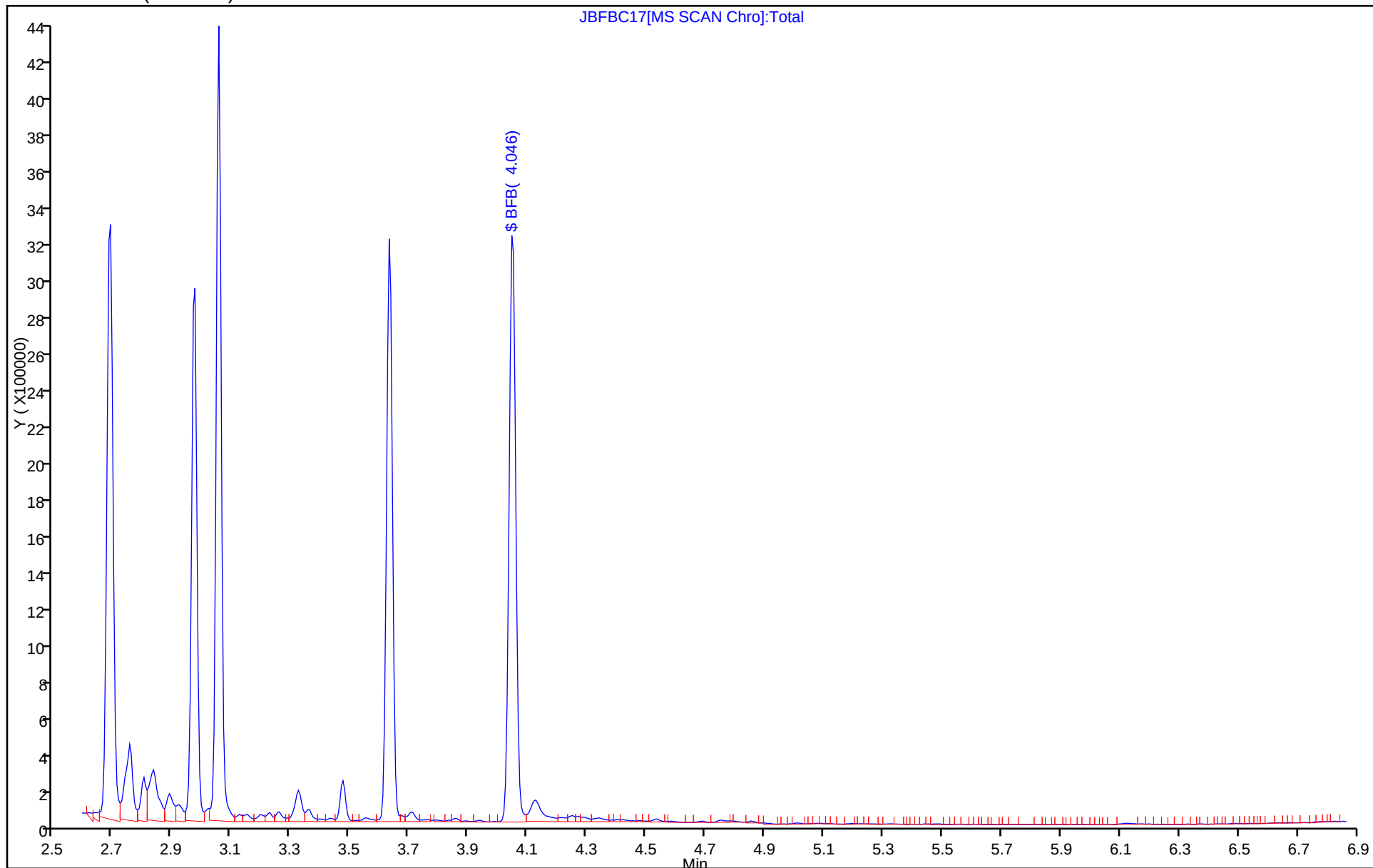
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-968/4
 Matrix: Air Lab File ID: MB500mL.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 13:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	ND		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-01-4	Vinyl chloride	62.50	ND		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-968/4
 Matrix: Air Lab File ID: MB500mL.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 03/17/2014 13:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44	
75-35-4	1,1-Dichloroethene	96.94	ND		0.32	
56-23-5	Carbon tetrachloride	153.81	ND		0.25	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.54	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32	
79-01-6	Trichloroethene	131.39	ND		0.21	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\MB500mL.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 17-Mar-2014 13:02:30 ALS Bottle#: 16 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: mb500mL
 Misc. Info.: J031714,TO15,,140-0000526-004
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:27:26 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:27:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.384	9.387	-0.003	89	395431	4.00	
* 2 1,4-Difluorobenzene	114	11.541	11.544	-0.003	94	1884829	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.200	16.203	-0.003	89	1573765	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.819	17.822	-0.003	91	1125435	4.04	
28 2-Methyl-2-propanol	59	6.501	6.477	0.024	42	2758	0.0151	
140 Tert-amyl methyl ether	73	11.541	11.474	0.067	12	20732	NR	
T 136 Methanol TIC	31	4.381	4.399	-0.019	95	5244	0.0530	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\MB500mL.D

Injection Date: 17-Mar-2014 13:02:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: mb

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

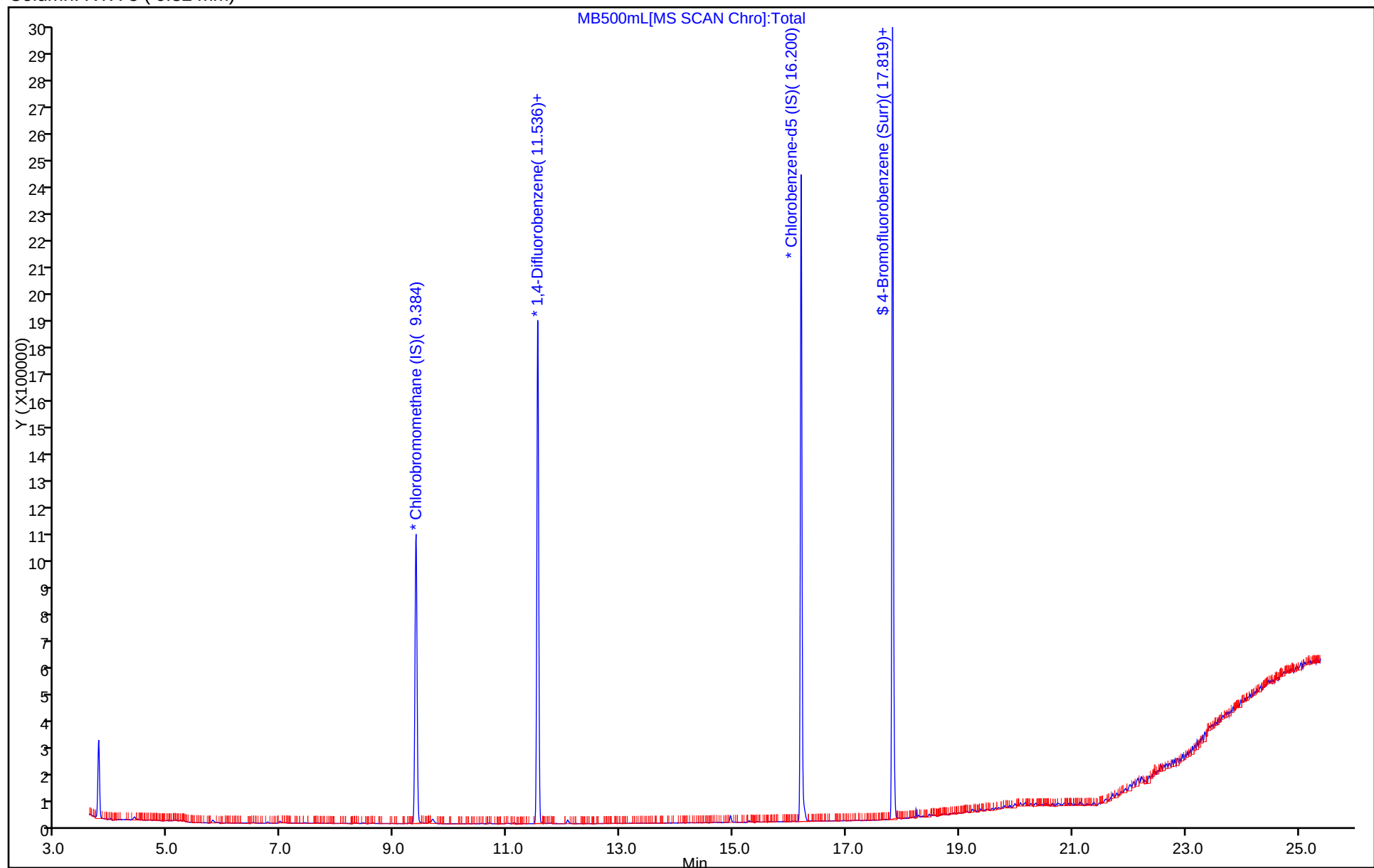
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-968/1002
 Matrix: Air Lab File ID: JCCVC17-LCS.d
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 100 (mL) Date Analyzed: 03/17/2014 10:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 968 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	1.94		0.080	
75-35-4	1,1-Dichloroethene	96.94	2.01		0.080	
56-23-5	Carbon tetrachloride	153.81	2.13		0.040	
156-59-2	cis-1,2-Dichloroethene	96.94	1.98		0.080	
127-18-4	Tetrachloroethene	165.83	2.25		0.080	
156-60-5	trans-1,2-Dichloroethene	96.94	1.97		0.080	
79-01-6	Trichloroethene	131.39	2.03		0.040	
75-01-4	Vinyl chloride	62.50	2.07		0.080	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JCCVC17-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 17-Mar-2014 10:32:30 ALS Bottle#: 9 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: CCV/LCS,,2,6,,ccvis
 Misc. Info.: J031714,TO15,,140-0000526-002
 Operator ID: 060487 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140314-526.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 18-Mar-2014 09:26:34 Calib Date: 11-Mar-2014 19:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\KNXCHROM\ChromData\MJ\20140311-516.b\JICC119.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: barlozhetskayaa

Date: 18-Mar-2014 09:26:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.387	9.387	0.0	91	388766	4.00	
* 2 1,4-Difluorobenzene	114	11.544	11.544	0.0	93	1692326	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.203	16.203	0.0	87	1272779	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.822	17.822	0.0	91	911756	4.05	
6 Chlorodifluoromethane	67	3.964	3.964	0.0	97	80319	2.00	
7 Propene	41	3.975	3.975	0.0	99	224244	1.88	
8 Dichlorodifluoromethane	85	4.034	4.034	0.0	100	786535	2.04	
9 Chloromethane	52	4.233	4.233	0.0	98	87846	2.01	
10 1,2-Dichloro-1,1,2,2-tetrafluoro	135	4.239	4.239	0.0	91	650971	2.24	
11 Acetaldehyde	44	4.400	4.400	0.0	99	316314	8.25	
12 Vinyl chloride	62	4.422	4.422	0.0	99	297674	2.07	
14 Butadiene	54	4.518	4.518	0.0	67	201839	2.02	
13 Butane	43	4.518	4.518	0.0	85	388857	1.90	
15 Bromomethane	94	4.874	4.874	0.0	99	306055	2.09	
16 Chloroethane	64	5.030	5.030	0.0	99	134206	2.02	
17 Ethanol	31	5.121	5.121	0.0	94	278820	8.93	
18 Vinyl bromide	106	5.358	5.358	0.0	97	258777	2.08	
19 2-Methylbutane	43	5.411	5.411	0.0	92	318407	1.93	
20 Trichlorofluoromethane	101	5.648	5.648	0.0	98	708543	2.09	
21 Acrolein	56	5.648	5.648	0.0	89	51016	1.61	
22 Acetonitrile	40	5.718	5.718	0.0	100	58877	1.68	
23 Acetone	58	5.772	5.772	0.0	91	61746	1.12	
24 Isopropyl alcohol	45	5.853	5.853	0.0	96	267525	1.83	
25 Pentane	72	5.885	5.885	0.0	97	43541	2.08	
26 Ethyl ether	31	6.057	6.057	0.0	93	192054	1.89	
27 1,1-Dichloroethene	96	6.396	6.396	0.0	98	218993	2.01	
28 2-Methyl-2-propanol	59	6.477	6.477	0.0	95	317047	1.76	
29 Acrylonitrile	53	6.493	6.493	0.0	92	99545	1.72	
30 1,1,2-Trichloro-1,2,2-trifluoro	101	6.584	6.584	0.0	95	482455	2.06	
31 Methylene Chloride	84	6.762	6.762	0.0	94	204003	1.96	
32 3-Chloro-1-propene	39	6.778	6.778	0.0	93	195116	1.80	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
33 Carbon disulfide	76	6.939	6.939	0.0	99	743735	2.03	
34 trans-1,2-Dichloroethene	96	7.606	7.606	0.0	98	258649	1.97	
35 2-Methylpentane	43	7.628	7.628	0.0	95	578690	1.93	
36 Methyl tert-butyl ether	73	7.730	7.730	0.0	96	372561	1.88	
37 1,1-Dichloroethane	63	8.042	8.042	0.0	100	396970	1.93	
38 Vinyl acetate	43	8.139	8.139	0.0	100	314963	1.75	
39 2-Butanone (MEK)	72	8.596	8.596	0.0	98	65140	1.77	
40 Hexane	56	8.639	8.639	0.0	90	195334	1.87	
41 cis-1,2-Dichloroethene	96	9.048	9.048	0.0	95	222462	1.98	
42 Ethyl acetate	43	9.220	9.220	0.0	97	291562	1.82	
43 Chloroform	83	9.398	9.398	0.0	96	439818	1.94	
44 Tetrahydrofuran	42	9.807	9.807	0.0	94	157439	1.75	
45 1,1,1-Trichloroethane	97	10.447	10.447	0.0	96	457418	1.94	
46 1,2-Dichloroethane	62	10.543	10.543	0.0	97	274723	2.09	
47 n-Butanol	31	10.947	10.947	0.0	87	68459	1.85	
48 Benzene	78	11.028	11.028	0.0	97	595946	2.05	
49 Cyclohexane	69	11.033	11.033	0.0	93	119849	2.09	
50 Carbon tetrachloride	117	11.055	11.055	0.0	97	510450	2.13	
51 2,3-Dimethylpentane	71	11.146	11.146	0.0	92	136343	1.99	
52 Thiophene	84	11.297	11.297	0.0	96	372667	2.08	
53 Isooctane	57	11.765	11.765	0.0	98	1000079	2.02	
54 n-Heptane	71	12.125	12.125	0.0	92	207312	2.02	
55 1,2-Dichloropropane	63	12.211	12.211	0.0	89	200370	2.04	
56 Trichloroethene	130	12.249	12.249	0.0	92	285372	2.03	
57 Dibromomethane	93	12.329	12.329	0.0	93	261924	2.03	
59 Dichlorobromomethane	83	12.469	12.469	0.0	99	428902	2.09	
58 1,4-Dioxane	88	12.475	12.475	0.0	86	64920	1.85	
60 Methyl methacrylate	41	12.539	12.539	0.0	91	166715	1.89	
61 Methylcyclohexane	83	13.007	13.007	0.0	96	392541	2.01	
62 4-Methyl-2-pentanone (MIBK)	43	13.373	13.373	0.0	98	330896	1.87	
63 cis-1,3-Dichloropropene	75	13.443	13.443	0.0	95	283739	2.04	
64 trans-1,3-Dichloropropene	75	14.121	14.121	0.0	98	238248	2.26	
65 Toluene	91	14.261	14.261	0.0	93	532690	2.26	
66 1,1,2-Trichloroethane	83	14.320	14.320	0.0	97	173618	2.32	
67 2-Methylthiophene	97	14.411	14.411	0.0	97	497840	2.35	
68 3-Methylthiophene	97	14.605	14.605	0.0	99	500412	2.35	
69 2-Hexanone	58	14.686	14.686	0.0	93	162526	2.10	
70 n-Octane	85	14.922	14.922	0.0	94	206192	2.38	
71 Chlorodibromomethane	129	15.025	15.025	0.0	96	401239	2.43	
72 Ethylene Dibromide	107	15.315	15.315	0.0	98	288290	2.25	
73 Tetrachloroethene	129	15.390	15.390	0.0	94	247162	2.25	
75 Chlorobenzene	112	16.251	16.251	0.0	88	442271	2.19	
74 2,3-Dimethylheptane	43	16.256	16.256	0.0	95	614129	2.36	
76 Ethylbenzene	91	16.531	16.531	0.0	98	554246	2.13	
77 2-Ethylthiophene	97	16.633	16.633	0.0	98	445888	2.18	
78 m-Xylene & p-Xylene	91	16.692	16.692	0.0	100	855589	4.07	
79 n-Nonane	57	17.096	17.096	0.0	92	383348	2.34	
81 Bromoform	173	17.144	17.144	0.0	94	314011	2.41	
80 Styrene	104	17.155	17.155	0.0	98	309638	2.14	
82 o-Xylene	91	17.214	17.214	0.0	96	445516	2.09	
83 1,1,2,2-Tetrachloroethane	83	17.526	17.526	0.0	99	381427	2.19	
84 1,2,3-Trichloropropane	110	17.687	17.687	0.0	97	90450	2.16	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
85 Isopropylbenzene	105	17.790	17.790	0.0	97	640610	2.11	
86 N-Propylbenzene	120	18.306	18.306	0.0	98	170240	2.12	
87 2-Chlorotoluene	126	18.354	18.354	0.0	97	175968	2.10	
88 4-Ethyltoluene	105	18.451	18.451	0.0	98	609011	2.15	
89 1,3,5-Trimethylbenzene	120	18.521	18.521	0.0	92	291482	2.05	
90 Alpha Methyl Styrene	118	18.742	18.742	0.0	87	234378	2.30	
91 n-Decane	57	18.790	18.790	0.0	89	381834	2.19	
92 tert-Butylbenzene	119	18.930	18.930	0.0	89	578000	2.08	
93 1,2,4-Trimethylbenzene	105	18.946	18.946	0.0	91	523540	2.12	
94 sec-Butylbenzene	105	19.194	19.194	0.0	98	774964	2.14	
95 1,3-Dichlorobenzene	146	19.215	19.215	0.0	97	322174	1.98	
96 Benzyl chloride	91	19.280	19.280	0.0	98	384785	2.08	
97 1,4-Dichlorobenzene	146	19.296	19.296	0.0	92	293563	1.94	
98 4-Isopropyltoluene	119	19.350	19.350	0.0	88	631269	2.17	
99 1,2,3-Trimethylbenzene	105	19.403	19.403	0.0	98	433254	2.15	
100 Butylcyclohexane	83	19.457	19.457	0.0	94	499055	2.17	
101 2,3-Dihydroindene	117	19.651	19.651	0.0	90	473269	2.10	
102 1,2-Dichlorobenzene	146	19.651	19.651	0.0	81	321017	2.02	
103 n-Butylbenzene	91	19.775	19.775	0.0	96	566737	2.10	
104 Indene	116	19.775	19.775	0.0	86	440151	2.23	
105 Undecane	57	20.065	20.065	0.0	96	358215	2.04	
106 1,2-Dimethyl-4-Ethylbenzene	119	20.135	20.135	0.0	98	566709	2.08	
108 1,2,4,5-Tetramethylbenzene	119	20.522	20.522	0.0	97	581164	2.12	
107 1,2,3,5-Tetramethylbenzene	119	20.582	20.582	0.0	95	358285	2.00	
109 1,2,3,4-Tetramethylbenzene	119	20.996	20.996	0.0	97	452737	2.04	
110 Dodecane	57	21.146	21.146	0.0	95	350530	1.93	
111 1,2,4-Trichlorobenzene	180	21.372	21.372	0.0	94	146645	2.07	
112 Naphthalene	128	21.523	21.523	0.0	99	381189	1.90	
113 Benzo(b)thiophene	134	21.631	21.631	0.0	99	259265	1.91	
114 Hexachlorobutadiene	225	21.727	21.727	0.0	86	269289	1.86	
115 1,2,3-Trichlorobenzene	180	21.797	21.797	0.0	95	174443	1.91	
116 2-Methylnaphthalene	142	22.443	22.443	0.0	99	259974	12.2	
117 1-Methylnaphthalene	142	22.577	22.577	0.0	97	267179	12.2	
139 Isopropyl ether	45	8.790	8.790	0.0	97	497680	NR	
142 Tert-butyl ethyl ether	59	9.478	9.478	0.0	96	460058	NR	
140 Tert-amyl methyl ether	73	11.474	11.474	0.0	93	434482	NR	
A 118 C6 Range	1	8.639	8.569 - 8.709		0	2124900	1.87	
A 122 Toluene Range	1	14.261	14.231 - 14.291		0	1284784	2.23	
A 123 C8 Range	1	14.920	14.874 - 14.982		0	1960561	2.20	
S 124 Xylenes, Total	100				0		6.15	

Report Date: 18-Mar-2014 09:26:39

Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Laboratories

Data File: \\KNXCHROM\ChromData\MJ\20140314-526.b\JCCVC17-LCS.d

Injection Date: 17-Mar-2014 10:32:30

Instrument ID: MJ

Operator ID: 060487

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

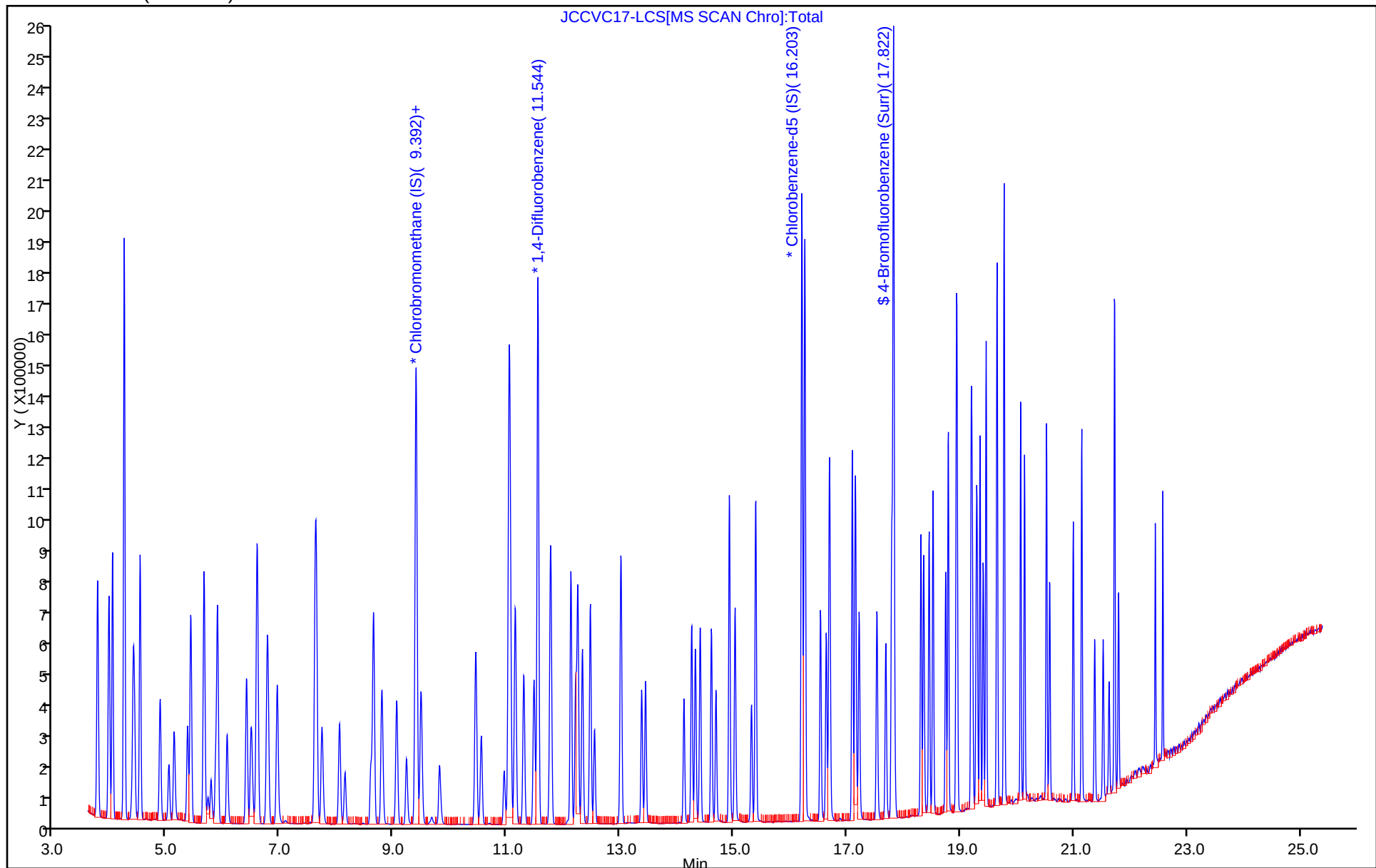
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-1042-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/11/2014 12:12Analysis Batch Number: 946 End Date: 03/11/2014 23:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-946/1		03/11/2014 12:12	1	JBFBC11.D	RTX-5 0.32 (mm)
IC 140-946/2		03/11/2014 12:40	1	JICC111.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 12:40	1		RTX-5 0.32 (mm)
IC 140-946/3		03/11/2014 13:35	1	JICC112.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 13:35	1		RTX-5 0.32 (mm)
IC 140-946/4		03/11/2014 14:29	1	JICC113.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 14:29	1		RTX-5 0.32 (mm)
IC 140-946/5		03/11/2014 15:23	1	JICC114.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 15:23	1		RTX-5 0.32 (mm)
IC 140-946/6		03/11/2014 16:17	1	JICC115.D	RTX-5 0.32 (mm)
ICIS 140-946/7		03/11/2014 17:11	1	JICC116.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 17:11	1		RTX-5 0.32 (mm)
IC 140-946/8		03/11/2014 18:06	1	JICC117.D	RTX-5 0.32 (mm)
IC 140-946/9		03/11/2014 19:02	1	JICC118.D	RTX-5 0.32 (mm)
IC 140-946/10		03/11/2014 19:57	1	JICC119.D	RTX-5 0.32 (mm)
ZZZZZ		03/11/2014 22:39	1		RTX-5 0.32 (mm)
ICV 140-946/14		03/11/2014 23:33	1	JLCSC11.D	RTX-5 0.32 (mm)

140311

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	Date	Time
BFB	16 - 101 mL	3/11/2014	12:12:53 PM
ICAL01	8 - 101 mL	3/11/2014	12:40:52 PM
ICAL02	8 - 202 mL	3/11/2014	1:34:59 PM
ICAL03	11 - 33 mL	3/11/2014	2:29:18 PM
ICAL04	11 - 80 mL	3/11/2014	3:23:49 PM
ICAL05	11 - 201 mL	3/11/2014	4:17:41 PM
ICAL06	12 - 200 mL	3/11/2014	5:11:27 PM
ICAL07	13 - 201 mL	3/11/2014	6:06:24 PM
ICAL08	15 - 100 mL	3/11/2014	7:02:10 PM
ICAL09	15 - 201 mL	3/11/2014	7:57:05 PM
BLK	16 - 201 mL	3/11/2014	8:51:32 PM
BLK	16 - 201 mL	3/11/2014	9:44:49 PM
MDLV992-01	8 - 50 mL	3/11/2014	10:39:32 PM
LCS /ICV	1 - 100 mL	3/11/2014	11:33:19 PM
ICV	2 - 201 mL	3/12/2014	12:27:51 AM

-use as ICV

TestAmerica Knoxville GC/MS Air - Initial Calibration Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 14 & KNOX-MS-0023, Rev 1

Analysis Date: 3/11/14	Instrument: MJ	Chrom WL #: 516	TALS Batch & Event #	TO14/15: 946 / 143	AFCEE: 947-144
				DOD: 948 / 145	OHIO: 949 / 146

Chrom/Worklist Review	1 st	Comments	2 nd
1. Re-read each Limit Group [method editor-limit groups]	✓		
2. Are the reagents and init/final volumes correct and first level "unlock/clear"? (Verify reagents & amt. injected at each level) [WL Sample Reagents Tab vs. Entech]	✓		✓
3. Files linked properly to calibration levels? [Sample List- Lab ID vs. Info]	✓		✓
4. Did BFB meet tune criteria? [F8]	✓		✓
5. Were all standards injected within 24 hr of BFB? [F7]	✓		✓
6. High point checked for saturation and point removed if so? [Chrom]	✓		✓
7. If manual integrations performed, are they properly performed, correct, baseline clearly identified, and correct reason given? [Chrom]	NA		NA
8. RT for each IS ±20 sec avg. RT? [F6 1stdRec]	✓		✓
9. Area for each IS ± 40% avg. area? [F6 1stdRec]	✓		✓
10. Each analyte ± 0.06 RRT of avg. RRT? [F6 - RRT]	✓		✓
11. Elution order checked on isomeric pairs? [Chrom]			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane	✓		✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane	✓		✓
• vinyl acetate / hexane	✓		✓
• 2-methyl butane / acrolein	✓		✓
• cis- and trans- isomers	✓		✓
• ethyl benzene / m/p-xylene / o-xylene	✓		✓
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene/sec-butylbenzene	✓		✓
• tert-butylbenzene/4-isopropyltoluene	✓		✓
• 1,3-, 1,4-, and 1,2-dichlorobenzene	✓		✓
• 1,2,4,5-, 1,2,3,5-, and 1,2,3,4-tetramethylbenzenes	✓		✓
• 1,2,4- and 1,2,3-trichlorobenzenes	✓		✓
• 2-, and 1-methylnaphthalene	✓		✓
12. Upload ICAL.			

Analyst: **MS**

Date: **3/14/14**

2nd Level Reviewer: **MS**

Date: **3/14/14**

Comments:

Comments:

MLG Review

Comments:

TO-	AFC	DOD	OH	Comments	TO-	AFC	DOD	OH
13. Is %RSD for all target analytes < 30%? (with up to 2 compounds with RSD ≤ 40%) [F6 Σ]	✓	✓	✓	✓	✓	✓	✓	✓
14. Were at least 5 levels of each compound analyzed? [F6]	✓	✓	✓	✓	✓	✓	✓	✓
15. Is low level std at or <RL and are the remaining points consec.? [F6]	✓	✓	✓	✓	✓	✓	✓	✓
16. At least 6 consec. points used for quad curves; at least 5 consec. points for linear curves? Note: Ohio does not allow quad [F6]	NA		→		NA		→	
17. If curves were used, is correlation coefficient ≥ 0.990? [F6]	NA		→		NA		→	
18. Is the intercept less than the RL for each curve? [F6]	NA		→		NA		→	
19. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous. [Cntrl-C, details]	NA		→		NA		→	
20. Is the second source analysis within limits? [F8 - iev]	✓	✓	✓	✓	✓	✓	✓	✓

TALS Review

Comments:

TO-	AFC	DOD	OH	Comments	TO-	AFC	DOD	OH
21. Graphics uploaded? [Sample List Tab]	✓	✓	✓	✓	✓	✓	✓	✓
22. All points are in the most recent active calibration event? [Calibration Events - 'Fix ICAL linkage' if needed]	✓	✓	✓	✓	✓	✓	✓	✓
23. Runs linked to BFB? [QC Links]	✓	✓	✓	✓	✓	✓	✓	✓
24. If criteria not met, was a NCM generated?	NA		→		NA		→	
25. After review in TALS, approve the method in TALS.								
26. After verifying TALS is correct, lock method in Chrom <resolve any error issues>								
27. Checklist & Entech report scanned, attached & assigned properly?	✓	✓	✓	✓	✓	✓	✓	✓

Analyst: **MS**

Date: **3/14/14**

2nd Level Reviewer: **MS**

Date: **3/14/14**

Comments: **(LR) @ 8 for acetone, 2-methylstyrene, Indene, 1,2,4-trichlorobenzene & 108-109 extras**

Comments:

MS017r37, 1/22/2014

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica KnoxvilleJob No.: 140-1042-1

SDG No.: _____

Instrument ID: MJStart Date: 03/17/2014 10:03Analysis Batch Number: 968End Date: 03/18/2014 08:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-968/1		03/17/2014 10:03	1	JBFBC17.D	RTX-5 0.32 (mm)
CCVIS 140-968/2		03/17/2014 10:32	1	JCCVC17.D	RTX-5 0.32 (mm)
LCS 140-968/1002		03/17/2014 10:32	1	JCCVC17-LCS.d	RTX-5 0.32 (mm)
MB 140-968/4		03/17/2014 13:02	1	MB500mL.D	RTX-5 0.32 (mm)
140-1042-1	#60-SS-2014	03/17/2014 13:58	1	JC17P101.D	RTX-5 0.32 (mm)
140-1042-2	#60-BA-2014	03/17/2014 14:52	1	JC17P102.D	RTX-5 0.32 (mm)
140-1042-3	#61-SS-2014	03/17/2014 15:47	1	JC17P103.D	RTX-5 0.32 (mm)
140-1042-5	#60-OA-2014	03/17/2014 16:41	1	JC17P104.D	RTX-5 0.32 (mm)
140-1042-4	#61-BA-2014	03/17/2014 17:38	1	JC17P105.D	RTX-5 0.32 (mm)
140-1042-6	#62-SS-2014	03/17/2014 19:09	1	JC17P106.D	RTX-5 0.32 (mm)
140-1042-7	#62-BA-2014	03/17/2014 20:03	1	JC17P107.D	RTX-5 0.32 (mm)
140-1042-8	DUP1	03/17/2014 20:58	1	JC17P108.D	RTX-5 0.32 (mm)
140-1042-9	#62-OA-2014	03/17/2014 21:53	1	JC17P109.D	RTX-5 0.32 (mm)
140-1042-10	#63-SS-2014	03/17/2014 22:47	1	JC17P110.D	RTX-5 0.32 (mm)
140-1042-11	#63-BA1-2014	03/17/2014 23:42	1	JC17P111.D	RTX-5 0.32 (mm)
140-1042-12	#63-BA2-2014	03/18/2014 00:37	1	JC17P112.D	RTX-5 0.32 (mm)
140-1042-13	#64-SS-2014	03/18/2014 01:31	1	JC17P113.D	RTX-5 0.32 (mm)
140-1042-14	#64-BA-2014	03/18/2014 02:25	1	JC17P114.D	RTX-5 0.32 (mm)
140-1042-15	#65-OA-2014	03/18/2014 03:20	1	JC17P115.D	RTX-5 0.32 (mm)
140-1042-16	#65-CS-2014	03/18/2014 04:14	1	JC17P201.D	RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 05:09	1		RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 06:02	1		RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 06:57	1		RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 07:51	1		RTX-5 0.32 (mm)
ZZZZZ		03/18/2014 08:46	1		RTX-5 0.32 (mm)

140317

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	Date	Time
BFB	16 - 100 mL	3/17/2014	10:03:34 AM
CCV	15 - 101 mL	3/17/2014	10:32:01 AM
DNULEAK	16 - 20 mL	3/17/2014	12:33:02 PM
MB500mL	16 - 500 mL	3/17/2014	1:02:32 PM
1042-01	1 - 500 mL	3/17/2014	1:58:04 PM
1042-02	2 - 500 mL	3/17/2014	2:52:22 PM
1042-03	3 - 500 mL	3/17/2014	3:47:09 PM
1042-05	4 - 500 mL	3/17/2014	4:41:49 PM
1042-04	5 - 502 mL	3/17/2014	5:38:09 PM
dnuleak	16 - 20 mL	3/17/2014	6:38:57 PM
1042-06	6 - 502 mL	3/17/2014	7:09:19 PM
1042-07	7 - 500 mL	3/17/2014	8:03:22 PM
1042-08	8 - 500 mL	3/17/2014	8:58:26 PM
1042-09	9 - 500 mL	3/17/2014	9:53:03 PM
1042-10	10 - 500 mL	3/17/2014	10:47:48 PM
1042-11	11 - 502 mL	3/17/2014	11:42:47 PM
1042-12	12 - 500 mL	3/18/2014	12:37:39 AM
1042-13	13 - 500 mL	3/18/2014	1:31:43 AM
1042-14	14 - 500 mL	3/18/2014	2:25:42 AM
1042-15	15 - 500 mL	3/18/2014	3:20:06 AM
1042-16	1 - 500 mL	3/18/2014	4:14:45 AM
1042-16d	1 - 501 mL	3/18/2014	5:08:59 AM
1052-02	2 - 70 mL	3/18/2014	6:02:49 AM
1034-01	3 - 80 mL	3/18/2014	6:57:02 AM
1034-02	4 - 50 mL	3/18/2014	7:51:48 AM
1034-04	5 - 80 mL	3/18/2014	8:46:06 AM

TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 14 & KNOX-MS-0023, Rev 1

Page 2 of 2

TALS Review	1 st	If No, why is data reportable?	2 nd														
18. Sample special instructions verified?	✓		✓														
19. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). [Sample Results Tab] Note: Ohio does not allow for ME.	✓	☐ Marginal Exceedances - Within ME Limits and Random; Report (NCM# _____) ☐ LCS/LCSD - %R High (NCM# _____)	✓														
<table border="1"> <thead> <tr> <th>Number of target analytes in LCS</th> <th># marginal exceedances of LCS control limits allowed</th> </tr> </thead> <tbody> <tr><td>>90</td><td>5</td></tr> <tr><td>71 - 90</td><td>4</td></tr> <tr><td>51 - 70</td><td>3</td></tr> <tr><td>31 - 50</td><td>2</td></tr> <tr><td>11 - 30</td><td>1</td></tr> <tr><td><11</td><td>0</td></tr> </tbody> </table>	Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed	>90	5	71 - 90	4	51 - 70	3	31 - 50	2	11 - 30	1	<11	0			✓
Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed																
>90	5																
71 - 90	4																
51 - 70	3																
31 - 50	2																
11 - 30	1																
<11	0																
20. Suffixes assigned properly (DL/RE)? [Sample List Tab]	✓		✓														
21. Each job has QC created (BFB, CCV, LCS, MB)? [Sample List Tab]	✓		✓														
22. Analytes over calibration range set to secondary? [Conditions Review Tab]	NA		NA														
23. Samples not reported set to 'Acceptable' or 'Rejected'? [Sample Results Tab]	✓		✓														
24. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for n-butanol) (If DUP not reported - set to 'Acceptable' for each job)	✓		✓														
25. Samples linked to proper blank (200 mL or 500 mL)? [QC links]	✓	500 mL blank ID: <u>968/4</u> 200 mL blank ID: _____	✓														
26. Samples linked to job's BFB/CCV/LCS/MB? [QC Links]	✓		✓														
27. Correct ICV linked to each MB? [QC Links]	✓		✓														
28. If criteria were not met, was a NCM generated, and assigned to proper QC & samples? [Also see Conditions Review Tab]	NA		NA														
29. Runs set to 1 st level review?	✓	Runs set to 2 nd level review?	✓														
30. QC checker run and items addressed?			✓														
31. Checklist & Entech report scanned, attached & assigned properly?			✓														

Analyst: <u>JS</u>	Date: <u>3/18/14</u>	2nd Level Reviewer: <u>[Signature]</u>	Date: <u>03/29/14</u>
Comments:		Comments:	
<u>complete 1034, 1042, 1052</u>			
Example Calculation: <u>1034#4 pce @ 5.84</u>			
On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF			
<u>5.84 → 36.7 ✓</u>			

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-869-1

SDG No.: _____

Client Sample ID: 10710 Lab Sample ID: 140-869-7

Matrix: Air Lab File ID: 140-869-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/12/2014 08:20

Sample wt/vol: 500(mL) Date Analyzed: 02/14/2014 13:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 843 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-869-1

SDG No.: _____

Client Sample ID: 10710 Lab Sample ID: 140-869-7

Matrix: Air Lab File ID: 140-869-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/12/2014 08:20

Sample wt/vol: 500(mL) Date Analyzed: 02/14/2014 13:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 843 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-869-1

SDG No.: _____

Client Sample ID: 10710 Lab Sample ID: 140-869-7

Matrix: Air Lab File ID: 140-869-a-7.D

Analysis Method: TO 15 LL Date Collected: 02/12/2014 08:20

Sample wt/vol: 500(mL) Date Analyzed: 02/14/2014 13:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 843 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-869-1
SDG No.: _____
Client Sample ID: 10710 Lab Sample ID: 140-869-7
Matrix: Air Lab File ID: 140-869-a-7.D
Analysis Method: TO 15 LL Date Collected: 02/12/2014 08:20
Sample wt/vol: 500 (mL) Date Analyzed: 02/14/2014 13:19
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 843 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140212-436.b\140-869-a-7.D
Lims ID: 140-869-A-7 Lab Sample ID: 140-869-7
Client ID: 10710
Sample Type: Client
Inject. Date: 14-Feb-2014 13:19:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 10710
Misc. Info.: E021414,TO155,,140-0000436-005
Operator ID: 7126 Instrument ID: ME
Method: \\KNXCHROM\ChromData\ME\20140212-436.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 14-Feb-2014 14:03:07 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: tajh

Date: 14-Feb-2014 14:03:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	82	245161	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.588	-0.011	96	1230494	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.393	0.0	91	1081215	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.038	17.038	0.0	86	938837	3.97	
33 Carbon disulfide	76	5.956	5.951	0.005	77	3179	0.0125	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140212-436.b\140-869-a-7.D

Injection Date: 14-Feb-2014 13:19:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-869-A-7

Lab Sample ID: 140-869-7

Worklist Smp#: 5

Client ID: 10710

Purge Vol: 500.000 mL

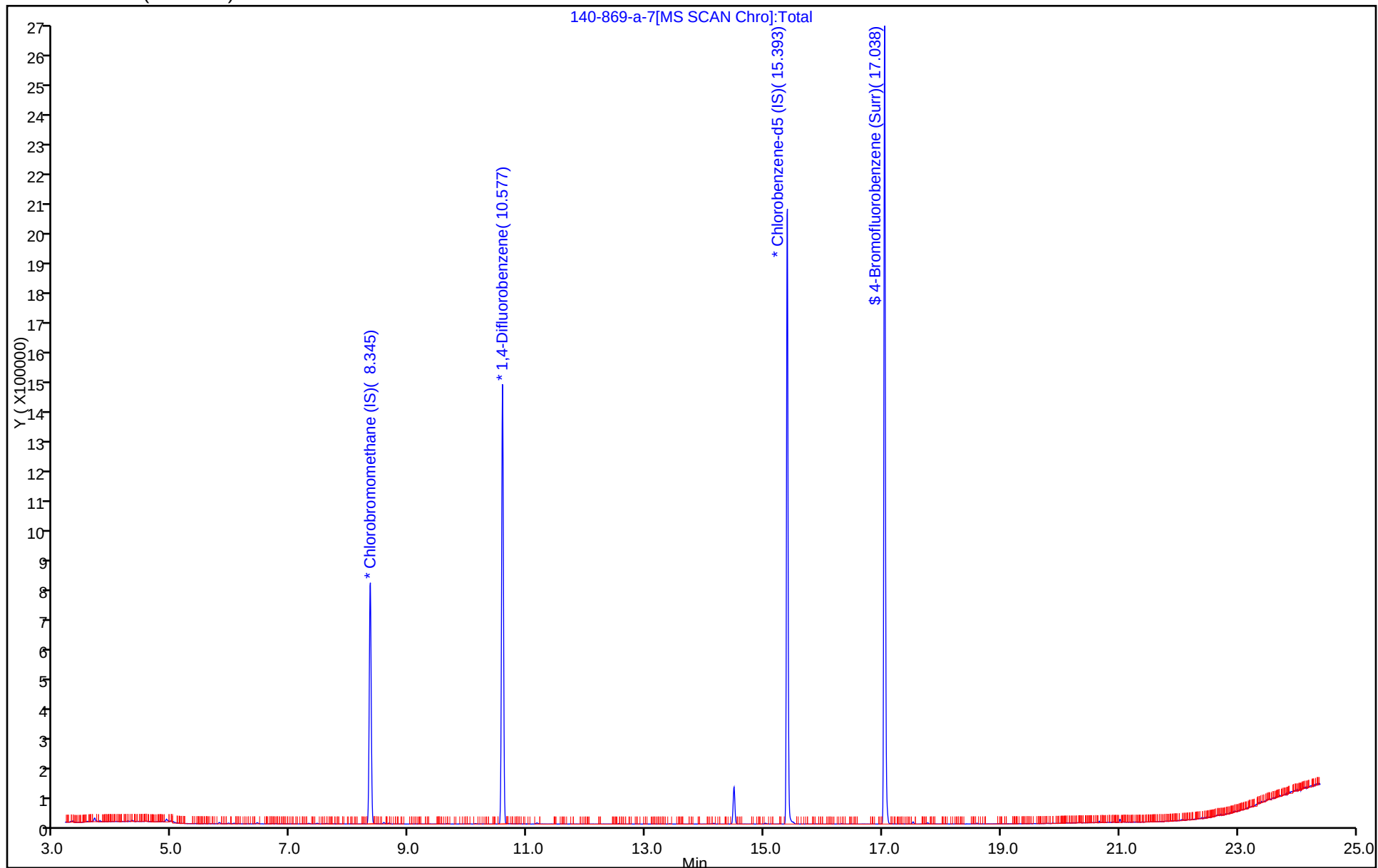
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-888-1

SDG No.: _____

Client Sample ID: 09672 Lab Sample ID: 140-888-5

Matrix: Air Lab File ID: 140-888-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 17:22

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-888-1

SDG No.: _____

Client Sample ID: 09672 Lab Sample ID: 140-888-5

Matrix: Air Lab File ID: 140-888-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 17:22

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-888-1

SDG No.: _____

Client Sample ID: 09672 Lab Sample ID: 140-888-5

Matrix: Air Lab File ID: 140-888-a-5.D

Analysis Method: TO 15 LL Date Collected: 02/15/2014 12:40

Sample wt/vol: 500(mL) Date Analyzed: 02/16/2014 17:22

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-888-1
SDG No.: _____
Client Sample ID: 09672 Lab Sample ID: 140-888-5
Matrix: Air Lab File ID: 140-888-a-5.D
Analysis Method: TO 15 LL Date Collected: 02/15/2014 12:40
Sample wt/vol: 500 (mL) Date Analyzed: 02/16/2014 17:22
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 845 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-888-a-5.D
 Lims ID: 140-888-A-5 Lab Sample ID: 140-888-5
 Client ID: 09672
 Sample Type: Client
 Inject. Date: 16-Feb-2014 17:22:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09672
 Misc. Info.: E021614,TO155,,140-0000438-007
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20140214-438.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 17-Feb-2014 07:35:45 Calib Date: 28-Jan-2014 20:25:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh

Date: 17-Feb-2014 07:35:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.350	-0.005	83	250068	4.00	
* 2 1,4-Difluorobenzene	114	10.578	10.583	-0.005	96	1251873	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.393	15.387	0.006	90	1085736	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	86	923696	3.89	
44 Tetrahydrofuran	42	8.782	8.760	0.022	69	4094	0.0638	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140214-438.b\140-888-a-5.D

Injection Date: 16-Feb-2014 17:22:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-888-A-5

Lab Sample ID: 140-888-5

Worklist Smp#: 7

Client ID: 09672

Purge Vol: 500.000 mL

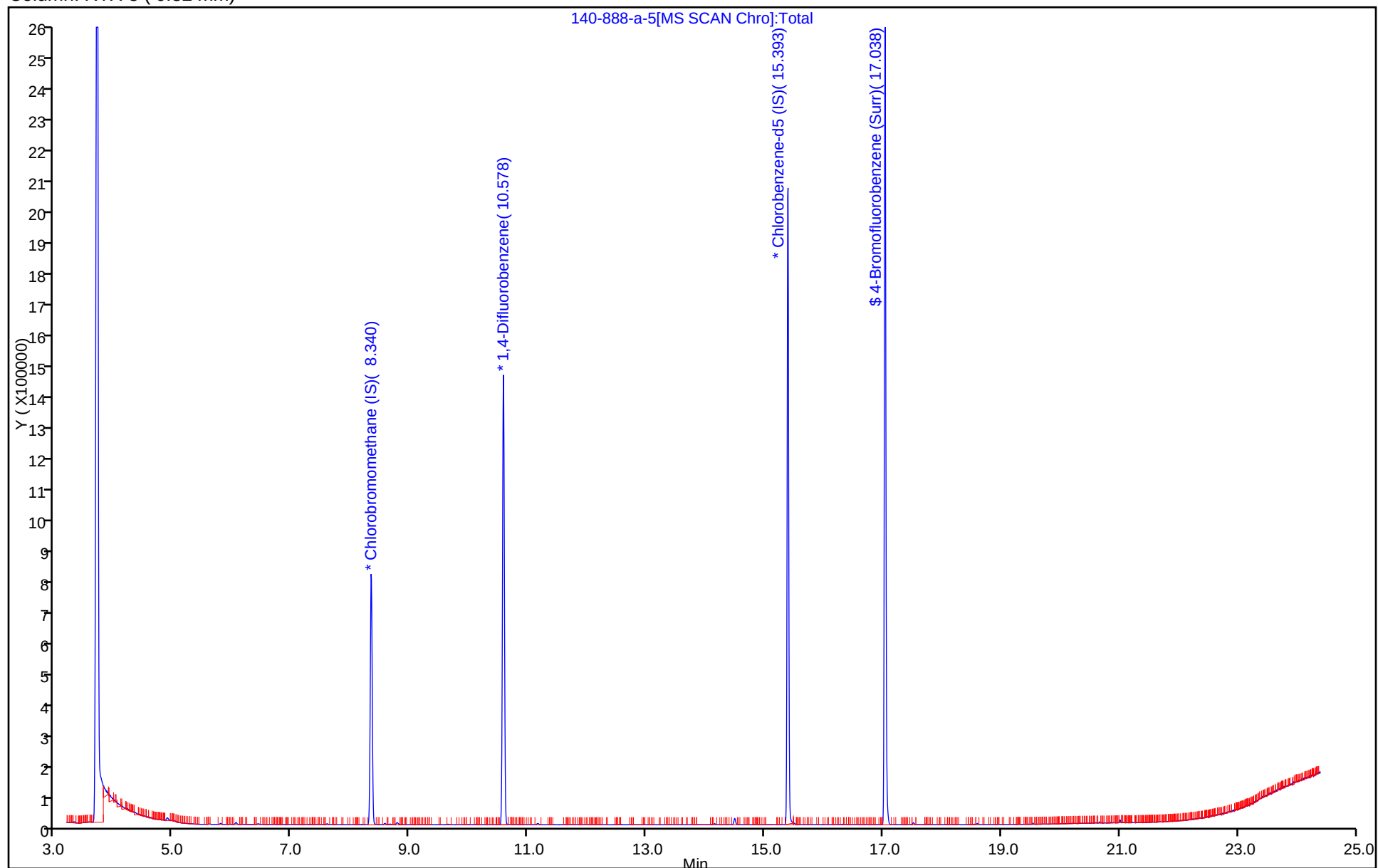
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-889-1

SDG No.: _____

Client Sample ID: 10010 Lab Sample ID: 140-889-13

Matrix: Air Lab File ID: 140-889-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 10:10

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 15:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-889-1

SDG No.: _____

Client Sample ID: 10010 Lab Sample ID: 140-889-13

Matrix: Air Lab File ID: 140-889-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 10:10

Sample wt/vol: 500(mL) Date Analyzed: 02/17/2014 15:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-889-1

SDG No.: _____

Client Sample ID: 10010 Lab Sample ID: 140-889-13

Matrix: Air Lab File ID: 140-889-a-13.D

Analysis Method: TO 15 LL Date Collected: 02/16/2014 10:10

Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 15:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-889-1
SDG No.: _____
Client Sample ID: 10010 Lab Sample ID: 140-889-13
Matrix: Air Lab File ID: 140-889-a-13.D
Analysis Method: TO 15 LL Date Collected: 02/16/2014 10:10
Sample wt/vol: 500 (mL) Date Analyzed: 02/17/2014 15:49
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 851 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-889-a-13.D
 Lims ID: 140-889-A-13 Lab Sample ID: 140-889-13
 Client ID: 10010
 Sample Type: Client
 Inject. Date: 17-Feb-2014 15:49:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 10010
 Misc. Info.: J021714,TO15,,140-0000443-004
 Operator ID: 403648 Instrument ID: MJ
 Method: \\KNXCHROM\ChromData\MJ\20140216-443.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 20-Feb-2014 14:56:29 Calib Date: 13-Dec-2013 09:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\MJ\20131209-261.b\JICL123R.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: wilesd

Date: 20-Feb-2014 14:46:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.411	9.418	-0.007	90	234959	4.00	
* 2 1,4-Difluorobenzene	114	11.568	11.570	-0.002	98	1131499	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.226	16.229	-0.003	96	955572	4.00	
\$ 5 4-Bromofluorobenzene (Surr)	95	17.840	17.843	-0.003	80	769817	4.04	
13 Butane	43	4.526	4.523	0.003	60	9068	0.0678	
19 2-Methylbutane	43	5.419	5.421	-0.002	65	3030	0.0274	
28 2-Methyl-2-propanol	59	6.522	6.492	0.030	48	3776	0.0267	
31 Methylene Chloride	84	6.780	6.777	0.003	74	4068	0.0571	
44 Tetrahydrofuran	42	9.706	9.833	-0.127	18	7552	0.0920	
47 n-Butanol	31	10.987	10.968	0.019	8	2135	0.0520	
62 4-Methyl-2-pentanone (MIBK)	43	13.413	13.399	0.014	59	5415	0.0282	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\MJ\20140216-443.b\140-889-a-13.D

Injection Date: 17-Feb-2014 15:49:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-889-A-13

Lab Sample ID: 140-889-13

Worklist Smp#: 4

Client ID: 10010

Purge Vol: 500.000 mL

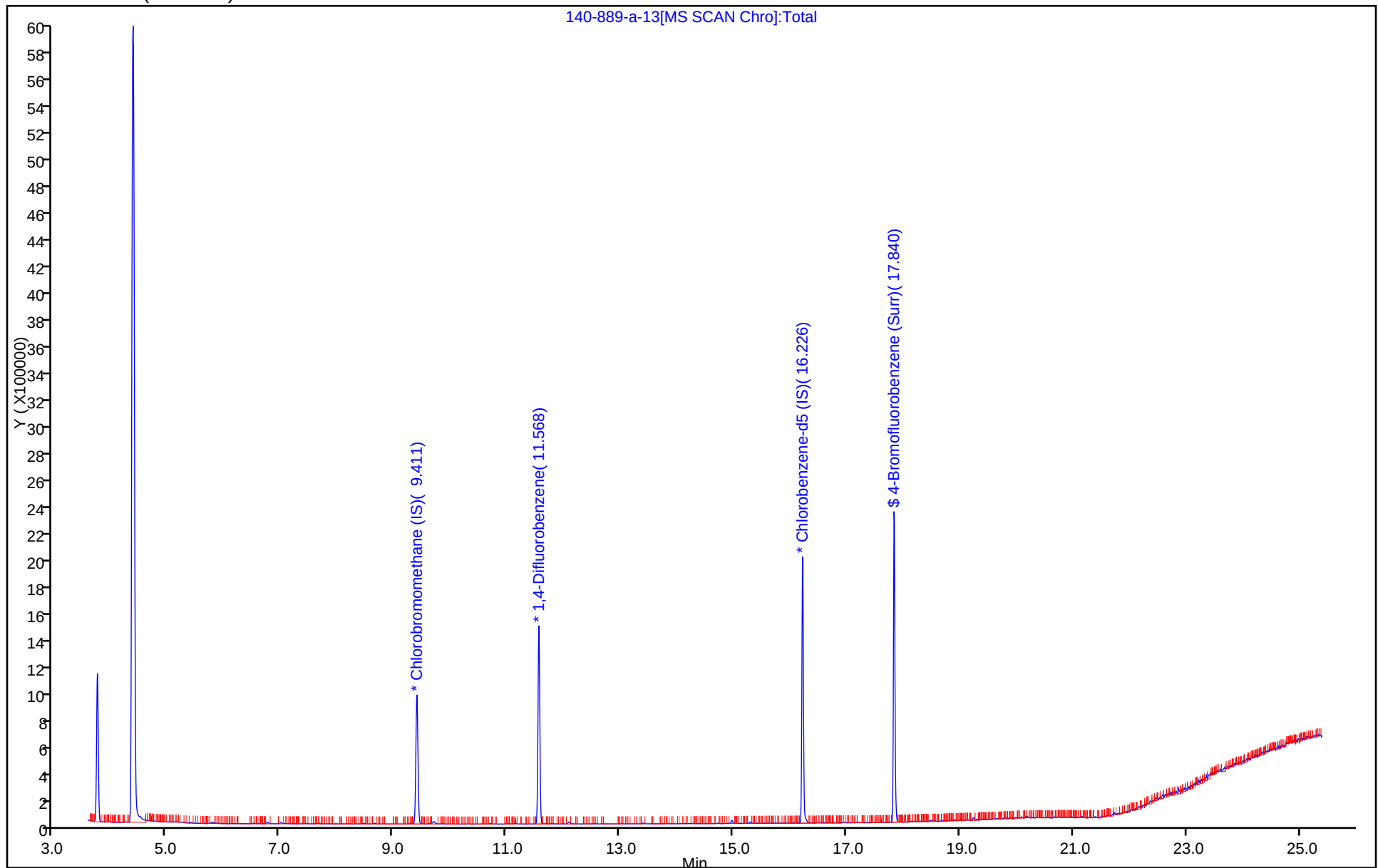
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-946-1

SDG No.: _____

Client Sample ID: 09761 Lab Sample ID: 140-946-11

Matrix: Air Lab File ID: 140-946-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:00

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND		0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-946-1

SDG No.: _____

Client Sample ID: 09761 Lab Sample ID: 140-946-11

Matrix: Air Lab File ID: 140-946-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:00

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-946-1

SDG No.: _____

Client Sample ID: 09761 Lab Sample ID: 140-946-11

Matrix: Air Lab File ID: 140-946-A-11.D

Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:00

Sample wt/vol: 500(mL) Date Analyzed: 02/24/2014 11:00

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b) thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadiene	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-946-1
SDG No.: _____
Client Sample ID: 09761 Lab Sample ID: 140-946-11
Matrix: Air Lab File ID: 140-946-A-11.D
Analysis Method: TO 15 LL Date Collected: 02/23/2014 10:00
Sample wt/vol: 500 (mL) Date Analyzed: 02/24/2014 11:00
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 883 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-946-A-11.D
Lims ID: 140-946-A-11 Lab Sample ID: 140-946-11
Client ID: 09761
Sample Type: Client
Inject. Date: 24-Feb-2014 11:00:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Sample Info: 09761
Misc. Info.: E022414,TO155,,140-0000468-004
Operator ID: 7126 Instrument ID: ME
Method: \\KNXCHROM\ChromData\ME\20140223-468.b\ME_TO15.m
Limit Group: MSA TO14A_15 Routine ICAL
Last Update: 25-Feb-2014 08:38:15 Calib Date: 28-Jan-2014 20:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\KNXCHROM\ChromData\ME\20140128-390.b\EICVA289.D
Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: tajh

Date: 25-Feb-2014 08:38:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.345	8.351	-0.006	81	336893	4.00	
* 2 1,4-Difluorobenzene	114	10.577	10.583	-0.006	95	1714709	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.387	15.393	-0.006	90	1479308	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.032	17.032	0.0	87	1244674	3.84	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20140223-468.b\140-946-A-11.D

Injection Date: 24-Feb-2014 11:00:30

Instrument ID: ME

Operator ID: 7126

Lims ID: 140-946-A-11

Lab Sample ID: 140-946-11

Worklist Smp#: 4

Client ID: 09761

Purge Vol: 500.000 mL

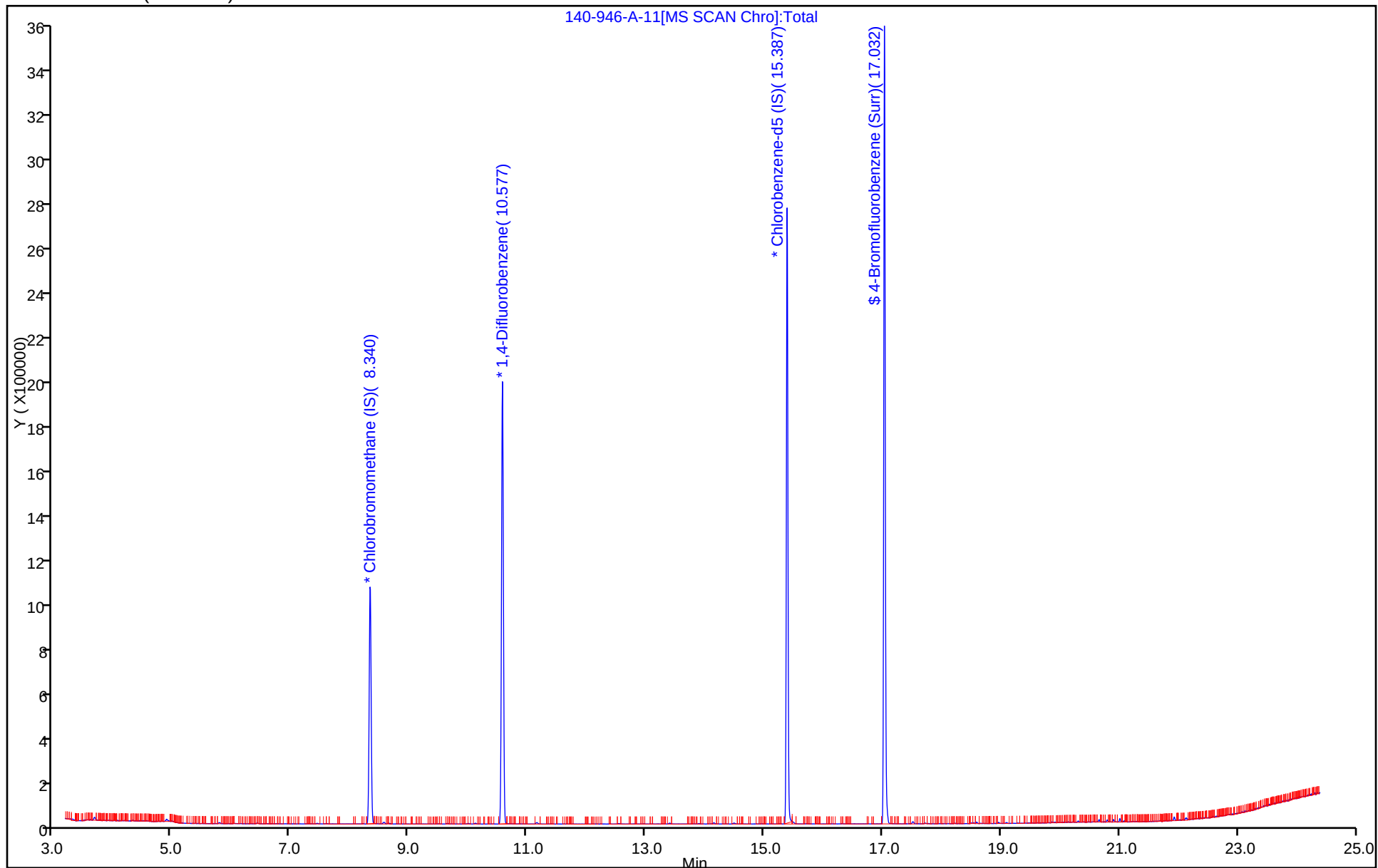
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



Shipping and Receiving Documents

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information Company: Artech Technologies, Inc. Address: 5 McCreary Hill Rd. City/State/Zip: Ballston Spa, NY 12020 Phone: (518) 885-5383 FAX: (518) 885-5383 Project Name: OFF-SITE Former Axich in Facility Site/location: C-755012A PO # Callout ID: 121302		Project Manager: Karen Cahill Phone: (315) 426-7432 Site Contact: Karen Cahill (NYSDEC) TAL Contact:		Sampled By: Garth Barrett 1 of 3 COCs															
 140-1042 Chain of Custody																			
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1941	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
#160-SS-2014	3/6/2014	1009	0931	-30	-2	K372	10118	X									X		
#160-BA-2014	3/6/2014	1010	0932	-30	-1	K200	09546	X							X				
#161-SS-2014	3/6/2014	1314	1304	-29	-2	K397	10261	X									X		
#161-BA-2014	3/6/2014	1515	1509	-30	-4	K126	10376	X							X				
#160-OA-2014	3/6/2014	1025	0936	-30	-4	K106	09876	X								X			
#162-SS-2014	3/6/2014	1342	1310	-30	-3	K398	10390	X									X		
Sampled by:		Temperature (Fahrenheit)				Pressure (inches of Hg)		Received @ ambient No Custody seal 4 boxes KY 3/12/14 FedEx 50 #K#4108 5809 4930											
Start		Interior		Ambient		Start		Interior		Ambient		Start		Interior		Ambient			
Stop						Stop						Stop							
Special Instructions/QC Requirements & Comments: please cc KClaring@aztechtech.com - This is part of the South Hill Phase VII SVI Investigation.																			
Canisters Shipped by:		Date/Time:		Canisters Received by:		Date/Time:		Canisters Relinquished by:		Date/Time:		Canisters Relinquished by:		Date/Time:		Canisters Relinquished by:		Date/Time:	
[Signature]		3/11/2014 / 1100		[Signature]		3/11/2014 / 1100		[Signature]		3/11/2014 / 1800		[Signature]		3/11/2014 / 1800		[Signature]		3/11/2014 / 1800	
[Signature]		3-11-14 1800		[Signature]		3-11-14 1800		[Signature]		3-11-14 1800		[Signature]		3-11-14 1800		[Signature]		3-11-14 1800	
Relinquished by:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:	
[Signature]		3-11-14 1800		[Signature]		3-11-14 1800		[Signature]		3-11-14 1800		[Signature]		3-11-14 1800		[Signature]		3-11-14 1800	
Lab Use Only		Shipper Name:		Opened by:		Condition:		Lab Use Only		Shipper Name:		Opened by:		Condition:		Lab Use Only		Shipper Name:	

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: Karen Cahill		Sampled By: Garth Burrett		2 of 3 COCs													
Company: Aztech Technologies, Inc.		Phone: (315) 426-7432																	
Address: 5 McCrea Hill Rd		Site Contact: Karen Cahill (NYSDEC)																	
City/State/Zip: Bx 118 Stan Spn, NY		TAL Contact:																	
Phone: 518 885-5383																			
FAX: 518 885-5385																			
Project Name: OFF-SITE FANUC ARCHIVE		Analysis Turnaround Time																	
Site location: CSD Dan by rd, Hthaca		Standard (Specify) X																	
PO # callout: 121362/contract: C7550124		Rush (Specify)																	
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
#62-BA-2014	3/6/2014	1343	1311	-27	-2	K225	09599	X							X				
DUP1	3/6/2014			-30	-4	K365	10727	X							X				
#62-OA-2014	3/6/2014	1354	1315	-30	-2	K460	340093	X							X				
#63-SS-2014	3/6/2014	1143	1125	-30	-3	K385	10491	X											
#63-BA1-2014	3/6/2014	1146	1106	-30	-4	K477	10230	X							X				
#63-BA2-2014	3/6/2014	1153	1108	-30	-3	K100	10720	X							X				
Sampled by:																			
Temperature (Fahrenheit)																			
Interior					Ambient														
Start																			
Stop																			
Pressure (inches of Hg)																			
Interior					Ambient														
Start																			
Stop																			
Special Instructions/QC Requirements & Comments: Please cc KCarling@aztech.com - This is part of the South Hill Phase III SVI investigation																			
Canisters Shipped by: <i>[Signature]</i>		Date/Time: 3/11/2014/1100		Canisters Received by: <i>[Signature]</i>		Date/Time: 3/12/14 0845													
Samples Relinquished by: <i>[Signature]</i>		Date/Time: 3-11-14 1800		Received by: <i>[Signature]</i>		Date/Time: 3/12/14 0845													
Relinquished by:				Received by:															

Lab Use Only Shipper Name:

Opened by:

Condition:

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information Company: Aztech Technologies, Inc. Address: 5815 Middlebrook Pike City/State/Zip: Ball Bluff, TN 37618 Phone: 618 885 5383 FAX: 518 885 5385 Project Name: OFFSITE Former Axichon Site location: 950 Danbury Rd. #1100 PO # callout: 121302 contact: 6755-012A		Project Manager: Karen Cahill Phone: (315) 420-7432 Site Contact: Karen Cahill (NYSDEC) TAL Contact:		Sampled By: Garth Barrett 3 of 3 COCs															
Analysis Turnaround Time Standard (Specify) X Rush (Specify)																			
Sample Identification #104-SS-2014 #104-BA-2014 #105-OA-2014 #105-CS-2014		Sample Date(s) 3/6/2014 3/6/2014 3/6/2014 3/6/2014	Time Start 1652 1653 1056 1048	Time Stop 1632 1634 1034 1032	Canister Vacuum in Field, "Hg (Start) -30 -28 -30 -30	Canister Vacuum in Field, "Hg (Stop) -3 0 -1 -3	Flow Controller ID K165 K163 K185 K399	Canister ID 10703 10096 10225 09781	TO-15 X X X X	EPA 3C 	EPA 25C 	ASTM D-1946 	Other (Please specify in notes section) 	Sample Type 	Indoor Air X X	Ambient Air 	Soil Gas X 	Landfill Gas 	Other (Please specify in notes section)
Special Instructions/QC Requirements & Comments: Please cc KClarling@aztechtech.com - This is Part of South Hill Phase VII SVI Investigation																			
Canisters Shipped by: [Signature]		Date/Time: 3/11/2014 / 1100		Canisters Received by: [Signature]		Date/Time: 3/12/14 / 0845													
Samples Relinquished by: [Signature]		Date/Time: 3-11-14 / 1800		Received by: [Signature]		Date/Time: 3/12/14 / 0845													
Relinquished by: [Signature]		Date/Time:		Received by:		Date/Time:													
Lab Use Only		Shipper Name:		Opened by:		Condition:													

TestAmerica Knoxville - Air Canister Initial Pressure (

[illegible]

Check

[illegible]

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 140-1042-1

Login Number: 1042

List Source: TestAmerica Knoxville

List Number: 1

Creator: Wilson, Ken

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Appendix B
Structural Sampling Questionnaires
and
Building Inventory



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Ithaca South Hill Site Code: C755012A Operable Unit: OU1
Building Code: Structure 60 Building Name: Structure 60
Address: 145 Pearsall Place Apt/Suite No: _____
City: Ithaca State: NY Zip: 14840 County: Tompkins

Contact Information

Preparer's Name: Karen Carling Phone No: (518)885-5383
Preparer's Affiliation: Aztech Technologies, Inc Company Code: _____
Purpose of Investigation: Sub-slab and indoor air sampling Date of Inspection: March 6, 2014
Contact Name: _____ Affiliation: OWNER
Phone No: _____ Alt. Phone No: _____ Email: _____
Number of Occupants (total): 1 Number of Children: 0
☐ Occupant Interviewed? ☒ Owner Occupied? ☒ Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL Bldg Size (S/M/L): SMALL
If Commercial or Industrial Facility, Select Operations: _____ If Residential Select Structure Type: SINGLE FAMILY RES
Number of Floors: 2 Approx. Year Construction: 1930 ☒ Building Insulated? ☐ Attached Garage?
Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):
Note: Solar supplemental hot water heater.

Foundation Description

Foundation Type: BASEMENT Foundation Depth (bgs): 7 Unit: FEET
Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: 5 Unit: INCHES
Foundation Wall Material: CONCRETE BLOCK Foundation Wall Thickness: 10
☒ Floor penetrations? Describe Floor Penetrations: Sewer and water and floor drain
☐ Wall penetrations? Describe Wall Penetrations: _____
Basement is: UNFINISHED Basement is: DAMP ☐ Sumps/Drains? Water In Sump?: _____
Describe Foundation Condition (cracks, seepage, etc.) : _____
☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating / Cooling / Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: GAS
Water Htr Vent Location: OUTSIDE Dryer Vent Location: OUTSIDE



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Structure 60 Bldg Code: Structure 60 Date: March 6, 2014

Bldg Address: 145 Pearsall Place Apt/Suite No:

Bldg City/State/Zip: Ithaca

Make and Model of PID: PPB Rae 3000 Date of Calibration: March 5, 2014

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	Colemen - Fuel Combustible	1g	U		156 ppb	☐
Basement	Spectracide - Termite, Ant Kille 	32oz	U		596 ppb	☐
Basement	WD-40	8oz	U		0 ppb	☐
Basement	Dutch Boy - Acrylic Enamel	11oz	U		2145 ppb	☐
Basement	Husqvarna - 2 Cycle Oil	2.4 oz	U		0 ppb	☐
Basement	Husqvarna - 2 Stroke Oil	2.4 oz	U		0 ppb	☐
Basement	Behr - Oil Based Primer	1 q	U		0 ppb	☐
Basement	Behr - Paint and Primer	1 q	U		0 ppb	☐
Basement	Diamond Hard - Acrylic Enama 	11 oz	U		0 ppb	☐
Basement	Tiki - Torch Fuel	3.2 L	U		0 ppb	☐
Basement	Elmers - Wood Glue	12 oz	U		0 ppb	☐
Basement	Parks - Rough and Ready	32 oz	U		0 ppb	☐
Basement	Brasso - Metal Polish	8 oz	U		0 ppb	☐
Basement	DAP - Acrylic Latex	10.1 oz	U		0 ppb	☐
Basement	Latex Paint - Various Brands (4 	1 g	U		0 ppb	☐
Basement	Sarco Seal - Dual Glaze	1 q	U		0 ppb	☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Yes ☐ No Were there any elevated PID readings taken on site? ☐ Yes ☐ No ☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Structure 60 Bldg Code: Structure 60 Date: March 6, 2014

Bldg Address: 145 Pearsall Place Apt/Suite No: _____

Bldg City/State/Zip: Ithaca, New York 14840

Make and Model of PID: PPB Rae 3000 Date of Calibration: March 6, 2014

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	DAP Crackshot	32oz	U		0 ppb	☐
Basement	MH Ready Patch	1/2 p	U		0 ppb	☐
Basement	Watco Danish Oil Finish	8 oz	U		0 ppb	☐
Basement	Dust Destroyer	7 oz	U		0 ppb	☐
Basement	Behr - Premium Plus Paint	1 g	U		0 ppb	☐
Basement	Lanosoft - Dish Soap	1 g	U		0 ppb	☐
Basement	Safer - Insecticide	24 oz	U		0 ppb	☐
Basement	Bright Life - Paints	1 g	U		0 ppb	☐
Basement	Glidden - Spread Enamel	1 q	U		0 ppb	☐
Basement	Scotch Guard - Protector	14 oz	U		0 ppb	☐
Basement	Static Guard	5.5 oz	U		0 ppb	☐
Basement	Shout - Stain Remover	1 q	U		0 ppb	☐
Basement	Chlorox - Bleach	1 g	U		0 ppb	☐
Basement	Various Brands - Latex Paint	1 g	U		0 ppb	☐
Basement	Pratt & Lambert - Floor Enamel	1 g	U		0 ppb	☐
Basement	Water Proof - Cement Coating	1 g	U		0 ppb	☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Yes ☒ No Were there any elevated PID readings taken on site? ☐ Yes ☒ No ☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Structure 60 Bldg Code: Structure 60 Date: March 6, 2014

Bldg Address: 145 Pearsall Place Apt/Suite No: _____

Bldg City/State/Zip: Ithaca, New York 14840

Make and Model of PID: PPB Rae 3000 Date of Calibration: March 6, 2014

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	Georgia Pacific - Ready Mix	12 lbs	U		0 ppb	☐
Basement	Hercules - PVC Primer	8 oz	U		0 ppb	☐
Basement	Durabond - Tile Grout	5 lbs	U		0 ppb	☐
Basement	Synko - Coarse Additive	1 lb	U		0 ppb	☐
Basement	Ugl - Spackling Paste	1 g	U		0 ppb	☐
Basement	Zar - Satin Stain	1/2 p	U		0 ppb	☐
Basement	JC-77 - Adhesive Remover	16 oz	U		0 ppb	☐
Basement	Rustoleum - Fluorescent	11 oz	U		0 ppb	☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Yes ☐ No Were there any elevated PID readings taken on site? ☐ Yes ☐ No ☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Ithaca South Hill Site Code: C755012A Operable Unit: OU1

Building Code: Structure 60 Building Name: Structure 60

Address: 145 Pearsall Place Apt/Suite No: _____

City: Ithaca State: NY Zip: 14840 County: _____

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: ALMOST NEVER Floor Material: _____

☐ Inhabited? ☐ HVAC System On? ☒ Bathroom Exhaust Fan? ☒ Kitchen Exhaust Fan?

Alternate Heat Source: _____ ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener: _____

☐ Cleaning Products Used Recently?: Description of Cleaning Products: _____

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: _____

☐ New Carpet or Furniture? Location of New Carpet/Furniture: _____

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____

☐ Recent Painting/Staining? Location of New Painting: _____

☐ Solvent or Chemical Odors? Describe Odors (if any): _____

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____

☐ Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?: _____

☐ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 29 °F

Current Building Use: _____ Barometric Pressure: 30.55 in(hg)

Product Inventory Complete? ☐ Yes ☒ Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: Structure 60 Address: 145 Pearsall Place

Sampling Information

Sampler Name(s): Garth Barrett Sampler Company Code: _____
Sample Collection Date: 3/6/2014-3/7/2014 Date Samples Sent To Lab: March 11, 2014
Sample Chain of Custody Number: Not Applicable Outdoor Air Sample Location ID: #60-0A-2014

SUMMA Canister Information

Sample ID:	<u>#60-SS-2014</u>	<u>#60-BA-2014</u>	<u>#60-0A-2014</u>		
Location Code:					
Location Type:	<u>SUBSLAB</u>	<u>BASEMENT</u>	<u>OUTDOOR</u>		
Canister ID:	<u>10118</u>	<u>09546</u>	<u>09876</u>		
Regulator ID:	<u>K372</u>	<u>K200</u>	<u>K106</u>		
Matrix:	<u>Subslab Soil Vapo</u>	<u>Indoor Air</u>	<u>Ambient Outdo</u>		
Sampling Method:	<u>SUMMA AIR SAMPLIN</u>	<u>SUMMA AIR SAM</u>	<u>SUMMA AIR SAM</u>		

Sampling Area Info

Slab Thickness (inches):	<u>4 1/2 - 5 inches</u>				
Sub-Slab Material:					
Sub-Slab Moisture:					
Seal Type:	<u>CLAY</u>				
Seal Adequate?:	☒	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	<u>3/6/2014 10:09</u>	<u>3/6/2014 10:09</u>	<u>3/6/2014 10:09</u>		
Vacuum Gauge Start:	<u>-30</u>	<u>-30</u>	<u>-30</u>		
Sample End Date/Time:	<u>3/7/2014 09:31</u>	<u>3/7/2014 09:31</u>	<u>3/7/2014 09:31</u>		
Vacuum Gauge End:	<u>-2</u>	<u>-1</u>	<u>-4</u>		
Sample Duration (hrs):	<u>24</u>	<u>24</u>	<u>24</u>		
Vacuum Gauge Unit:	<u>in(hg)</u>	<u>in(hg)</u>	<u>in(hg)</u>		

Sample QA/QC Readings

Vapor Port Purge:	☒	☐	☐	☐	☐
Purge PID Reading:	<u>0.0</u>				
Purge PID Unit:	<u>ppb</u>				
Tracer Test Pass:	☒	☐	☐	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM



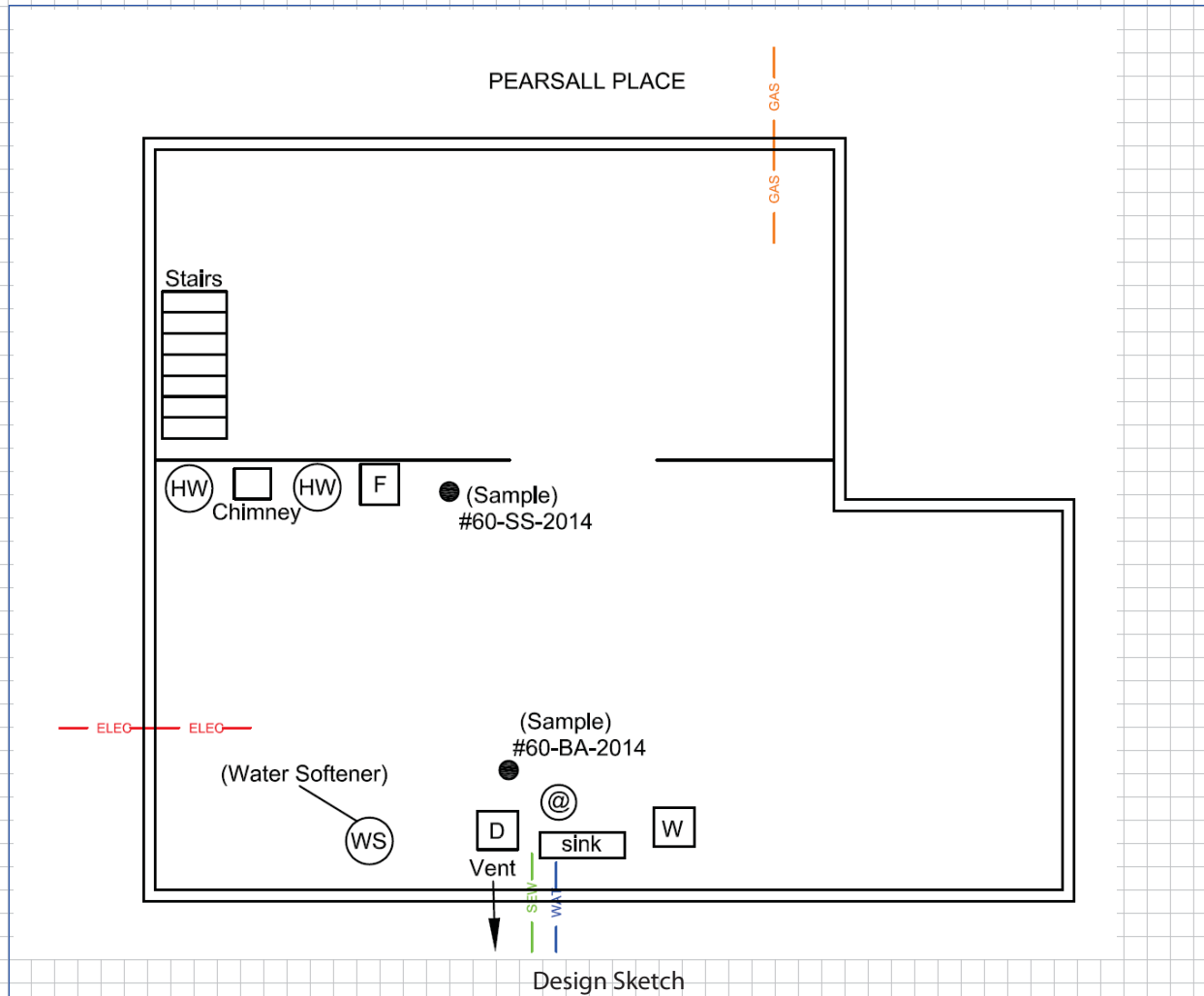
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch Guidelines and Recommended Symbolology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	#####	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.



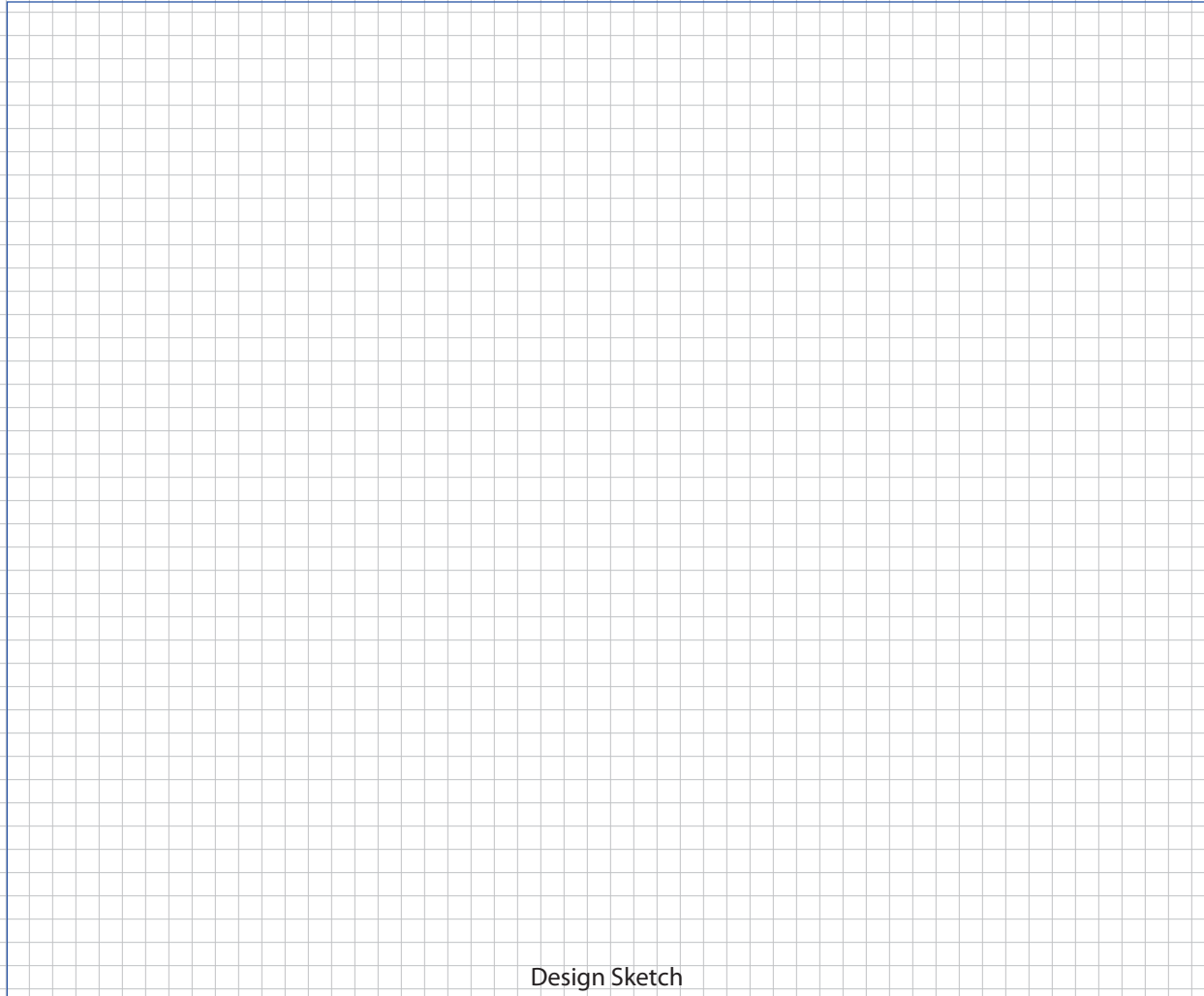
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building.
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
 - Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
 - Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
 - Identify the locations of the following features on the layout sketch, using the appropriate symbols:
- | | | | |
|---------------|-------------------|----------|--|
| B or F | Boiler or Furnace | o | Other floor or wall penetrations (label appropriately) |
| HW | Hot Water Heater | xxxxxxx | Perimeter Drains (draw inside or outside outer walls as appropriate) |
| FP | Fireplaces | ##### | Areas of broken-up concrete |
| WS | Wood Stoves | ● SS-1 | Location & label of sub-slab samples |
| W/D | Washer / Dryer | ● IA-1 | Location & label of indoor air samples |
| S | Sumps | ● OA-1 | Location & label of outdoor air samples |
| @ | Floor Drains | ● PFET-1 | Location and label of any pressure field test holes. |



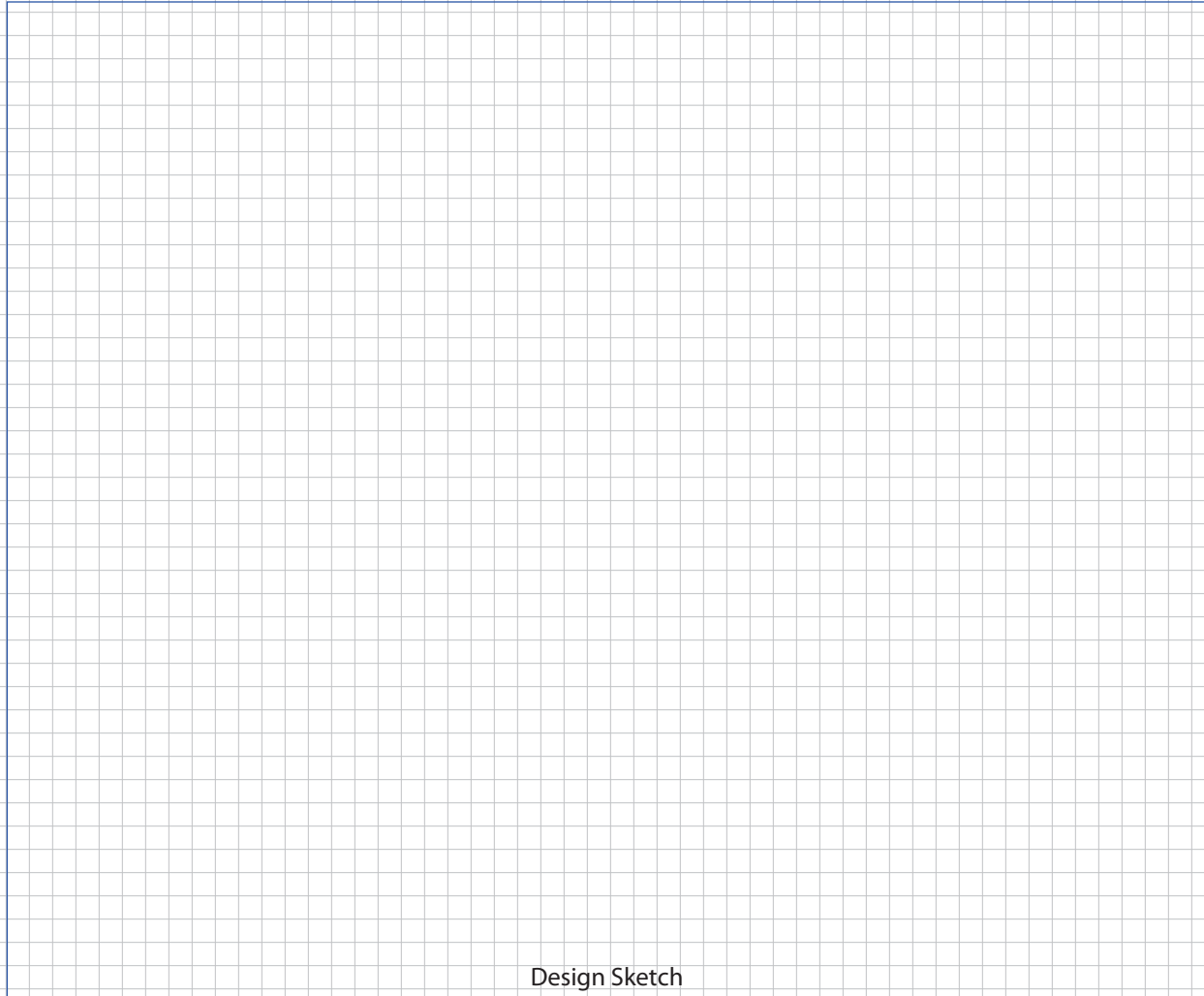
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
 - Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
 - Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
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- | | | | |
|---------------|-------------------|----------|--|
| B or F | Boiler or Furnace | o | Other floor or wall penetrations (label appropriately) |
| HW | Hot Water Heater | xxxxxxx | Perimeter Drains (draw inside or outside outer walls as appropriate) |
| FP | Fireplaces | ##### | Areas of broken-up concrete |
| WS | Wood Stoves | ● SS-1 | Location & label of sub-slab samples |
| W/D | Washer / Dryer | ● IA-1 | Location & label of indoor air samples |
| S | Sumps | ● OA-1 | Location & label of outdoor air samples |
| @ | Floor Drains | ● PFET-1 | Location and label of any pressure field test holes. |



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Ithaca South Hill Site Code: C755012A Operable Unit: OU1
Building Code: Structure 61 Building Name: Structure 61
Address: 150 Pearsall Place Apt/Suite No: _____
City: Ithaca State: NY Zip: 14840 County: Tompkins

Contact Information

Preparer's Name: Karen Carling Phone No: (518)885-5383
Preparer's Affiliation: Aztech Technologies, Inc Company Code: _____
Purpose of Investigation: Sub-slab and indoor air sampling Date of Inspection: March 6, 2014
Contact Name: _____ Affiliation: OWNER
Phone No: _____ Alt. Phone No: _____ Email: _____
Number of Occupants (total): 2 Number of Children: _____
☐ Occupant Interviewed? ☒ Owner Occupied? ☒ Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL Bldg Size (S/M/L): SMALL
If Commercial or Industrial Facility, Select Operations: _____ If Residential Select Structure Type: SINGLE FAMILY RES
Number of Floors: 1 Approx. Year Construction: 1946 ☒ Building Insulated? ☐ Attached Garage?
Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

Foundation Description

Foundation Type: BASEMENT Foundation Depth (bgs): 8 Unit: FEET
Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: 5 Unit: INCHES
Foundation Wall Material: CONCRETE BLOCK Foundation Wall Thickness: 10
☒ Floor penetrations? Describe Floor Penetrations: Floor drain
☒ Wall penetrations? Describe Wall Penetrations: Sewer, water, and electric
Basement is: UNFINISHED Basement is: DRY ☒ Sumps/Drains? Water In Sump?: _____
Describe Foundation Condition (cracks, seepage, etc.) : Floor drain near washer, no sump, some cracks in the
☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating / Cooling / Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☒ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: GAS
Water Htr Vent Location: OUTSIDE Dryer Vent Location: OUTSIDE



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Structure 61 Bldg Code: Structure 61 Date: March 6, 2014

Bldg Address: 150 Pearsall Place Apt/Suite No:

Bldg City/State/Zip: Ithaca

Make and Model of PID: PPB Rae 3000 Date of Calibration: March 6, 2014

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	CLR		U		44 ppb	☐
Basement	Wood Preen - Floor Wax		U		2500+ ppb	☐
Basement	Drain Pro Gel - Drain Opener		U		33 ppb	☐
Basement	E-Z Paint Thinner		U		2300+ ppb	☐
Basement	DOW Great Stuff - Insulating Fc 		U		68 ppb	☐
Basement	Rustoleum - Painters Touch Glc 		U		600+ ppb	☐
Basement	Rustoleum - Specialty		U		600+ ppb	☐
Basement	Rustoleum - Inverted Marking f 		U		142 ppb	☐
Basement	Brasso - Copper & Chromium C 		U		157 ppb	☐
Basement	Westley's Black Magic		U		500+ ppb	☐
Basement	Premium Decor - Satin Protecti 		U		189 ppb	☐
Basement	True Test - XO Rust		U		1000+ ppb	☐
Basement	Latex Paint - Various Brands	1 g	U		0 ppb	☐
Basement	Latex Paint - Various Brands	1 q	U		0 ppb	☐
Basement	Deck Stain	1 g	U		0 ppb	☐
Basement	Polyurethane	1 q	U		0 ppb	☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Yes ☐ No Were there any elevated PID readings taken on site? ☐ Yes ☐ No ☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Ithaca South Hill Site Code: C755012A Operable Unit: OU1
Building Code: Structure 61 Building Name: Structure 61
Address: 150 Pearsall Place Apt/Suite No: _____
City: Ithaca State: NY Zip: 14840 County: _____

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: ALMOST NEVER Floor Material: CEMENT

☐ Inhabited? ☐ HVAC System On? ☒ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: _____ ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener: _____

☐ Cleaning Products Used Recently?: Description of Cleaning Products: _____

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: _____

☐ New Carpet or Furniture? Location of New Carpet/Furniture: _____

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____

☐ Recent Painting/Staining? Location of New Painting: _____

☐ Solvent or Chemical Odors? Describe Odors (if any): _____

☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____

☐ Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?: _____

☐ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 29 °F

Current Building Use: _____ Barometric Pressure: 30.55 in(hg)

Product Inventory Complete? ☐ Yes ☒ Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: Structure 61 Address: 150 Pearsall Place

Sampling Information

Sampler Name(s): Garth Barrett

Sampler Company Code: _____

Sample Collection Date: 3/6/2014-3/7/2014

Date Samples Sent To Lab: March 11, 2014

Sample Chain of Custody Number: Not Applicable

Outdoor Air Sample Location ID: #60-0A-2014

SUMMA Canister Information

Sample ID: #61-SS-2014

#61-BA-2014

Location Code:

Location Type: SUBSLAB

BASEMENT

Canister ID: 10261

10376

Regulator ID: K397

K126

Matrix: Subslab Soil Vapo

Indoor Air

Sampling Method: SUMMA AIR SAMPLIN

SUMMA AIR SAM

Sampling Area Info

Slab Thickness (inches): 4 1/2 inches

Sub-Slab Material:

Sub-Slab Moisture:

Seal Type: CLAY

Seal Adequate?:



Sample Times and Vacuum Readings

Sample Start Date/Time: 3/6/2014 15:14

3/6/2014 15:15

Vacuum Gauge Start: -29

-30

Sample End Date/Time: 3/7/2014 15:04

3/7/2014 15:05

Vacuum Gauge End: -2

-4

Sample Duration (hrs): 24

24

Vacuum Gauge Unit: in(hg)

in(hg)

Sample QA/QC Readings

Vapor Port Purge:



Purge PID Reading: 0

Purge PID Unit: ppb

Tracer Test Pass:



Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM



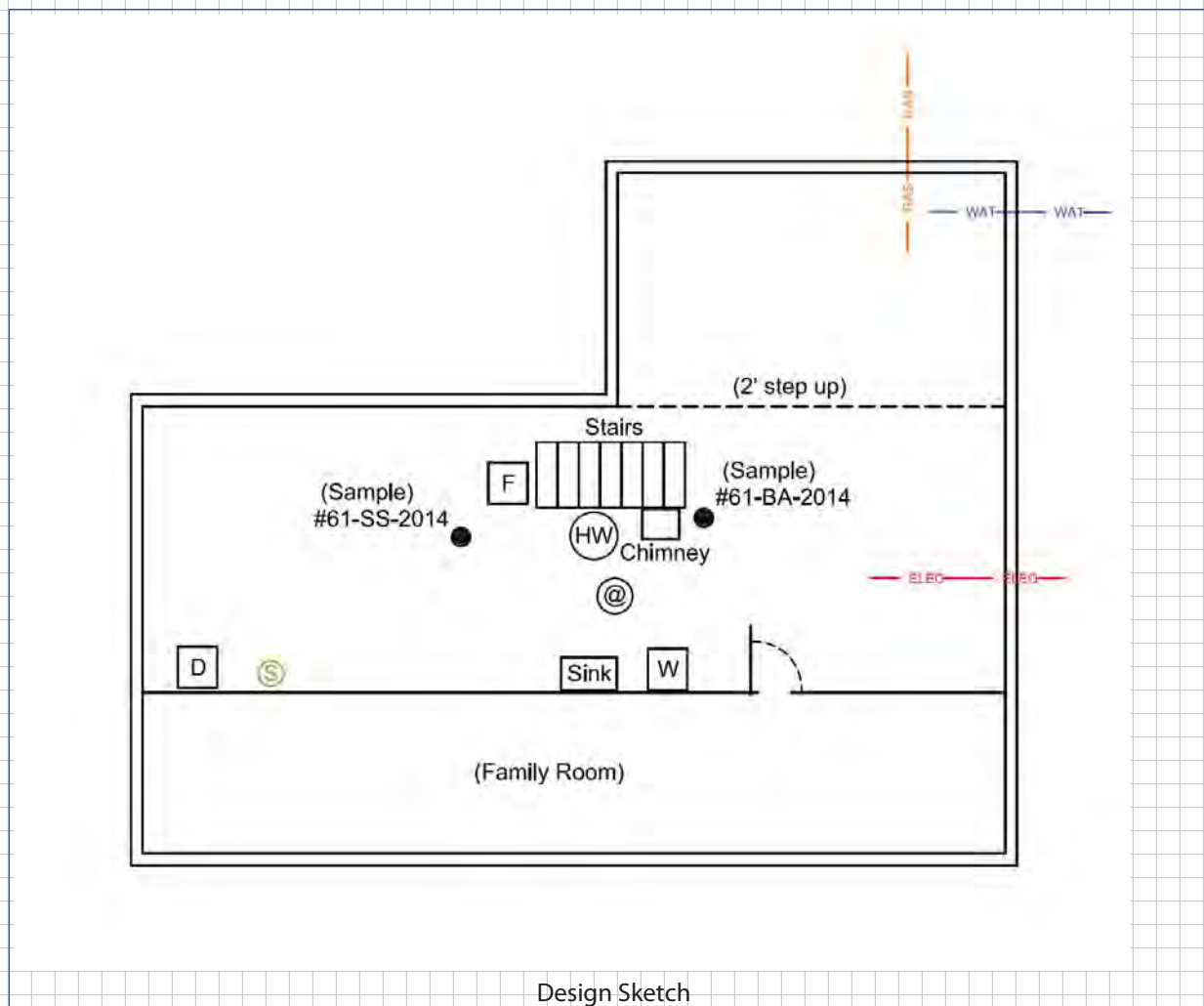
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

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Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

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| HW | Hot Water Heater | xxxxxxx | Perimeter Drains (draw inside or outside outer walls as appropriate) |
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| WS | Wood Stoves | ● SS-1 | Location & label of sub-slab samples |
| W/D | Washer / Dryer | ● IA-1 | Location & label of indoor air samples |
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| @ | Floor Drains | ● PFET-1 | Location and label of any pressure field test holes. |



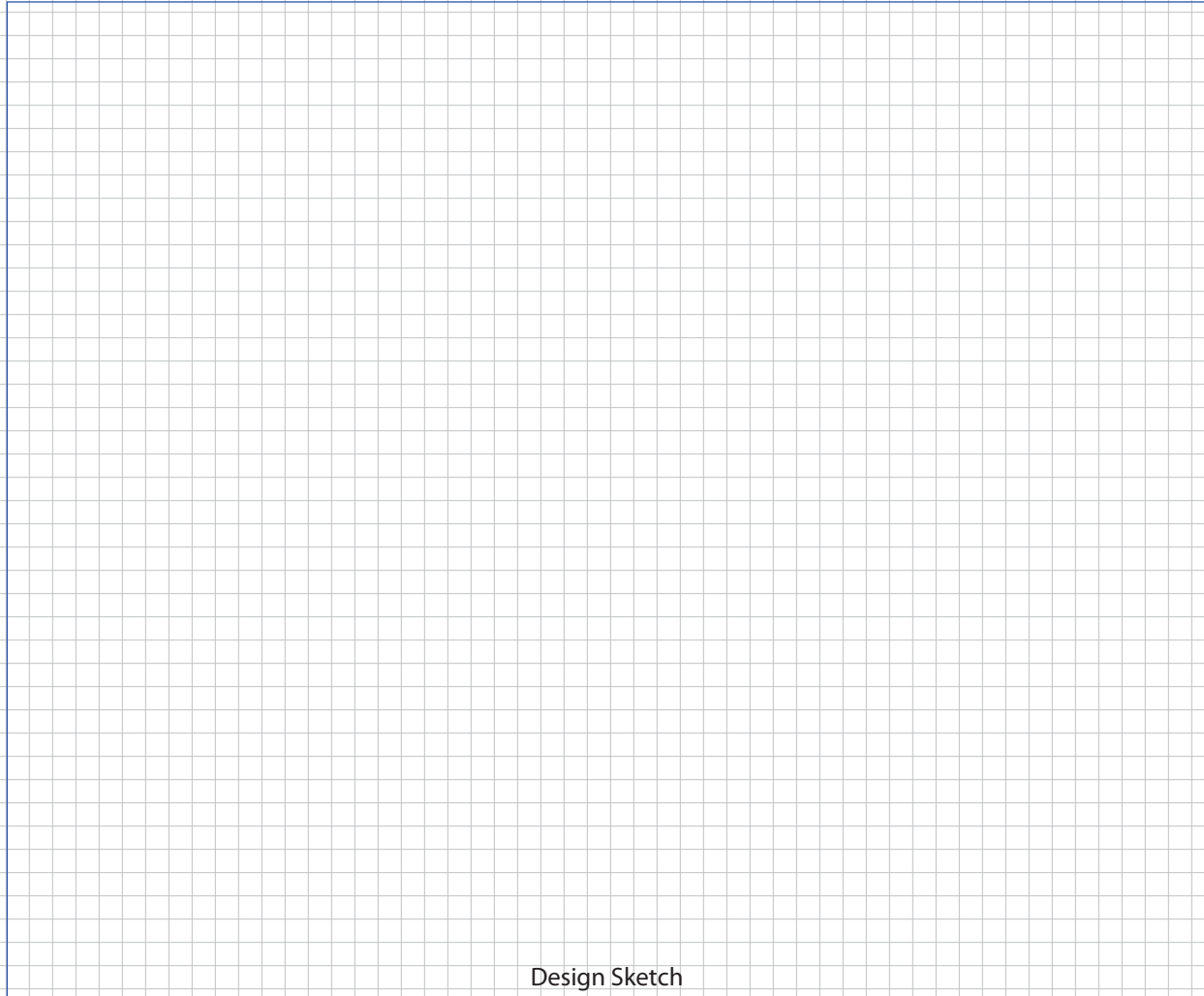
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

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Clear Image



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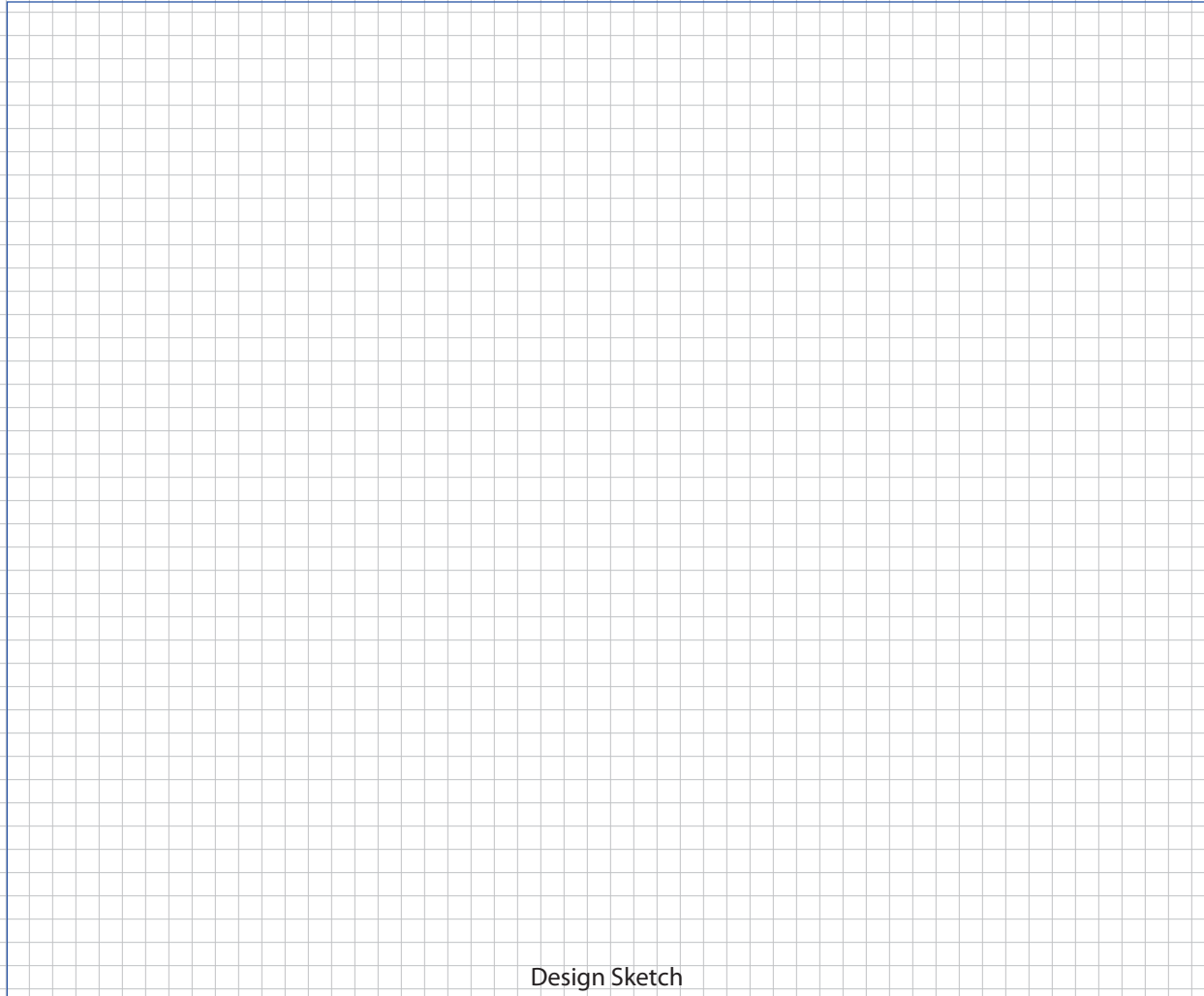
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

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Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Ithaca South Hill Site Code: C755012A Operable Unit: OU1
Building Code: Structure 63 Building Name: Structure 63
Address: 154 Pearsall Place Apt/Suite No: _____
City: Ithaca State: NY Zip: 14840 County: Tompkins

Contact Information

Preparer's Name: Karen Carling Phone No: (518)885-5383
Preparer's Affiliation: Aztech Technologies, Inc Company Code: _____
Purpose of Investigation: Sub-slab and indoor air sampling Date of Inspection: March 6, 2014
Contact Name: _____ Affiliation: _____
Phone No: _____ Alt. Phone No: _____ Email: _____
Number of Occupants (total): 2 Number of Children: 0
☐ Occupant Interviewed? ☒ Owner Occupied? ☒ Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL Bldg Size (S/M/L): SMALL
If Commercial or Industrial Facility, Select Operations: _____ If Residential Select Structure Type: SINGLE FAMILY RES
Number of Floors: 1 Approx. Year Construction: 1945 ☒ Building Insulated? ☐ Attached Garage?
Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):

Foundation Description

Foundation Type: BASEMENT Foundation Depth (bgs): 8 Unit: FEET
Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: 5 Unit: INCHES
Foundation Wall Material: CONCRETE BLOCK Foundation Wall Thickness: 10
☒ Floor penetrations? Describe Floor Penetrations: Sewer and floor drain
☒ Wall penetrations? Describe Wall Penetrations: Water and gas
Basement is: UNFINISHED Basement is: DRY ☐ Sumps/Drains? Water In Sump?: _____
Describe Foundation Condition (cracks, seepage, etc.) : _____
☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating / Cooling / Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: ELECTRIC
Water Htr Vent Location: OUTSIDE Dryer Vent Location: OUTSIDE



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Structure 63 Bldg Code: Structure 63 Date: March 6, 2014

Bldg Address: 154 Pearsall Place Apt/Suite No:

Bldg City/State/Zip: Ithaca

Make and Model of PID: PPb Rae 3000 Date of Calibration: March 6, 2014

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
				Note: Entire basement measured 7-8 ppb - during the inspection on March 6, 2014		☐
Basement	Kiwi - Performance Fabric Protection 	10.5 oz	U		1267 ppb	☐
Basement	Kiwi - Heavy Duty Water Repellent 	12 oz	U		0 ppb	☐
Basement	Elmers - Wood Filler	3.25 oz	U		7 ppb	☐
Basement	WD40	3 oz	U		18 ppb	☐
Basement	3IN-3 in One Multipurpose Oil		U		1179 ppb	☐
Basement	Rustoleum - Stain		U		5 ppb	☐
Basement	Kingsford - Charcoal Lighter	2 q	U		5 ppb	☐
Basement	Great Stuff - Window and Door	16 oz	U		5 ppb	☐
Basement	Varios Brands - Low VOC Latex 	1 g	U		0 ppb	☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Yes

Were there any elevated PID readings taken on site? ☐ Yes

☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Ithaca South Hill Site Code: C755012A Operable Unit: OU1

Building Code: Structure 63 Building Name: Structure 63

Address: 154 Pearsall Place Apt/Suite No: _____

City: Ithaca State: NY Zip: 14840 County: _____

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: ALMOST NEVER Floor Material: CEMENT

☐ Inhabited? ☐ HVAC System On? ☒ Bathroom Exhaust Fan? ☒ Kitchen Exhaust Fan?

Alternate Heat Source: _____ ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener: _____

☐ Cleaning Products Used Recently?: Description of Cleaning Products: _____

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: _____

☐ New Carpet or Furniture? Location of New Carpet/Furniture: _____

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____

☒ Recent Painting/Staining? Location of New Painting: Late summer painted bedroom

☐ Solvent or Chemical Odors? Describe Odors (if any): _____

☒ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: Stacey works in a lab with solvents such as

☐ Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☐ Any Prior Testing For Radon? If So, When?: _____

☐ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 29 °F

Current Building Use: _____ Barometric Pressure: 30.55 in(hg)

Product Inventory Complete? ☐ Yes ☒ Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: Structure 63

Address: 154 Pearsall Place

Sampling Information

Sampler Name(s): Garth Barrett

Sampler Company Code: _____

Sample Collection Date: 3/6/2014-3/7/2014

Date Samples Sent To Lab: 3/11/2014

Sample Chain of Custody Number: Not Applicable

Outdoor Air Sample Location ID: #60-0A-2014

SUMMA Canister Information

Sample ID:	<u>#63-SS-2014</u>	<u>#63-BA1-2014</u>	<u>#63-BA2-2014</u>		
Location Code:					
Location Type:	<u>SUBSLAB</u>	<u>BASEMENT</u>	<u>BASEMENT</u>		
Canister ID:	<u>10491</u>	<u>10230</u>	<u>10720</u>		
Regulator ID:	<u>K385</u>	<u>K477</u>	<u>K100</u>		
Matrix:	<u>Subslab Soil Vapo</u>	<u>Indoor Air</u>	<u>Indoor Air</u>		
Sampling Method:	<u>SUMMA AIR SAMPLIN</u>	<u>SUMMA AIR SAM</u>	<u>SUMMA AIR SAM</u>		

Sampling Area Info

Slab Thickness (inches):	<u>4 1/2 - 5 inch</u>				
Sub-Slab Material:					
Sub-Slab Moisture:					
Seal Type:	<u>CLAY</u>				
Seal Adequate?:	☒	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	<u>3/6/2014 11:43</u>	<u>3/6/2014 11</u>	<u>3/6/2014 11</u>		
Vacuum Gauge Start:	<u>-30</u>	<u>-30</u>	<u>-30</u>		
Sample End Date/Time:	<u>3/7/2014 11:25</u>	<u>3/7/2014 11</u>	<u>3/7/2014 11</u>		
Vacuum Gauge End:	<u>-3</u>	<u>-4</u>	<u>-3</u>		
Sample Duration (hrs):	<u>24</u>	<u>24</u>	<u>24</u>		
Vacuum Gauge Unit:	<u>in(hg)</u>	<u>in(hg)</u>	<u>in(hg)</u>		

Sample QA/QC Readings

Vapor Port Purge:	☒	☐	☐	☐	☐
Purge PID Reading:	<u>0</u>				
Purge PID Unit:	<u>ppb</u>				
Tracer Test Pass:	☒	☐	☐	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM



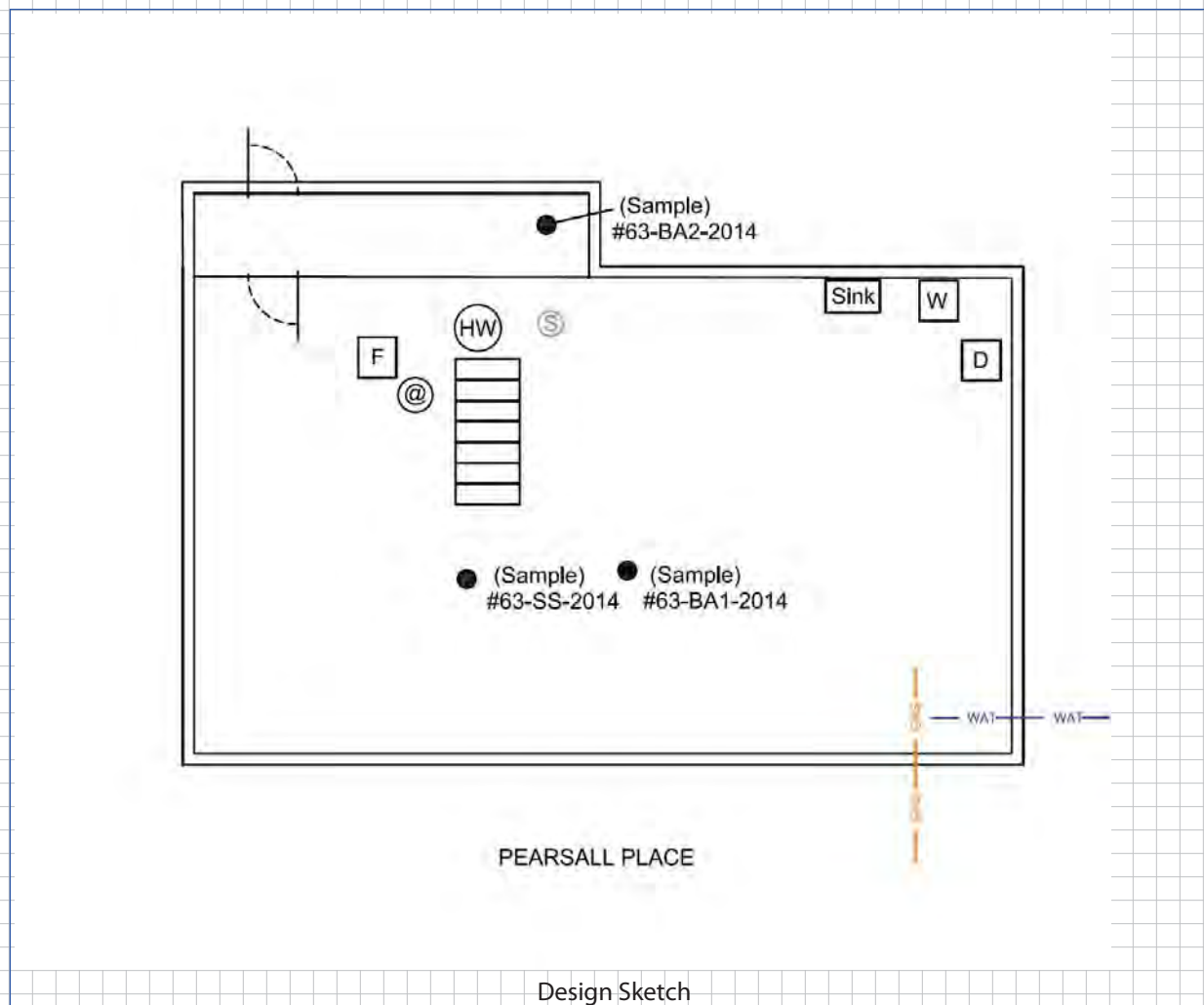
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

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Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbolology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	#####	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.



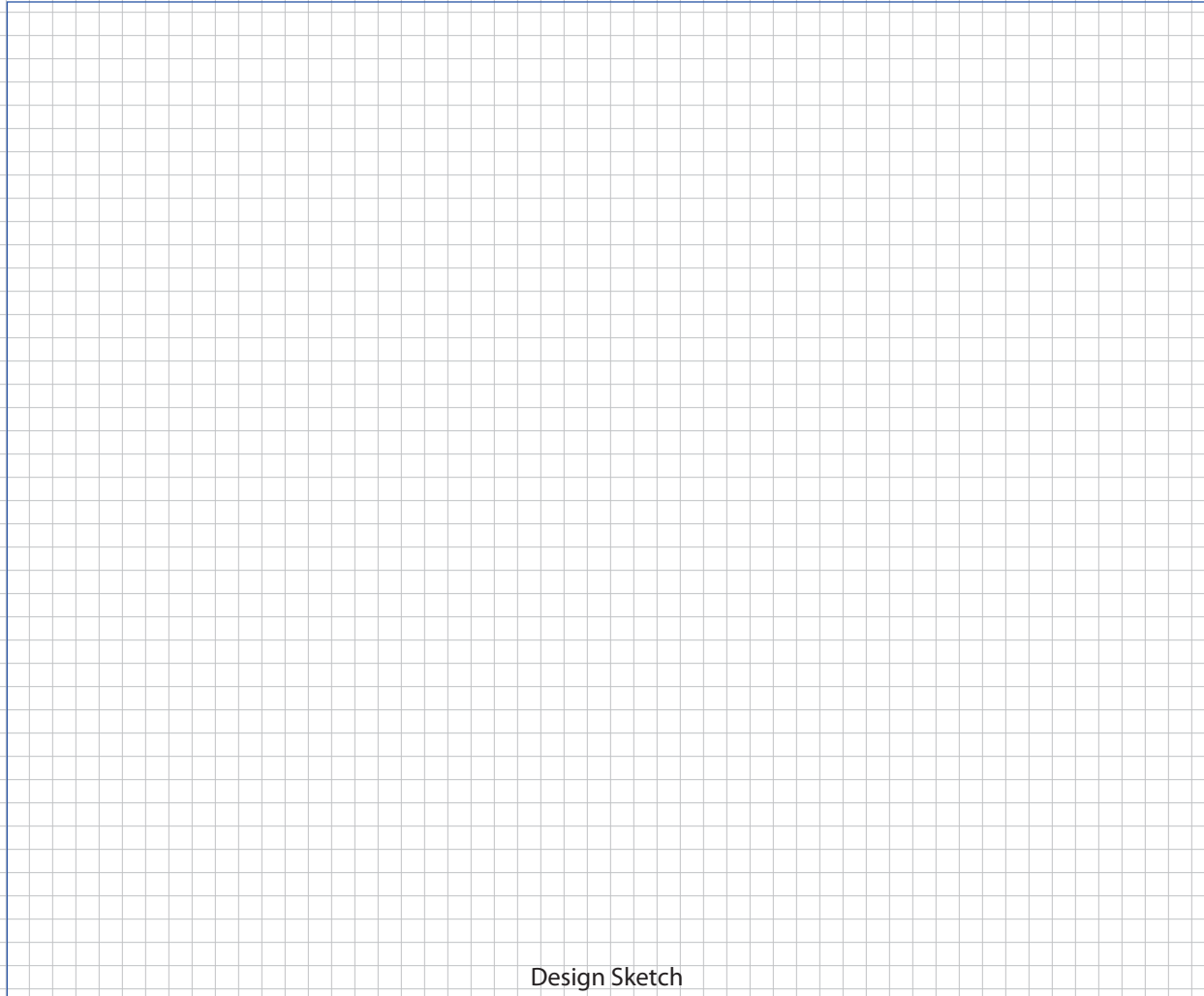
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

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| FP | Fireplaces | ##### | Areas of broken-up concrete |
| WS | Wood Stoves | ● SS-1 | Location & label of sub-slab samples |
| W/D | Washer / Dryer | ● IA-1 | Location & label of indoor air samples |
| S | Sumps | ● OA-1 | Location & label of outdoor air samples |
| @ | Floor Drains | ● PFET-1 | Location and label of any pressure field test holes. |



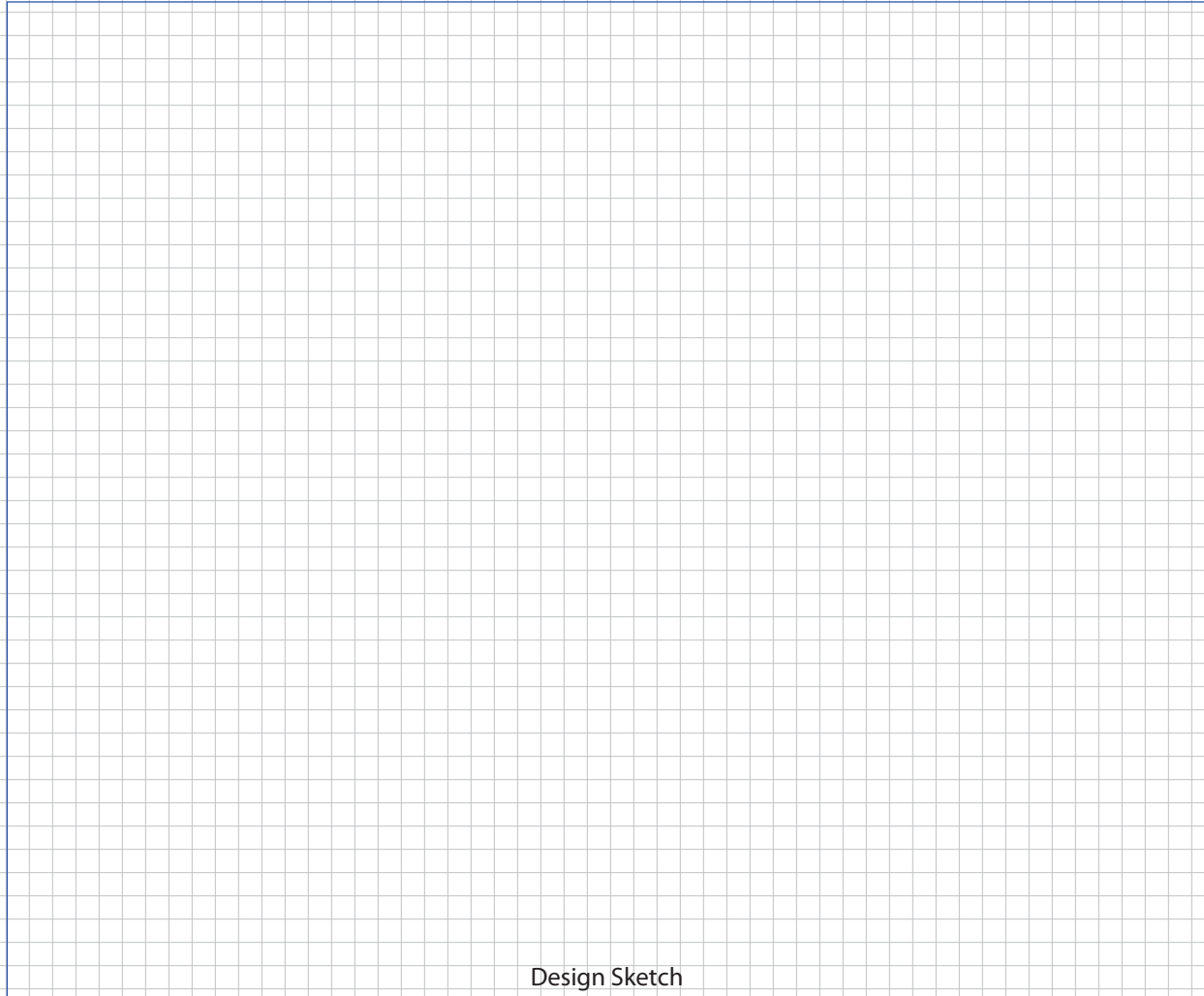
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
 - Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
 - Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
 - Identify the locations of the following features on the layout sketch, using the appropriate symbols:
- | | | | |
|---------------|-------------------|----------|--|
| B or F | Boiler or Furnace | o | Other floor or wall penetrations (label appropriately) |
| HW | Hot Water Heater | xxxxxxx | Perimeter Drains (draw inside or outside outer walls as appropriate) |
| FP | Fireplaces | ##### | Areas of broken-up concrete |
| WS | Wood Stoves | ● SS-1 | Location & label of sub-slab samples |
| W/D | Washer / Dryer | ● IA-1 | Location & label of indoor air samples |
| S | Sumps | ● OA-1 | Location & label of outdoor air samples |
| @ | Floor Drains | ● PFET-1 | Location and label of any pressure field test holes. |



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Ithaca South Hill Site Code: C755012A Operable Unit: OU1
Building Code: Structure 64 Building Name: Structure 64
Address: 158 Pearsall Place Apt/Suite No: _____
City: Ithaca State: NY Zip: 14840 County: Tompkins

Contact Information

Preparer's Name: Karen Carling Phone No: (518) 885-5383
Preparer's Affiliation: Aztech Technologies, Inc Company Code: _____
Purpose of Investigation: Sub-slab and indoor air sampling Date of Inspection: March 6, 2014
Contact Name: _____ Affiliation: OWNER
Phone No: _____ Alt. Phone No: _____ Email: _____
Number of Occupants (total): 1 Number of Children: 0
☐ Occupant Interviewed? ☒ Owner Occupied? ☒ Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL Bldg Size (S/M/L): SMALL
If Commercial or Industrial Facility, Select Operations: _____ If Residential Select Structure Type: SINGLE FAMILY RES
Number of Floors: 1 Approx. Year Construction: 1950 ☒ Building Insulated? ☐ Attached Garage?
Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):
Notes: Cracks in the wall near the washing machine and two floor drains. On demand hot water heater

Foundation Description

Foundation Type: BASEMENT Foundation Depth (bgs): 8 Unit: FEET
Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: 5 Unit: INCHES
Foundation Wall Material: CONCRETE BLOCK Foundation Wall Thickness: 10
☒ Floor penetrations? Describe Floor Penetrations: Sewer, floor drain, and sewer clean out near floor +
☒ Wall penetrations? Describe Wall Penetrations: Water and natural gas
Basement is: UNFINISHED Basement is: DAMP ☒ Sumps/Drains? Water In Sump?: _____
Describe Foundation Condition (cracks, seepage, etc.) : Crack near the washing machine. No sump - 2 floor +
☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating / Cooling / Ventilation Systems

Heating System: FORCED AIR Heat Fuel Type: GAS ☒ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: ELECTRIC
Water Htr Vent Location: OUTSIDE Dryer Vent Location: OUTSIDE



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Structure 64 Bldg Code: Structure 64 Date: March 6, 2014

Bldg Address: 158 Pearsall Place Apt/Suite No:

Bldg City/State/Zip: Ithaca

Make and Model of PID: PPB Rae 3000 Date of Calibration: March 6, 2014

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Basement	Solder Seal - Liquid Wrench		U		800+ ppb	☐
Basement	Raid - Ant Replent		U		160 ppb	☐
Basement	Aqua Mix - Seal and Finish, Low 		U		164 ppb	☐
Basement	Spectracide - Indoor Fogger		U		168 ppb	☐
Basement	Savogran Strypeeze - Paint and 		U		8000+ ppb	☐
Basement	Color Place - Rust Control Spray 		U		500+ ppb	☐
Basement	Stanley - Chalk		U		138 ppb	☐
Basement	Golden Eagle Kleenshield - Wire 		U		140 ppb	☐
Basement	Penske Car Care - Power Steering 		U		128 ppb	☐
Basement	Gasoline	5 g	U			☐
Basement	Latex Paint	2 g	U			☐
Basement	Lawn Movers	2				☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Yes ☐ No Were there any elevated PID readings taken on site? ☐ Yes ☐ No ☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Ithaca South Hill Site Code: C755012A Operable Unit: OU1
Building Code: Structure 64 Building Name: Structure 64
Address: 158 Pearsall Place Apt/Suite No: _____
City: Ithaca State: NY Zip: 14840 County: _____

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: ALMOST NEVER Floor Material: CEMENT
☐ Inhabited? ☐ HVAC System On? ☒ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?
Alternate Heat Source: _____ ☐ Is there smoking in the building?
☐ Air Fresheners? Description/Location of Air Freshener: _____
☐ Cleaning Products Used Recently?: Description of Cleaning Products: _____
☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: _____
☐ New Carpet or Furniture? Location of New Carpet/Furniture: _____
☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____
☒ Recent Painting/Staining? Location of New Painting: Painted 1st floor bedroom last year.
☐ Solvent or Chemical Odors? Describe Odors (if any): _____
☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____
☐ Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:
Storage of gasoline and two lawn mowers in the basement.

☐ Any Prior Testing For Radon? If So, When?: _____
☐ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 29 °F
Current Building Use: _____ Barometric Pressure: 30.55 in(hg)
Product Inventory Complete? ☐ Yes ☒ Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: Structure 64 Address: 158 Pearsall Place

Sampling Information

Sampler Name(s): Garth Barrett

Sampler Company Code: _____

Sample Collection Date: 3/6/2014-3/7/2014

Date Samples Sent To Lab: 3/11/2014

Sample Chain of Custody Number: Not Applicable

Outdoor Air Sample Location ID: #60-0A-2014

SUMMA Canister Information

Sample ID: #64-SS-2014

#64-BA-2014

Location Code:

Location Type: SUBSLAB

BASEMENT

Canister ID: 10703

10096

Regulator ID: K165

K103

Matrix: Subslab Soil Vapo

Indoor Air

Sampling Method: SUMMA AIR SAMPLIN

SUMMA AIR SAM

Sampling Area Info

Slab Thickness (inches): 5

Sub-Slab Material:

Sub-Slab Moisture:

Seal Type: CLAY

Seal Adequate?:



Sample Times and Vacuum Readings

Sample Start Date/Time: 3/6/2014 16:52

3/6/2014 16:52

Vacuum Gauge Start: -30

-28

Sample End Date/Time: 3/7/2014 16:32

3/7/2014 16:32

Vacuum Gauge End: -3

0

Sample Duration (hrs): 24

24

Vacuum Gauge Unit: in(hg)

in(hg)

Sample QA/QC Readings

Vapor Port Purge:



Purge PID Reading: 0

Purge PID Unit: ppb

Tracer Test Pass:



Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM



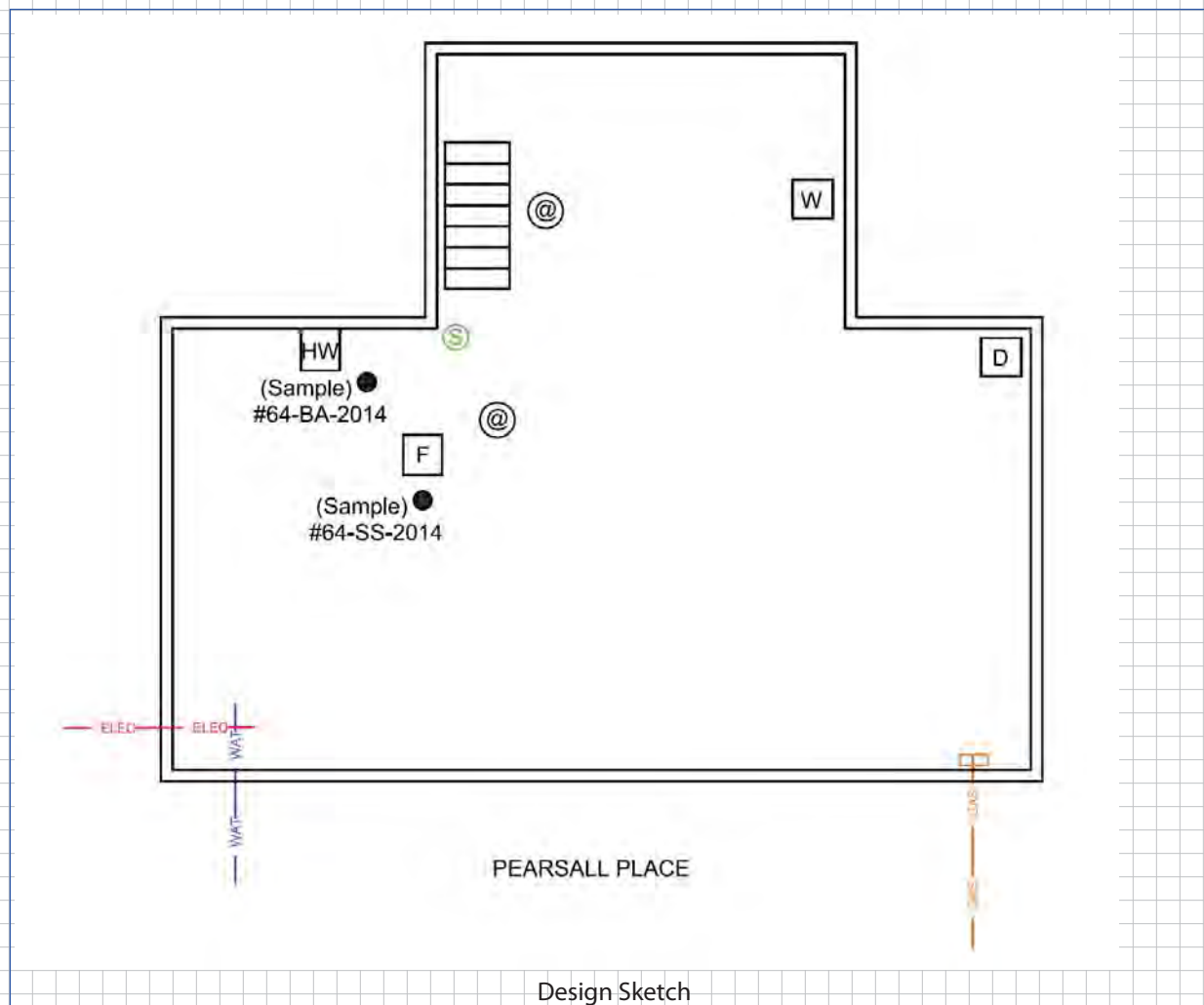
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch Guidelines and Recommended Symbolology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	#####	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.



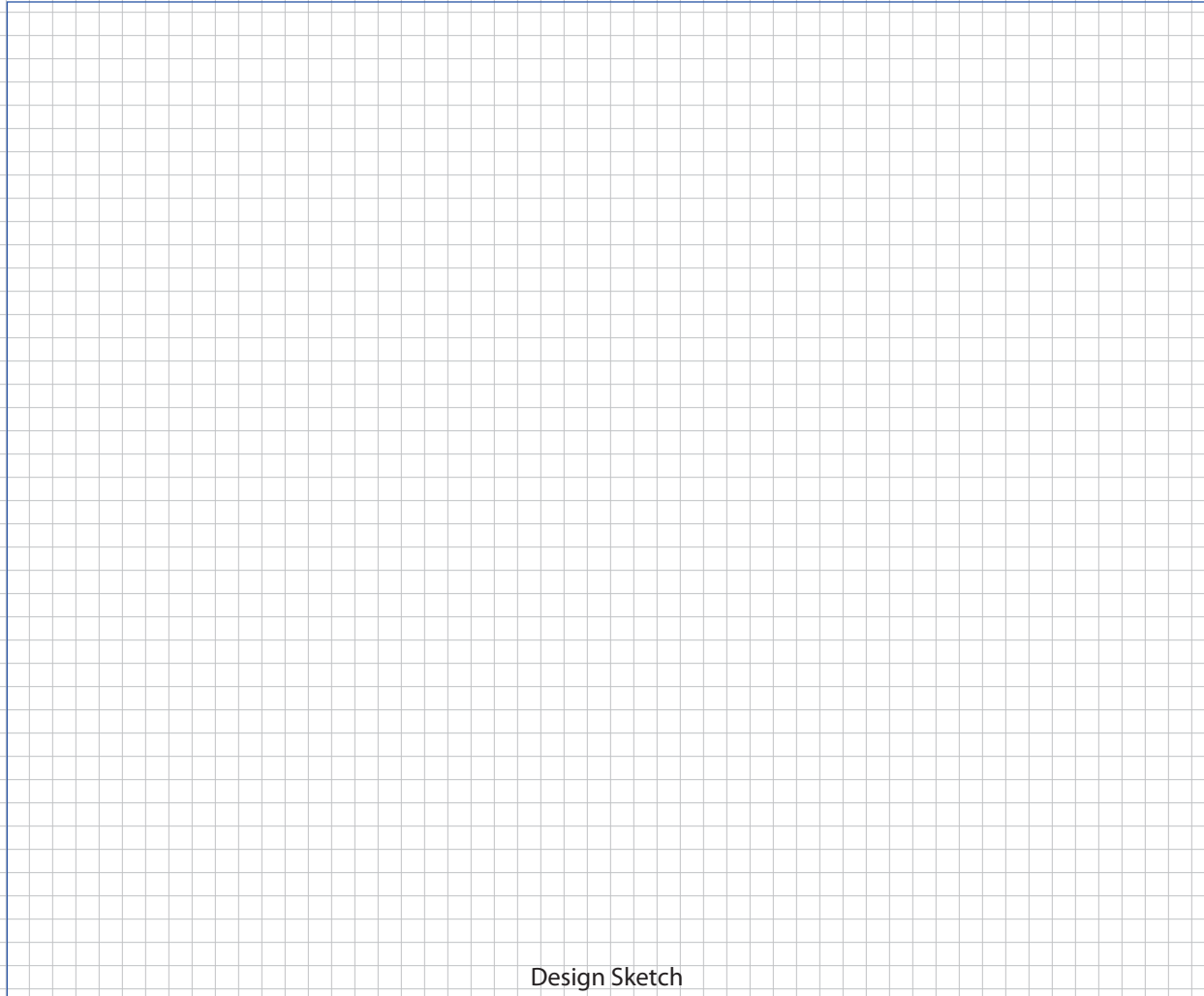
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building.
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
 - Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
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- | | | | |
|---------------|-------------------|----------|--|
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| HW | Hot Water Heater | xxxxxxx | Perimeter Drains (draw inside or outside outer walls as appropriate) |
| FP | Fireplaces | ##### | Areas of broken-up concrete |
| WS | Wood Stoves | ● SS-1 | Location & label of sub-slab samples |
| W/D | Washer / Dryer | ● IA-1 | Location & label of indoor air samples |
| S | Sumps | ● OA-1 | Location & label of outdoor air samples |
| @ | Floor Drains | ● PFET-1 | Location and label of any pressure field test holes. |



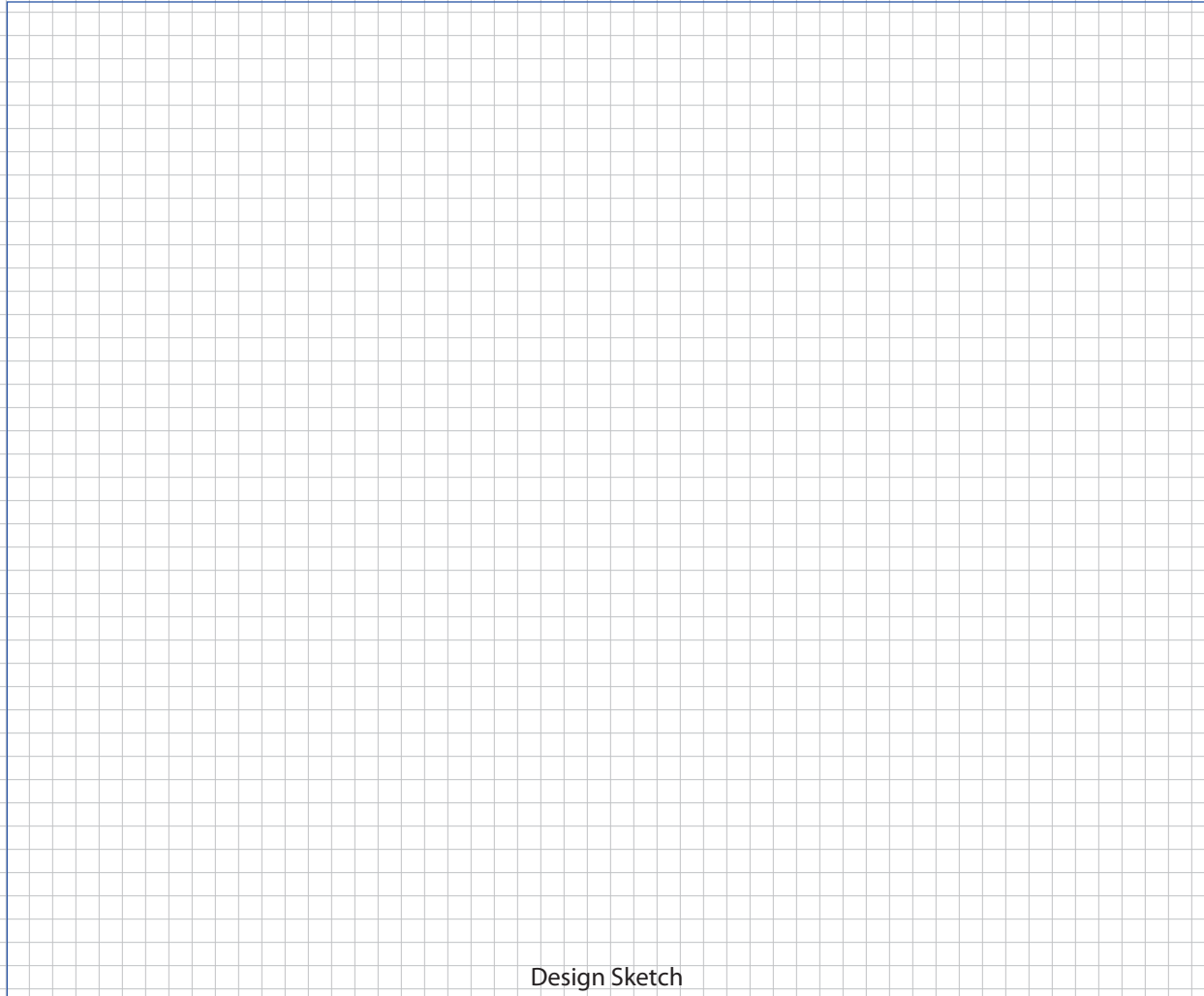
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
 - Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
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| B or F | Boiler or Furnace | o | Other floor or wall penetrations (label appropriately) |
| HW | Hot Water Heater | xxxxxxx | Perimeter Drains (draw inside or outside outer walls as appropriate) |
| FP | Fireplaces | ##### | Areas of broken-up concrete |
| WS | Wood Stoves | ● SS-1 | Location & label of sub-slab samples |
| W/D | Washer / Dryer | ● IA-1 | Location & label of indoor air samples |
| S | Sumps | ● OA-1 | Location & label of outdoor air samples |
| @ | Floor Drains | ● PFET-1 | Location and label of any pressure field test holes. |



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Ithaca South Hill Site Code: C755012A Operable Unit: OU1
Building Code: Structure 65 Building Name: Structure 65
Address: 145 Hawthorne Place Apt/Suite No: _____
City: Ithaca State: NY Zip: 14840 County: Tompkins

Contact Information

Preparer's Name: Karen Carling Phone No: (518) 885-5383
Preparer's Affiliation: Aztech Technologies, Inc Company Code: _____
Purpose of Investigation: Sub-slab and indoor air sampling Date of Inspection: March 6, 2014
Contact Name: _____ Affiliation: OWNER
Phone No: _____ Alt. Phone No: _____ Email: _____
Number of Occupants (total): 1 Number of Children: _____
☐ Occupant Interviewed? ☒ Owner Occupied? ☒ Owner Interviewed?
Owner Name (if different): _____ Owner Phone: _____
Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): RESIDENTIAL Bldg Size (S/M/L): SMALL
If Commercial or Industrial Facility, Select Operations: _____ If Residential Select Structure Type: SINGLE FAMILY RES
Number of Floors: 1 Approx. Year Construction: _____ ☒ Building Insulated? ☐ Attached Garage?
Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):
Crawl space is a dirt floor covered with poly. Hot water radiator.

Foundation Description

Foundation Type: CRAWLSPACE Foundation Depth (bgs): 6 Unit: FEET
Foundation Floor Material: DIRT Foundation Floor Thickness: 0 Unit: INCHES
Foundation Wall Material: CONCRETE BLOCK Foundation Wall Thickness: 10
☐ Floor penetrations? Describe Floor Penetrations: _____
☒ Wall penetrations? Describe Wall Penetrations: Sewer
Basement is: UNFINISHED Basement is: DRY ☐ Sumps/Drains? Water In Sump?: _____
Describe Foundation Condition (cracks, seepage, etc.) : _____
☐ Radon Mitigation System Installed? ☐ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating / Cooling / Ventilation Systems

Heating System: OTHER Heat Fuel Type: GAS ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: GAS Clothes Dryer Fuel Type: NO CLOTHES DRYER
Water Htr Vent Location: OUTSIDE Dryer Vent Location: OUTSIDE



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: Structure 65 Bldg Code: Structure 65 Date: March 6, 2014

Bldg Address: 145 Hawthorne Place Apt/Suite No:

Bldg City/State/Zip: Ithaca NY, 14840

Make and Model of PID: PPB Rae 3000 Date of Calibration: March 6, 2014

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
				No products to inventory		☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☐ Yes Were there any elevated PID readings taken on site? ☐ No ☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Ithaca South Hill Site Code: C755012A Operable Unit: OU1
Building Code: Structure 65 Building Name: Structure 65
Address: 145 Hawthorne Place Apt/Suite No: _____
City: Ithaca State: NY Zip: 14840 County: _____

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: ALMOST NEVER Floor Material: DIRT
☐ Inhabited? ☐ HVAC System On? ☐ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?
Alternate Heat Source: _____ ☐ Is there smoking in the building?
☐ Air Fresheners? Description/Location of Air Freshener: _____
☐ Cleaning Products Used Recently?: Description of Cleaning Products: _____
☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: _____
☐ New Carpet or Furniture? Location of New Carpet/Furniture: _____
☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____
☐ Recent Painting/Staining? Location of New Painting: _____
☐ Solvent or Chemical Odors? Describe Odors (if any): _____
☐ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____
☐ Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

☒ Any Prior Testing For Radon? If So, When?: unknown
☐ Any Prior Testing For VOCs? If So, When?: _____

Sampling Conditions

Weather Conditions: SUNNY Outdoor Temperature: 29 °F
Current Building Use: _____ Barometric Pressure: 30.55 in(hg)
Product Inventory Complete? ☐ Yes ☒ Building Questionnaire Completed?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Building Code: Structure 65

Address: 145 Hawthorne Place Ithaca, NY 14840

Sampling Information

Sampler Name(s): Garth Barrett

Sampler Company Code: _____

Sample Collection Date: 3/6/2014-3/7/2014

Date Samples Sent To Lab: 3/11/2014

Sample Chain of Custody Number: Not Applicable

Outdoor Air Sample Location ID: #65-0A-2014

SUMMA Canister Information

Sample ID:	<u>#65-CS-2014</u>	<u>#65-0A-2014</u>			
Location Code:					
Location Type:	<u>CRAWLSPACE</u>	<u>OUTDOOR</u>			
Canister ID:	<u>09781</u>	<u>10225</u>			
Regulator ID:	<u>K399</u>	<u>K185</u>			
Matrix:	<u>Indoor Air</u>	<u>Ambient Outdo</u>			
Sampling Method:	<u>SUMMA AIR SAMPLIN</u>	<u>SUMMA AIR SAM</u>			

Sampling Area Info

Slab Thickness (inches):					
Sub-Slab Material:					
Sub-Slab Moisture:					
Seal Type:					
Seal Adequate?:	☐	☐	☐	☐	☐

Sample Times and Vacuum Readings

Sample Start Date/Time:	<u>3/6/2014 10:48</u>	<u>3/6/2014 10:48</u>			
Vacuum Gauge Start:	<u>-30</u>	<u>-30</u>			
Sample End Date/Time:	<u>3/7/2014 10:32</u>	<u>3/7/2014 10:32</u>			
Vacuum Gauge End:	<u>-3</u>	<u>-1</u>			
Sample Duration (hrs):	<u>24</u>	<u>24</u>			
Vacuum Gauge Unit:	<u>in(hg)</u>	<u>in(hg)</u>			

Sample QA/QC Readings

Vapor Port Purge:	☐	☐	☐	☐	☐
Purge PID Reading:					
Purge PID Unit:					
Tracer Test Pass:	☐	☐	☐	☐	☐

Sample start and end times should be entered using the following format: MM/DD/YYYY HH:MM



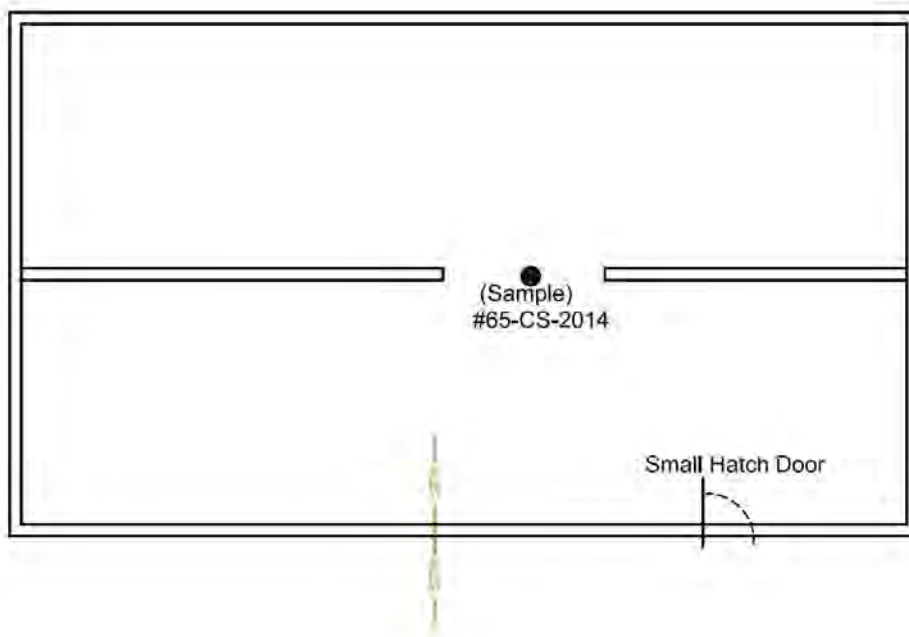
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbolology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
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B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	#####	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.



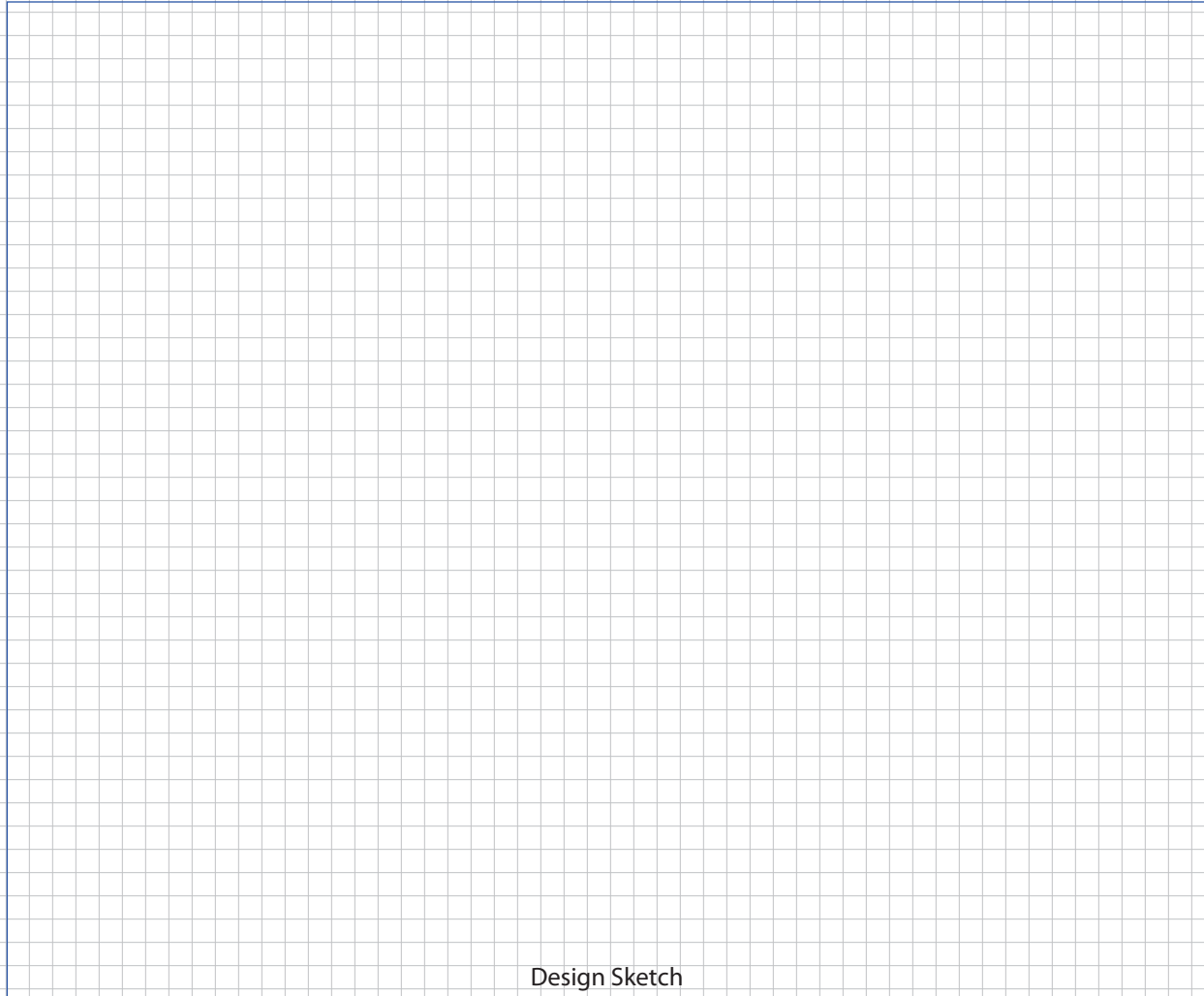
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building.
The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
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 - Identify the locations of the following features on the layout sketch, using the appropriate symbols:
- | | | | |
|---------------|-------------------|----------|--|
| B or F | Boiler or Furnace | o | Other floor or wall penetrations (label appropriately) |
| HW | Hot Water Heater | xxxxxxx | Perimeter Drains (draw inside or outside outer walls as appropriate) |
| FP | Fireplaces | ##### | Areas of broken-up concrete |
| WS | Wood Stoves | ● SS-1 | Location & label of sub-slab samples |
| W/D | Washer / Dryer | ● IA-1 | Location & label of indoor air samples |
| S | Sumps | ● OA-1 | Location & label of outdoor air samples |
| @ | Floor Drains | ● PFET-1 | Location and label of any pressure field test holes. |



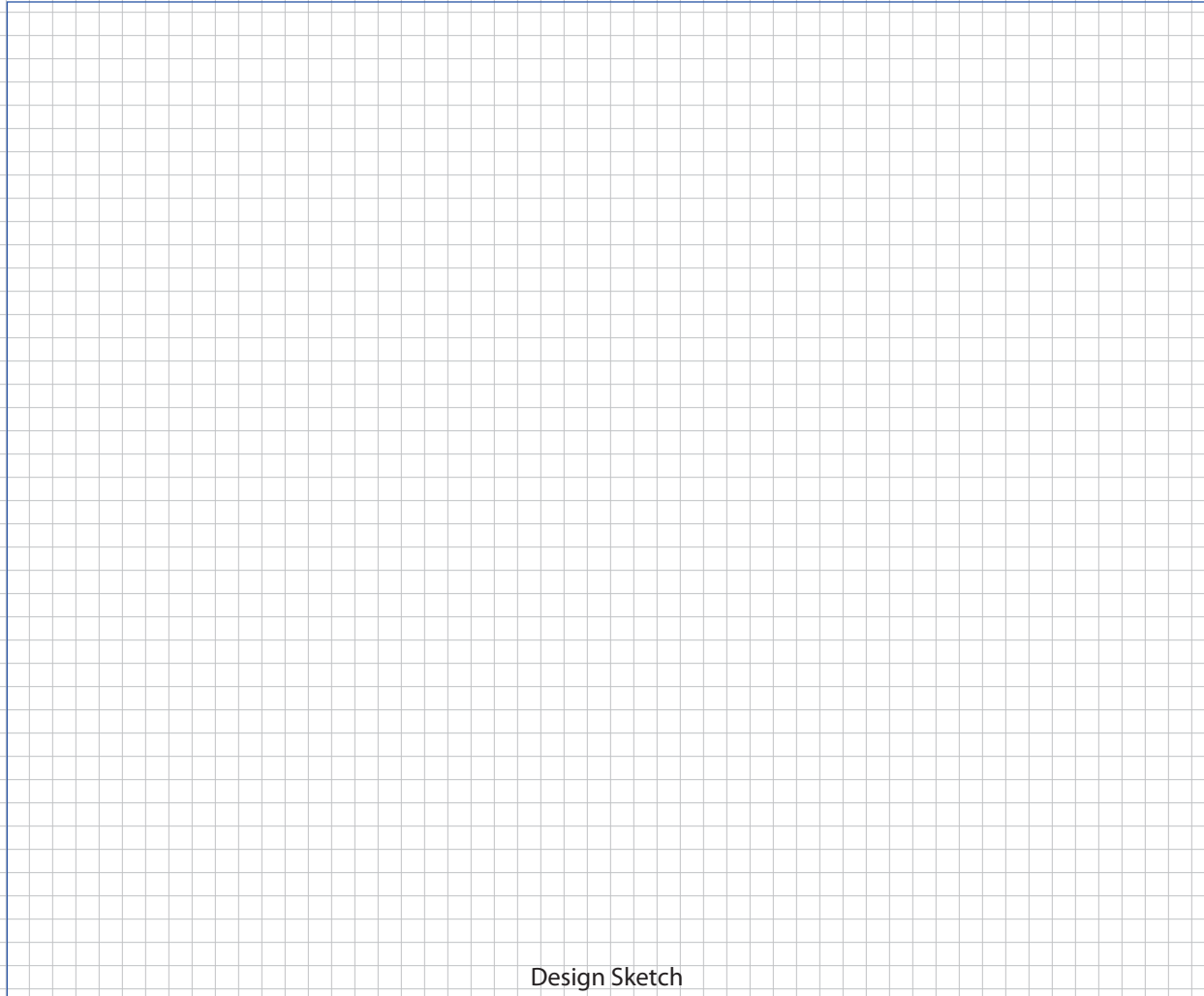
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch

Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
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- | | | | |
|---------------|-------------------|----------|--|
| B or F | Boiler or Furnace | o | Other floor or wall penetrations (label appropriately) |
| HW | Hot Water Heater | xxxxxxx | Perimeter Drains (draw inside or outside outer walls as appropriate) |
| FP | Fireplaces | ##### | Areas of broken-up concrete |
| WS | Wood Stoves | ● SS-1 | Location & label of sub-slab samples |
| W/D | Washer / Dryer | ● IA-1 | Location & label of indoor air samples |
| S | Sumps | ● OA-1 | Location & label of outdoor air samples |
| @ | Floor Drains | ● PFET-1 | Location and label of any pressure field test holes. |

Appendix C

Data Usability Summary Report

Data Usability Summary Report

**Former Axiohm Facility
Ithaca, New York**

**Air Monitoring Samples
Job # 140-1042-1**

April 2014

Data Usability Summary Report

**Air Monitoring Samples
Job # 140-1042-1**

**Former Axiohm Facility
Ithaca, New York**

Prepared By:

**EnviroAnalytics
Data Management and Validation Service
2638 Sunset Avenue
Utica, New York 13502**

EXECUTIVE SUMMARY

This report addresses data quality for air samples collected at the former Axiohm Facility located in Ithaca, New York. The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Aztech Technologies, Inc. located in Ballston Spa, New York. Analytical services were provided by TestAmerica Laboratories, Inc. located in Knoxville, Tennessee.

The TO-15 volatile organic analyses data were determined to be usable for qualitative and quantitative purposes as presented by the laboratory.

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Appendices

Appendix A - Data Validation Checklists

SECTION 1 - INTRODUCTION

1.1 Introduction

This report addresses data quality for air samples collected at the former Axiohm Facility located in Ithaca, New York. The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Aztech Technologies, Inc. located in Ballston Spa, New York. Analytical services were provided by TestAmerica Laboratories, Inc. located in Knoxville, Tennessee. The quantity and type of samples submitted for data validation are tabulated below.

Table 1: Introduction - Sample Summary Table

SDG#	Date Collected	Sample Matrix	Sample Identification	
			Client ID	Laboratory ID
140-1042-1	03/06/2014	Air	#60-SS-2014	140-1042-1
			#60-BA-2014	140-1042-2
			#61-SS-2014	140-1042-3
			#61-BA-2014	140-1042-4
			#60-OA-2014	140-1042-5
			#62-SS-2014	140-1042-6
			#62-BA-2014	140-1042-7
			DUP1	140-1042-8
			#62-OA-2014	140-1042-9
			#63-SS-2014	140-1042-10
			#63-BA1-2014	140-1042-11
			#63-BA2-2014	140-1042-12
			#64-SS-2014	140-1042-13
			#64-BA-2014	140-1042-14
			#65-OA-2014	140-1042-15
			#65-CS-2014	140-1042-16

1.2 Analytical Methods

The samples were analyzed for volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies (2005 update). Laboratory analyses were provided by TestAmerica Laboratories, Inc. located in Knoxville, Tennessee.

1.3 Validation Protocols

Data validation is a process that involves the evaluation of analytical data against prescribed quality control criteria to determine the usefulness of the data. The analytical data addressed in this report were evaluated utilizing the quality control criteria presented in the following documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, EPA-540-R-08-01, June 2008.

- *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.
- *Validating Air Samples Volatile Organic Analysis of Ambient Air in Canister by Method TO-15*, SOP No. HW-31 Revision #4, USEPA Hazardous Waste Support Branch, October 2006.
- *Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP)*, NYSDEC June 2005.

1.3.1 Organic Parameters

The validation of organic parameters for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

Volatile Organics Analyses

1. Holding Times
2. GC/MS Instrument Tuning Criteria
3. Calibration
 - a. Initial Calibration
 - b. Continuing Calibration
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike / Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Internal Standards Recovery
9. Compound Identification and Quantification
10. Field Duplicate Analysis
11. System Performance
12. Documentation Completeness
13. Overall Data Assessment

1.4 Data Qualifiers

The following qualifiers as specified in the guidance documents presented in Section 1.3 of this report have been used for this data validation.

- U Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination.
- J Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.
- UJ Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.

- R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

The following sections of this document present a summary of the data validation process. Section 2 discusses data compliance with established QA/QC criteria and qualifications performed on the sample data. A discussion of the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) of the data and data usability are discussed in Section 3. The USEPA Region II Data Validation Checklist is presented in Appendix A.

SECTION 2 - DATA VALIDATION SUMMARY

This section presents a discussion of QA/QC parameter compliance with established criteria and the qualification of data performed when QA/QC parameter deviations were identified. When several deviations from established QA/QC criteria were observed, the final qualifier assigned to the data was based on the cumulative effect of the deviations.

2.1 Volatile Organics Analysis

Data validation was performed for sixteen air samples. The QA/QC parameters presented in Section 1.3.1 of this report were found to be within specified limits. The overall data assessment is presented below.

Overall Data Assessment

Overall, the laboratory performed volatile organic analyses in accordance with the requirements specified in the methods listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes as presented by the laboratory.

SECTION 3 - DATA USABILITY and PARCC EVALUATION

3.1 Data Usability

This section presents a summary of the usability of the analytical data and an evaluation of the PARCC parameters. Data usability was calculated as the percentage of data that was not qualified as rejected based on a significant deviation from established QA/QC criteria. Data usability which was calculated separately for each type of analysis is tabulated below.

Table 2: Data Usability and PARCC Evaluation - Data Usability

Parameter	Usability	Deviations
TO-15 Volatile Organics	100 %	None resulting in the rejection of data.

3.2 PARCC Evaluation

The following sections provide an evaluation of the analytical data with respect to the precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters.

3.2.1 Precision

Precision is measured through field duplicate samples, split samples, and laboratory duplicate samples. For this sampling program, none of the data were qualified for field or laboratory duplicate criteria deviations.

3.2.2 Accuracy

Matrix spike sample, surrogate recovery, internal standard recovery, laboratory control samples, and calibration criteria indicate the accuracy of the data. For this sampling program, none of the analytical data were qualified for deviations from matrix spike recovery criteria; none of the data were qualified for surrogate recovery criteria deviations; none of the data were qualified for internal standard recovery criteria deviations; none of the data were qualified for laboratory control sample deviations; and none of the data were qualified for calibration criteria deviations.

3.2.3 Representativeness

Holding times, sample preservation, and blank analysis are indicators of the representativeness of the analytical data. For this investigation, none of the analytical data required qualification for holding time deviations and none of the analytical data required qualification for blank analysis deviations.

3.2.4 Comparability

Comparability is not compromised provided that the analytical methods did not change over time. A major component of comparability is the use of standard reference materials for calibration and QC. These standards are compared to other unknowns to verify their concentrations. Since standard analytical methods and reporting procedures were consistently used by the laboratory, the comparability criteria for the analytical data were met.

3.2.5 Completeness

The percent usability or completeness of the data was determined to be 100 percent.

APPENDIX A

DATA VALIDATION CHECKLISTS

Table of Contents

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I. Part A: TO-15 VOA Analyses	2

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
1.0	<u>Data Completeness and Deliverables</u>			
1.1	Have any missing deliverables been received and added to the data package?		X	
2.0	<u>Cover Letter, Narrative, and Data Reporting Forms</u>			
2.1	Is the Lab. Narrative and Cover Page Present?	X		
2.2	Is Case Number contained in the Narrative?	X		
2.3	Are the following Data Reporting Forms present?			
	Analysis Data Sheet [Form I/Equivalent]	X		
	Tentatively Identified Compounds [Form I-TIC]	X		
	Blank Summary [Form IV/Equivalent]	X		
	Laboratory Control Sample Data Sheet [Form III/Equivalent]	X		
	GC/MS Instrument Performance Check and Mass Calibration [Form V/Equivalent]	X		
	Initial Calibration [Form VI/Equivalent]	X		
	Continuing Calibration [Form VII/Equivalent]	X		
	Internal Standard Area and RT Summary [Form VIII/Equivalent]	X		
	Canister Certification [Form IX/Equivalent]	X		
3.0	<u>Canister Receipt/Log-in Sheet</u>			
3.1	Do all info items agree with each sample?	X		
4.0	<u>Traffic Reports and Laboratory Narrative</u>			
4.1	Are the Traffic Report Forms present for all samples?	X		
5.0	<u>Holding Times</u>			
5.1	Have any VOA technical holding times of 30 days, determined from the date of sample collection to the date of analysis, been exceeded?		X	
6.0	<u>Leak Test Evaluation</u>			
6.1	Did the pressure test not vary by more than ± 13.8 kPa (± 2 psi) over the 24 hours period?	X		
7.0	<u>Canister Certification Form IX/Equivalent</u>			
7.1	Blank Analysis			
	Were the <u>target</u> analytes < the required detection limits specified in the task order?		X	
7.2	Is the canister certification form provided, and the associated canister sample identification included? When contamination, included contamination detected (all raw data), analyte and reference mass spectra.		X	

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
8.0	<u>Laboratory Control Samples</u>			
8.1	Is an LCS Data Sheet [Form III/Equivalent] present and complete for each LCS?	X		
8.2	Was an LCS prepared (10 ppbv total scan, 0.1 ppbv SIM) and analyzed at the required frequency (once per 24 hour analytical sequence, and concurrently with the samples in the SDG)?	X		
8.3	Are there any transcription/calculation errors between the raw data and Form III/Equivalent?		X	
8.4	Is the % recovery within 70 – 130 % for each LCS <u>target compound</u> reported on Form III/Equivalent?	X		
8.5	Is the RT of <u>each reported LCS compound</u> within the windows established during the most recent valid calibration?	X		
8.6	Do the Internal Standards meet the requirements specified in Sections 18.1 and 18.2?	X		
9.0	<u>GC/MS Instrument Performance Check</u>			
9.1	Are the GC/MS Instrument Performance Check Forms [Form V/Equivalent] present for Bromofluorobenzene (BFB)?	X		
9.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the 50 ng BFB provided for each twenty-four hour shift?	X		
9.3	Has the instrument performance compound been analyzed for every twenty-four hours of sample analysis per instrument?	X		
9.4	Have the ion abundances been normalized to m/z 95?	X		
9.5	Have the ion abundance criteria been met for each instrument used?	X		
9.6	Are there any transcription/calculation errors between mass lists and Form Vs?		X	
9.7	Have the appropriate number of significant figures (two) been reported?	X		
9.8	Are the spectra of the mass calibration compound acceptable?	X		
10.0	<u>Performance Evaluation Sample (Optional)</u>			
10.1	Was a PE sample submitted from the Agency with each SDG?			X
10.2	Do the Internal Standards meet the requirements specified in Section 18.1 and 18.2?			X
11.0	<u>Laboratory Method Blanks</u>			
11.1	Is an Analysis Data Sheet [Form IV/Equivalent] present and complete for each method blank?	X		
11.2	Frequency of Analysis:			
	Has a method blank analysis been reported per instrument for each 24-hour analytical sequence?	X		
	Has a method blank been analyzed after the initial calibration or a valid calibration check standard, and before the LCS, prior to sample analysis?	X		
11.3	Is the chromatographic performance (baseline stability) for each instrument acceptable?	X		
11.4	Was the area response of each Internal Standard (IS) in the blank within ± 40 % of the mean area response of the IS of the most recent valid calibration?	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
11.5	Were the RTs of each IS within ± 0.33 min (20 sec.) between blanks and most recent valid calibration?	X		
12.0	<u>Blank Contamination</u>			
12.1	Do any method blanks have positive target and non-target VOA results?		X	
13.0	<u>Target Compound Analytes</u>			
13.1	Are the Organic Analysis Data Sheets [Form I/Equivalent], VOA chromatograms, and data system printouts present and complete with required header information for each of the following:			
	a. Samples?	X		
	b. Method blanks?	X		
	c. Laboratory Control Sample (LCS)?	X		
	d. Performance Evaluation Sample (PES)?	X		
13.2	Is the chromatographic performance acceptable with respect to:			
	a. Baseline stability?	X		
	b. Resolution?	X		
	c. Peak shape?	X		
	d. Full-scale graph (attenuation)?	X		
	e. Other?			X
13.3	Were any electropositive displacement (negative peaks) or unusual peaks seen?		X	
13.4	Is the sample component relative retention time (RRT) within ± 0.06 RRT units of the RRT of the standard component from the most recent continuing calibration?	X		
13.5	Was Nafion dryer used?		X	
14.0	<u>Tentatively Identified Compounds (TIC)</u>			
14.1	Are all Tentatively Identified Compound Forms [Form I-TIC] present and are retention time, estimated concentration and "JN" qualifier listed corresponding to each TIC?		X	
14.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following?			
	a. Samples			X
	b. Blanks			X
14.3	Are all ions present in the reference mass spectrum with a relative intensity greater than 10 % also present in the sample mass spectrum?			X
14.4	Do TIC and "best match" standard relative ion intensities agree within 20 %?			X
15.0	<u>Initial Calibration and System Performance [Form VI/Equivalent]</u>			
15.1	Were each GC/MS system calibrated at 5 concentrations that span the monitoring range of the interest in an initial calibration sequence to determine the sensitivity and the linearity of the GC/MS response for the target compounds?	X		
15.2	Was the same volume introduced into the trap consistently for all field and QC-sample analyses?	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
15.3	Was the area response (Y) at each calibration level within $\pm 40\%$ of the mean area response (mean Y) over the initial calibration range for each Internal Standard?	X		
	Did the laboratory tabulate the area response (Y) of the primary ions and the corresponding concentration for each compound and Internal Standard?	X		
15.4	Are the relative retention times (RRTs) for each of the target compounds at each calibration level within ± 0.06 RRT units of the mean relative retention time for the compound?	X		
15.5	Are all individual RRF and average RRFs ≥ 0.050 ?	X		
15.6	Are the response factors (RF) stable i.e., % Relative Standard Deviation (%RSD) $\leq 40.0\%$?	X		
15.7	Are there any transcription/calculation errors in the reporting of average response factors (RRFs) or %RSDs?		X	
15.8	Are the RT shift for each Internal Standard (IS) at each calibration level within 20 seconds of the mean RT over the initial calibration range of each IS?	X		
16.0	<u>Daily Calibration (Form VII/Equivalent)</u>			
16.1	Are the daily Calibration Forms [Form VII/Equivalent] present and complete for the volatile fraction?	X		
16.2	Has the daily calibration standard (20 ppbv total scan, 0.1 ppbv SIM) been analyzed for every twenty-four hours of sample analysis per instrument after the BFB tuning analysis?	X		
16.3	Do any volatile compounds have a % Difference (%D) between the initial and daily RRFs which exceed the $\pm 30\%$ criteria?		X	
16.4	Are there any transcription/calculation errors in the reporting of the average response factors (RRF) or % difference (%D) between initial and daily RRFs?		X	
17.0	<u>Compound Quantitation and Reported Detection Limits</u>			
17.1	Are there any transcription/calculations errors in Form I results?		X	
17.2	Are the reported detection limits adjusted to reflect sample dilutions?	X		
17.3	Have any target compound concentrations exceeded the calibration range of the GC?		X	
17.4	Was more than one method of quantitation used to calculate sample results within a batch or 24-hour analytical sequence?		X	
17.5	Did the lab report the target compounds below CRQLs with the suffix "J"?			X
18.0	<u>Internal Standards (Form VIII/Equivalent)</u>			
18.1	Are the 3 internal standard areas [Form VIII] of every sample, LCS, PE, and blank within the upper and lower limits ($+40\%$ to -40%) for each continuing calibration or 10 ppbv level of initial calibration?	X		
18.2	Are the internal standard retention times in each sample, LCS, PE, and blank within 20 seconds of the corresponding retention times in the associated calibration standard?	X		
19.0	<u>Mass Spectral Interpretation/Identification</u>			
19.1	Are the Organic Analysis Data Sheets present with required header information on each page, for each of the following:			
	a. Samples and/or fractions as appropriate?	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
	b. Laboratory Control Samples?	<u> X </u>	<u> </u>	<u> </u>
	c. Blanks?	<u> X </u>	<u> </u>	<u> </u>
19.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (quant reports) included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?	<u> X </u>	<u> </u>	<u> </u>
	b. Laboratory Control Samples?	<u> X </u>	<u> </u>	<u> </u>
	c. Blanks?	<u> X </u>	<u> </u>	<u> </u>
19.3	Is chromatographic performance acceptable with respect to:			
	a. Baseline stability?	<u> X </u>	<u> </u>	<u> </u>
	b. Resolution?	<u> X </u>	<u> </u>	<u> </u>
	c. Peak shape?	<u> X </u>	<u> </u>	<u> </u>
	d. Full-scale graph (attenuation)?	<u> X </u>	<u> </u>	<u> </u>
	e. Other:	<u> </u>	<u> </u>	<u> X </u>
19.4	Are the lab-generated standard mass spectra of the identified compounds present for each sample?	<u> X </u>	<u> </u>	<u> </u>
19.5	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	<u> X </u>	<u> </u>	<u> </u>
19.6	Are all ions present in the reference standard mass spectrum at a relative intensity greater than 10 % also present in the sample mass spectrum?	<u> X </u>	<u> </u>	<u> </u>
19.7	Do sample and reference standard relative ion intensities agree within ± 20 %?	<u> X </u>	<u> </u>	<u> </u>
20.0	<u>Field Duplicates</u>			
15.1	Were any field duplicates submitted for VOA analysis?	<u> X </u>	<u> </u>	<u> </u>

Appendix D

Product Inventory Photographic Documentation

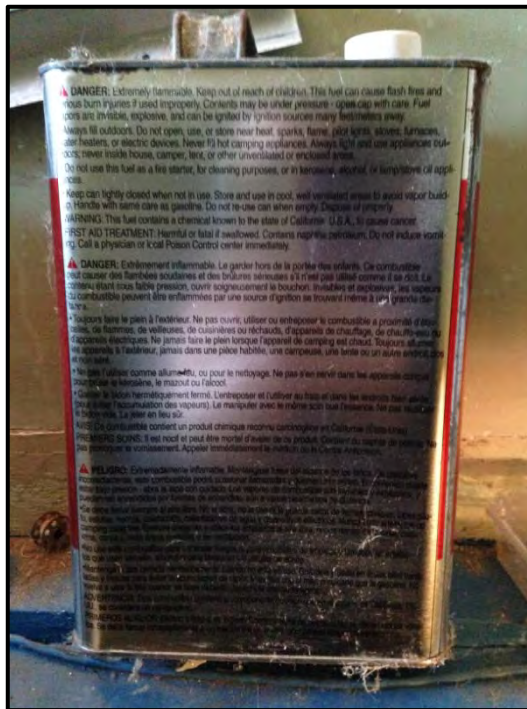
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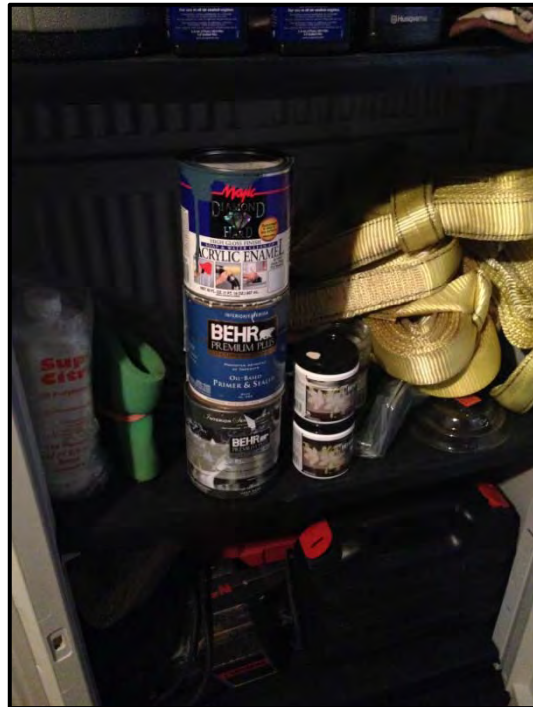
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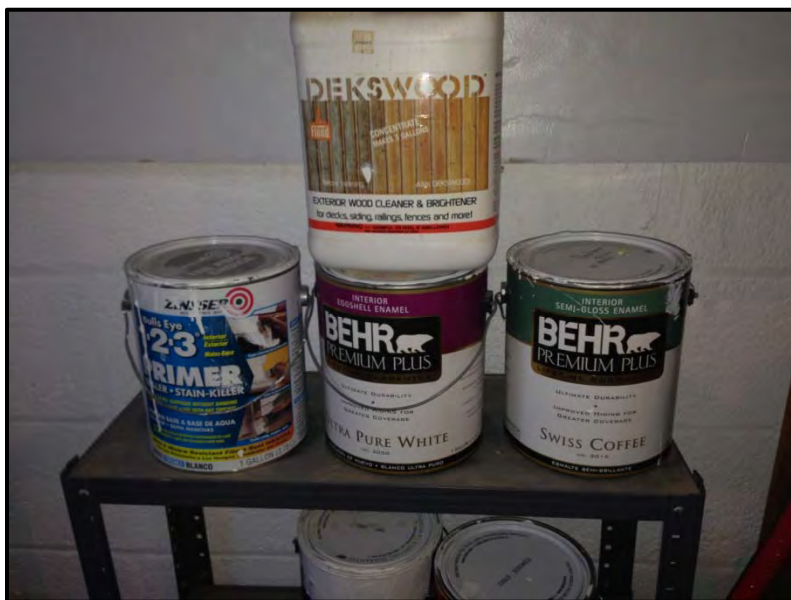
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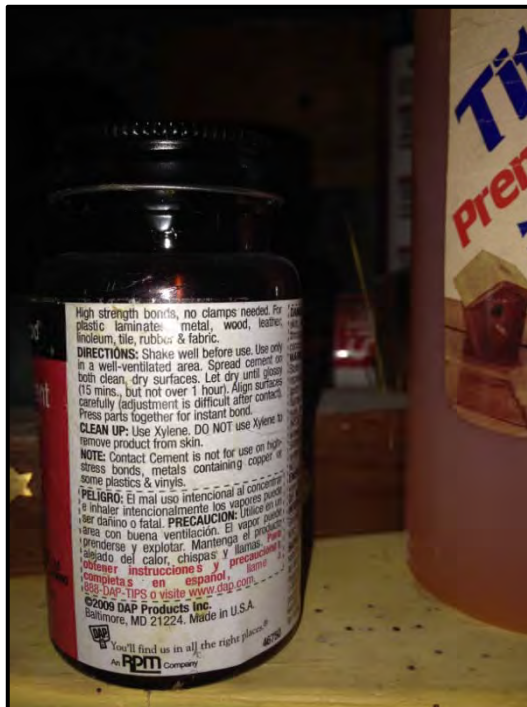
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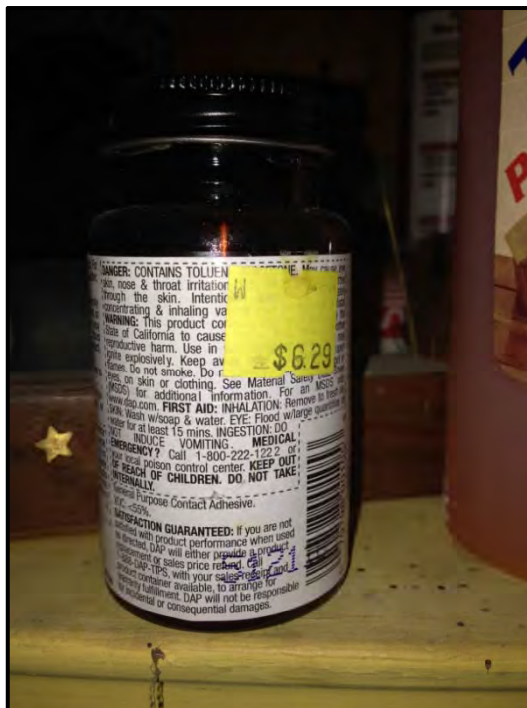
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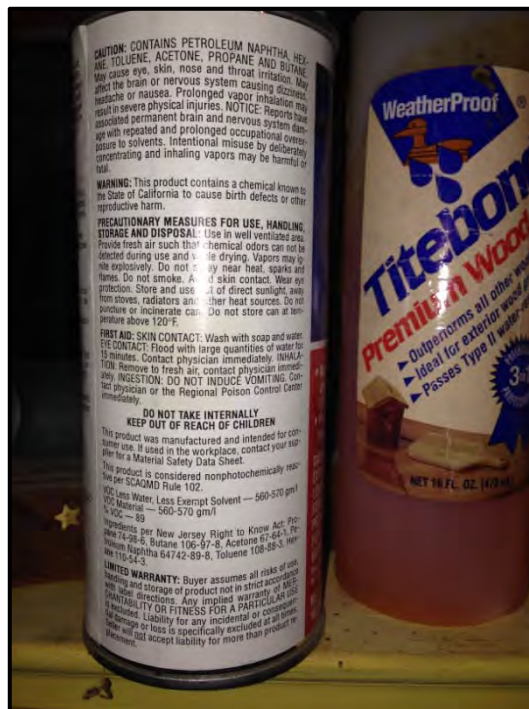
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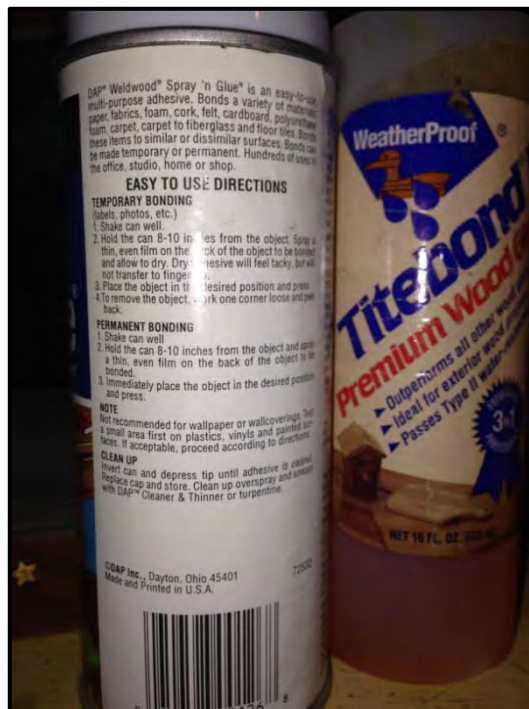
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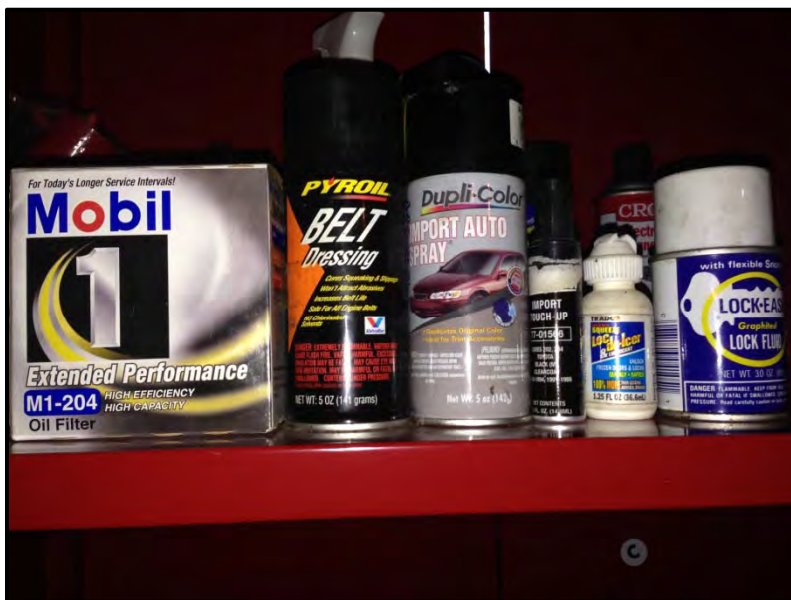
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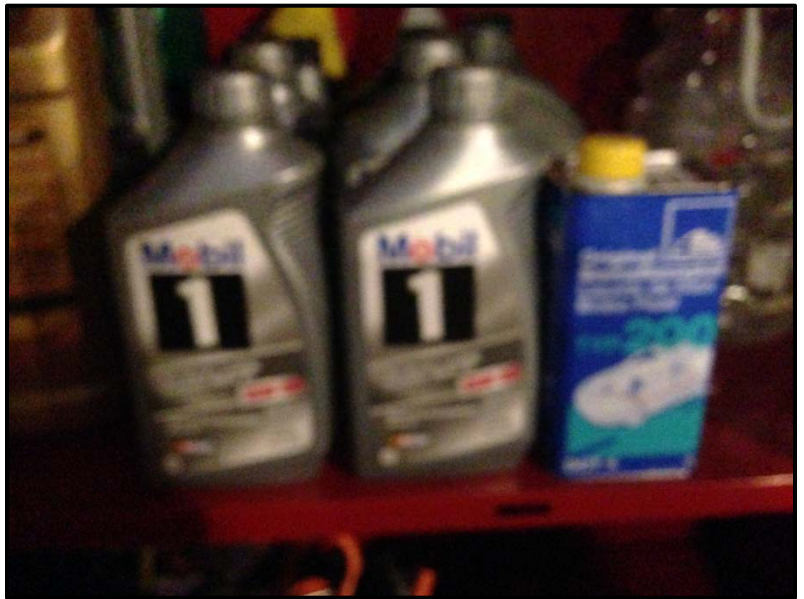
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Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

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Date: March 6, 2014

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Site: Ithaca South Hill

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Ithaca, New York

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Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

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Ithaca, New York

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Ithaca, New York

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Ithaca, New York

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Site: Ithaca South Hill

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Ithaca, New York

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Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

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Date: March 6, 2014

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Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

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Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

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Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 63
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 63
Ithaca, New York

Direction: N/A

Date: March 6, 2014

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Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

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Date: March 6, 2014

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Site: Ithaca South Hill

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Ithaca, New York

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Site: Ithaca South Hill

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Ithaca, New York

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Date: March 6, 2014

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Date: March 6, 2014

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Ithaca, New York

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Ithaca, New York

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Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



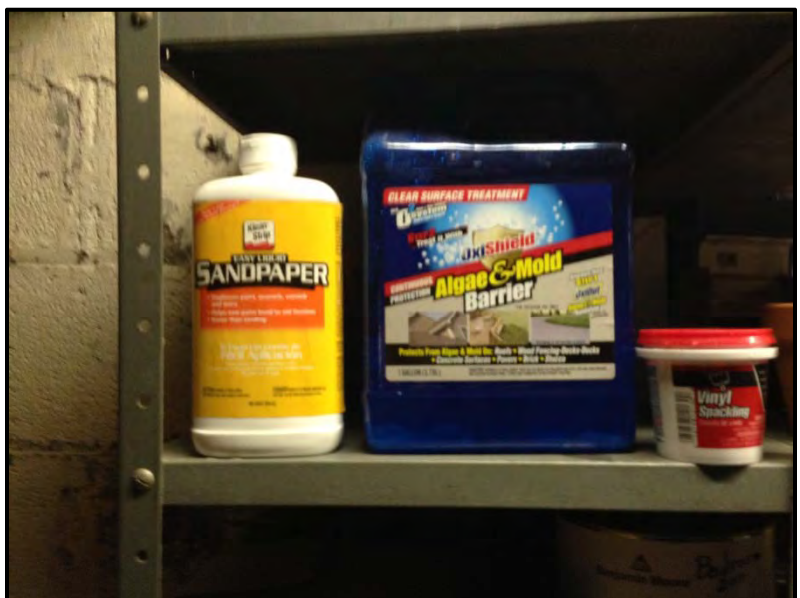
Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

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Site: Ithaca South Hill

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Ithaca, New York

Direction: N/A

Date: March 6, 2014

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Date: March 6, 2014

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Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

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Date: March 6, 2014

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Site: Ithaca South Hill

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Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 62
Ithaca, New York

Direction: N/A

Date: March 6, 2014

Subject: Product Inventory



Site: Ithaca South Hill

Location: Structure 65
Ithaca, New York

Direction: Facing West

Date: March 6, 2014

Subject: Structure 65 Basement

