

Soil Vapor Intrusion Investigation Report

**Former Melrose Avenue Dry Cleaner
753 Melrose Avenue
Bronx, New York 10451
Site Number: 203009
Call-Out ID: 127271**

Report Date:

July 14, 2017

Prepared For:

**Mr. David K. Harrington, P.E.
Senior Environmental Engineer
Remedial Bureau B
Division of Environmental Remediation
NYS Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7016**

Prepared By:

**EnviroTrac Ltd.
5 Old Dock Road
Yaphank, New York 11980
(631) 924-3001**



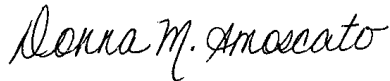
The following personnel have prepared and/or reviewed this report for accuracy, content and quality of presentation:

FORMER MELROSE AVENUE DRY CLEANER

**753 Melrose Avenue
Bronx, New York 10451**



Jeffrey A. Bohlen
Senior Project Manager/Hydrogeologist



Donna Amoscato
Senior Scientist

July 14, 2017

Date

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1.0 Introduction

EnviroTrac Ltd. (EnviroTrac) was retained by New York State Department of Environmental Conservation (NYSDEC) under the Contract No. C100605, Call-Out ID 127271 (a continuation of work originally included under Contract No. C100902, Call-Out 122970) to conduct a Soil Vapor Intrusion Investigation (SVI) as well as complete physical improvements to the Former Melrose Avenue Dry Cleaner located at 753 Melrose Avenue, Bronx, New York, (Site No.: 203009) herein referred to as the Site and its immediate vicinity. A United States Geological Survey (USGS) topographic map is included as **Figure 1** and an aerial photograph is presented as **Figure 2**. This investigation was conducted pursuant to the NYSDEC Standby Contractor Work Authorization (Call Out) Form received by EnviroTrac on November 25, 2016, and subsequent amendments, which is included in **Appendix A**.

2.0 Site Background

During a prior investigation of a petroleum underground storage tank at a fire station on the corner of Melrose Avenue and E. 155th Street, chlorinated solvents were encountered in the groundwater. After an investigation of the surrounding area, it had been determined that the chlorinated solvents originated from the typical operations of the Former Melrose Avenue Dry Cleaner which was formerly located at 753 Melrose Avenue. The building operated as a dry cleaning facility until approximately forty years ago and has since been demolished. The lot remains vacant, undeveloped land.

Multiple monitoring wells had been installed in previous years, both on this Site and on the surrounding streets, which included E. 157th Street, E. 156th Street and E. 155th Street in-between Courtland Avenue to the west and Elton Avenue to the east.

An investigation was performed by EnviroTrac in 2014 and was intended to determine the impacts of the chlorinated solvents in the area. According to the NYSDEC, the last sampling event prior to 2014 at the site occurred in 2007.

EnviroTrac completed an initial Soil Vapor Intrusion (SVI) sampling event in February 2016 at various locations throughout the Site. The locations identified for sampling (including contact information) was provided by the NYSDEC. A Subsurface Investigation Report summarizing the results of this SVI sampling event was completed in April 2016.

EnviroTrac completed an additional Soil Vapor Intrusion (SVI) sampling event during the 2017 heating season at various locations throughout the Site area. The sampling locations were identified by the NYSDEC and New York Department of Health (NYDOH). The results of this sampling event are summarized herein this report.

In addition to the SVI sampling, EnviroTrac removed the curbing on Melrose Avenue and was to install a vehicle-sized gate in the existing Site fence at the driveway to facilitate Site entry at 753 Melrose Avenue. EnviroTrac also installed a ramp into the Site capable of supporting heavy equipment and removed any obstructions (boulder, concrete, trees, etc.) from the Site. The work also included re-grading the Site with recycled concrete aggregate (RCA) and bio-mesh as needed and constructing a 10 ft x 20 ft concrete pad at the site. In order to complete this work, all necessary Department of Transportation (DOT) and Department of Buildings (DOB) permits were obtained. A summary of this work is presented in this report.

A Site Plan with soil vapor point locations and surrounding area is presented as **Figure 3**. Sampling results are provided as **Figure 4** and photographic documentation of the investigation and improvement work is provided in **Appendix B**.

3.0 Soil Vapor Intrusion Sampling

Access was granted to 747, 737 and 720 Melrose Avenue by the current property owners on March 9-10, 2017. A mixed use building of residential and private business is located at 747 Melrose Avenue. The Bronx Housing Authority Police is located at 737 Melrose Avenue. FDNY Engine 71, Ladder 55, Division 6 is located at 720 Melrose Avenue. A site map of the building locations is provided as **Figure 3**.

A total of three (3) sub-slab vapor points (one at each of the building locations) were installed on March 9, 2017. An ambient (indoor air) sample was also collected from each of the three buildings. One (1) outdoor ambient air sample was collected outside of the building located at 720 Melrose Avenue. Prior to sample collection, a chemical inventory of each location and an interview with the owner was conducted to document any potential analytical interferences. The interviews and chemical inventory are provided as **Appendix C**.

A hammer drill was utilized to drill a quarter-inch hole into the floor slab at each of the sub-slab vapor point sampling locations. Quarter-inch polyethylene tubing was then installed in the hole and sealed with modeling clay to prevent infiltration of ambient air into the sample. Sub-slab vapor point locations are depicted on **Figure 3**.

Sub-slab vapor sampling was conducted by connecting the polyethylene tubing at grade, to a six (6) liter Summa Canister supplied by Test America Laboratories of Knoxville, Tennessee (TALKNOX). The canisters were equipped with twenty-four (24) hour flow regulators. A helium tracer gas was utilized prior to the sampling of the sub-slab vapor points. The tracer gas was used to verify that the infiltration of ambient air was not occurring during sample collection. A two (2) quart enclosure was placed over the soil vapor points and the sample tubing was placed through a drilled hole at the top of the enclosure and sealed with modeling clay. The enclosure was then sealed at the ground surface with a polyurethane foam gasket. A tank containing Ultra High Purity (UHP) helium (99.999%) was connected to a side port of the enclosure and helium allowed to fill the enclosure.

Following the application of the tracer gas, approximately one (1) to three (3) volumes were purged from the soil vapor sampling point using a Gillian GilAir-3 air sample pump. A Dielectric MGD-2002 helium detector was used to check for the presence of the tracer gas in the purged soil vapor point; if less than 10% of the tracer gas was detected, the sealed point was considered sufficient and a sample was collected. Following the collection of the sub-slab vapor sample, the helium detector was reconnected to the

tubing to check for the presence of the tracer gas in the soil vapor; if less than 10% of the tracer gas was detected, the sample was acceptable for analysis. No elevated concentrations of helium were detected prior to, or following, the sample collection.

3.1 Soil Vapor Intrusion Analytical Results

A total of seven (7) Summa Canisters and flow regulators were supplied by Test America. Two (2) sub-slab vapor samples, three (3) ambient indoor air samples, one (1) duplicate and one (1) ambient air sample were collected on March 9-10, 2017. The air samples were submitted to Test America of Knoxville, TN for analysis of VOCs via EPA Method TO-15. A chain of custody was completed to document sample possession. A summary of the VOC detections are presented as Table 1 and are shown on Figure 3. The laboratory reports are provided as **Appendix D**.

Based on the analytical results, several VOCs were detected in all of the air samples collected on March 9-10, 2017 at the Site. The highest notable detection was of Tetrachloroethene [49,000 micrograms per cubic meter (ug/m³)] at the Sub Slab #2 sampling location at 737 Melrose Avenue. It was the only VOC present in the sub-slab sample from this location. Other notable detections included Ethanol which was present in the Ambient Indoor #2 sample at the same location (830 ug/m³). Ethanol was also present in Ambient Indoor #3 at 720 Melrose Avenue (1,000 ug/m³). There was the presence of several other VOCs in the remaining soil vapor point samples that were collected, however, they appeared to be low level detections under 100 ug/m³.

A Data Usability Summary Report (DUSR) for the air analysis was conducted by Environmental Data Services, Inc. of Williamsburg, Virginia using guidance from the US EPA Region 2 validation Standard Operating Procedures, the US EPA National Functional Guidelines for Data Review, as well as professional judgment. According to the DUSR, no results were rejected. Any additional qualifications of the results from the validation have been incorporated to the summary data table which is summarized in **Table 1** and depicted on **Figure 4**. A copy of the DUSR is provided in **Appendix E**.

4.0 Site Maintenance and Construction

In addition to the SVI sampling, and under the direction of the NYSDEC, EnviroTrac mobilized to the Site on May 1, 2017 to complete site maintenance and construction on the property located at 753 Melrose Avenue to allow for Site access. EnviroTrac removed the curbing on Melrose Avenue and replaced nine (9) sidewalk flags and moved the vehicle sized fence. EnviroTrac installed a ramp into the site capable of supporting heavy equipment and also remove any obstructions (boulder, concrete, trees, etc.) from the Site. Additionally, the site was re-graded with recycled concrete aggregate and a 10 ft x 20 ft concrete pad was constructed inside of the Site.

EnviroTrac was to install a gate facilitating the entrance into and out of the Site, however, prior to mobilizing to complete the gate installation, the property owner had already had a gate and lock installed. The gate location and size left limited space between an adjacent tree box and the gate door. Therefore, NYSDEC requested that it be moved approximately 5 feet south of its original position so that there would be no interference with any of the adjacent tree boxes when opened and did not obstruct any truck traffic entering and exiting the Site.

On May 1, 2017, the gate reinstallation was completed and equipment was mobilized to the Site the following day to complete additional construction work. Clean fill material was delivered to the Site on May 2 and 3, 2017, and re-grading of the Site began. The sidewalk flags beneath the entrance area to the Site was severely undermined by rodents causing several of the concrete sidewalk flags to crack, requiring replacement. Prior to concrete sidewalk flag replacement, the construction of a ramp, and the curb cut being installed, EnviroTrac obtained sidewalk construction permits from the NYCDOT and NYSDOB. The concrete ramp and replaced sidewalk flags were reinforced to prevent cracking in the future.

A 10 ft by 20 ft concrete pad was constructed as per NYSDEC instruction, and any concrete waste generated from the removal and replacement of 9 sidewalk flags was placed in a 10 yard roll-off dumpster for proper disposal.

Site construction and de-mobilization was completed on May 19, 2017. The Site gate was double locked and a set of keys were given to the NYSDEC case manager for future Site access. Photographic documentation of the sidewalk restoration is provided in **Appendix B**.

5.0 Summary

A total of seven (2) air samples (2 sub-slab, 3 ambient indoor, 1 duplicate and 1 outdoor ambient air) were collected from pre-determined locations in the vicinity of the Site located at 753 Melrose Avenue on March 9 and 10, 2017. The three building locations were 747 Melrose Avenue, 737 Melrose Avenue and 720 Melrose Avenue. The highest notable detection was of Tetrachloroethene [49,000 micrograms per cubic meter (ug/m³)] at the Sub Slab #2 sampling location at 737 Melrose Avenue.

Additionally, Site construction, including the removal and reinstallation of a site access gate, curb cut, sidewalk flag replacement and the construction of a ramp into the site, re-grading of the site, removal of vegetation and debris, and the construction of a 10 ft by 20 ft concrete pad was completed between May 1 through May 19, 2017.

TABLES

Table 1

Summary of Air Sampling Analytical Results for Detected VOCs

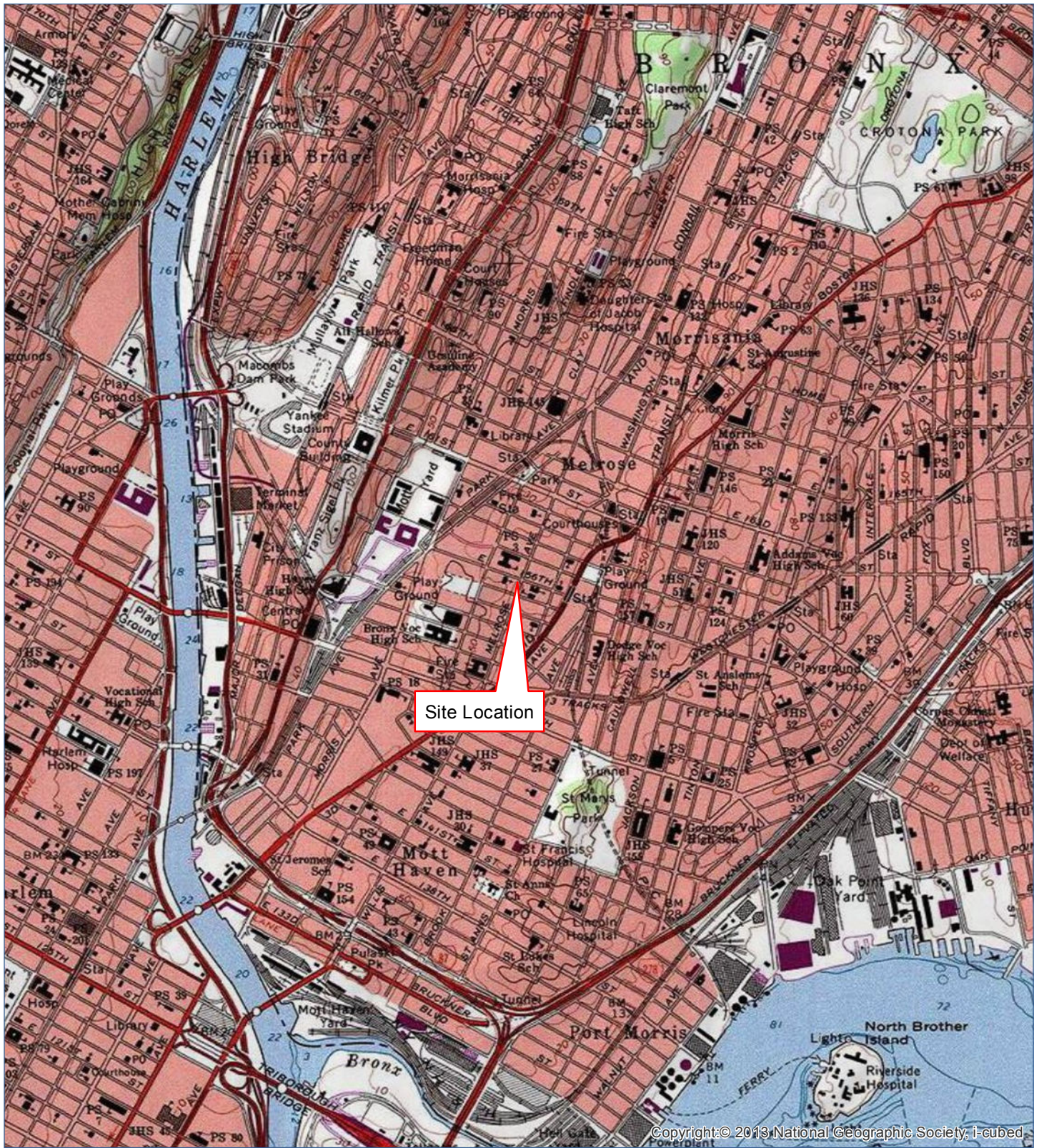
Former Melrose Avenue Dry Cleaners
Bronx, New York
NYSDEC # 203009

Sample ID	SUB SLAB #1	SUB SLAB #4 (Duplicate of Sub-slab #1)	AMBIENT #1	SUB SLAB #2	AMBIENT #2	AMBIENT #3
Matrix	Air	Air	Air	Air	Air	Air
Date Sampled	3/11/2017	42805	3/11/2017	3/11/2017	3/11/2017	3/11/2017
Analytical Parameter	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	ND	ND	ND
Ethanol	7.5	6.3	29	ND	830	1,100
Ethylbenzene	3.9	3.9	0.38	ND	2.9	2.1
Trichlorofluoromethane	1.2	1.4	1.3	ND	1.3	1.2
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND
Hexane	1.2	0.93	ND	ND	ND	4.4
2,2,4-Trimethylpentane	0.96	1.1	ND	ND	ND	3.4
tert-Butyl alcohol	1	1.5	ND	ND	ND	ND
Methylene chloride	0.91	0.9	1.6	ND	1	1
Benzene	0.48	0.91	0.53	ND	1	2
Benzyl chloride	ND	ND	ND	ND	ND	ND
Styrene	0.51	0.35	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethene	55	57	20	49,000	17	ND
Toluene	12	12	1.9	ND	2	8.1
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	1.5	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10	9.7	2	ND	4.1	7.3
1,3,5-Trimethylbenzene	2.5	2.6	0.46	ND	1.2	1.9
Vinyl chloride	ND	ND	ND	ND	ND	ND
o-Xylene	7	6.8	0.5	ND	3.7	3.3
Methyl tert-butyl ether	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND
m-Xylene & p-Xylene	19	18	1.4	ND	7.3	8.3
Bromodichloromethane	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	31	23	2.2	ND	1.1	1.6
4-Methyl-2-pentanone (MIBK)	1.5	120	1.4	ND	ND	3.8
Bromoform	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.36	0.43	0.43	ND	0.43	0.41
Chlorobenzene	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
Chloroethane	0.53	ND	ND	ND	ND	ND
Chloroform	ND	ND	2.1	ND	3.4	0.6
Chloromethane	1	ND	1.2	ND	1.2	1.2
Cyclohexane	ND	ND	ND	ND	ND	1.8
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.1	0.55	0.58	ND	ND	ND
Dichlorodifluoromethane	2.3	2.6	2.3	ND	2.3	4.8
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND

Notes:

1. Concentration Units = ug/m3.
2. Laboratory analysis via EPA Method TO-15.
3. ND = Not detected above the method detection limit of the laboratory.

FIGURES



Site Location

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ROAD CLASSIFICATION			
Interstate Route	State Route	US Route	Local Road
Ramp	4WD		
Interstate Route	US Route	State Route	

TOPOGRAPHIC MAP

DRAFTED BY:

AGS

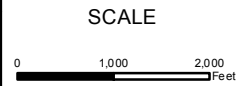
CHECKED BY:

REVIEWED BY:



5 OLD DOCK ROAD, YAPHANK, NY 11980

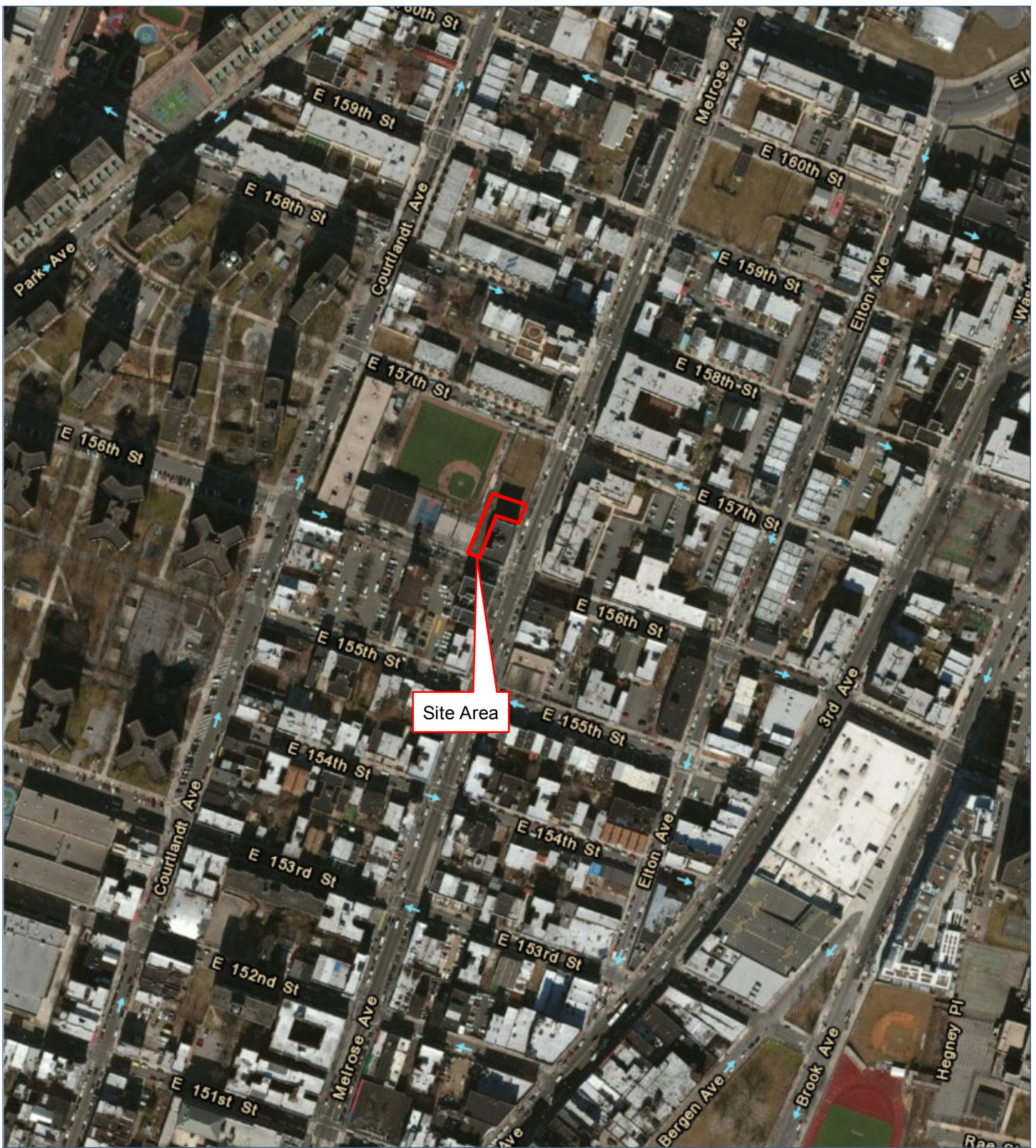
FORMER MELROSE DRY CLEANER
MELROSE AVE & EAST 156TH ST
BRONX, NY 10451



DATE
12/18/2014

FIGURE
1

- NOTES:
- ESTIMATED SITE ELEVATION IS 31' MSL.
 - ORIGINAL DRAWING FROM USGS, CENTRAL PARK, NY QUADRANGLE, NEW YORK 7.5-MINUTE SERIES, 1979. REVISED 2013 BY NATIONAL GEOGRAPHIC SOCIETY.



Legend

 Site Area

- NOTES:**
1. ESTIMATED SITE ELEVATION IS 31' MSL.
 2. AERIAL IMAGERY FROM ESRI, WORLD IMAGERY MAP SERVICE, 2011.

AERIAL PHOTOGRAPH

DRAFTED BY:

AGS

CHECKED BY:

REVIEWED BY:

FORMER MELROSE DRY CLEANER
MELROSE AVE & EAST 156TH ST
BRONX, NY 10451





5 OLD DOCK ROAD, YAPHANK, NY 11980

SCALE

0 150 300 Feet

DATE

1/12/2015

FIGURE

2

SITE PLAN WITH SAMPLE LOCATIONS



Figure 3
Site Plan with
Sample Locations

Former Melrose Avenue
 Dry Cleaners - NYSDEC
 753 Melrose Avenue
 Bronx, NY 10451

0 100ft.



Environmental Services
 5 Old Dock Road
 Yaphank, NY 11980
 P: 631-924-3001 F: 631-924-5001

Legend:

- Ambient Air Sample Location
- Subslab Air Sample Location
- Outdoor Ambient Air Sample Location



SUMMARY OF AIR SAMPLING ANALYTICAL RESULTS FOR DETECTED VOCs



Figure 4
Summary of Air Sampling Analytical Results for Detected VOCs

Former Melrose Avenue
 Dry Cleaners - NYSDEC
 753 Melrose Avenue
 Bronx, NY 10451

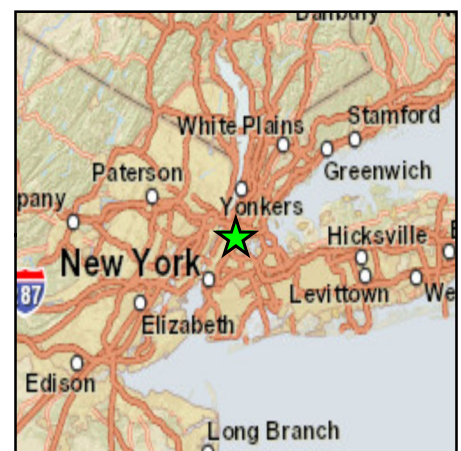
0 100ft.



EnviroTrac
 Environmental Services

5 Old Dock Road
 Yaphank, NY 11980

P: 631-924-3001 F: 631-924-5001



APPENDIX A

NYSDEC Standby Contractor Work Authorization Form



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

STANDBY CONTRACTOR AUTHORIZATION FORM
For Response & Containment, Investigation & Remediation
and Laboratory Services Contractors

General Information

Region: 2 **Site No.:** 203009 **CallOut ID:** 127271

CallOut 11/25/2016

Contract No.: C100605 **PIN (if applicable):**

Contractor Selected: ENVIROTRAC LTD (REM)

Site Information - Name: Former Melrose Avenue Dry Cleaner **County:** Bronx

Address: 753 Melrose Avenue, Bronx

SCOPE OF WORK (Provide brief detailed description):

November 25, 2016:

This is a continuation of work originally included under Contract No. C100902, Call-Out 122970. Two work elements are to be completed under this call-out - physical improvements to the site and its immediate vicinity (*), and SVI investigation (**).

- * In order to facilitate site entry, the following tasks are necessary:
- remove curbing on Melrose Avenue and install a driveway in the sidewalk
 - install a vehicle-sized gate in the existing site fence at the driveway
 - address NYC Parks Department issues with tree box adjacent to the site
 - install a ramp into the site capable of supporting heavy equipment
 - remove obstructions (boulders, concrete, trees, etc.) from the site
 - remove heavy vegetation from the site
 - re-grade the site with recycled concrete and bio-mesh as needed
 - construct a concrete pad (10'x20') inside the site
 - address all permitting requirements for work noted above

** Soil vapor intrusion (SVI) sampling events will be conducted during the 2016-2017 heating season at various locations throughout the site. The locations identified for sampling (including all contact information) will be provided by the Department. The following services are needed:

- scheduling of all appointments with site owner/owner's representative
- installation and removal/repair of all SVI sampling points
- collection of all required SVI sampling data
- samples to be analyzed for VOCs via Method TO-15
- work conducted in accordance with 2006 DOH SVI Guidance
- completion of building questionnaire (including product inventory)
- prepare map showing relevant details of area/property sampled
- validation of all sampling data
- transmission of validated data to NYSDOH once received
- report preparation (includes text, data tables, site map, questionnaire)

Previous approved budget: \$120,000 (under Call-Out 122970)

Previous spent budget: \$ 58,840.39 (under Call-Out 122970)

Maximum new budget under new call-out: \$61,159.61

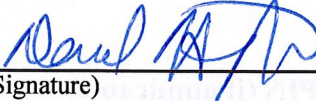
Maximum new budget under new call-out: \$61,159.61

ESTIMATED BUDGET: \$ 61,159.61

This serves as authorization to incur costs up to the budgeted amount indicated, to perform the scope of work outlined above in connection with the above-referenced spill/site call out number. The contractor is responsible for immediately notifying the DER project manager if it becomes apparent that the scope of work can not be completed within the budget and/or the scope of work should be amended. The contractor should not incur costs that exceed the budget or perform activities outside the scope of work without the verbal or written approval of the DER project manager. The DER project manager must confirm that approval in writing in an amended Standby Contractor Authorization Form signed by the DER project manager and Rep within two business days.

DER Project Manager Name/Title:

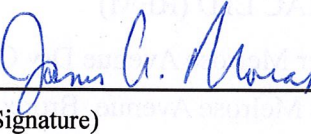
DAVE HARRINGTON, EE2
(Print)


(Signature)

Date: 11/25/16

Authorized DER Representative Name/Title:

James Moras, EE3
(Print)


(Signature)

Date: 11/28/16

APPENDIX B

Photographic Documentation

Photograph Documentation

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Bronx, New York*



Photograph 1: Site gate prior to its removal and re-installation on 5/1/2017.



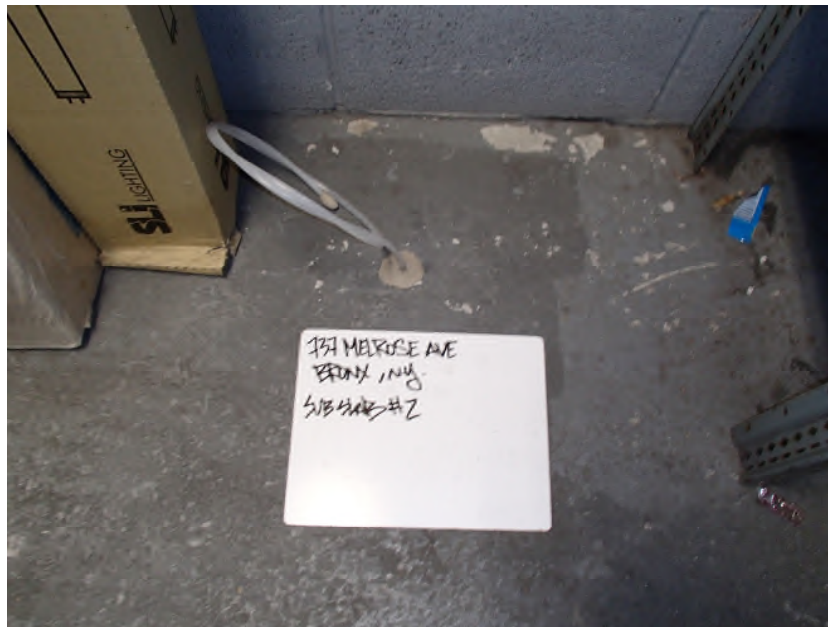
Photograph 2: Street view of 753 Melrose Avenue.

Photograph Documentation

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Photograph 3: Site conditions at 753 Melrose Avenue prior to construction work.



Photograph 4: Sub-slab vapor point installation at 737 Melrose Avenue.

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Photograph 5: Chemical inventory for 737 Melrose Avenue.



Photograph 6: Chemical inventory for 737 Melrose Avenue.

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Photograph 7: Chemical inventory for 737 Melrose Avenue.



Photograph 8: Sub-slab #3 installation location (720 Melrose Avenue).

Photograph Documentation

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Bronx, New York*



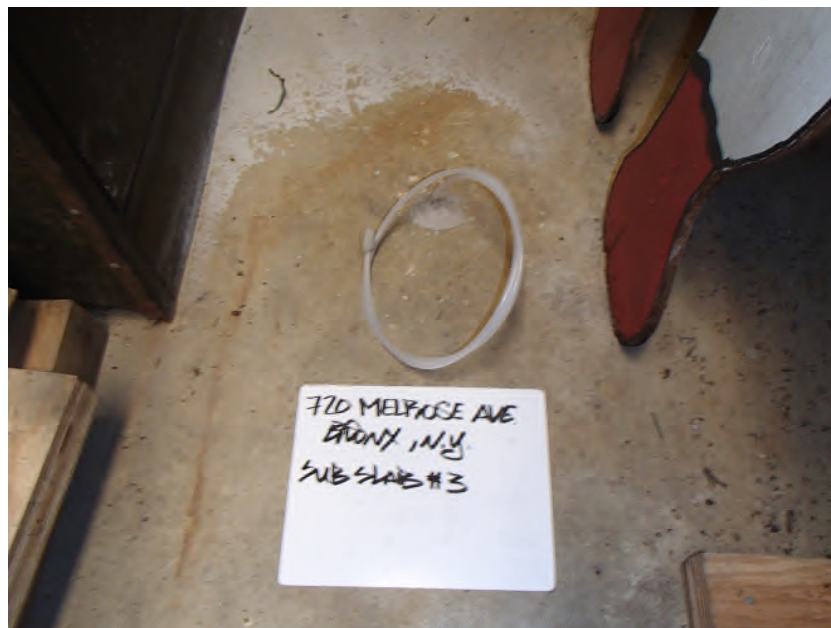
Photograph 9: Chemical inventory for 720 Melrose Avenue.



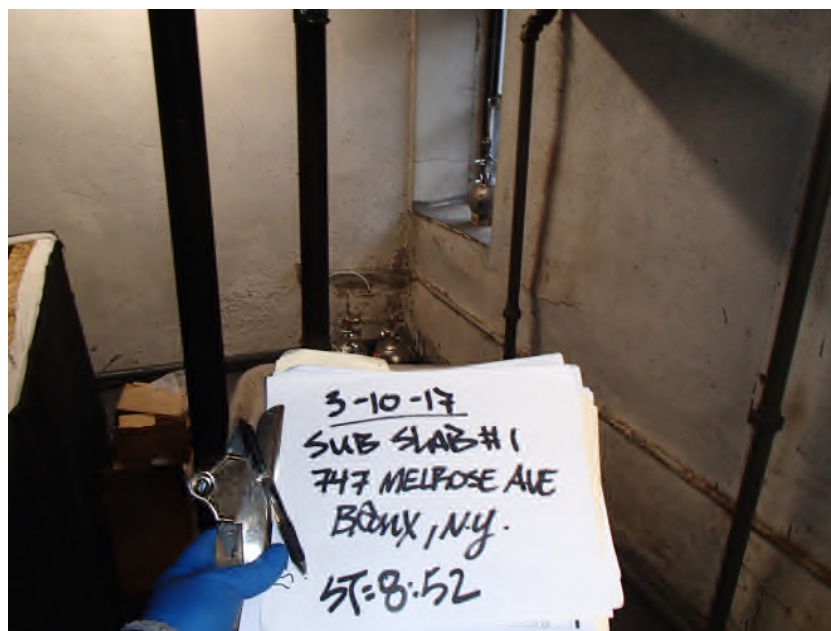
Photograph 10: Chemical inventory for 720 Melrose Avenue.

Photograph Documentation

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Bronx, New York



Photograph 11: Sub-slab #3 installed vapor point.



Photograph 12: Sub-slab #1/ Duplicate and Ambient indoor #1.

Photograph Documentation

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Bronx, New York*



Photograph 13: Sub-slab vapor point sample at 737 Melrose Avenue.



Photograph 14: Ambient indoor air #2 location at 737 Melrose Avenue.

Photograph Documentation

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Bronx, New York*



Photograph 15: Outdoor Ambient Air sample location.



Photograph 16: Fence removal and re-installation at 753 Melrose Avenue.

Photograph Documentation

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Bronx, New York*



Photograph 17: Fence removal and re-installation at 753 Melrose Avenue.



Photograph 18: Curb-cut preparation and installation at 753 Melrose Avenue.

Photograph Documentation

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Bronx, New York*



Photograph 19: Completion of sidewalk curb-cut at 753 Melrose Avenue.



Photograph 20: Sidewalk flag replacement at 753 Melrose Avenue.

Photograph Documentation

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Bronx, New York*



Photograph 21: Sidewalk flag replacement at 753 Melrose Avenue.



Photograph 22: Sidewalk flag replacement at 753 Melrose Avenue.

Photograph Documentation

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Photograph 23: Site grading at 753 Melrose Avenue.



Photograph 24: Construction of 10 x 20 concrete pad at 753 Melrose Avenue.

Photograph Documentation

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Bronx, New York*



Photograph 25: Concrete pad completion at 753 Melrose Avenue.



Photograph 26: Completed site grading.

APPENDIX C

Chemical Inventories and Owner Questionnaires

Summa Canister Sampling Field Data Sheet

Site: Former Melrose Dry Cleaners

Samplers: VAC / MM

Date: 3-10-17

Sample #	SUB SLAB #2	SUB SLAB #2	AMBIENT #2		
	<u>AMBIENT #2</u>				
Location	<u>Basement</u>	<u>Basement</u>			
Summa Canister ID	<u>09592</u>	<u>10092</u>			
Flow Controller ID	<u>10855</u>	<u>10240</u>			
Additional Tubing Added	NO/ <input checked="" type="checkbox"/> YES - How much <u>23'</u>	NO/ <input checked="" type="checkbox"/> YES - How much	NO/ <input type="checkbox"/> YES - How much	NO/ <input type="checkbox"/> YES - How much	NO/ <input type="checkbox"/> YES - How much
Purge Time (Start)	<u>9:22</u>	<u>N/A</u>			
Purge Time (Stop)	<u>9:24</u>				
Total Purge Time (min)	<u>2 min.</u>				
Purge Volume					
Initial Tracer Gas Results	<u>97% / ϕ</u>				
CH4 (ppm)					
O2 (%)					
H2S (ppm)					
CO2 (ppm)					
Pressure Gauge - before sampling	<u>28</u>	<u>30</u>			
Sample Time (Start)	<u>9:28</u>	<u>9:29</u>			
Sample Time (Stop)	<u>9:12 3/10/13</u>	<u>9:14 3/11</u>			
Total Sample Time (min)					
Pressure Gauge - after sampling	<u>5</u>	<u>6</u>			
Sample Volume					
Canister Pressure Went To Ambient Pressure?	YES / NO	YES / NO	YES / NO	YES / NO	YES / NO
Final Tracer Gas Results					
Weather 24 hours before and during sampling	<u>3-9-17 = initial install of point 60% dry 3-10-17 = 3 ° / snow</u>				
General Comments:	<u>737 Melrose Ave. BROOKLYN, N.Y.</u>				

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

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

Preparer's Name MIKE ALLEGRO Date/Time Prepared 3/7/17

Preparer's Affiliation sanpiter Phone No. (631) 300 6869

Purpose of Investigation sub sidbe

I. OCCUPANT:

Interviewed: Y N

Last Name: Garcia First Name: carlos

Address: cosmopolitan

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant)

Interviewed: Y N

Last Name: ~~ALLEGRO~~ NYPD First Name: _____

Address: 737 meadow

County: BRONX

Home Phone: _____ Office Phone: (718) 292-6161

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: POLICE PRECINCT

If the property is residential, type? (Circle appropriate response)

- | | | |
|--------------|-----------------|------------------------|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other: <u>PRECINCT</u> |

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) POLICE PRECINCT

Does it include residences (i.e., multi-use)? Y/N If yes, how many? _____

Other characteristics:

Number of floors 4

Building age ~~40~~ 27

Is the building insulated? Y N

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

GOOD

Airflow near source

POOR

Outdoor air infiltration

NO

Infiltration into air ducts

YES

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with PAINT
- e. Concrete floor: unsealed sealed sealed with PAINT
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with PAINT
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 15 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

FLOOR DRAIN'S

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

- Hot air circulation Heat pump Hot water baseboard
- Space Heaters Stream radiation Radiant floor
- Electric baseboard Wood stove Outdoor wood boiler Other _____

The primary type of fuel used is:

- Natural Gas Fuel Oil Kerosene
- Electric Propane Solar
- Wood Coal

Domestic hot water tank fueled by: Fuel O.L

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Air return duct IN Basement, unit IS tight
and insulated

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement storage/office's, gym
1st Floor office's / cell's
2nd Floor office's
3rd Floor locker room
4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y N
- b. Does the garage have a separate heating unit? Y / N NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify _____
- d. Has the building ever had a fire? Y When? _____
- e. Is a kerosene or unvented gas space heater present? Y / Where? _____
- f. Is there a workshop or hobby/craft area? Y / N Where & Type? _____
- g. Is there smoking in the building? Y How frequently? _____
- h. Have cleaning products been used recently? Y / N When & Type? _____
- i. Have cosmetic products been used recently? Y When & Type? _____

3 wks

j. Has painting/staining been done in the last 6 months? Y N Where & When? Office in Basement

k. Is there new carpet, drapes or other textiles? Y N Where & When? _____

l. Have air fresheners been used recently? Y N When & Type? _____

m. Is there a kitchen exhaust fan? Y N If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y N If yes, where vented? outside 3rd floor

o. Is there a clothes dryer? Y N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y N When & Type? _____

Are there odors in the building? Y N
If yes, please describe: PAINT SMELL

Do any of the building occupants use solvents at work? Y N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? _____ Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

- Yes, use dry-cleaning regularly (weekly) No
- Yes, use dry-cleaning infrequently (monthly or less) Unknown
- Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y N Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

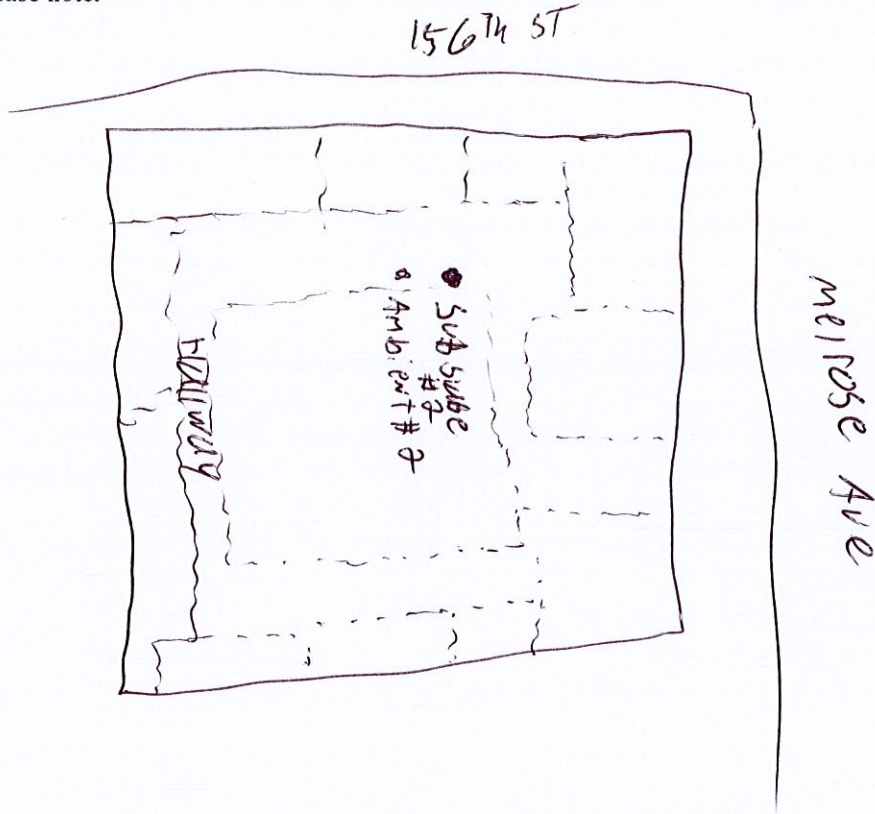
10. RELOCATION INFORMATION (for oil spill residential emergency)

- a. Provide reasons why relocation is recommended: _____
- b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y / N
- d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



First Floor:

12. OUTDOOR PLOT

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

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

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: MWI RBE PID PPM

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y/N
✓ hallway	cleaner degreaser 2	1 GAL	GOOD	water DIMETHENE SURFACTANTS		
✓	HAND SOAP x1	1 GAL	GOOD			
	FLOOR FINISH x4	1 GAL	GOOD			
	ANTI-FREEZE	1 GAL	GOOD			
	DE ICER	1 GAL	GOOD			
	OIL BASED PAINT x10	1 GAL	GOOD			
	FOOT STRIPPER x4	5 GAL	GOOD			
	EMPTY GAS CAN	1 GAL	GOOD			
	OIL BASED PAINT	5 GAL	GOOD			
	Adhesive x3	1 GAL	GOOD	GLUE		

* 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.

Summa Canister Sampling Field Data Sheet

Site: Former Melrose Dry Cleaners

Samplers: MIKE ALLEGRO VICTOR CAROZZI MATT MIRANDA

Date: 3/9/17 / 3/10/17

Sample # Duplicate	SUB SLAB #1 Duplicate	Ambient #1	SUB SLAB #1	SUB SLAB Duplicate	
Location	<u>Basement</u>	<u>Basement</u>	<u>Basement</u>	<u>Basement</u>	
Summa Canister ID	09518	<u>11040 PSD-0</u>	<u>09687 PSD-0</u>	<u>09518</u>	
Flow Controller ID		<u>10352</u>	<u>09746</u>	<u>09553</u>	
Additional Tubing Added	<input checked="" type="radio"/> YES - How much <u>~3'</u>	<input checked="" type="radio"/> YES - How much <u>NO!</u>	<input checked="" type="radio"/> YES - How much <u>NO!</u>	<input checked="" type="radio"/> YES - How much <u>NO!</u>	<input type="radio"/> YES - How much <u>NO!</u>
Purge Time (Start)		8:40	8:40 <u>8:40</u>	8:40 <u>8:40</u>	
Purge Time (Stop)			<u>8:47</u>	<u>8:47</u>	
Total Purge Time (min)					
Purge Volume			<u>2 LITERS</u>		
Initial Tracer Gas Results		<u>∅</u>	<u>97% / ∅</u>	<u>97% / 0</u>	
CH4 (ppm)					
O2 (%)					
H2S (ppm)					
CO2 (ppm)					
Pressure Gauge - before sampling		<u>-30</u>	<u>-30</u>	<u>-30</u>	
Sample Time (Start)		<u>8:53</u>	<u>8:52</u>	<u>8:52</u>	
Sample Time (Stop)		<u>8:44</u>	<u>8:43</u>	<u>8:43</u>	
Total Sample Time (min)					
Pressure Gauge - after sampling		<u>8</u>	<u>9</u>	<u>8</u>	
Sample Volume					
Canister Pressure Went To Ambient Pressure?	YES <input type="radio"/> NO <input checked="" type="radio"/>	YES <input checked="" type="radio"/> NO <input type="radio"/>	YES <input checked="" type="radio"/> NO <input type="radio"/>	YES <input checked="" type="radio"/> NO <input type="radio"/>	YES / NO
Final Tracer Gas Results					
Weather 24 hours before during sampling	<u>3-9-17 = Initial point install 60°/Dry 3-10-17 = 3°/snow</u>				
Other Comments:	<u>747 Melrose Ave Bronx, N.Y.</u>				

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

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

Preparer's Name Mike Alliegro Date/Time Prepared 3/9/17

Preparer's Affiliation Sampler Phone No. (631)300-6889

Purpose of Investigation _____

1. OCCUPANT:

Interviewed: Y N - Super

Last Name: ROMERO First Name: Reinaldo

Address: 747 Melrose Ave

County: BRONX

Home Phone: _____ Office Phone: (718)644-8355

Number of Occupants/persons at this location 23 Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant)

Interviewed: Y N

Last Name: LEMLE/WOLF INC First Name: _____

Address: 747 Melrose Ave / 156th Ave BRONX NY

County: BRONX

Home Phone: _____ Office Phone: (718)884-7676

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
 Industrial

School
 Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

- | | | |
|--------------|------------------------|-------------------|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | <u>Apartment House</u> | Townhouses/Condos |
| Modular | Log Home | Other: _____ |

If multiple units, how many? 23

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 6

Building age Approx 70 years

Is the building insulated? Y / N

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

very little

Outdoor air infiltration

little

Infiltration into air ducts

None

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with PAINT
- e. Concrete floor: unsealed sealed sealed with PAINT
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with PAINT
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y/N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 17 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

drain piping IN OUTDOOR ALLEY

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

- Hot air circulation
- Space Heaters
- Electric baseboard
- Heat pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

- Natural Gas
- Electric
- Wood
- Fuel Oil
- Propane
- Coal
- Kerosene
- Solar

Domestic hot water tank fueled by: NATURAL GAS

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement	Storage / work shop
1 st Floor	Residential APT'S
2 nd Floor	↓
3 rd Floor	
4 th Floor	
6 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y N
- b. Does the garage have a separate heating unit? Y / N / NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / NA
Please specify _____
- d. Has the building ever had a fire? Y / N When? _____
- e. Is a kerosene or unvented gas space heater present? Y / N Where? _____
- f. Is there a workshop or hobby/craft area? Y / N Where & Type? _____
- g. Is there smoking in the building? Y N How frequently? _____
- h. Have cleaning products been used recently? Y / N When & Type? _____
- i. Have cosmetic products been used recently? Y N When & Type? _____

j. Has painting/staining been done in the last 6 months? Y N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y N Where & When? _____

l. Have air fresheners been used recently? Y N When & Type? _____

m. Is there a kitchen exhaust fan? Y N If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y N If yes, where vented? _____

o. Is there a clothes dryer? Y N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y N When & Type? _____

Are there odors in the building? Y N
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

- Yes, use dry-cleaning regularly (weekly)
 - Yes, use dry-cleaning infrequently (monthly or less)
 - Yes, work at a dry-cleaning service
- No
 Unknown

Is there a radon mitigation system for the building/structure? Y N Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

PLEASE MEET DEC Dave Harrington – 518-281-8937 and Jackie Nealon (DOH) at 753 Melrose Ave, Bronx, NY.

PLEASE ARRIVE AT 10:30 AM.

Equipment:

To bring with you: Gil Air Pump, bucket, Helium tank, Gauge for Helium tank, Small Diameter Tubing, Helium Detector, Ferrals and caps for canisters, Summa Cans with Flow controllers, tools, PID, canister sheets, Inventory sheets with questionnaires, hammer drill, clay, camera, white board.

Procedure:

DEC and DOH will let you know where they want sub slabs samples taken. Use the hammer drill to drill into foundation until you get through to dirt under the slab. Run the small diameter tubing down the hole and seal it with clay at grade. Run a helium test for the sub slab location. After the helium test is complete, attach the flow controller to the can and the tubing to the flow controller. Turn on the can and record the negative pressure reading.

DEC and DOH will give you the locations of the basement air sample. Place the canister with attached flow controller in the location to take the sample. Turn on the can and record the negative pressure reading.

DEC and DOH will also give you the ambient air location. Repeat the above step but be sure to leave the can in a covered area so it doesn't vac water (it may snow Friday). Use a candy cane on the ambient canisters.

Important:

Take pictures of every helium test and every canister once hooked up. Use the white board provided to write the sample name, and the site name and date.

ASK DEC what they want each sample called. Fill out the sample TAG attached to the cans before you leave on day 1. **DO NOT FORGET TO DO THIS!**

Call me if you encounter any issues.

On Friday- we will collect the canisters. Record end pressure and time and shut off the can. Make sure to recap the canisters. Do not throw away the nuts and ferrels if possible.

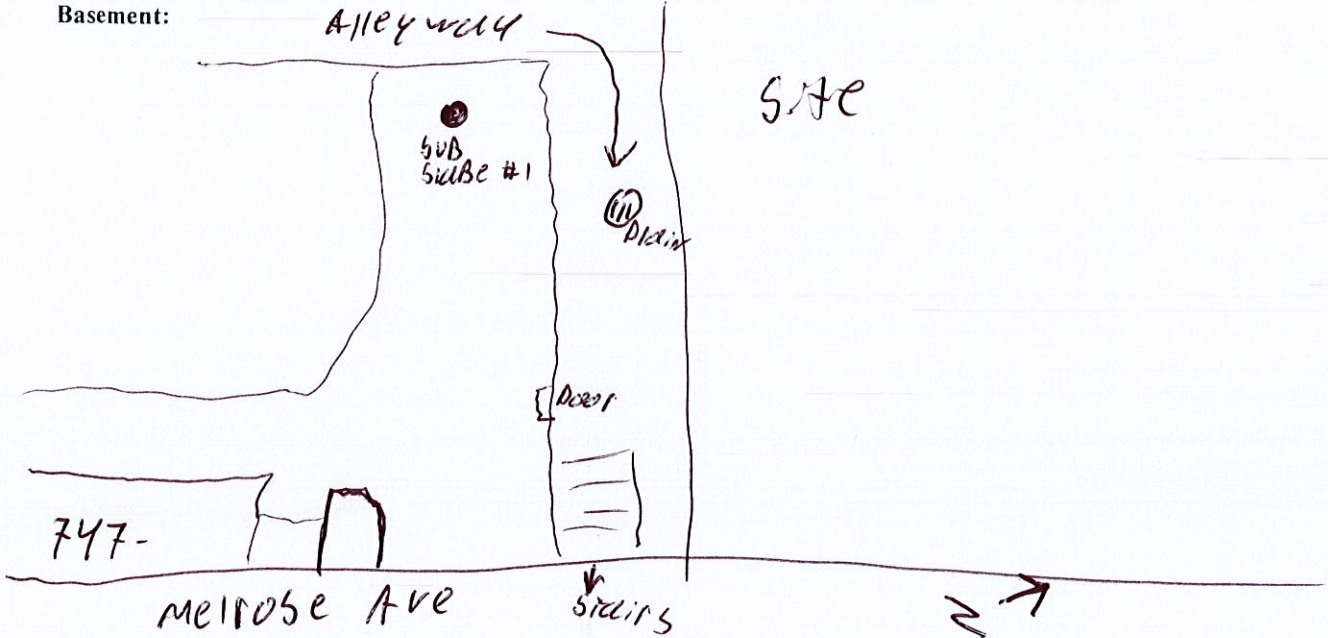
Re-seal the hole which you driller with the concrete provided.

Thanks!

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



First Floor:

12. OUTDOOR PLOT

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

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

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: MINI RAE PID

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** <u>Y/N</u>
Shop	PAINT THINNER	1 GAL	Good	MINERAL SPIRITS	PID/ppm	Y
Shop	Wtex paint	1 GAL	Good			

* 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.

Summa Canister Sampling Field Data Sheet

Site: Former Melrose Dry Cleaners

Samplers: VAC/MM

Date: 3-10-14

Sample #	SUB SLAB #3	AMBIENT #3	OUTDOOR AMBIENT #1		
Location	<u>Basement</u>	<u>LUNCH ROOM / COMMON AREA</u>	<u>OUTSIDE - SOUTH EAST CORNER</u>		
Summa Canister ID		<u>10279</u>	<u>10206</u>		
Flow Controller ID		<u>10624</u>	<u>11489</u>		
Additional Tubing Added	NO/ YES - How much	<u>NO</u> YES - How much	<u>NO</u> YES - How much	NO/ YES - How much	NO/ YES - How much
Purge Time (Start)		<u>N/A</u>	<u>N/A</u>		
Purge Time (Stop)					
Total Purge Time (min)					
Purge Volume					
Initial Tracer Gas Results					
CH4 (ppm)					
O2 (%)					
H2S (ppm)					
CO2 (ppm)					
Pressure Gauge - before sampling		<u>30"</u>	<u>30"</u>		
Sample Time (Start)		<u>10:18</u>	<u>10:15</u>		
Sample Time (Stop)		<u>10:10</u>	<u>10:11</u>		
Total Sample Time (min)		<u>23:45 min</u>	<u>23:50</u>		
Pressure Gauge - after sampling		<u>0</u>	<u>2"</u>		
Purge Volume					
Pressure Went to Ambient Pressure?	YES / NO	<u>YES</u> / NO	YES / NO	YES / NO	YES / NO
Tracer Gas Results		<u>N/A</u>	<u>N/A</u>		

Hours before sampling: 3-9-17-Initial point install w/ dry 3-10-17-5°/snow.

Notes: 720 Melrose Ave. Bronx, N.Y. + sub slab #3 did not make it THROUGH concrete slab
A bag for outdoor ambient in box for CA

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

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

Preparer's Name _____ Date/Time Prepared _____

Preparer's Affiliation _____ Phone No. _____

Purpose of Investigation _____

1. OCCUPANT:

Interviewed: Y/N

Last Name: Kevin First Name: Burke

Address: House Captain

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 12 Age of Occupants _____
per year

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: 720 Melrose Ave

County: Bronx

Home Phone: 718-430-0271 Office Phone: _____
718-430-0271

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: fire house

If the property is residential, type? (Circle appropriate response)

- | | | |
|--------------|-----------------|--------------------------|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other: <u>Fire House</u> |

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Fire House

Does it include residences (i.e., multi-use)? (Y)N If yes, how many? 1

Other characteristics:

Number of floors 3

Building age 30

Is the building insulated? (Y)N

How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

poor

Airflow near source

Outdoor air infiltration

yes garage door's

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawl space slab other particell
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with paint
- e. Concrete floor: unsealed sealed sealed with paint
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with paint
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 20 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)
floor drain's

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

- Hot air circulation
- Space Heaters
- Electric baseboard
- Heat pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

- Natural Gas
- Electric
- Wood
- Fuel Oil
- Propane
- Coal
- Kerosene
- Solar

Domestic hot water tank fueled by: NATURAL GAS

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Four horizontal lines for describing ductwork.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Table with 2 columns: Level, General Use of Each Floor. Rows include Basement (Storage), 1st Floor (Break room/Garage/Office, Kitchen, Bath room), 2nd Floor (Dunk's), 3rd Floor, 4th Floor.

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? (Y) N
b. Does the garage have a separate heating unit? (Y) N / NA
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Y) N / NA Please specify TRUCK'S
d. Has the building ever had a fire? Y / (N) When?
e. Is a kerosene or unvented gas space heater present? Y / (N) Where?
f. Is there a workshop or hobby/craft area? Y / (N) Where & Type?
g. Is there smoking in the building? Y / (N) How frequently?
h. Have cleaning products been used recently? (Y) N When & Type?
i. Have cosmetic products been used recently? Y / (N) When & Type?

j. Has painting/staining been done in the last 6 months? Y N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y N Where & When? _____

l. Have air fresheners been used recently? Y N When & Type? _____

m. Is there a kitchen exhaust fan? Y N If yes, where vented? outside

n. Is there a bathroom exhaust fan? Y N If yes, where vented? outside

o. Is there a clothes dryer? Y N If yes, is it vented outside? Y N

p. Has there been a pesticide application? Y N When & Type? _____

Are there odors in the building? Y N
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? _____ Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y N Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

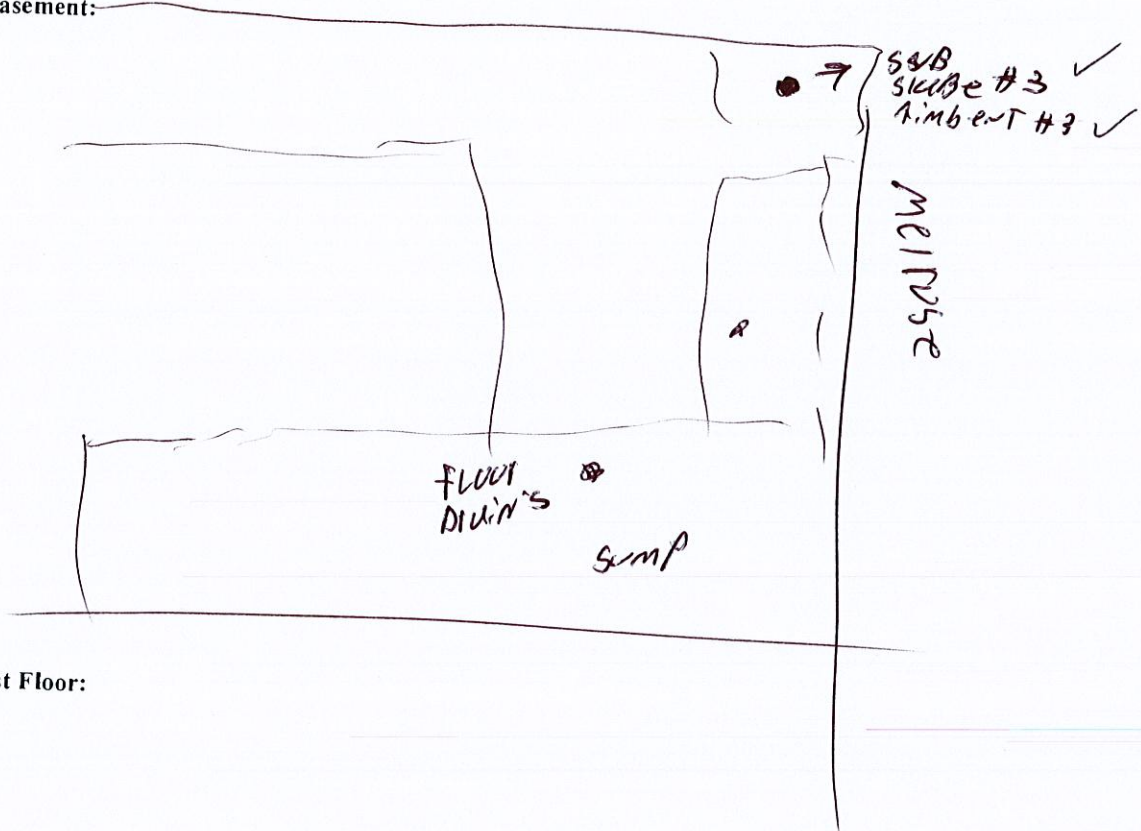
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



First Floor:

OUTDOOR PLOT

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

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

INDOOR AIR QUALITY INVESTIGATION

Instructions for Residents

(To be followed starting at least 24 hours prior to and during the sampling event)

- Do not open windows, fireplace openings or vents.
- Do not keep doors open.
- Do not operate ventilation fans or air conditioners.
- Do not smoke in the house.
- Do not use wood stoves, fireplace or auxiliary heating equipment (e.g., kerosene heaters).
- Do not paint or varnish.
- Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, all-purpose cleaners, floor cleaners).
- Do not use cosmetics, including hair spray, nail polish, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house or attached garage (except for fuel oil).
- Do not operate or store automobiles in an attached garage.
- Do not bring home items that have been dry-cleaned.

APPENDIX D

Analytical Results

ANALYTICAL REPORT

Job Number: 140-7503-1

Job Description: Former Melrose Ave. #203009

Contract Number: C008010

For:

New York State D.E.C.

625 Broadway

12th Floor

Albany, NY 12233-7017

Attention: David Harrington



Approved for release.
Diana L Lange
Project Management Assistant II
3/30/2017 10:34 AM

Designee for
Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
03/30/2017

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.

TestAmerica Laboratories, Inc.

TestAmerica Knoxville 5815 Middlebrook Pike, Knoxville, TN 37921

Tel (865) 291-3000 Fax (865) 584-4315 www.testamericainc.com



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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

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
CFL	Contains Free Liquid
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
140-7503-1

Comments

No additional comments.

Receipt

The samples were received on 3/17/2017 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): SUB SLAB #1 (140-7503-1), AMBIENT #1 (140-7503-2) and SUBSLAB #4 (140-7503-7). The container labels for these samples were left blank; the samples were matched by the canister ID numbers listed on the Chain-of-Custody.

Sample OUTDOOR AMBIENT #1 (140-7503-6) was received without a identifying label. The sample was matched by the canister ID listed on the Chain-of-Custody.

Air - GC/MS VOA

Method(s) TO 15 LL, TO-15: Can Certification Comments:

Due to the large number of analytes in the CCV, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for several analytes to recover outside criteria for this method when analyzing for a full list. The CCV associated with the can cleaning batches had analytes outside control limits. These results have been reported and qualified.

Method(s) TO 15 LL, TO-14A, 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.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUB SLAB #1

Lab Sample ID: 140-7503-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.1		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.51		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	0.19		0.080		ppb v/v	1		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	0.20		0.20		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	10		0.32		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	0.37		0.20		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.15		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.057		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloroethane	0.20		0.080		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.49		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.46		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	4.0		2.0		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	0.89		0.080		ppb v/v	1		TO 15 LL	Total/NA
Hexane	0.33		0.20		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.26		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	4.3		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	1.6		0.080		ppb v/v	1		TO 15 LL	Total/NA
Styrene	0.12		0.080		ppb v/v	1		TO 15 LL	Total/NA
t-Butyl alcohol	0.34		0.32		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	8.1		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	3.1		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.22		0.080		ppb v/v	1		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	10		0.39		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	2.5		0.39		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	1.1		0.48		ug/m3	1		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	0.96		0.93		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	31		0.94		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	1.5		0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.48		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.36		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloroethane	0.53		0.21		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	1.0		0.41		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.3		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	7.5		3.8		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	3.9		0.35		ug/m3	1		TO 15 LL	Total/NA
Hexane	1.2		0.70		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	0.91		0.69		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	19		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	7.0		0.35		ug/m3	1		TO 15 LL	Total/NA
Styrene	0.51		0.34		ug/m3	1		TO 15 LL	Total/NA
t-Butyl alcohol	1.0		0.97		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	55		0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	12		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.2		0.45		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: AMBIENT #1

Lab Sample ID: 140-7503-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.40		0.080		ppb v/v	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: AMBIENT #1 (Continued)

Lab Sample ID: 140-7503-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	0.094		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	0.096		0.080		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	0.75		0.32		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	0.35		0.20		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.17		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.069		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	0.43		0.080		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.60		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.46		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	16		2.0		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	0.088		0.080		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.45		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	0.32		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.12		0.080		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	3.0		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	0.49		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.24		0.080		ppb v/v	1		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.0		0.39		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.46		0.39		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	0.58		0.48		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	2.2		0.94		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	1.4		0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.53		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.43		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloroform	2.1		0.39		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	1.2		0.41		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.3		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	29		3.8		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	0.38		0.35		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	1.6		0.69		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	1.4		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	0.50		0.35		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	20		0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	1.9		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.3		0.45		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: SUB SLAB #2

Lab Sample ID: 140-7503-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7200		74		ppb v/v	46.08		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	49000		500		ug/m3	46.08		TO 15 LL	Total/NA

Client Sample ID: AMBIENT #2

Lab Sample ID: 140-7503-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.83		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.24		0.080		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	0.38		0.32		ppb v/v	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: AMBIENT #2 (Continued)

Lab Sample ID: 140-7503-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.31		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.069		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	0.69		0.080		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.59		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.47		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	400	E	2.0		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	0.67		0.080		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.29		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	1.7		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.84		0.080		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	2.4		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	0.54		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.23		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol - DL	440	D	20		ppb v/v	1		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	4.1		0.39		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	1.2		0.39		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	1.1		0.94		ug/m3	1		TO 15 LL	Total/NA
Benzene	1.0		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.43		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloroform	3.4		0.39		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	1.2		0.41		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.3		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	760	E	3.8		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	2.9		0.35		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	1.0		0.69		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	7.3		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	3.7		0.35		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	17		0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	2.0		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.3		0.45		ug/m3	1		TO 15 LL	Total/NA
Ethanol - DL	830	D	38		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: AMBIENT #3

Lab Sample ID: 140-7503-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.5		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.38		0.080		ppb v/v	1		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	0.73		0.20		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	0.53		0.32		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	0.93		0.20		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.62		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.066		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	0.12		0.080		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.60		0.20		ppb v/v	1		TO 15 LL	Total/NA
Cyclohexane	0.53		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.97		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	480	E	2.0		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	0.49		0.080		ppb v/v	1		TO 15 LL	Total/NA
Hexane	1.3		0.20		ppb v/v	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: AMBIENT #3 (Continued)

Lab Sample ID: 140-7503-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.29		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	1.9		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.76		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	2.1		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.22		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol - DL	590	D	25		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	7.3		0.39		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	1.9		0.39		ug/m3	1		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	3.4		0.93		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	1.6		0.94		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	3.8		0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	2.0		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.41		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloroform	0.60		0.39		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	1.2		0.41		ug/m3	1		TO 15 LL	Total/NA
Cyclohexane	1.8		0.69		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	4.8		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	910	E	3.8		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	2.1		0.35		ug/m3	1		TO 15 LL	Total/NA
Hexane	4.4		0.70		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	1.0		0.69		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	8.3		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	3.3		0.35		ug/m3	1		TO 15 LL	Total/NA
Toluene	8.1		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.2		0.45		ug/m3	1		TO 15 LL	Total/NA
Ethanol - DL	1100	D	47		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: OUTDOOR AMBIENT #1

Lab Sample ID: 140-7503-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	0.35		0.32		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.23		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.071		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.65		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.49		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	7.6		2.0		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.35		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	0.24		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.089		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	0.38		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.24		0.080		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	1.0		0.94		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.72		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.45		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	1.3		0.41		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.4		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	14		3.8		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	1.2		0.69		ug/m3	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: OUTDOOR AMBIENT #1 (Continued)

Lab Sample ID: 140-7503-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	1.1		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	0.39		0.35		ug/m3	1		TO 15 LL	Total/NA
Toluene	1.4		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.3		0.45		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: SUBSLAB #4

Lab Sample ID: 140-7503-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.0		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.53		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	0.091		0.080		ppb v/v	1		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	0.24		0.20		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	7.9		0.32		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	56	E	0.20		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.28		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.068		0.040		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.53		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	3.4		2.0		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	0.89		0.080		ppb v/v	1		TO 15 LL	Total/NA
Hexane	0.26		0.20		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.26		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	4.2		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	1.6		0.080		ppb v/v	1		TO 15 LL	Total/NA
Styrene	0.082		0.080		ppb v/v	1		TO 15 LL	Total/NA
t-Butyl alcohol	0.48		0.32		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	8.4		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	3.1		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichloroethene	0.28		0.040		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.25		0.080		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK) - DL	28	D	2.0		ppb v/v	1		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	9.7		0.39		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	2.6		0.39		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	0.55		0.48		ug/m3	1		TO 15 LL	Total/NA
2,2,4-Trimethylpentane	1.1		0.93		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	23		0.94		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	230	E	0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.91		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.43		0.25		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.6		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	6.3		3.8		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	3.9		0.35		ug/m3	1		TO 15 LL	Total/NA
Hexane	0.93		0.70		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	0.90		0.69		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	18		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	6.8		0.35		ug/m3	1		TO 15 LL	Total/NA
Styrene	0.35		0.34		ug/m3	1		TO 15 LL	Total/NA
t-Butyl alcohol	1.5		0.97		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	57		0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	12		0.45		ug/m3	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUBSLAB #4 (Continued)

Lab Sample ID: 140-7503-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.5		0.21		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.4		0.45		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK) - DL	120	D	8.2		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: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUB SLAB #1

Lab Sample ID: 140-7503-1

Date Collected: 03/11/17 08:43

Matrix: Air

Date Received: 03/17/17 10:00

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			03/26/17 22:52	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			03/26/17 22:52	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			03/26/17 22:52	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			03/26/17 22:52	1
1,1-Dichloroethane	ND		0.080		ppb v/v			03/26/17 22:52	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/26/17 22:52	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			03/26/17 22:52	1
1,2,4-Trimethylbenzene	2.1		0.080		ppb v/v			03/26/17 22:52	1
1,2-Dibromoethane	ND		0.080		ppb v/v			03/26/17 22:52	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			03/26/17 22:52	1
1,2-Dichloroethane	ND		0.080		ppb v/v			03/26/17 22:52	1
1,2-Dichloropropane	ND		0.080		ppb v/v			03/26/17 22:52	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			03/26/17 22:52	1
1,3,5-Trimethylbenzene	0.51		0.080		ppb v/v			03/26/17 22:52	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			03/26/17 22:52	1
1,4-Dichlorobenzene	0.19		0.080		ppb v/v			03/26/17 22:52	1
1,4-Dioxane	ND		0.20		ppb v/v			03/26/17 22:52	1
2,2,4-Trimethylpentane	0.20		0.20		ppb v/v			03/26/17 22:52	1
2-Butanone	10		0.32		ppb v/v			03/26/17 22:52	1
4-Methyl-2-pentanone (MIBK)	0.37		0.20		ppb v/v			03/26/17 22:52	1
Benzene	0.15		0.080		ppb v/v			03/26/17 22:52	1
Benzyl chloride	ND		0.16		ppb v/v			03/26/17 22:52	1
Bromodichloromethane	ND		0.080		ppb v/v			03/26/17 22:52	1
Bromoform	ND		0.080		ppb v/v			03/26/17 22:52	1
Bromomethane	ND		0.080		ppb v/v			03/26/17 22:52	1
Carbon tetrachloride	0.057		0.040		ppb v/v			03/26/17 22:52	1
Chlorobenzene	ND		0.080		ppb v/v			03/26/17 22:52	1
Chloroethane	0.20		0.080		ppb v/v			03/26/17 22:52	1
Chloroform	ND		0.080		ppb v/v			03/26/17 22:52	1
Chloromethane	0.49		0.20		ppb v/v			03/26/17 22:52	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/26/17 22:52	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			03/26/17 22:52	1
Cyclohexane	ND		0.20		ppb v/v			03/26/17 22:52	1
Dibromochloromethane	ND		0.080		ppb v/v			03/26/17 22:52	1
Dichlorodifluoromethane	0.46		0.080		ppb v/v			03/26/17 22:52	1
Ethanol	4.0		2.0		ppb v/v			03/26/17 22:52	1
Ethylbenzene	0.89		0.080		ppb v/v			03/26/17 22:52	1
Hexachlorobutadiene	ND		0.080		ppb v/v			03/26/17 22:52	1
Hexane	0.33		0.20		ppb v/v			03/26/17 22:52	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			03/26/17 22:52	1
Methylene Chloride	0.26		0.20		ppb v/v			03/26/17 22:52	1
m-Xylene & p-Xylene	4.3		0.080		ppb v/v			03/26/17 22:52	1
o-Xylene	1.6		0.080		ppb v/v			03/26/17 22:52	1
Styrene	0.12		0.080		ppb v/v			03/26/17 22:52	1
t-Butyl alcohol	0.34		0.32		ppb v/v			03/26/17 22:52	1
Tetrachloroethene	8.1		0.080		ppb v/v			03/26/17 22:52	1
Toluene	3.1		0.12		ppb v/v			03/26/17 22:52	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/26/17 22:52	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUB SLAB #1

Lab Sample ID: 140-7503-1

Date Collected: 03/11/17 08:43

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			03/26/17 22:52	1
Trichloroethene	ND		0.040		ppb v/v			03/26/17 22:52	1
Trichlorofluoromethane	0.22		0.080		ppb v/v			03/26/17 22:52	1
Vinyl chloride	ND		0.040		ppb v/v			03/26/17 22:52	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/26/17 22:52	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			03/26/17 22:52	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			03/26/17 22:52	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			03/26/17 22:52	1
1,1-Dichloroethane	ND		0.32		ug/m3			03/26/17 22:52	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/26/17 22:52	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			03/26/17 22:52	1
1,2,4-Trimethylbenzene	10		0.39		ug/m3			03/26/17 22:52	1
1,2-Dibromoethane	ND		0.61		ug/m3			03/26/17 22:52	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			03/26/17 22:52	1
1,2-Dichloroethane	ND		0.32		ug/m3			03/26/17 22:52	1
1,2-Dichloropropane	ND		0.37		ug/m3			03/26/17 22:52	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			03/26/17 22:52	1
1,3,5-Trimethylbenzene	2.5		0.39		ug/m3			03/26/17 22:52	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			03/26/17 22:52	1
1,4-Dichlorobenzene	1.1		0.48		ug/m3			03/26/17 22:52	1
1,4-Dioxane	ND		0.72		ug/m3			03/26/17 22:52	1
2,2,4-Trimethylpentane	0.96		0.93		ug/m3			03/26/17 22:52	1
2-Butanone	31		0.94		ug/m3			03/26/17 22:52	1
4-Methyl-2-pentanone (MIBK)	1.5		0.82		ug/m3			03/26/17 22:52	1
Benzene	0.48		0.26		ug/m3			03/26/17 22:52	1
Benzyl chloride	ND		0.83		ug/m3			03/26/17 22:52	1
Bromodichloromethane	ND		0.54		ug/m3			03/26/17 22:52	1
Bromoform	ND		0.83		ug/m3			03/26/17 22:52	1
Bromomethane	ND		0.31		ug/m3			03/26/17 22:52	1
Carbon tetrachloride	0.36		0.25		ug/m3			03/26/17 22:52	1
Chlorobenzene	ND		0.37		ug/m3			03/26/17 22:52	1
Chloroethane	0.53		0.21		ug/m3			03/26/17 22:52	1
Chloroform	ND		0.39		ug/m3			03/26/17 22:52	1
Chloromethane	1.0		0.41		ug/m3			03/26/17 22:52	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/26/17 22:52	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			03/26/17 22:52	1
Cyclohexane	ND		0.69		ug/m3			03/26/17 22:52	1
Dibromochloromethane	ND		0.68		ug/m3			03/26/17 22:52	1
Dichlorodifluoromethane	2.3		0.40		ug/m3			03/26/17 22:52	1
Ethanol	7.5		3.8		ug/m3			03/26/17 22:52	1
Ethylbenzene	3.9		0.35		ug/m3			03/26/17 22:52	1
Hexachlorobutadiene	ND		0.85		ug/m3			03/26/17 22:52	1
Hexane	1.2		0.70		ug/m3			03/26/17 22:52	1
Methyl tert-butyl ether	ND		0.58		ug/m3			03/26/17 22:52	1
Methylene Chloride	0.91		0.69		ug/m3			03/26/17 22:52	1
m-Xylene & p-Xylene	19		0.35		ug/m3			03/26/17 22:52	1
o-Xylene	7.0		0.35		ug/m3			03/26/17 22:52	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUB SLAB #1

Lab Sample ID: 140-7503-1

Date Collected: 03/11/17 08:43

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.51		0.34		ug/m3			03/26/17 22:52	1
t-Butyl alcohol	1.0		0.97		ug/m3			03/26/17 22:52	1
Tetrachloroethene	55		0.54		ug/m3			03/26/17 22:52	1
Toluene	12		0.45		ug/m3			03/26/17 22:52	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/26/17 22:52	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			03/26/17 22:52	1
Trichloroethene	ND		0.21		ug/m3			03/26/17 22:52	1
Trichlorofluoromethane	1.2		0.45		ug/m3			03/26/17 22:52	1
Vinyl chloride	ND		0.10		ug/m3			03/26/17 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		60 - 140					03/26/17 22:52	1

Client Sample ID: AMBIENT #1

Lab Sample ID: 140-7503-2

Date Collected: 03/11/17 08:44

Matrix: Air

Date Received: 03/17/17 10:00

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			03/26/17 23:40	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			03/26/17 23:40	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			03/26/17 23:40	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			03/26/17 23:40	1
1,1-Dichloroethane	ND		0.080		ppb v/v			03/26/17 23:40	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/26/17 23:40	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			03/26/17 23:40	1
1,2,4-Trimethylbenzene	0.40		0.080		ppb v/v			03/26/17 23:40	1
1,2-Dibromoethane	ND		0.080		ppb v/v			03/26/17 23:40	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			03/26/17 23:40	1
1,2-Dichloroethane	ND		0.080		ppb v/v			03/26/17 23:40	1
1,2-Dichloropropane	ND		0.080		ppb v/v			03/26/17 23:40	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			03/26/17 23:40	1
1,3,5-Trimethylbenzene	0.094		0.080		ppb v/v			03/26/17 23:40	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			03/26/17 23:40	1
1,4-Dichlorobenzene	0.096		0.080		ppb v/v			03/26/17 23:40	1
1,4-Dioxane	ND		0.20		ppb v/v			03/26/17 23:40	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			03/26/17 23:40	1
2-Butanone	0.75		0.32		ppb v/v			03/26/17 23:40	1
4-Methyl-2-pentanone (MIBK)	0.35		0.20		ppb v/v			03/26/17 23:40	1
Benzene	0.17		0.080		ppb v/v			03/26/17 23:40	1
Benzyl chloride	ND		0.16		ppb v/v			03/26/17 23:40	1
Bromodichloromethane	ND		0.080		ppb v/v			03/26/17 23:40	1
Bromoform	ND		0.080		ppb v/v			03/26/17 23:40	1
Bromomethane	ND		0.080		ppb v/v			03/26/17 23:40	1
Carbon tetrachloride	0.069		0.040		ppb v/v			03/26/17 23:40	1
Chlorobenzene	ND		0.080		ppb v/v			03/26/17 23:40	1
Chloroethane	ND		0.080		ppb v/v			03/26/17 23:40	1
Chloroform	0.43		0.080		ppb v/v			03/26/17 23:40	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: AMBIENT #1

Lab Sample ID: 140-7503-2

Date Collected: 03/11/17 08:44

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.60		0.20		ppb v/v			03/26/17 23:40	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/26/17 23:40	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			03/26/17 23:40	1
Cyclohexane	ND		0.20		ppb v/v			03/26/17 23:40	1
Dibromochloromethane	ND		0.080		ppb v/v			03/26/17 23:40	1
Dichlorodifluoromethane	0.46		0.080		ppb v/v			03/26/17 23:40	1
Ethanol	16		2.0		ppb v/v			03/26/17 23:40	1
Ethylbenzene	0.088		0.080		ppb v/v			03/26/17 23:40	1
Hexachlorobutadiene	ND		0.080		ppb v/v			03/26/17 23:40	1
Hexane	ND		0.20		ppb v/v			03/26/17 23:40	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			03/26/17 23:40	1
Methylene Chloride	0.45		0.20		ppb v/v			03/26/17 23:40	1
m-Xylene & p-Xylene	0.32		0.080		ppb v/v			03/26/17 23:40	1
o-Xylene	0.12		0.080		ppb v/v			03/26/17 23:40	1
Styrene	ND		0.080		ppb v/v			03/26/17 23:40	1
t-Butyl alcohol	ND		0.32		ppb v/v			03/26/17 23:40	1
Tetrachloroethene	3.0		0.080		ppb v/v			03/26/17 23:40	1
Toluene	0.49		0.12		ppb v/v			03/26/17 23:40	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/26/17 23:40	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			03/26/17 23:40	1
Trichloroethene	ND		0.040		ppb v/v			03/26/17 23:40	1
Trichlorofluoromethane	0.24		0.080		ppb v/v			03/26/17 23:40	1
Vinyl chloride	ND		0.040		ppb v/v			03/26/17 23:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/26/17 23:40	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			03/26/17 23:40	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			03/26/17 23:40	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			03/26/17 23:40	1
1,1-Dichloroethane	ND		0.32		ug/m3			03/26/17 23:40	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/26/17 23:40	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			03/26/17 23:40	1
1,2,4-Trimethylbenzene	2.0		0.39		ug/m3			03/26/17 23:40	1
1,2-Dibromoethane	ND		0.61		ug/m3			03/26/17 23:40	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			03/26/17 23:40	1
1,2-Dichloroethane	ND		0.32		ug/m3			03/26/17 23:40	1
1,2-Dichloropropane	ND		0.37		ug/m3			03/26/17 23:40	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			03/26/17 23:40	1
1,3,5-Trimethylbenzene	0.46		0.39		ug/m3			03/26/17 23:40	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			03/26/17 23:40	1
1,4-Dichlorobenzene	0.58		0.48		ug/m3			03/26/17 23:40	1
1,4-Dioxane	ND		0.72		ug/m3			03/26/17 23:40	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			03/26/17 23:40	1
2-Butanone	2.2		0.94		ug/m3			03/26/17 23:40	1
4-Methyl-2-pentanone (MIBK)	1.4		0.82		ug/m3			03/26/17 23:40	1
Benzene	0.53		0.26		ug/m3			03/26/17 23:40	1
Benzyl chloride	ND		0.83		ug/m3			03/26/17 23:40	1
Bromodichloromethane	ND		0.54		ug/m3			03/26/17 23:40	1
Bromoform	ND		0.83		ug/m3			03/26/17 23:40	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: AMBIENT #1

Lab Sample ID: 140-7503-2

Date Collected: 03/11/17 08:44

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.31		ug/m3			03/26/17 23:40	1
Carbon tetrachloride	0.43		0.25		ug/m3			03/26/17 23:40	1
Chlorobenzene	ND		0.37		ug/m3			03/26/17 23:40	1
Chloroethane	ND		0.21		ug/m3			03/26/17 23:40	1
Chloroform	2.1		0.39		ug/m3			03/26/17 23:40	1
Chloromethane	1.2		0.41		ug/m3			03/26/17 23:40	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/26/17 23:40	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			03/26/17 23:40	1
Cyclohexane	ND		0.69		ug/m3			03/26/17 23:40	1
Dibromochloromethane	ND		0.68		ug/m3			03/26/17 23:40	1
Dichlorodifluoromethane	2.3		0.40		ug/m3			03/26/17 23:40	1
Ethanol	29		3.8		ug/m3			03/26/17 23:40	1
Ethylbenzene	0.38		0.35		ug/m3			03/26/17 23:40	1
Hexachlorobutadiene	ND		0.85		ug/m3			03/26/17 23:40	1
Hexane	ND		0.70		ug/m3			03/26/17 23:40	1
Methyl tert-butyl ether	ND		0.58		ug/m3			03/26/17 23:40	1
Methylene Chloride	1.6		0.69		ug/m3			03/26/17 23:40	1
m-Xylene & p-Xylene	1.4		0.35		ug/m3			03/26/17 23:40	1
o-Xylene	0.50		0.35		ug/m3			03/26/17 23:40	1
Styrene	ND		0.34		ug/m3			03/26/17 23:40	1
t-Butyl alcohol	ND		0.97		ug/m3			03/26/17 23:40	1
Tetrachloroethene	20		0.54		ug/m3			03/26/17 23:40	1
Toluene	1.9		0.45		ug/m3			03/26/17 23:40	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/26/17 23:40	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			03/26/17 23:40	1
Trichloroethene	ND		0.21		ug/m3			03/26/17 23:40	1
Trichlorofluoromethane	1.3		0.45		ug/m3			03/26/17 23:40	1
Vinyl chloride	ND		0.10		ug/m3			03/26/17 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140		03/26/17 23:40	1

Client Sample ID: SUB SLAB #2

Lab Sample ID: 140-7503-3

Date Collected: 03/11/17 09:12

Matrix: Air

Date Received: 03/17/17 10:00

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		74		ppb v/v			03/27/17 00:25	46.08
1,1,2,2-Tetrachloroethane	ND		74		ppb v/v			03/27/17 00:25	46.08
1,1,2-Trichloroethane	ND		74		ppb v/v			03/27/17 00:25	46.08
1,1,2-Trichlorotrifluoroethane	ND		74		ppb v/v			03/27/17 00:25	46.08
1,1-Dichloroethane	ND		74		ppb v/v			03/27/17 00:25	46.08
1,1-Dichloroethene	ND		74		ppb v/v			03/27/17 00:25	46.08
1,2,4-Trichlorobenzene	ND		74		ppb v/v			03/27/17 00:25	46.08
1,2,4-Trimethylbenzene	ND		74		ppb v/v			03/27/17 00:25	46.08
1,2-Dibromoethane	ND		74		ppb v/v			03/27/17 00:25	46.08
1,2-Dichlorobenzene	ND		74		ppb v/v			03/27/17 00:25	46.08

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUB SLAB #2

Lab Sample ID: 140-7503-3

Date Collected: 03/11/17 09:12

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		74		ppb v/v			03/27/17 00:25	46.08
1,2-Dichloropropane	ND		74		ppb v/v			03/27/17 00:25	46.08
1,2-Dichlorotetrafluoroethane	ND		74		ppb v/v			03/27/17 00:25	46.08
1,3,5-Trimethylbenzene	ND		74		ppb v/v			03/27/17 00:25	46.08
1,3-Dichlorobenzene	ND		74		ppb v/v			03/27/17 00:25	46.08
1,4-Dichlorobenzene	ND		74		ppb v/v			03/27/17 00:25	46.08
1,4-Dioxane	ND		180		ppb v/v			03/27/17 00:25	46.08
2,2,4-Trimethylpentane	ND		180		ppb v/v			03/27/17 00:25	46.08
2-Butanone	ND		290		ppb v/v			03/27/17 00:25	46.08
4-Methyl-2-pentanone (MIBK)	ND		180		ppb v/v			03/27/17 00:25	46.08
Benzene	ND		74		ppb v/v			03/27/17 00:25	46.08
Benzyl chloride	ND		150		ppb v/v			03/27/17 00:25	46.08
Bromodichloromethane	ND		74		ppb v/v			03/27/17 00:25	46.08
Bromoform	ND		74		ppb v/v			03/27/17 00:25	46.08
Bromomethane	ND		74		ppb v/v			03/27/17 00:25	46.08
Carbon tetrachloride	ND		37		ppb v/v			03/27/17 00:25	46.08
Chlorobenzene	ND		74		ppb v/v			03/27/17 00:25	46.08
Chloroethane	ND		74		ppb v/v			03/27/17 00:25	46.08
Chloroform	ND		74		ppb v/v			03/27/17 00:25	46.08
Chloromethane	ND		180		ppb v/v			03/27/17 00:25	46.08
cis-1,2-Dichloroethene	ND		74		ppb v/v			03/27/17 00:25	46.08
cis-1,3-Dichloropropene	ND		74		ppb v/v			03/27/17 00:25	46.08
Cyclohexane	ND		180		ppb v/v			03/27/17 00:25	46.08
Dibromochloromethane	ND		74		ppb v/v			03/27/17 00:25	46.08
Dichlorodifluoromethane	ND		74		ppb v/v			03/27/17 00:25	46.08
Ethanol	ND		1800		ppb v/v			03/27/17 00:25	46.08
Ethylbenzene	ND		74		ppb v/v			03/27/17 00:25	46.08
Hexachlorobutadiene	ND		74		ppb v/v			03/27/17 00:25	46.08
Hexane	ND		180		ppb v/v			03/27/17 00:25	46.08
Methyl tert-butyl ether	ND		150		ppb v/v			03/27/17 00:25	46.08
Methylene Chloride	ND		180		ppb v/v			03/27/17 00:25	46.08
m-Xylene & p-Xylene	ND		74		ppb v/v			03/27/17 00:25	46.08
o-Xylene	ND		74		ppb v/v			03/27/17 00:25	46.08
Styrene	ND		74		ppb v/v			03/27/17 00:25	46.08
t-Butyl alcohol	ND		290		ppb v/v			03/27/17 00:25	46.08
Tetrachloroethene	7200		74		ppb v/v			03/27/17 00:25	46.08
Toluene	ND		110		ppb v/v			03/27/17 00:25	46.08
trans-1,2-Dichloroethene	ND		74		ppb v/v			03/27/17 00:25	46.08
trans-1,3-Dichloropropene	ND		74		ppb v/v			03/27/17 00:25	46.08
Trichloroethene	ND		37		ppb v/v			03/27/17 00:25	46.08
Trichlorofluoromethane	ND		74		ppb v/v			03/27/17 00:25	46.08
Vinyl chloride	ND		37		ppb v/v			03/27/17 00:25	46.08
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		400		ug/m3			03/27/17 00:25	46.08
1,1,2,2-Tetrachloroethane	ND		510		ug/m3			03/27/17 00:25	46.08
1,1,2-Trichloroethane	ND		400		ug/m3			03/27/17 00:25	46.08
1,1,2-Trichlorotrifluoroethane	ND		570		ug/m3			03/27/17 00:25	46.08
1,1-Dichloroethane	ND		300		ug/m3			03/27/17 00:25	46.08

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUB SLAB #2

Lab Sample ID: 140-7503-3

Date Collected: 03/11/17 09:12

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		290		ug/m3			03/27/17 00:25	46.08
1,2,4-Trichlorobenzene	ND		550		ug/m3			03/27/17 00:25	46.08
1,2,4-Trimethylbenzene	ND		360		ug/m3			03/27/17 00:25	46.08
1,2-Dibromoethane	ND		570		ug/m3			03/27/17 00:25	46.08
1,2-Dichlorobenzene	ND		440		ug/m3			03/27/17 00:25	46.08
1,2-Dichloroethane	ND		300		ug/m3			03/27/17 00:25	46.08
1,2-Dichloropropane	ND		340		ug/m3			03/27/17 00:25	46.08
1,2-Dichlorotetrafluoroethane	ND		520		ug/m3			03/27/17 00:25	46.08
1,3,5-Trimethylbenzene	ND		360		ug/m3			03/27/17 00:25	46.08
1,3-Dichlorobenzene	ND		440		ug/m3			03/27/17 00:25	46.08
1,4-Dichlorobenzene	ND		440		ug/m3			03/27/17 00:25	46.08
1,4-Dioxane	ND		660		ug/m3			03/27/17 00:25	46.08
2,2,4-Trimethylpentane	ND		860		ug/m3			03/27/17 00:25	46.08
2-Butanone	ND		870		ug/m3			03/27/17 00:25	46.08
4-Methyl-2-pentanone (MIBK)	ND		760		ug/m3			03/27/17 00:25	46.08
Benzene	ND		240		ug/m3			03/27/17 00:25	46.08
Benzyl chloride	ND		760		ug/m3			03/27/17 00:25	46.08
Bromodichloromethane	ND		490		ug/m3			03/27/17 00:25	46.08
Bromoform	ND		760		ug/m3			03/27/17 00:25	46.08
Bromomethane	ND		290		ug/m3			03/27/17 00:25	46.08
Carbon tetrachloride	ND		230		ug/m3			03/27/17 00:25	46.08
Chlorobenzene	ND		340		ug/m3			03/27/17 00:25	46.08
Chloroethane	ND		190		ug/m3			03/27/17 00:25	46.08
Chloroform	ND		360		ug/m3			03/27/17 00:25	46.08
Chloromethane	ND		380		ug/m3			03/27/17 00:25	46.08
cis-1,2-Dichloroethene	ND		290		ug/m3			03/27/17 00:25	46.08
cis-1,3-Dichloropropene	ND		330		ug/m3			03/27/17 00:25	46.08
Cyclohexane	ND		630		ug/m3			03/27/17 00:25	46.08
Dibromochloromethane	ND		630		ug/m3			03/27/17 00:25	46.08
Dichlorodifluoromethane	ND		360		ug/m3			03/27/17 00:25	46.08
Ethanol	ND		3500		ug/m3			03/27/17 00:25	46.08
Ethylbenzene	ND		320		ug/m3			03/27/17 00:25	46.08
Hexachlorobutadiene	ND		790		ug/m3			03/27/17 00:25	46.08
Hexane	ND		650		ug/m3			03/27/17 00:25	46.08
Methyl tert-butyl ether	ND		530		ug/m3			03/27/17 00:25	46.08
Methylene Chloride	ND		640		ug/m3			03/27/17 00:25	46.08
m-Xylene & p-Xylene	ND		320		ug/m3			03/27/17 00:25	46.08
o-Xylene	ND		320		ug/m3			03/27/17 00:25	46.08
Styrene	ND		310		ug/m3			03/27/17 00:25	46.08
t-Butyl alcohol	ND		890		ug/m3			03/27/17 00:25	46.08
Tetrachloroethene	49000		500		ug/m3			03/27/17 00:25	46.08
Toluene	ND		420		ug/m3			03/27/17 00:25	46.08
trans-1,2-Dichloroethene	ND		290		ug/m3			03/27/17 00:25	46.08
trans-1,3-Dichloropropene	ND		330		ug/m3			03/27/17 00:25	46.08
Trichloroethene	ND		200		ug/m3			03/27/17 00:25	46.08
Trichlorofluoromethane	ND		410		ug/m3			03/27/17 00:25	46.08
Vinyl chloride	ND		94		ug/m3			03/27/17 00:25	46.08

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUB SLAB #2

Lab Sample ID: 140-7503-3

Date Collected: 03/11/17 09:12

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		60 - 140		03/27/17 00:25	46.08

Client Sample ID: AMBIENT #2

Lab Sample ID: 140-7503-4

Date Collected: 03/11/17 09:14

Matrix: Air

Date Received: 03/17/17 10:00

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			03/27/17 01:13	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			03/27/17 01:13	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			03/27/17 01:13	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			03/27/17 01:13	1
1,1-Dichloroethane	ND		0.080		ppb v/v			03/27/17 01:13	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/27/17 01:13	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			03/27/17 01:13	1
1,2,4-Trimethylbenzene	0.83		0.080		ppb v/v			03/27/17 01:13	1
1,2-Dibromoethane	ND		0.080		ppb v/v			03/27/17 01:13	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			03/27/17 01:13	1
1,2-Dichloroethane	ND		0.080		ppb v/v			03/27/17 01:13	1
1,2-Dichloropropane	ND		0.080		ppb v/v			03/27/17 01:13	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			03/27/17 01:13	1
1,3,5-Trimethylbenzene	0.24		0.080		ppb v/v			03/27/17 01:13	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			03/27/17 01:13	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			03/27/17 01:13	1
1,4-Dioxane	ND		0.20		ppb v/v			03/27/17 01:13	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			03/27/17 01:13	1
2-Butanone	0.38		0.32		ppb v/v			03/27/17 01:13	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			03/27/17 01:13	1
Benzene	0.31		0.080		ppb v/v			03/27/17 01:13	1
Benzyl chloride	ND		0.16		ppb v/v			03/27/17 01:13	1
Bromodichloromethane	ND		0.080		ppb v/v			03/27/17 01:13	1
Bromoform	ND		0.080		ppb v/v			03/27/17 01:13	1
Bromomethane	ND		0.080		ppb v/v			03/27/17 01:13	1
Carbon tetrachloride	0.069		0.040		ppb v/v			03/27/17 01:13	1
Chlorobenzene	ND		0.080		ppb v/v			03/27/17 01:13	1
Chloroethane	ND		0.080		ppb v/v			03/27/17 01:13	1
Chloroform	0.69		0.080		ppb v/v			03/27/17 01:13	1
Chloromethane	0.59		0.20		ppb v/v			03/27/17 01:13	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/27/17 01:13	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			03/27/17 01:13	1
Cyclohexane	ND		0.20		ppb v/v			03/27/17 01:13	1
Dibromochloromethane	ND		0.080		ppb v/v			03/27/17 01:13	1
Dichlorodifluoromethane	0.47		0.080		ppb v/v			03/27/17 01:13	1
Ethanol	400 E		2.0		ppb v/v			03/27/17 01:13	1
Ethylbenzene	0.67		0.080		ppb v/v			03/27/17 01:13	1
Hexachlorobutadiene	ND		0.080		ppb v/v			03/27/17 01:13	1
Hexane	ND		0.20		ppb v/v			03/27/17 01:13	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			03/27/17 01:13	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: AMBIENT #2

Lab Sample ID: 140-7503-4

Date Collected: 03/11/17 09:14

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.29		0.20		ppb v/v			03/27/17 01:13	1
m-Xylene & p-Xylene	1.7		0.080		ppb v/v			03/27/17 01:13	1
o-Xylene	0.84		0.080		ppb v/v			03/27/17 01:13	1
Styrene	ND		0.080		ppb v/v			03/27/17 01:13	1
t-Butyl alcohol	ND		0.32		ppb v/v			03/27/17 01:13	1
Tetrachloroethene	2.4		0.080		ppb v/v			03/27/17 01:13	1
Toluene	0.54		0.12		ppb v/v			03/27/17 01:13	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/27/17 01:13	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			03/27/17 01:13	1
Trichloroethene	ND		0.040		ppb v/v			03/27/17 01:13	1
Trichlorofluoromethane	0.23		0.080		ppb v/v			03/27/17 01:13	1
Vinyl chloride	ND		0.040		ppb v/v			03/27/17 01:13	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/27/17 01:13	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			03/27/17 01:13	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			03/27/17 01:13	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			03/27/17 01:13	1
1,1-Dichloroethane	ND		0.32		ug/m3			03/27/17 01:13	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/27/17 01:13	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			03/27/17 01:13	1
1,2,4-Trimethylbenzene	4.1		0.39		ug/m3			03/27/17 01:13	1
1,2-Dibromoethane	ND		0.61		ug/m3			03/27/17 01:13	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			03/27/17 01:13	1
1,2-Dichloroethane	ND		0.32		ug/m3			03/27/17 01:13	1
1,2-Dichloropropane	ND		0.37		ug/m3			03/27/17 01:13	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			03/27/17 01:13	1
1,3,5-Trimethylbenzene	1.2		0.39		ug/m3			03/27/17 01:13	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			03/27/17 01:13	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			03/27/17 01:13	1
1,4-Dioxane	ND		0.72		ug/m3			03/27/17 01:13	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			03/27/17 01:13	1
2-Butanone	1.1		0.94		ug/m3			03/27/17 01:13	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			03/27/17 01:13	1
Benzene	1.0		0.26		ug/m3			03/27/17 01:13	1
Benzyl chloride	ND		0.83		ug/m3			03/27/17 01:13	1
Bromodichloromethane	ND		0.54		ug/m3			03/27/17 01:13	1
Bromoform	ND		0.83		ug/m3			03/27/17 01:13	1
Bromomethane	ND		0.31		ug/m3			03/27/17 01:13	1
Carbon tetrachloride	0.43		0.25		ug/m3			03/27/17 01:13	1
Chlorobenzene	ND		0.37		ug/m3			03/27/17 01:13	1
Chloroethane	ND		0.21		ug/m3			03/27/17 01:13	1
Chloroform	3.4		0.39		ug/m3			03/27/17 01:13	1
Chloromethane	1.2		0.41		ug/m3			03/27/17 01:13	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/27/17 01:13	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			03/27/17 01:13	1
Cyclohexane	ND		0.69		ug/m3			03/27/17 01:13	1
Dibromochloromethane	ND		0.68		ug/m3			03/27/17 01:13	1
Dichlorodifluoromethane	2.3		0.40		ug/m3			03/27/17 01:13	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: AMBIENT #2

Lab Sample ID: 140-7503-4

Date Collected: 03/11/17 09:14

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	760	E	3.8		ug/m3			03/27/17 01:13	1
Ethylbenzene	2.9		0.35		ug/m3			03/27/17 01:13	1
Hexachlorobutadiene	ND		0.85		ug/m3			03/27/17 01:13	1
Hexane	ND		0.70		ug/m3			03/27/17 01:13	1
Methyl tert-butyl ether	ND		0.58		ug/m3			03/27/17 01:13	1
Methylene Chloride	1.0		0.69		ug/m3			03/27/17 01:13	1
m-Xylene & p-Xylene	7.3		0.35		ug/m3			03/27/17 01:13	1
o-Xylene	3.7		0.35		ug/m3			03/27/17 01:13	1
Styrene	ND		0.34		ug/m3			03/27/17 01:13	1
t-Butyl alcohol	ND		0.97		ug/m3			03/27/17 01:13	1
Tetrachloroethene	17		0.54		ug/m3			03/27/17 01:13	1
Toluene	2.0		0.45		ug/m3			03/27/17 01:13	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/27/17 01:13	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			03/27/17 01:13	1
Trichloroethene	ND		0.21		ug/m3			03/27/17 01:13	1
Trichlorofluoromethane	1.3		0.45		ug/m3			03/27/17 01:13	1
Vinyl chloride	ND		0.10		ug/m3			03/27/17 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		60 - 140		03/27/17 01:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	440	D	20		ppb v/v			03/29/17 03:05	1
Ethanol	830	D	38		ug/m3			03/29/17 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140		03/29/17 03:05	1

Client Sample ID: AMBIENT #3

Lab Sample ID: 140-7503-5

Date Collected: 03/11/17 10:10

Matrix: Air

Date Received: 03/17/17 10:00

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			03/27/17 02:01	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			03/27/17 02:01	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			03/27/17 02:01	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			03/27/17 02:01	1
1,1-Dichloroethane	ND		0.080		ppb v/v			03/27/17 02:01	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/27/17 02:01	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			03/27/17 02:01	1
1,2,4-Trimethylbenzene	1.5		0.080		ppb v/v			03/27/17 02:01	1
1,2-Dibromoethane	ND		0.080		ppb v/v			03/27/17 02:01	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			03/27/17 02:01	1
1,2-Dichloroethane	ND		0.080		ppb v/v			03/27/17 02:01	1
1,2-Dichloropropane	ND		0.080		ppb v/v			03/27/17 02:01	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: AMBIENT #3

Lab Sample ID: 140-7503-5

Date Collected: 03/11/17 10:10

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			03/27/17 02:01	1
1,3,5-Trimethylbenzene	0.38		0.080		ppb v/v			03/27/17 02:01	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			03/27/17 02:01	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			03/27/17 02:01	1
1,4-Dioxane	ND		0.20		ppb v/v			03/27/17 02:01	1
2,2,4-Trimethylpentane	0.73		0.20		ppb v/v			03/27/17 02:01	1
2-Butanone	0.53		0.32		ppb v/v			03/27/17 02:01	1
4-Methyl-2-pentanone (MIBK)	0.93		0.20		ppb v/v			03/27/17 02:01	1
Benzene	0.62		0.080		ppb v/v			03/27/17 02:01	1
Benzyl chloride	ND		0.16		ppb v/v			03/27/17 02:01	1
Bromodichloromethane	ND		0.080		ppb v/v			03/27/17 02:01	1
Bromoform	ND		0.080		ppb v/v			03/27/17 02:01	1
Bromomethane	ND		0.080		ppb v/v			03/27/17 02:01	1
Carbon tetrachloride	0.066		0.040		ppb v/v			03/27/17 02:01	1
Chlorobenzene	ND		0.080		ppb v/v			03/27/17 02:01	1
Chloroethane	ND		0.080		ppb v/v			03/27/17 02:01	1
Chloroform	0.12		0.080		ppb v/v			03/27/17 02:01	1
Chloromethane	0.60		0.20		ppb v/v			03/27/17 02:01	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/27/17 02:01	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			03/27/17 02:01	1
Cyclohexane	0.53		0.20		ppb v/v			03/27/17 02:01	1
Dibromochloromethane	ND		0.080		ppb v/v			03/27/17 02:01	1
Dichlorodifluoromethane	0.97		0.080		ppb v/v			03/27/17 02:01	1
Ethanol	480 E		2.0		ppb v/v			03/27/17 02:01	1
Ethylbenzene	0.49		0.080		ppb v/v			03/27/17 02:01	1
Hexachlorobutadiene	ND		0.080		ppb v/v			03/27/17 02:01	1
Hexane	1.3		0.20		ppb v/v			03/27/17 02:01	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			03/27/17 02:01	1
Methylene Chloride	0.29		0.20		ppb v/v			03/27/17 02:01	1
m-Xylene & p-Xylene	1.9		0.080		ppb v/v			03/27/17 02:01	1
o-Xylene	0.76		0.080		ppb v/v			03/27/17 02:01	1
Styrene	ND		0.080		ppb v/v			03/27/17 02:01	1
t-Butyl alcohol	ND		0.32		ppb v/v			03/27/17 02:01	1
Tetrachloroethene	ND		0.080		ppb v/v			03/27/17 02:01	1
Toluene	2.1		0.12		ppb v/v			03/27/17 02:01	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/27/17 02:01	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			03/27/17 02:01	1
Trichloroethene	ND		0.040		ppb v/v			03/27/17 02:01	1
Trichlorofluoromethane	0.22		0.080		ppb v/v			03/27/17 02:01	1
Vinyl chloride	ND		0.040		ppb v/v			03/27/17 02:01	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/27/17 02:01	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			03/27/17 02:01	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			03/27/17 02:01	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			03/27/17 02:01	1
1,1-Dichloroethane	ND		0.32		ug/m3			03/27/17 02:01	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/27/17 02:01	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			03/27/17 02:01	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: AMBIENT #3

Lab Sample ID: 140-7503-5

Date Collected: 03/11/17 10:10

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	7.3		0.39		ug/m3			03/27/17 02:01	1
1,2-Dibromoethane	ND		0.61		ug/m3			03/27/17 02:01	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			03/27/17 02:01	1
1,2-Dichloroethane	ND		0.32		ug/m3			03/27/17 02:01	1
1,2-Dichloropropane	ND		0.37		ug/m3			03/27/17 02:01	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			03/27/17 02:01	1
1,3,5-Trimethylbenzene	1.9		0.39		ug/m3			03/27/17 02:01	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			03/27/17 02:01	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			03/27/17 02:01	1
1,4-Dioxane	ND		0.72		ug/m3			03/27/17 02:01	1
2,2,4-Trimethylpentane	3.4		0.93		ug/m3			03/27/17 02:01	1
2-Butanone	1.6		0.94		ug/m3			03/27/17 02:01	1
4-Methyl-2-pentanone (MIBK)	3.8		0.82		ug/m3			03/27/17 02:01	1
Benzene	2.0		0.26		ug/m3			03/27/17 02:01	1
Benzyl chloride	ND		0.83		ug/m3			03/27/17 02:01	1
Bromodichloromethane	ND		0.54		ug/m3			03/27/17 02:01	1
Bromoform	ND		0.83		ug/m3			03/27/17 02:01	1
Bromomethane	ND		0.31		ug/m3			03/27/17 02:01	1
Carbon tetrachloride	0.41		0.25		ug/m3			03/27/17 02:01	1
Chlorobenzene	ND		0.37		ug/m3			03/27/17 02:01	1
Chloroethane	ND		0.21		ug/m3			03/27/17 02:01	1
Chloroform	0.60		0.39		ug/m3			03/27/17 02:01	1
Chloromethane	1.2		0.41		ug/m3			03/27/17 02:01	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/27/17 02:01	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			03/27/17 02:01	1
Cyclohexane	1.8		0.69		ug/m3			03/27/17 02:01	1
Dibromochloromethane	ND		0.68		ug/m3			03/27/17 02:01	1
Dichlorodifluoromethane	4.8		0.40		ug/m3			03/27/17 02:01	1
Ethanol	910	E	3.8		ug/m3			03/27/17 02:01	1
Ethylbenzene	2.1		0.35		ug/m3			03/27/17 02:01	1
Hexachlorobutadiene	ND		0.85		ug/m3			03/27/17 02:01	1
Hexane	4.4		0.70		ug/m3			03/27/17 02:01	1
Methyl tert-butyl ether	ND		0.58		ug/m3			03/27/17 02:01	1
Methylene Chloride	1.0		0.69		ug/m3			03/27/17 02:01	1
m-Xylene & p-Xylene	8.3		0.35		ug/m3			03/27/17 02:01	1
o-Xylene	3.3		0.35		ug/m3			03/27/17 02:01	1
Styrene	ND		0.34		ug/m3			03/27/17 02:01	1
t-Butyl alcohol	ND		0.97		ug/m3			03/27/17 02:01	1
Tetrachloroethene	ND		0.54		ug/m3			03/27/17 02:01	1
Toluene	8.1		0.45		ug/m3			03/27/17 02:01	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/27/17 02:01	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			03/27/17 02:01	1
Trichloroethene	ND		0.21		ug/m3			03/27/17 02:01	1
Trichlorofluoromethane	1.2		0.45		ug/m3			03/27/17 02:01	1
Vinyl chloride	ND		0.10		ug/m3			03/27/17 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140		03/27/17 02:01	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: AMBIENT #3

Lab Sample ID: 140-7503-5

Date Collected: 03/11/17 10:10

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	590	D	25		ppb v/v			03/29/17 03:47	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	1100	D	47		ug/m3			03/29/17 03:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		60 - 140					03/29/17 03:47	1

Client Sample ID: OUTDOOR AMBIENT #1

Lab Sample ID: 140-7503-6

Date Collected: 03/11/17 10:11

Matrix: Air

Date Received: 03/17/17 10:00

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			03/27/17 03:36	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			03/27/17 03:36	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			03/27/17 03:36	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			03/27/17 03:36	1
1,1-Dichloroethane	ND		0.080		ppb v/v			03/27/17 03:36	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/27/17 03:36	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			03/27/17 03:36	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			03/27/17 03:36	1
1,2-Dibromoethane	ND		0.080		ppb v/v			03/27/17 03:36	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			03/27/17 03:36	1
1,2-Dichloroethane	ND		0.080		ppb v/v			03/27/17 03:36	1
1,2-Dichloropropane	ND		0.080		ppb v/v			03/27/17 03:36	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			03/27/17 03:36	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			03/27/17 03:36	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			03/27/17 03:36	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			03/27/17 03:36	1
1,4-Dioxane	ND		0.20		ppb v/v			03/27/17 03:36	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			03/27/17 03:36	1
2-Butanone	0.35		0.32		ppb v/v			03/27/17 03:36	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			03/27/17 03:36	1
Benzene	0.23		0.080		ppb v/v			03/27/17 03:36	1
Benzyl chloride	ND		0.16		ppb v/v			03/27/17 03:36	1
Bromodichloromethane	ND		0.080		ppb v/v			03/27/17 03:36	1
Bromoform	ND		0.080		ppb v/v			03/27/17 03:36	1
Bromomethane	ND		0.080		ppb v/v			03/27/17 03:36	1
Carbon tetrachloride	0.071		0.040		ppb v/v			03/27/17 03:36	1
Chlorobenzene	ND		0.080		ppb v/v			03/27/17 03:36	1
Chloroethane	ND		0.080		ppb v/v			03/27/17 03:36	1
Chloroform	ND		0.080		ppb v/v			03/27/17 03:36	1
Chloromethane	0.65		0.20		ppb v/v			03/27/17 03:36	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/27/17 03:36	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			03/27/17 03:36	1
Cyclohexane	ND		0.20		ppb v/v			03/27/17 03:36	1
Dibromochloromethane	ND		0.080		ppb v/v			03/27/17 03:36	1
Dichlorodifluoromethane	0.49		0.080		ppb v/v			03/27/17 03:36	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: OUTDOOR AMBIENT #1

Lab Sample ID: 140-7503-6

Date Collected: 03/11/17 10:11

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	7.6		2.0		ppb v/v			03/27/17 03:36	1
Ethylbenzene	ND		0.080		ppb v/v			03/27/17 03:36	1
Hexachlorobutadiene	ND		0.080		ppb v/v			03/27/17 03:36	1
Hexane	ND		0.20		ppb v/v			03/27/17 03:36	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			03/27/17 03:36	1
Methylene Chloride	0.35		0.20		ppb v/v			03/27/17 03:36	1
m-Xylene & p-Xylene	0.24		0.080		ppb v/v			03/27/17 03:36	1
o-Xylene	0.089		0.080		ppb v/v			03/27/17 03:36	1
Styrene	ND		0.080		ppb v/v			03/27/17 03:36	1
t-Butyl alcohol	ND		0.32		ppb v/v			03/27/17 03:36	1
Tetrachloroethene	ND		0.080		ppb v/v			03/27/17 03:36	1
Toluene	0.38		0.12		ppb v/v			03/27/17 03:36	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/27/17 03:36	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			03/27/17 03:36	1
Trichloroethene	ND		0.040		ppb v/v			03/27/17 03:36	1
Trichlorofluoromethane	0.24		0.080		ppb v/v			03/27/17 03:36	1
Vinyl chloride	ND		0.040		ppb v/v			03/27/17 03:36	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/27/17 03:36	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			03/27/17 03:36	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			03/27/17 03:36	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			03/27/17 03:36	1
1,1-Dichloroethane	ND		0.32		ug/m3			03/27/17 03:36	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/27/17 03:36	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			03/27/17 03:36	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			03/27/17 03:36	1
1,2-Dibromoethane	ND		0.61		ug/m3			03/27/17 03:36	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			03/27/17 03:36	1
1,2-Dichloroethane	ND		0.32		ug/m3			03/27/17 03:36	1
1,2-Dichloropropane	ND		0.37		ug/m3			03/27/17 03:36	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			03/27/17 03:36	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			03/27/17 03:36	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			03/27/17 03:36	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			03/27/17 03:36	1
1,4-Dioxane	ND		0.72		ug/m3			03/27/17 03:36	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			03/27/17 03:36	1
2-Butanone	1.0		0.94		ug/m3			03/27/17 03:36	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			03/27/17 03:36	1
Benzene	0.72		0.26		ug/m3			03/27/17 03:36	1
Benzyl chloride	ND		0.83		ug/m3			03/27/17 03:36	1
Bromodichloromethane	ND		0.54		ug/m3			03/27/17 03:36	1
Bromoform	ND		0.83		ug/m3			03/27/17 03:36	1
Bromomethane	ND		0.31		ug/m3			03/27/17 03:36	1
Carbon tetrachloride	0.45		0.25		ug/m3			03/27/17 03:36	1
Chlorobenzene	ND		0.37		ug/m3			03/27/17 03:36	1
Chloroethane	ND		0.21		ug/m3			03/27/17 03:36	1
Chloroform	ND		0.39		ug/m3			03/27/17 03:36	1
Chloromethane	1.3		0.41		ug/m3			03/27/17 03:36	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: OUTDOOR AMBIENT #1

Lab Sample ID: 140-7503-6

Date Collected: 03/11/17 10:11

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/27/17 03:36	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			03/27/17 03:36	1
Cyclohexane	ND		0.69		ug/m3			03/27/17 03:36	1
Dibromochloromethane	ND		0.68		ug/m3			03/27/17 03:36	1
Dichlorodifluoromethane	2.4		0.40		ug/m3			03/27/17 03:36	1
Ethanol	14		3.8		ug/m3			03/27/17 03:36	1
Ethylbenzene	ND		0.35		ug/m3			03/27/17 03:36	1
Hexachlorobutadiene	ND		0.85		ug/m3			03/27/17 03:36	1
Hexane	ND		0.70		ug/m3			03/27/17 03:36	1
Methyl tert-butyl ether	ND		0.58		ug/m3			03/27/17 03:36	1
Methylene Chloride	1.2		0.69		ug/m3			03/27/17 03:36	1
m-Xylene & p-Xylene	1.1		0.35		ug/m3			03/27/17 03:36	1
o-Xylene	0.39		0.35		ug/m3			03/27/17 03:36	1
Styrene	ND		0.34		ug/m3			03/27/17 03:36	1
t-Butyl alcohol	ND		0.97		ug/m3			03/27/17 03:36	1
Tetrachloroethene	ND		0.54		ug/m3			03/27/17 03:36	1
Toluene	1.4		0.45		ug/m3			03/27/17 03:36	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/27/17 03:36	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			03/27/17 03:36	1
Trichloroethene	ND		0.21		ug/m3			03/27/17 03:36	1
Trichlorofluoromethane	1.3		0.45		ug/m3			03/27/17 03:36	1
Vinyl chloride	ND		0.10		ug/m3			03/27/17 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		60 - 140					03/27/17 03:36	1

Client Sample ID: SUBSLAB #4

Lab Sample ID: 140-7503-7

Date Collected: 03/11/17 10:55

Matrix: Air

Date Received: 03/17/17 10:00

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			03/27/17 04:23	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			03/27/17 04:23	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			03/27/17 04:23	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			03/27/17 04:23	1
1,1-Dichloroethane	ND		0.080		ppb v/v			03/27/17 04:23	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/27/17 04:23	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			03/27/17 04:23	1
1,2,4-Trimethylbenzene	2.0		0.080		ppb v/v			03/27/17 04:23	1
1,2-Dibromoethane	ND		0.080		ppb v/v			03/27/17 04:23	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			03/27/17 04:23	1
1,2-Dichloroethane	ND		0.080		ppb v/v			03/27/17 04:23	1
1,2-Dichloropropane	ND		0.080		ppb v/v			03/27/17 04:23	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			03/27/17 04:23	1
1,3,5-Trimethylbenzene	0.53		0.080		ppb v/v			03/27/17 04:23	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			03/27/17 04:23	1
1,4-Dichlorobenzene	0.091		0.080		ppb v/v			03/27/17 04:23	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUBSLAB #4

Lab Sample ID: 140-7503-7

Date Collected: 03/11/17 10:55

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ppb v/v			03/27/17 04:23	1
2,2,4-Trimethylpentane	0.24		0.20		ppb v/v			03/27/17 04:23	1
2-Butanone	7.9		0.32		ppb v/v			03/27/17 04:23	1
4-Methyl-2-pentanone (MIBK)	56	E	0.20		ppb v/v			03/27/17 04:23	1
Benzene	0.28		0.080		ppb v/v			03/27/17 04:23	1
Benzyl chloride	ND		0.16		ppb v/v			03/27/17 04:23	1
Bromodichloromethane	ND		0.080		ppb v/v			03/27/17 04:23	1
Bromoform	ND		0.080		ppb v/v			03/27/17 04:23	1
Bromomethane	ND		0.080		ppb v/v			03/27/17 04:23	1
Carbon tetrachloride	0.068		0.040		ppb v/v			03/27/17 04:23	1
Chlorobenzene	ND		0.080		ppb v/v			03/27/17 04:23	1
Chloroethane	ND		0.080		ppb v/v			03/27/17 04:23	1
Chloroform	ND		0.080		ppb v/v			03/27/17 04:23	1
Chloromethane	ND		0.20		ppb v/v			03/27/17 04:23	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/27/17 04:23	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			03/27/17 04:23	1
Cyclohexane	ND		0.20		ppb v/v			03/27/17 04:23	1
Dibromochloromethane	ND		0.080		ppb v/v			03/27/17 04:23	1
Dichlorodifluoromethane	0.53		0.080		ppb v/v			03/27/17 04:23	1
Ethanol	3.4		2.0		ppb v/v			03/27/17 04:23	1
Ethylbenzene	0.89		0.080		ppb v/v			03/27/17 04:23	1
Hexachlorobutadiene	ND		0.080		ppb v/v			03/27/17 04:23	1
Hexane	0.26		0.20		ppb v/v			03/27/17 04:23	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			03/27/17 04:23	1
Methylene Chloride	0.26		0.20		ppb v/v			03/27/17 04:23	1
m-Xylene & p-Xylene	4.2		0.080		ppb v/v			03/27/17 04:23	1
o-Xylene	1.6		0.080		ppb v/v			03/27/17 04:23	1
Styrene	0.082		0.080		ppb v/v			03/27/17 04:23	1
t-Butyl alcohol	0.48		0.32		ppb v/v			03/27/17 04:23	1
Tetrachloroethene	8.4		0.080		ppb v/v			03/27/17 04:23	1
Toluene	3.1		0.12		ppb v/v			03/27/17 04:23	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/27/17 04:23	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			03/27/17 04:23	1
Trichloroethene	0.28		0.040		ppb v/v			03/27/17 04:23	1
Trichlorofluoromethane	0.25		0.080		ppb v/v			03/27/17 04:23	1
Vinyl chloride	ND		0.040		ppb v/v			03/27/17 04:23	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/27/17 04:23	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			03/27/17 04:23	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			03/27/17 04:23	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			03/27/17 04:23	1
1,1-Dichloroethane	ND		0.32		ug/m3			03/27/17 04:23	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/27/17 04:23	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			03/27/17 04:23	1
1,2,4-Trimethylbenzene	9.7		0.39		ug/m3			03/27/17 04:23	1
1,2-Dibromoethane	ND		0.61		ug/m3			03/27/17 04:23	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			03/27/17 04:23	1
1,2-Dichloroethane	ND		0.32		ug/m3			03/27/17 04:23	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUBSLAB #4

Lab Sample ID: 140-7503-7

Date Collected: 03/11/17 10:55

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.37		ug/m3			03/27/17 04:23	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			03/27/17 04:23	1
1,3,5-Trimethylbenzene	2.6		0.39		ug/m3			03/27/17 04:23	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			03/27/17 04:23	1
1,4-Dichlorobenzene	0.55		0.48		ug/m3			03/27/17 04:23	1
1,4-Dioxane	ND		0.72		ug/m3			03/27/17 04:23	1
2,2,4-Trimethylpentane	1.1		0.93		ug/m3			03/27/17 04:23	1
2-Butanone	23		0.94		ug/m3			03/27/17 04:23	1
4-Methyl-2-pentanone (MIBK)	230	E	0.82		ug/m3			03/27/17 04:23	1
Benzene	0.91		0.26		ug/m3			03/27/17 04:23	1
Benzyl chloride	ND		0.83		ug/m3			03/27/17 04:23	1
Bromodichloromethane	ND		0.54		ug/m3			03/27/17 04:23	1
Bromoform	ND		0.83		ug/m3			03/27/17 04:23	1
Bromomethane	ND		0.31		ug/m3			03/27/17 04:23	1
Carbon tetrachloride	0.43		0.25		ug/m3			03/27/17 04:23	1
Chlorobenzene	ND		0.37		ug/m3			03/27/17 04:23	1
Chloroethane	ND		0.21		ug/m3			03/27/17 04:23	1
Chloroform	ND		0.39		ug/m3			03/27/17 04:23	1
Chloromethane	ND		0.41		ug/m3			03/27/17 04:23	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/27/17 04:23	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			03/27/17 04:23	1
Cyclohexane	ND		0.69		ug/m3			03/27/17 04:23	1
Dibromochloromethane	ND		0.68		ug/m3			03/27/17 04:23	1
Dichlorodifluoromethane	2.6		0.40		ug/m3			03/27/17 04:23	1
Ethanol	6.3		3.8		ug/m3			03/27/17 04:23	1
Ethylbenzene	3.9		0.35		ug/m3			03/27/17 04:23	1
Hexachlorobutadiene	ND		0.85		ug/m3			03/27/17 04:23	1
Hexane	0.93		0.70		ug/m3			03/27/17 04:23	1
Methyl tert-butyl ether	ND		0.58		ug/m3			03/27/17 04:23	1
Methylene Chloride	0.90		0.69		ug/m3			03/27/17 04:23	1
m-Xylene & p-Xylene	18		0.35		ug/m3			03/27/17 04:23	1
o-Xylene	6.8		0.35		ug/m3			03/27/17 04:23	1
Styrene	0.35		0.34		ug/m3			03/27/17 04:23	1
t-Butyl alcohol	1.5		0.97		ug/m3			03/27/17 04:23	1
Tetrachloroethene	57		0.54		ug/m3			03/27/17 04:23	1
Toluene	12		0.45		ug/m3			03/27/17 04:23	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/27/17 04:23	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			03/27/17 04:23	1
Trichloroethene	1.5		0.21		ug/m3			03/27/17 04:23	1
Trichlorofluoromethane	1.4		0.45		ug/m3			03/27/17 04:23	1
Vinyl chloride	ND		0.10		ug/m3			03/27/17 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140		03/27/17 04:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	28	D	2.0		ppb v/v			03/29/17 04:28	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUBSLAB #4

Lab Sample ID: 140-7503-7

Date Collected: 03/11/17 10:55

Matrix: Air

Date Received: 03/17/17 10:00

Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	120	D	8.2		ug/m3			03/29/17 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		60 - 140					03/29/17 04:28	1

Default Detection Limits

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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
1,1,2,2-Tetrachloroethane	0.080	0.024	ppb v/v	TO 15 LL
1,1,2,2-Tetrachloroethane	0.55	0.16	ug/m3	TO 15 LL
1,1,2-Trichloroethane	0.080	0.021	ppb v/v	TO 15 LL
1,1,2-Trichloroethane	0.44	0.11	ug/m3	TO 15 LL
1,1,2-Trichlorotrifluoroethane	0.080	0.012	ppb v/v	TO 15 LL
1,1,2-Trichlorotrifluoroethane	0.61	0.092	ug/m3	TO 15 LL
1,1-Dichloroethane	0.080	0.010	ppb v/v	TO 15 LL
1,1-Dichloroethane	0.32	0.040	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
1,2,4-Trichlorobenzene	0.080	0.039	ppb v/v	TO 15 LL
1,2,4-Trichlorobenzene	0.59	0.29	ug/m3	TO 15 LL
1,2,4-Trimethylbenzene	0.080	0.025	ppb v/v	TO 15 LL
1,2,4-Trimethylbenzene	0.39	0.12	ug/m3	TO 15 LL
1,2-Dibromoethane	0.080	0.018	ppb v/v	TO 15 LL
1,2-Dibromoethane	0.61	0.14	ug/m3	TO 15 LL
1,2-Dichlorobenzene	0.080	0.028	ppb v/v	TO 15 LL
1,2-Dichlorobenzene	0.48	0.17	ug/m3	TO 15 LL
1,2-Dichloroethane	0.080	0.019	ppb v/v	TO 15 LL
1,2-Dichloroethane	0.32	0.077	ug/m3	TO 15 LL
1,2-Dichloropropane	0.080	0.021	ppb v/v	TO 15 LL
1,2-Dichloropropane	0.37	0.097	ug/m3	TO 15 LL
1,2-Dichlorotetrafluoroethane	0.080	0.013	ppb v/v	TO 15 LL
1,2-Dichlorotetrafluoroethane	0.56	0.091	ug/m3	TO 15 LL
1,3,5-Trimethylbenzene	0.080	0.026	ppb v/v	TO 15 LL
1,3,5-Trimethylbenzene	0.39	0.13	ug/m3	TO 15 LL
1,3-Dichlorobenzene	0.080	0.026	ppb v/v	TO 15 LL
1,3-Dichlorobenzene	0.48	0.16	ug/m3	TO 15 LL
1,4-Dichlorobenzene	0.080	0.026	ppb v/v	TO 15 LL
1,4-Dichlorobenzene	0.48	0.16	ug/m3	TO 15 LL
1,4-Dioxane	0.20	0.032	ppb v/v	TO 15 LL
1,4-Dioxane	0.72	0.12	ug/m3	TO 15 LL
2,2,4-Trimethylpentane	0.20	0.016	ppb v/v	TO 15 LL
2,2,4-Trimethylpentane	0.93	0.075	ug/m3	TO 15 LL
2-Butanone	0.32	0.080	ppb v/v	TO 15 LL
2-Butanone	0.94	0.24	ug/m3	TO 15 LL
4-Methyl-2-pentanone (MIBK)	0.20	0.018	ppb v/v	TO 15 LL
4-Methyl-2-pentanone (MIBK)	0.82	0.074	ug/m3	TO 15 LL
Benzene	0.080	0.023	ppb v/v	TO 15 LL
Benzene	0.26	0.073	ug/m3	TO 15 LL
Benzyl chloride	0.16	0.031	ppb v/v	TO 15 LL
Benzyl chloride	0.83	0.16	ug/m3	TO 15 LL
Bromodichloromethane	0.080	0.018	ppb v/v	TO 15 LL
Bromodichloromethane	0.54	0.12	ug/m3	TO 15 LL
Bromoform	0.080	0.019	ppb v/v	TO 15 LL
Bromoform	0.83	0.20	ug/m3	TO 15 LL
Bromomethane	0.080	0.013	ppb v/v	TO 15 LL
Bromomethane	0.31	0.050	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

Default Detection Limits

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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

Analyte	RL	MDL	Units	Method
Chlorobenzene	0.080	0.020	ppb v/v	TO 15 LL
Chlorobenzene	0.37	0.092	ug/m3	TO 15 LL
Chloroethane	0.080	0.014	ppb v/v	TO 15 LL
Chloroethane	0.21	0.037	ug/m3	TO 15 LL
Chloroform	0.080	0.015	ppb v/v	TO 15 LL
Chloroform	0.39	0.073	ug/m3	TO 15 LL
Chloromethane	0.20	0.064	ppb v/v	TO 15 LL
Chloromethane	0.41	0.13	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
cis-1,3-Dichloropropene	0.080	0.029	ppb v/v	TO 15 LL
cis-1,3-Dichloropropene	0.36	0.13	ug/m3	TO 15 LL
Cyclohexane	0.20	0.016	ppb v/v	TO 15 LL
Cyclohexane	0.69	0.055	ug/m3	TO 15 LL
Dibromochloromethane	0.080	0.017	ppb v/v	TO 15 LL
Dibromochloromethane	0.68	0.14	ug/m3	TO 15 LL
Dichlorodifluoromethane	0.080	0.027	ppb v/v	TO 15 LL
Dichlorodifluoromethane	0.40	0.13	ug/m3	TO 15 LL
Ethanol	2.0	0.64	ppb v/v	TO 15 LL
Ethanol	3.8	1.2	ug/m3	TO 15 LL
Ethylbenzene	0.080	0.027	ppb v/v	TO 15 LL
Ethylbenzene	0.35	0.12	ug/m3	TO 15 LL
Hexachlorobutadiene	0.080	0.049	ppb v/v	TO 15 LL
Hexachlorobutadiene	0.85	0.52	ug/m3	TO 15 LL
Hexane	0.20	0.013	ppb v/v	TO 15 LL
Hexane	0.70	0.046	ug/m3	TO 15 LL
Methyl tert-butyl ether	0.16	0.068	ppb v/v	TO 15 LL
Methyl tert-butyl ether	0.58	0.25	ug/m3	TO 15 LL
Methylene Chloride	0.20	0.13	ppb v/v	TO 15 LL
Methylene Chloride	0.69	0.45	ug/m3	TO 15 LL
m-Xylene & p-Xylene	0.080	0.053	ppb v/v	TO 15 LL
m-Xylene & p-Xylene	0.35	0.23	ug/m3	TO 15 LL
o-Xylene	0.080	0.024	ppb v/v	TO 15 LL
o-Xylene	0.35	0.10	ug/m3	TO 15 LL
Styrene	0.080	0.023	ppb v/v	TO 15 LL
Styrene	0.34	0.098	ug/m3	TO 15 LL
t-Butyl alcohol	0.32	0.015	ppb v/v	TO 15 LL
t-Butyl alcohol	0.97	0.045	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
Toluene	0.12	0.12	ppb v/v	TO 15 LL
Toluene	0.45	0.45	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
trans-1,3-Dichloropropene	0.080	0.019	ppb v/v	TO 15 LL
trans-1,3-Dichloropropene	0.36	0.086	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
Trichlorofluoromethane	0.080	0.010	ppb v/v	TO 15 LL
Trichlorofluoromethane	0.45	0.056	ug/m3	TO 15 LL
Vinyl chloride	0.040	0.029	ppb v/v	TO 15 LL
Vinyl chloride	0.10	0.074	ug/m3	TO 15 LL

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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)
140-7503-1	SUB SLAB #1	102
140-7503-2	AMBIENT #1	98
140-7503-3	SUB SLAB #2	100
140-7503-4	AMBIENT #2	103
140-7503-4 - DL	AMBIENT #2	101
140-7503-5	AMBIENT #3	98
140-7503-5 - DL	AMBIENT #3	102
140-7503-6	OUTDOOR AMBIENT #1	97
140-7503-7	SUBSLAB #4	101
140-7503-7 - DL	SUBSLAB #4	104
LCS 140-9850/1002	Lab Control Sample	101
LCS 140-9922/1006	Lab Control Sample	109
MB 140-9850/15	Method Blank	98
MB 140-9922/8	Method Blank	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: New York State D.E.C.
 Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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

Lab Sample ID: MB 140-9850/15
Matrix: Air
Analysis Batch: 9850

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/26/17 22:05	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			03/26/17 22:05	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			03/26/17 22:05	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			03/26/17 22:05	1
1,1-Dichloroethane	ND		0.080		ppb v/v			03/26/17 22:05	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/26/17 22:05	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			03/26/17 22:05	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			03/26/17 22:05	1
1,2-Dibromoethane	ND		0.080		ppb v/v			03/26/17 22:05	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			03/26/17 22:05	1
1,2-Dichloroethane	ND		0.080		ppb v/v			03/26/17 22:05	1
1,2-Dichloropropane	ND		0.080		ppb v/v			03/26/17 22:05	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			03/26/17 22:05	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			03/26/17 22:05	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			03/26/17 22:05	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			03/26/17 22:05	1
1,4-Dioxane	ND		0.20		ppb v/v			03/26/17 22:05	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			03/26/17 22:05	1
2-Butanone	ND		0.32		ppb v/v			03/26/17 22:05	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			03/26/17 22:05	1
Benzene	ND		0.080		ppb v/v			03/26/17 22:05	1
Benzyl chloride	ND		0.16		ppb v/v			03/26/17 22:05	1
Bromodichloromethane	ND		0.080		ppb v/v			03/26/17 22:05	1
Bromoform	ND		0.080		ppb v/v			03/26/17 22:05	1
Bromomethane	ND		0.080		ppb v/v			03/26/17 22:05	1
Carbon tetrachloride	ND		0.040		ppb v/v			03/26/17 22:05	1
Chlorobenzene	ND		0.080		ppb v/v			03/26/17 22:05	1
Chloroethane	ND		0.080		ppb v/v			03/26/17 22:05	1
Chloroform	ND		0.080		ppb v/v			03/26/17 22:05	1
Chloromethane	ND		0.20		ppb v/v			03/26/17 22:05	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/26/17 22:05	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			03/26/17 22:05	1
Cyclohexane	ND		0.20		ppb v/v			03/26/17 22:05	1
Dibromochloromethane	ND		0.080		ppb v/v			03/26/17 22:05	1
Dichlorodifluoromethane	ND		0.080		ppb v/v			03/26/17 22:05	1
Ethanol	ND		2.0		ppb v/v			03/26/17 22:05	1
Ethylbenzene	ND		0.080		ppb v/v			03/26/17 22:05	1
Hexachlorobutadiene	ND		0.080		ppb v/v			03/26/17 22:05	1
Hexane	ND		0.20		ppb v/v			03/26/17 22:05	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			03/26/17 22:05	1
Methylene Chloride	ND		0.20		ppb v/v			03/26/17 22:05	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			03/26/17 22:05	1
o-Xylene	ND		0.080		ppb v/v			03/26/17 22:05	1
Styrene	ND		0.080		ppb v/v			03/26/17 22:05	1
t-Butyl alcohol	ND		0.32		ppb v/v			03/26/17 22:05	1
Tetrachloroethene	ND		0.080		ppb v/v			03/26/17 22:05	1
Toluene	ND		0.12		ppb v/v			03/26/17 22:05	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/26/17 22:05	1

QC Sample Results

Client: New York State D.E.C.
 Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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

Lab Sample ID: MB 140-9850/15
Matrix: Air
Analysis Batch: 9850

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			03/26/17 22:05	1
Trichloroethene	ND		0.040		ppb v/v			03/26/17 22:05	1
Trichlorofluoromethane	ND		0.080		ppb v/v			03/26/17 22:05	1
Vinyl chloride	ND		0.040		ppb v/v			03/26/17 22:05	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/26/17 22:05	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			03/26/17 22:05	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			03/26/17 22:05	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			03/26/17 22:05	1
1,1-Dichloroethane	ND		0.32		ug/m3			03/26/17 22:05	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/26/17 22:05	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			03/26/17 22:05	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			03/26/17 22:05	1
1,2-Dibromoethane	ND		0.61		ug/m3			03/26/17 22:05	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			03/26/17 22:05	1
1,2-Dichloroethane	ND		0.32		ug/m3			03/26/17 22:05	1
1,2-Dichloropropane	ND		0.37		ug/m3			03/26/17 22:05	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			03/26/17 22:05	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			03/26/17 22:05	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			03/26/17 22:05	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			03/26/17 22:05	1
1,4-Dioxane	ND		0.72		ug/m3			03/26/17 22:05	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			03/26/17 22:05	1
2-Butanone	ND		0.94		ug/m3			03/26/17 22:05	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			03/26/17 22:05	1
Benzene	ND		0.26		ug/m3			03/26/17 22:05	1
Benzyl chloride	ND		0.83		ug/m3			03/26/17 22:05	1
Bromodichloromethane	ND		0.54		ug/m3			03/26/17 22:05	1
Bromoform	ND		0.83		ug/m3			03/26/17 22:05	1
Bromomethane	ND		0.31		ug/m3			03/26/17 22:05	1
Carbon tetrachloride	ND		0.25		ug/m3			03/26/17 22:05	1
Chlorobenzene	ND		0.37		ug/m3			03/26/17 22:05	1
Chloroethane	ND		0.21		ug/m3			03/26/17 22:05	1
Chloroform	ND		0.39		ug/m3			03/26/17 22:05	1
Chloromethane	ND		0.41		ug/m3			03/26/17 22:05	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/26/17 22:05	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			03/26/17 22:05	1
Cyclohexane	ND		0.69		ug/m3			03/26/17 22:05	1
Dibromochloromethane	ND		0.68		ug/m3			03/26/17 22:05	1
Dichlorodifluoromethane	ND		0.40		ug/m3			03/26/17 22:05	1
Ethanol	ND		3.8		ug/m3			03/26/17 22:05	1
Ethylbenzene	ND		0.35		ug/m3			03/26/17 22:05	1
Hexachlorobutadiene	ND		0.85		ug/m3			03/26/17 22:05	1
Hexane	ND		0.70		ug/m3			03/26/17 22:05	1
Methyl tert-butyl ether	ND		0.58		ug/m3			03/26/17 22:05	1
Methylene Chloride	ND		0.69		ug/m3			03/26/17 22:05	1

QC Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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

Lab Sample ID: MB 140-9850/15
Matrix: Air
Analysis Batch: 9850

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
m-Xylene & p-Xylene	ND		0.35		ug/m3			03/26/17 22:05	1
o-Xylene	ND		0.35		ug/m3			03/26/17 22:05	1
Styrene	ND		0.34		ug/m3			03/26/17 22:05	1
t-Butyl alcohol	ND		0.97		ug/m3			03/26/17 22:05	1
Tetrachloroethene	ND		0.54		ug/m3			03/26/17 22:05	1
Toluene	ND		0.45		ug/m3			03/26/17 22:05	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/26/17 22:05	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			03/26/17 22:05	1
Trichloroethene	ND		0.21		ug/m3			03/26/17 22:05	1
Trichlorofluoromethane	ND		0.45		ug/m3			03/26/17 22:05	1
Vinyl chloride	ND		0.10		ug/m3			03/26/17 22:05	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140					03/26/17 22:05	1

Lab Sample ID: LCS 140-9850/1002
Matrix: Air
Analysis Batch: 9850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	2.00	1.72		ppb v/v		86	70 - 130
1,1,2-Trichloroethane	2.00	1.81		ppb v/v		90	70 - 130
1,1,2-Trichlorotrifluoroethane	2.00	2.20		ppb v/v		110	70 - 130
1,1-Dichloroethane	2.00	2.06		ppb v/v		103	70 - 130
1,1-Dichloroethene	2.00	2.18		ppb v/v		109	70 - 130
1,2,4-Trichlorobenzene	2.00	1.60		ppb v/v		80	60 - 140
1,2,4-Trimethylbenzene	2.00	1.72		ppb v/v		86	70 - 130
1,2-Dibromoethane	2.00	1.92		ppb v/v		96	70 - 130
1,2-Dichlorobenzene	2.00	1.67		ppb v/v		84	70 - 130
1,2-Dichloroethane	2.00	2.03		ppb v/v		101	70 - 130
1,2-Dichloropropane	2.00	1.82		ppb v/v		91	70 - 130
1,2-Dichlorotetrafluoroethane	2.00	2.56		ppb v/v		128	60 - 140
1,3,5-Trimethylbenzene	2.00	1.69		ppb v/v		84	70 - 130
1,3-Dichlorobenzene	2.00	1.71		ppb v/v		85	70 - 130
1,4-Dichlorobenzene	2.00	1.65		ppb v/v		82	70 - 130
1,4-Dioxane	2.00	1.84		ppb v/v		92	60 - 140
2,2,4-Trimethylpentane	2.00	1.94		ppb v/v		97	70 - 130
2-Butanone	2.00	1.64		ppb v/v		82	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	1.85		ppb v/v		92	60 - 140
Benzene	2.00	1.89		ppb v/v		94	70 - 130
Benzyl chloride	2.00	1.63		ppb v/v		81	70 - 130
Bromodichloromethane	2.00	2.02		ppb v/v		101	70 - 130
Bromoform	2.00	1.80		ppb v/v		90	60 - 140
Bromomethane	2.00	1.96		ppb v/v		98	70 - 130
Carbon tetrachloride	2.00	2.18		ppb v/v		109	70 - 130
Chlorobenzene	2.00	1.86		ppb v/v		93	70 - 130

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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

Lab Sample ID: LCS 140-9850/1002

Matrix: Air

Analysis Batch: 9850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	2.00	2.09		ppb v/v		104	70 - 130
Chloroform	2.00	1.97		ppb v/v		98	70 - 130
Chloromethane	2.00	1.92		ppb v/v		96	60 - 140
cis-1,2-Dichloroethene	2.00	2.03		ppb v/v		101	70 - 130
cis-1,3-Dichloropropene	2.00	1.94		ppb v/v		97	70 - 130
Cyclohexane	2.00	2.22		ppb v/v		111	70 - 130
Dibromochloromethane	2.00	2.02		ppb v/v		101	70 - 130
Dichlorodifluoromethane	2.00	2.19		ppb v/v		109	60 - 140
Ethanol	10.0	8.94		ppb v/v		89	60 - 140
Ethylbenzene	2.00	1.62		ppb v/v		81	70 - 130
Hexachlorobutadiene	2.00	1.70		ppb v/v		85	60 - 140
Hexane	2.00	2.14		ppb v/v		107	70 - 130
Methyl tert-butyl ether	2.00	1.78		ppb v/v		89	60 - 140
Methylene Chloride	2.00	2.00		ppb v/v		100	70 - 130
m-Xylene & p-Xylene	4.00	3.25		ppb v/v		81	70 - 130
o-Xylene	2.00	1.61		ppb v/v		80	70 - 130
Styrene	2.00	1.65		ppb v/v		82	70 - 130
t-Butyl alcohol	2.00	2.06		ppb v/v		103	60 - 140
Tetrachloroethene	2.00	1.97		ppb v/v		99	70 - 130
Toluene	2.00	1.74		ppb v/v		87	70 - 130
trans-1,2-Dichloroethene	2.00	2.16		ppb v/v		108	70 - 130
trans-1,3-Dichloropropene	2.00	1.79		ppb v/v		89	70 - 130
Trichloroethene	2.00	2.07		ppb v/v		103	70 - 130
Trichlorofluoromethane	2.00	2.25		ppb v/v		112	60 - 140
Vinyl chloride	2.00	2.03		ppb v/v		102	70 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	11.4		ug/m3		104	70 - 130
1,1,1,2-Tetrachloroethane	14	11.8		ug/m3		86	70 - 130
1,1,2-Trichloroethane	11	9.87		ug/m3		90	70 - 130
1,1,2-Trichlorotrifluoroethane	15	16.9		ug/m3		110	70 - 130
1,1-Dichloroethane	8.1	8.32		ug/m3		103	70 - 130
1,1-Dichloroethene	7.9	8.63		ug/m3		109	70 - 130
1,2,4-Trichlorobenzene	15	11.9		ug/m3		80	60 - 140
1,2,4-Trimethylbenzene	9.8	8.47		ug/m3		86	70 - 130
1,2-Dibromoethane	15	14.7		ug/m3		96	70 - 130
1,2-Dichlorobenzene	12	10.1		ug/m3		84	70 - 130
1,2-Dichloroethane	8.1	8.21		ug/m3		101	70 - 130
1,2-Dichloropropane	9.2	8.42		ug/m3		91	70 - 130
1,2-Dichlorotetrafluoroethane	14	17.9		ug/m3		128	60 - 140
1,3,5-Trimethylbenzene	9.8	8.30		ug/m3		84	70 - 130
1,3-Dichlorobenzene	12	10.3		ug/m3		85	70 - 130
1,4-Dichlorobenzene	12	9.91		ug/m3		82	70 - 130
1,4-Dioxane	7.2	6.65		ug/m3		92	60 - 140
2,2,4-Trimethylpentane	9.4	9.08		ug/m3		97	70 - 130
2-Butanone	5.9	4.82		ug/m3		82	60 - 140
4-Methyl-2-pentanone (MIBK)	8.2	7.57		ug/m3		92	60 - 140

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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

Lab Sample ID: LCS 140-9850/1002

Matrix: Air

Analysis Batch: 9850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Benzene	6.4	6.03		ug/m3		94	70 - 130	
Benzyl chloride	10	8.44		ug/m3		81	70 - 130	
Bromodichloromethane	13	13.5		ug/m3		101	70 - 130	
Bromoform	21	18.6		ug/m3		90	60 - 140	
Bromomethane	7.8	7.61		ug/m3		98	70 - 130	
Carbon tetrachloride	13	13.7		ug/m3		109	70 - 130	
Chlorobenzene	9.2	8.58		ug/m3		93	70 - 130	
Chloroethane	5.3	5.52		ug/m3		104	70 - 130	
Chloroform	9.8	9.60		ug/m3		98	70 - 130	
Chloromethane	4.1	3.97		ug/m3		96	60 - 140	
cis-1,2-Dichloroethene	7.9	8.03		ug/m3		101	70 - 130	
cis-1,3-Dichloropropene	9.1	8.82		ug/m3		97	70 - 130	
Cyclohexane	6.9	7.62		ug/m3		111	70 - 130	
Dibromochloromethane	17	17.2		ug/m3		101	70 - 130	
Dichlorodifluoromethane	9.9	10.8		ug/m3		109	60 - 140	
Ethanol	19	16.9		ug/m3		89	60 - 140	
Ethylbenzene	8.7	7.02		ug/m3		81	70 - 130	
Hexachlorobutadiene	21	18.1		ug/m3		85	60 - 140	
Hexane	7.1	7.56		ug/m3		107	70 - 130	
Methyl tert-butyl ether	7.2	6.40		ug/m3		89	60 - 140	
Methylene Chloride	7.0	6.96		ug/m3		100	70 - 130	
m-Xylene & p-Xylene	17	14.1		ug/m3		81	70 - 130	
o-Xylene	8.7	6.97		ug/m3		80	70 - 130	
Styrene	8.5	7.03		ug/m3		82	70 - 130	
t-Butyl alcohol	6.1	6.26		ug/m3		103	60 - 140	
Tetrachloroethene	14	13.4		ug/m3		99	70 - 130	
Toluene	7.5	6.58		ug/m3		87	70 - 130	
trans-1,2-Dichloroethene	7.9	8.56		ug/m3		108	70 - 130	
trans-1,3-Dichloropropene	9.1	8.11		ug/m3		89	70 - 130	
Trichloroethene	11	11.1		ug/m3		103	70 - 130	
Trichlorofluoromethane	11	12.6		ug/m3		112	60 - 140	
Vinyl chloride	5.1	5.20		ug/m3		102	70 - 130	

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

Lab Sample ID: MB 140-9922/8

Matrix: Air

Analysis Batch: 9922

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.080		ppb v/v			03/28/17 16:44	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			03/28/17 16:44	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			03/28/17 16:44	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			03/28/17 16:44	1
1,1-Dichloroethane	ND		0.080		ppb v/v			03/28/17 16:44	1
1,1-Dichloroethene	ND		0.080		ppb v/v			03/28/17 16:44	1

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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

Lab Sample ID: MB 140-9922/8
Matrix: Air
Analysis Batch: 9922

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			03/28/17 16:44	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			03/28/17 16:44	1
1,2-Dibromoethane	ND		0.080		ppb v/v			03/28/17 16:44	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			03/28/17 16:44	1
1,2-Dichloroethane	ND		0.080		ppb v/v			03/28/17 16:44	1
1,2-Dichloropropane	ND		0.080		ppb v/v			03/28/17 16:44	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			03/28/17 16:44	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			03/28/17 16:44	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			03/28/17 16:44	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			03/28/17 16:44	1
1,4-Dioxane	ND		0.20		ppb v/v			03/28/17 16:44	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			03/28/17 16:44	1
2-Butanone	ND		0.32		ppb v/v			03/28/17 16:44	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			03/28/17 16:44	1
Benzene	ND		0.080		ppb v/v			03/28/17 16:44	1
Benzyl chloride	ND		0.16		ppb v/v			03/28/17 16:44	1
Bromodichloromethane	ND		0.080		ppb v/v			03/28/17 16:44	1
Bromoform	ND		0.080		ppb v/v			03/28/17 16:44	1
Bromomethane	ND		0.080		ppb v/v			03/28/17 16:44	1
Carbon tetrachloride	ND		0.040		ppb v/v			03/28/17 16:44	1
Chlorobenzene	ND		0.080		ppb v/v			03/28/17 16:44	1
Chloroethane	ND		0.080		ppb v/v			03/28/17 16:44	1
Chloroform	ND		0.080		ppb v/v			03/28/17 16:44	1
Chloromethane	ND		0.20		ppb v/v			03/28/17 16:44	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			03/28/17 16:44	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			03/28/17 16:44	1
Cyclohexane	ND		0.20		ppb v/v			03/28/17 16:44	1
Dibromochloromethane	ND		0.080		ppb v/v			03/28/17 16:44	1
Dichlorodifluoromethane	ND		0.080		ppb v/v			03/28/17 16:44	1
Ethanol	ND		2.0		ppb v/v			03/28/17 16:44	1
Ethylbenzene	ND		0.080		ppb v/v			03/28/17 16:44	1
Hexachlorobutadiene	ND		0.080		ppb v/v			03/28/17 16:44	1
Hexane	ND		0.20		ppb v/v			03/28/17 16:44	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			03/28/17 16:44	1
Methylene Chloride	ND		0.20		ppb v/v			03/28/17 16:44	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			03/28/17 16:44	1
o-Xylene	ND		0.080		ppb v/v			03/28/17 16:44	1
Styrene	ND		0.080		ppb v/v			03/28/17 16:44	1
t-Butyl alcohol	ND		0.32		ppb v/v			03/28/17 16:44	1
Tetrachloroethene	ND		0.080		ppb v/v			03/28/17 16:44	1
Toluene	ND		0.12		ppb v/v			03/28/17 16:44	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			03/28/17 16:44	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			03/28/17 16:44	1
Trichloroethene	ND		0.040		ppb v/v			03/28/17 16:44	1
Trichlorofluoromethane	ND		0.080		ppb v/v			03/28/17 16:44	1
Vinyl chloride	ND		0.040		ppb v/v			03/28/17 16:44	1

QC Sample Results

Client: New York State D.E.C.

TestAmerica Job ID: 140-7503-1

Project/Site: Former Melrose Ave. #203009

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.44		ug/m3			03/28/17 16:44	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			03/28/17 16:44	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			03/28/17 16:44	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			03/28/17 16:44	1
1,1-Dichloroethane	ND		0.32		ug/m3			03/28/17 16:44	1
1,1-Dichloroethene	ND		0.32		ug/m3			03/28/17 16:44	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			03/28/17 16:44	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			03/28/17 16:44	1
1,2-Dibromoethane	ND		0.61		ug/m3			03/28/17 16:44	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			03/28/17 16:44	1
1,2-Dichloroethane	ND		0.32		ug/m3			03/28/17 16:44	1
1,2-Dichloropropane	ND		0.37		ug/m3			03/28/17 16:44	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			03/28/17 16:44	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			03/28/17 16:44	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			03/28/17 16:44	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			03/28/17 16:44	1
1,4-Dioxane	ND		0.72		ug/m3			03/28/17 16:44	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			03/28/17 16:44	1
2-Butanone	ND		0.94		ug/m3			03/28/17 16:44	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			03/28/17 16:44	1
Benzene	ND		0.26		ug/m3			03/28/17 16:44	1
Benzyl chloride	ND		0.83		ug/m3			03/28/17 16:44	1
Bromodichloromethane	ND		0.54		ug/m3			03/28/17 16:44	1
Bromoform	ND		0.83		ug/m3			03/28/17 16:44	1
Bromomethane	ND		0.31		ug/m3			03/28/17 16:44	1
Carbon tetrachloride	ND		0.25		ug/m3			03/28/17 16:44	1
Chlorobenzene	ND		0.37		ug/m3			03/28/17 16:44	1
Chloroethane	ND		0.21		ug/m3			03/28/17 16:44	1
Chloroform	ND		0.39		ug/m3			03/28/17 16:44	1
Chloromethane	ND		0.41		ug/m3			03/28/17 16:44	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			03/28/17 16:44	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			03/28/17 16:44	1
Cyclohexane	ND		0.69		ug/m3			03/28/17 16:44	1
Dibromochloromethane	ND		0.68		ug/m3			03/28/17 16:44	1
Dichlorodifluoromethane	ND		0.40		ug/m3			03/28/17 16:44	1
Ethanol	ND		3.8		ug/m3			03/28/17 16:44	1
Ethylbenzene	ND		0.35		ug/m3			03/28/17 16:44	1
Hexachlorobutadiene	ND		0.85		ug/m3			03/28/17 16:44	1
Hexane	ND		0.70		ug/m3			03/28/17 16:44	1
Methyl tert-butyl ether	ND		0.58		ug/m3			03/28/17 16:44	1
Methylene Chloride	ND		0.69		ug/m3			03/28/17 16:44	1
m-Xylene & p-Xylene	ND		0.35		ug/m3			03/28/17 16:44	1
o-Xylene	ND		0.35		ug/m3			03/28/17 16:44	1
Styrene	ND		0.34		ug/m3			03/28/17 16:44	1
t-Butyl alcohol	ND		0.97		ug/m3			03/28/17 16:44	1
Tetrachloroethene	ND		0.54		ug/m3			03/28/17 16:44	1
Toluene	ND		0.45		ug/m3			03/28/17 16:44	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			03/28/17 16:44	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			03/28/17 16:44	1
Trichloroethene	ND		0.21		ug/m3			03/28/17 16:44	1
Trichlorofluoromethane	ND		0.45		ug/m3			03/28/17 16:44	1
Vinyl chloride	ND		0.10		ug/m3			03/28/17 16:44	1

QC Sample Results

Client: New York State D.E.C.
 Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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

Lab Sample ID: MB 140-9922/8
Matrix: Air
Analysis Batch: 9922

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104	Qualifier	60 - 140		03/28/17 16:44	1

Lab Sample ID: LCS 140-9922/1006
Matrix: Air
Analysis Batch: 9922

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	2.30		ppb v/v		115	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.16		ppb v/v		108	70 - 130
1,1,2-Trichloroethane	2.00	2.03		ppb v/v		102	70 - 130
1,1,2-Trichlorotrifluoroethane	2.00	2.26		ppb v/v		113	70 - 130
1,1-Dichloroethane	2.00	1.97		ppb v/v		98	70 - 130
1,1-Dichloroethene	2.00	2.13		ppb v/v		106	70 - 130
1,2,4-Trichlorobenzene	2.00	2.50		ppb v/v		125	60 - 140
1,2,4-Trimethylbenzene	2.00	2.25		ppb v/v		113	70 - 130
1,2-Dibromoethane	2.00	2.22		ppb v/v		111	70 - 130
1,2-Dichlorobenzene	2.00	2.19		ppb v/v		110	70 - 130
1,2-Dichloroethane	2.00	2.23		ppb v/v		111	70 - 130
1,2-Dichloropropane	2.00	1.96		ppb v/v		98	70 - 130
1,2-Dichlorotetrafluoroethane	2.00	2.24		ppb v/v		112	60 - 140
1,3,5-Trimethylbenzene	2.00	2.23		ppb v/v		112	70 - 130
1,3-Dichlorobenzene	2.00	2.20		ppb v/v		110	70 - 130
1,4-Dichlorobenzene	2.00	2.19		ppb v/v		109	70 - 130
1,4-Dioxane	2.00	2.02		ppb v/v		101	60 - 140
2,2,4-Trimethylpentane	2.00	1.98		ppb v/v		99	70 - 130
2-Butanone	2.00	1.90		ppb v/v		95	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	2.04		ppb v/v		102	60 - 140
Benzene	2.00	1.95		ppb v/v		97	70 - 130
Benzyl chloride	2.00	2.33		ppb v/v		116	70 - 130
Bromodichloromethane	2.00	2.37		ppb v/v		118	70 - 130
Bromoform	2.00	2.56		ppb v/v		128	60 - 140
Bromomethane	2.00	2.03		ppb v/v		101	70 - 130
Carbon tetrachloride	2.00	2.52		ppb v/v		126	70 - 130
Chlorobenzene	2.00	2.09		ppb v/v		105	70 - 130
Chloroethane	2.00	1.92		ppb v/v		96	70 - 130
Chloroform	2.00	2.18		ppb v/v		109	70 - 130
Chloromethane	2.00	1.82		ppb v/v		91	60 - 140
cis-1,2-Dichloroethene	2.00	2.05		ppb v/v		103	70 - 130
cis-1,3-Dichloropropene	2.00	2.16		ppb v/v		108	70 - 130
Cyclohexane	2.00	2.05		ppb v/v		102	70 - 130
Dibromochloromethane	2.00	2.40		ppb v/v		120	70 - 130
Dichlorodifluoromethane	2.00	2.26		ppb v/v		113	60 - 140
Ethanol	10.0	9.17		ppb v/v		92	60 - 140
Ethylbenzene	2.00	2.15		ppb v/v		107	70 - 130
Hexachlorobutadiene	2.00	2.49		ppb v/v		124	60 - 140
Hexane	2.00	1.84		ppb v/v		92	70 - 130
Methyl tert-butyl ether	2.00	2.07		ppb v/v		104	60 - 140

QC Sample Results

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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

Lab Sample ID: LCS 140-9922/1006
Matrix: Air
Analysis Batch: 9922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	2.00	1.96		ppb v/v		98	70 - 130
m-Xylene & p-Xylene	4.00	4.41		ppb v/v		110	70 - 130
o-Xylene	2.00	2.15		ppb v/v		107	70 - 130
Styrene	2.00	2.34		ppb v/v		117	70 - 130
t-Butyl alcohol	2.00	2.13		ppb v/v		106	60 - 140
Tetrachloroethene	2.00	2.19		ppb v/v		110	70 - 130
Toluene	2.00	2.09		ppb v/v		105	70 - 130
trans-1,2-Dichloroethene	2.00	2.01		ppb v/v		100	70 - 130
trans-1,3-Dichloropropene	2.00	2.23		ppb v/v		111	70 - 130
Trichloroethene	2.00	2.11		ppb v/v		105	70 - 130
Trichlorofluoromethane	2.00	2.38		ppb v/v		119	60 - 140
Vinyl chloride	2.00	1.95		ppb v/v		98	70 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.6		ug/m3		115	70 - 130
1,1,1,2-Tetrachloroethane	14	14.8		ug/m3		108	70 - 130
1,1,2-Trichloroethane	11	11.1		ug/m3		102	70 - 130
1,1,2-Trichlorotrifluoroethane	15	17.3		ug/m3		113	70 - 130
1,1-Dichloroethane	8.1	7.96		ug/m3		98	70 - 130
1,1-Dichloroethene	7.9	8.44		ug/m3		106	70 - 130
1,2,4-Trichlorobenzene	15	18.5		ug/m3		125	60 - 140
1,2,4-Trimethylbenzene	9.8	11.1		ug/m3		113	70 - 130
1,2-Dibromoethane	15	17.1		ug/m3		111	70 - 130
1,2-Dichlorobenzene	12	13.2		ug/m3		110	70 - 130
1,2-Dichloroethane	8.1	9.02		ug/m3		111	70 - 130
1,2-Dichloropropane	9.2	9.08		ug/m3		98	70 - 130
1,2-Dichlorotetrafluoroethane	14	15.7		ug/m3		112	60 - 140
1,3,5-Trimethylbenzene	9.8	11.0		ug/m3		112	70 - 130
1,3-Dichlorobenzene	12	13.2		ug/m3		110	70 - 130
1,4-Dichlorobenzene	12	13.1		ug/m3		109	70 - 130
1,4-Dioxane	7.2	7.27		ug/m3		101	60 - 140
2,2,4-Trimethylpentane	9.3	9.25		ug/m3		99	70 - 130
2-Butanone	5.9	5.60		ug/m3		95	60 - 140
4-Methyl-2-pentanone (MIBK)	8.2	8.36		ug/m3		102	60 - 140
Benzene	6.4	6.23		ug/m3		97	70 - 130
Benzyl chloride	10	12.1		ug/m3		116	70 - 130
Bromodichloromethane	13	15.9		ug/m3		118	70 - 130
Bromoform	21	26.5		ug/m3		128	60 - 140
Bromomethane	7.8	7.88		ug/m3		101	70 - 130
Carbon tetrachloride	13	15.9		ug/m3		126	70 - 130
Chlorobenzene	9.2	9.64		ug/m3		105	70 - 130
Chloroethane	5.3	5.07		ug/m3		96	70 - 130
Chloroform	9.8	10.6		ug/m3		109	70 - 130
Chloromethane	4.1	3.75		ug/m3		91	60 - 140
cis-1,2-Dichloroethene	7.9	8.15		ug/m3		103	70 - 130
cis-1,3-Dichloropropene	9.1	9.79		ug/m3		108	70 - 130
Cyclohexane	6.9	7.05		ug/m3		102	70 - 130

QC Sample Results

Client: New York State D.E.C.
 Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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

Lab Sample ID: LCS 140-9922/1006
Matrix: Air
Analysis Batch: 9922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Dibromochloromethane	17	20.5		ug/m3		120	70 - 130
Dichlorodifluoromethane	9.9	11.2		ug/m3		113	60 - 140
Ethanol	19	17.3		ug/m3		92	60 - 140
Ethylbenzene	8.7	9.32		ug/m3		107	70 - 130
Hexachlorobutadiene	21	26.6		ug/m3		124	60 - 140
Hexane	7.1	6.49		ug/m3		92	70 - 130
Methyl tert-butyl ether	7.2	7.48		ug/m3		104	60 - 140
Methylene Chloride	7.0	6.83		ug/m3		98	70 - 130
m-Xylene & p-Xylene	17	19.1		ug/m3		110	70 - 130
o-Xylene	8.7	9.32		ug/m3		107	70 - 130
Styrene	8.5	9.97		ug/m3		117	70 - 130
t-Butyl alcohol	6.1	6.46		ug/m3		106	60 - 140
Tetrachloroethene	14	14.9		ug/m3		110	70 - 130
Toluene	7.5	7.88		ug/m3		105	70 - 130
trans-1,2-Dichloroethene	7.9	7.96		ug/m3		100	70 - 130
trans-1,3-Dichloropropene	9.1	10.1		ug/m3		111	70 - 130
Trichloroethene	11	11.3		ug/m3		105	70 - 130
Trichlorofluoromethane	11	13.4		ug/m3		119	60 - 140
Vinyl chloride	5.1	4.99		ug/m3		98	70 - 130
Surrogate		LCS	LCS				
		%Recovery	Qualifier				Limits
4-Bromofluorobenzene (Surr)		109					60 - 140

QC Association Summary

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Air - GC/MS VOA

Analysis Batch: 9850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-7503-1	SUB SLAB #1	Total/NA	Air	TO 15 LL	
140-7503-2	AMBIENT #1	Total/NA	Air	TO 15 LL	
140-7503-3	SUB SLAB #2	Total/NA	Air	TO 15 LL	
140-7503-4	AMBIENT #2	Total/NA	Air	TO 15 LL	
140-7503-5	AMBIENT #3	Total/NA	Air	TO 15 LL	
140-7503-6	OUTDOOR AMBIENT #1	Total/NA	Air	TO 15 LL	
140-7503-7	SUBSLAB #4	Total/NA	Air	TO 15 LL	
MB 140-9850/15	Method Blank	Total/NA	Air	TO 15 LL	
LCS 140-9850/1002	Lab Control Sample	Total/NA	Air	TO 15 LL	

Analysis Batch: 9922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-7503-4 - DL	AMBIENT #2	Total/NA	Air	TO 15 LL	
140-7503-5 - DL	AMBIENT #3	Total/NA	Air	TO 15 LL	
140-7503-7 - DL	SUBSLAB #4	Total/NA	Air	TO 15 LL	
MB 140-9922/8	Method Blank	Total/NA	Air	TO 15 LL	
LCS 140-9922/1006	Lab Control Sample	Total/NA	Air	TO 15 LL	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: SUB SLAB #1

Date Collected: 03/11/17 08:43

Date Received: 03/17/17 10:00

Lab Sample ID: 140-7503-1

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	9850	03/26/17 22:52	HMT	TAL KNX
	Instrument ID: MJ									

Client Sample ID: AMBIENT #1

Date Collected: 03/11/17 08:44

Date Received: 03/17/17 10:00

Lab Sample ID: 140-7503-2

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	9850	03/26/17 23:40	HMT	TAL KNX
	Instrument ID: MJ									

Client Sample ID: SUB SLAB #2

Date Collected: 03/11/17 09:12

Date Received: 03/17/17 10:00

Lab Sample ID: 140-7503-3

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		46.08	25 mL	500 mL	9850	03/27/17 00:25	HMT	TAL KNX
	Instrument ID: MJ									

Client Sample ID: AMBIENT #2

Date Collected: 03/11/17 09:14

Date Received: 03/17/17 10:00

Lab Sample ID: 140-7503-4

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	DL	1	50 mL	500 mL	9922	03/29/17 03:05	HMT	TAL KNX
	Instrument ID: MG									
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	9850	03/27/17 01:13	HMT	TAL KNX
	Instrument ID: MJ									

Client Sample ID: AMBIENT #3

Date Collected: 03/11/17 10:10

Date Received: 03/17/17 10:00

Lab Sample ID: 140-7503-5

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	DL	1	40 mL	500 mL	9922	03/29/17 03:47	HMT	TAL KNX
	Instrument ID: MG									
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	9850	03/27/17 02:01	HMT	TAL KNX
	Instrument ID: MJ									

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: OUTDOOR AMBIENT #1

Date Collected: 03/11/17 10:11

Date Received: 03/17/17 10:00

Lab Sample ID: 140-7503-6

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	9850	03/27/17 03:36	HMT	TAL KNX
Instrument ID: MJ										

Client Sample ID: SUBSLAB #4

Date Collected: 03/11/17 10:55

Date Received: 03/17/17 10:00

Lab Sample ID: 140-7503-7

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	DL	1	50 mL	500 mL	9922	03/29/17 04:28	HMT	TAL KNX
Instrument ID: MG										
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	9850	03/27/17 04:23	HMT	TAL KNX
Instrument ID: MJ										

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 140-9850/15

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	9850	03/26/17 22:05	HMT	TAL KNX
Instrument ID: MJ										

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 140-9922/8

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	9922	03/28/17 16:44	HMT	TAL KNX
Instrument ID: MG										

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 140-9850/1002

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	9850	03/26/17 11:22	HMT	TAL KNX
Instrument ID: MJ										

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-9922/1006

Date Collected: N/A

Matrix: Air

Date Received: N/A

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	9922	03/28/17 13:07	HMT	TAL KNX
Instrument ID: MG										

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: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Laboratory: TestAmerica Knoxville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10781	03-31-17

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
TO 15 LL		Air	1,1,2-Trichlorotrifluoroethane
TO 15 LL		Air	1,2,4-Trimethylbenzene
TO 15 LL		Air	1,2-Dichlorotetrafluoroethane
TO 15 LL		Air	1,3,5-Trimethylbenzene
TO 15 LL		Air	Dichlorodifluoromethane
TO 15 LL		Air	o-Xylene
TO 15 LL		Air	Trichlorofluoromethane

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
TO 15 LL		Air	Ethanol

Method Summary

Client: New York State D.E.C.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

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.
Project/Site: Former Melrose Ave. #203009

TestAmerica Job ID: 140-7503-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-7503-1	SUB SLAB #1	Air	03/11/17 08:43	03/17/17 10:00
140-7503-2	AMBIENT #1	Air	03/11/17 08:44	03/17/17 10:00
140-7503-3	SUB SLAB #2	Air	03/11/17 09:12	03/17/17 10:00
140-7503-4	AMBIENT #2	Air	03/11/17 09:14	03/17/17 10:00
140-7503-5	AMBIENT #3	Air	03/11/17 10:10	03/17/17 10:00
140-7503-6	OUTDOOR AMBIENT #1	Air	03/11/17 10:11	03/17/17 10:00
140-7503-7	SUBSLAB #4	Air	03/11/17 10:55	03/17/17 10:00

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.: 140-7503-1

SDG No.: _____

Matrix: Air

Level: Low

GC Column (1): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	BFB #
SUB SLAB #1	140-7503-1	102
AMBIENT #1	140-7503-2	98
SUB SLAB #2	140-7503-3	100
AMBIENT #2	140-7503-4	103
AMBIENT #2 DL	140-7503-4 DL	101
AMBIENT #3	140-7503-5	98
AMBIENT #3 DL	140-7503-5 DL	102
OUTDOOR AMBIENT #1	140-7503-6	97
SUBSLAB #4	140-7503-7	101
SUBSLAB #4 DL	140-7503-7 DL	104
	MB 140-9850/15	98
	MB 140-9922/8	104
	LCS 140-9850/1002	101
	LCS 140-9922/1006	109

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.: 140-7503-1

SDG No.: _____

Matrix: Air Level: Low

Lab File ID: JCCVC26-LCS.d

Lab ID: LCS 140-9850/1002

Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.08	104	70-130	
1,1,2,2-Tetrachloroethane	2.00	1.72	86	70-130	
1,1,2-Trichloroethane	2.00	1.81	90	70-130	
1,1,2-Trichlorotrifluoroethane	2.00	2.20	110	70-130	
1,1-Dichloroethane	2.00	2.06	103	70-130	
1,1-Dichloroethene	2.00	2.18	109	70-130	
1,2,4-Trichlorobenzene	2.00	1.60	80	60-140	
1,2,4-Trimethylbenzene	2.00	1.72	86	70-130	
1,2-Dibromoethane	2.00	1.92	96	70-130	
1,2-Dichlorobenzene	2.00	1.67	84	70-130	
1,2-Dichloroethane	2.00	2.03	101	70-130	
1,2-Dichloropropane	2.00	1.82	91	70-130	
1,2-Dichlorotetrafluoroethane	2.00	2.56	128	60-140	
1,3,5-Trimethylbenzene	2.00	1.69	84	70-130	
1,3-Dichlorobenzene	2.00	1.71	85	70-130	
1,4-Dichlorobenzene	2.00	1.65	82	70-130	
1,4-Dioxane	2.00	1.84	92	60-140	
2,2,4-Trimethylpentane	2.00	1.94	97	70-130	
2-Butanone	2.00	1.64	82	60-140	
4-Methyl-2-pentanone (MIBK)	2.00	1.85	92	60-140	
Benzene	2.00	1.89	94	70-130	
Benzyl chloride	2.00	1.63	81	70-130	
Bromodichloromethane	2.00	2.02	101	70-130	
Bromoform	2.00	1.80	90	60-140	
Bromomethane	2.00	1.96	98	70-130	
Carbon tetrachloride	2.00	2.18	109	70-130	
Chlorobenzene	2.00	1.86	93	70-130	
Chloroethane	2.00	2.09	104	70-130	
Chloroform	2.00	1.97	98	70-130	
Chloromethane	2.00	1.92	96	60-140	
cis-1,2-Dichloroethene	2.00	2.03	101	70-130	
cis-1,3-Dichloropropene	2.00	1.94	97	70-130	
Cyclohexane	2.00	2.22	111	70-130	
Dibromochloromethane	2.00	2.02	101	70-130	
Dichlorodifluoromethane	2.00	2.19	109	60-140	
Ethanol	10.0	8.94	89	60-140	
Ethylbenzene	2.00	1.62	81	70-130	
Hexachlorobutadiene	2.00	1.70	85	60-140	
Hexane	2.00	2.14	107	70-130	
Methyl tert-butyl ether	2.00	1.78	89	60-140	
Methylene Chloride	2.00	2.00	100	70-130	
m-Xylene & p-Xylene	4.00	3.25	81	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1

SDG No.: _____

Matrix: Air Level: Low Lab File ID: JCCVC26-LCS.d

Lab ID: LCS 140-9850/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
o-Xylene	2.00	1.61	80	70-130	
Styrene	2.00	1.65	82	70-130	
t-Butyl alcohol	2.00	2.06	103	60-140	
Tetrachloroethene	2.00	1.97	99	70-130	
Toluene	2.00	1.74	87	70-130	
trans-1,2-Dichloroethene	2.00	2.16	108	70-130	
trans-1,3-Dichloropropene	2.00	1.79	89	70-130	
Trichloroethene	2.00	2.07	103	70-130	
Trichlorofluoromethane	2.00	2.25	112	60-140	
Vinyl chloride	2.00	2.03	102	70-130	

Column to be used to flag recovery and RPD values

FORM III TO 15 LL

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

Lab Name: TestAmerica Knoxville

Job No.: 140-7503-1

SDG No.: _____

Matrix: Air Level: Low

Lab File ID: GCCVC28A-LCS.d

Lab ID: LCS 140-9922/1006

Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.30	115	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.16	108	70-130	
1,1,2-Trichloroethane	2.00	2.03	102	70-130	
1,1,2-Trichlorotrifluoroethane	2.00	2.26	113	70-130	
1,1-Dichloroethane	2.00	1.97	98	70-130	
1,1-Dichloroethene	2.00	2.13	106	70-130	
1,2,4-Trichlorobenzene	2.00	2.50	125	60-140	
1,2,4-Trimethylbenzene	2.00	2.25	113	70-130	
1,2-Dibromoethane	2.00	2.22	111	70-130	
1,2-Dichlorobenzene	2.00	2.19	110	70-130	
1,2-Dichloroethane	2.00	2.23	111	70-130	
1,2-Dichloropropane	2.00	1.96	98	70-130	
1,2-Dichlorotetrafluoroethane	2.00	2.24	112	60-140	
1,3,5-Trimethylbenzene	2.00	2.23	112	70-130	
1,3-Dichlorobenzene	2.00	2.20	110	70-130	
1,4-Dichlorobenzene	2.00	2.19	109	70-130	
1,4-Dioxane	2.00	2.02	101	60-140	
2,2,4-Trimethylpentane	2.00	1.98	99	70-130	
2-Butanone	2.00	1.90	95	60-140	
4-Methyl-2-pentanone (MIBK)	2.00	2.04	102	60-140	
Benzene	2.00	1.95	97	70-130	
Benzyl chloride	2.00	2.33	116	70-130	
Bromodichloromethane	2.00	2.37	118	70-130	
Bromoform	2.00	2.56	128	60-140	
Bromomethane	2.00	2.03	101	70-130	
Carbon tetrachloride	2.00	2.52	126	70-130	
Chlorobenzene	2.00	2.09	105	70-130	
Chloroethane	2.00	1.92	96	70-130	
Chloroform	2.00	2.18	109	70-130	
Chloromethane	2.00	1.82	91	60-140	
cis-1,2-Dichloroethene	2.00	2.05	103	70-130	
cis-1,3-Dichloropropene	2.00	2.16	108	70-130	
Cyclohexane	2.00	2.05	102	70-130	
Dibromochloromethane	2.00	2.40	120	70-130	
Dichlorodifluoromethane	2.00	2.26	113	60-140	
Ethanol	10.0	9.17	92	60-140	
Ethylbenzene	2.00	2.15	107	70-130	
Hexachlorobutadiene	2.00	2.49	124	60-140	
Hexane	2.00	1.84	92	70-130	
Methyl tert-butyl ether	2.00	2.07	104	60-140	
Methylene Chloride	2.00	1.96	98	70-130	
m-Xylene & p-Xylene	4.00	4.41	110	70-130	

Column to be used to flag recovery and RPD values

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: GCCVC28A-LCS.d
 Lab ID: LCS 140-9922/1006 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
o-Xylene	2.00	2.15	107	70-130	
Styrene	2.00	2.34	117	70-130	
t-Butyl alcohol	2.00	2.13	106	60-140	
Tetrachloroethene	2.00	2.19	110	70-130	
Toluene	2.00	2.09	105	70-130	
trans-1,2-Dichloroethene	2.00	2.01	100	70-130	
trans-1,3-Dichloropropene	2.00	2.23	111	70-130	
Trichloroethene	2.00	2.11	105	70-130	
Trichlorofluoromethane	2.00	2.38	119	60-140	
Vinyl chloride	2.00	1.95	98	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.: 140-7503-1
 SDG No.: _____
 Lab File ID: GMB500C28.D Lab Sample ID: MB 140-9922/8
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: MG Date Analyzed: 03/28/2017 16:44
 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 140-9922/1006	GCCVC28A-LC S.d	03/28/2017 13:07
AMBIENT #2 DL	140-7503-4 DL	GC28P112.D	03/29/2017 03:05
AMBIENT #3 DL	140-7503-5 DL	GC28P113.D	03/29/2017 03:47
SUBSLAB #4 DL	140-7503-7 DL	GC28P114.D	03/29/2017 04:28

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab File ID: JMB500C26.D Lab Sample ID: MB 140-9850/15
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: MJ Date Analyzed: 03/26/2017 22:05
 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
SUB SLAB #1	140-7503-1	JC26P101.D	03/26/2017 22:52
AMBIENT #1	140-7503-2	JC26P102.D	03/26/2017 23:40
SUB SLAB #2	140-7503-3	JC26P103.D	03/27/2017 00:25
AMBIENT #2	140-7503-4	JC26P104.D	03/27/2017 01:13
AMBIENT #3	140-7503-5	JC26P105.D	03/27/2017 02:01
OUTDOOR AMBIENT #1	140-7503-6	JC26P106.D	03/27/2017 03:36
SUBSLAB #4	140-7503-7	JC26P107.D	03/27/2017 04:23

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab File ID: GBFBC15.D BFB Injection Date: 03/15/2017
 Instrument ID: MG BFB Injection Time: 14:04
 Analysis Batch No.: 9482

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.5	
75	30.0 - 60.0 % of mass 95	57.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	88.1	
175	5.0 - 9.0 % of mass 174	6.1	(6.9) 1
176	95.0 - 101.0 % of mass 174	85.3	(96.8) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.3) 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 140-9482/3	GC15IC01.D	03/15/2017	14:36
	IC 140-9482/4	GC15IC02.D	03/15/2017	15:20
	IC 140-9482/5	GC15IC03.D	03/15/2017	16:02
	IC 140-9482/6	GC15IC04.D	03/15/2017	16:45
	IC 140-9482/7	GC15IC05.D	03/15/2017	17:29
	ICIS 140-9482/8	GC15IC06.D	03/15/2017	18:13
	IC 140-9482/9	GC15IC07.D	03/15/2017	18:56
	IC 140-9482/10	GC15IC08.D	03/15/2017	19:39
	IC 140-9482/11	GC15IC09.D	03/15/2017	20:21
	ICV 140-9482/13	GICVC15.D	03/15/2017	21:46

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab File ID: GBFBC28A.D BFB Injection Date: 03/28/2017
 Instrument ID: MG BFB Injection Time: 12:36
 Analysis Batch No.: 9922

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.0
75	30.0 - 60.0 % of mass 95	57.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.5 (0.6) 1
174	50.0 - 120.00 % of mass 95	94.6
175	5.0 - 9.0 % of mass 174	6.4 (6.8) 1
176	95.0 - 101.0 % of mass 174	91.1 (96.3) 1
177	5.0 - 9.0 % of mass 176	5.9 (6.4) 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 140-9922/6	GCCVC28A.D	03/28/2017	13:07
	LCS 140-9922/1006	GCCVC28A-LCS .d	03/28/2017	13:07
	MB 140-9922/8	GMB500C28.D	03/28/2017	16:44
AMBIENT #2 DL	140-7503-4 DL	GC28P112.D	03/29/2017	03:05
AMBIENT #3 DL	140-7503-5 DL	GC28P113.D	03/29/2017	03:47
SUBSLAB #4 DL	140-7503-7 DL	GC28P114.D	03/29/2017	04:28

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab File ID: JBFBC24.D BFB Injection Date: 03/24/2017
 Instrument ID: MJ BFB Injection Time: 11:04
 Analysis Batch No.: 9602

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.5	
75	30.0 - 60.0 % of mass 95	46.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	100.8	
175	5.0 - 9.0 % of mass 174	8.1	(8.1) 1
176	95.0 - 101.0 % of mass 174	97.9	(97.1) 1
177	5.0 - 9.0 % of mass 176	6.6	(6.7) 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 140-9602/2	JC24IC01.D	03/24/2017	11:31
	IC 140-9602/3	JC24IC02.D	03/24/2017	12:16
	IC 140-9602/4	JC24IC03.D	03/24/2017	13:02
	IC 140-9602/5	JC24IC04.D	03/24/2017	13:48
	IC 140-9602/6	JC24IC05.D	03/24/2017	14:35
	ICIS 140-9602/7	JC24IC06.D	03/24/2017	15:21
	IC 140-9602/8	JC24IC07.D	03/24/2017	16:06
	IC 140-9602/9	JC24IC08.D	03/24/2017	16:50
	IC 140-9602/10	JC24IC09.D	03/24/2017	17:35
	ICV 140-9602/18	JLCSC24.D	03/24/2017	23:36

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab File ID: JBFBC26.D BFB Injection Date: 03/26/2017
 Instrument ID: MJ BFB Injection Time: 10:56
 Analysis Batch No.: 9850

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.1
75	30.0 - 60.0 % of mass 95	45.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	105.4
175	5.0 - 9.0 % of mass 174	8.4 (7.9) 1
176	95.0 - 101.0 % of mass 174	102.5 (97.3) 1
177	5.0 - 9.0 % of mass 176	6.7 (6.5) 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 140-9850/2	JCCVC26.D	03/26/2017	11:22
	LCS 140-9850/1002	JCCVC26-LCS.d	03/26/2017	11:22
	MB 140-9850/15	JMB500C26.D	03/26/2017	22:05
SUB SLAB #1	140-7503-1	JC26P101.D	03/26/2017	22:52
AMBIENT #1	140-7503-2	JC26P102.D	03/26/2017	23:40
SUB SLAB #2	140-7503-3	JC26P103.D	03/27/2017	00:25
AMBIENT #2	140-7503-4	JC26P104.D	03/27/2017	01:13
AMBIENT #3	140-7503-5	JC26P105.D	03/27/2017	02:01
OUTDOOR AMBIENT #1	140-7503-6	JC26P106.D	03/27/2017	03:36
SUBSLAB #4	140-7503-7	JC26P107.D	03/27/2017	04:23

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Sample No.: ICIS 140-9482/8 Date Analyzed: 03/15/2017 18:13
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): GC15IC06.D Heated Purge: (Y/N) N
 Calibration ID: 962

	CBM		DFBZ		CBzd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	356237	7.99	1693700	10.16	1673092	15.03
UPPER LIMIT	498732	8.32	2371180	10.49	2342329	15.36
LOWER LIMIT	213742	7.66	1016220	9.83	1003855	14.70
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 140-9482/13	414852	7.99	2002906	10.16	1960813	15.03

CBM = Chlorobromomethane (IS)
 DFBZ = 1,4-Difluorobenzene
 CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 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.: 140-7503-1
 SDG No.: _____
 Sample No.: CCVIS 140-9922/6 Date Analyzed: 03/28/2017 13:07
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): GCCVC28A.D Heated Purge: (Y/N) N
 Calibration ID: 962

	CBM		DFBZ		CBzd5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	250986	8.00	1223103	10.16	1222770	15.03	
UPPER LIMIT	351380	8.33	1712344	10.49	1711878	15.36	
LOWER LIMIT	150592	7.67	733862	9.83	733662	14.70	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-9922/1006	250986	8.00	1223103	10.16	1222770	15.03	
MB 140-9922/8	222809	7.98	987068	10.15	1006865	15.02	
140-7503-4 DL	AMBIENT #2 DL	231839	7.99	1032367	10.15	1036889	15.02
140-7503-5 DL	AMBIENT #3 DL	227130	7.98	1021851	10.14	1013839	15.02
140-7503-7 DL	SUBSLAB #4 DL	234075	8.00	1106443	10.16	1169167	15.02

CBM = Chlorobromomethane (IS)
 DFBZ = 1,4-Difluorobenzene
 CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 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.: 140-7503-1
 SDG No.: _____
 Sample No.: ICIS 140-9602/7 Date Analyzed: 03/24/2017 15:21
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JC24IC06.D Heated Purge: (Y/N) N
 Calibration ID: 978

	CBM		DFBZ		CBzd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	231580	8.55	1083209	10.75	1056687	15.53
UPPER LIMIT	324212	8.88	1516493	11.08	1479362	15.86
LOWER LIMIT	138948	8.22	649925	10.42	634012	15.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 140-9602/18	256445	8.55	1157126	10.75	1073197	15.52

CBM = Chlorobromomethane (IS)
 DFBZ = 1,4-Difluorobenzene
 CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 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.: 140-7503-1
 SDG No.: _____
 Sample No.: CCVIS 140-9850/2 Date Analyzed: 03/26/2017 11:22
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JCCVC26.D Heated Purge: (Y/N) N
 Calibration ID: 978

	CBM		DFBZ		CBZd5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	232350	8.55	1065412	10.75	987172	15.52	
UPPER LIMIT	325290	8.88	1491577	11.08	1382041	15.85	
LOWER LIMIT	139410	8.22	639247	10.42	592303	15.19	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-9850/1002	232350	8.55	1065412	10.75	987172	15.52	
MB 140-9850/15	227575	8.54	1035709	10.74	932834	15.52	
140-7503-1	SUB SLAB #1	228039	8.55	1077911	10.75	972583	15.52
140-7503-2	AMBIENT #1	232251	8.54	1116515	10.74	1002389	15.53
140-7503-3	SUB SLAB #2	226435	8.55	1027719	10.74	929800	15.52
140-7503-4	AMBIENT #2	223013	8.54	1054614	10.74	927430	15.52
140-7503-5	AMBIENT #3	237059	8.55	1109672	10.74	990960	15.52
140-7503-6	OUTDOOR AMBIENT #1	219336	8.54	1019898	10.74	924222	15.52
140-7503-7	SUBSLAB #4	201428	8.55	920620	10.75	938079	15.52

CBM = Chlorobromomethane (IS)
 DFBZ = 1,4-Difluorobenzene
 CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 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.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #1 Lab Sample ID: 140-7503-1
 Matrix: Air Lab File ID: JC26P101.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:43
 Sample wt/vol: 500(mL) Date Analyzed: 03/26/2017 22:52
 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.: 9850 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	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080	
75-34-3	1,1-Dichloroethane	98.96	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.1		0.080	
106-93-4	1,2-Dibromoethane	187.87	ND		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080	
107-06-2	1,2-Dichloroethane	98.96	ND		0.080	
78-87-5	1,2-Dichloropropane	112.99	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.51		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	0.19		0.080	
123-91-1	1,4-Dioxane	88.11	ND		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	0.20		0.20	
78-93-3	2-Butanone	72.11	10		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.37		0.20	
71-43-2	Benzene	78.11	0.15		0.080	
100-44-7	Benzyl chloride	126.58	ND		0.16	
75-27-4	Bromodichloromethane	163.83	ND		0.080	
75-25-2	Bromoform	252.75	ND		0.080	
74-83-9	Bromomethane	94.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.057		0.040	
108-90-7	Chlorobenzene	112.56	ND		0.080	
75-00-3	Chloroethane	64.52	0.20		0.080	
67-66-3	Chloroform	119.38	ND		0.080	
74-87-3	Chloromethane	50.49	0.49		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080	
110-82-7	Cyclohexane	84.16	ND		0.20	

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #1 Lab Sample ID: 140-7503-1
 Matrix: Air Lab File ID: JC26P101.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:43
 Sample wt/vol: 500(mL) Date Analyzed: 03/26/2017 22:52
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.080
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.080
64-17-5	Ethanol	46.07	4.0		2.0
100-41-4	Ethylbenzene	106.17	0.89		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	0.33		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.26		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	4.3		0.080
95-47-6	o-Xylene	106.17	1.6		0.080
100-42-5	Styrene	104.15	0.12		0.080
75-65-0	t-Butyl alcohol	74.12	0.34		0.32
127-18-4	Tetrachloroethene	165.83	8.1		0.080
108-88-3	Toluene	92.14	3.1		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080
79-01-6	Trichloroethene	131.39	ND		0.040
75-69-4	Trichlorofluoromethane	137.37	0.22		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

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.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #1 Lab Sample ID: 140-7503-1
 Matrix: Air Lab File ID: JC26P101.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:43
 Sample wt/vol: 500(mL) Date Analyzed: 03/26/2017 22:52
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	10		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	2.5		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	1.1		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	0.96		0.93
78-93-3	2-Butanone	72.11	31		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.5		0.82
71-43-2	Benzene	78.11	0.48		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.36		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	0.53		0.21
67-66-3	Chloroform	119.38	ND		0.39
74-87-3	Chloromethane	50.49	1.0		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #1 Lab Sample ID: 140-7503-1
 Matrix: Air Lab File ID: JC26P101.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:43
 Sample wt/vol: 500(mL) Date Analyzed: 03/26/2017 22:52
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.40
64-17-5	Ethanol	46.07	7.5		3.8
100-41-4	Ethylbenzene	106.17	3.9		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	1.2		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	0.91		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	19		0.35
95-47-6	o-Xylene	106.17	7.0		0.35
100-42-5	Styrene	104.15	0.51		0.34
75-65-0	t-Butyl alcohol	74.12	1.0		0.97
127-18-4	Tetrachloroethene	165.83	55		0.54
108-88-3	Toluene	92.14	12		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	1.2		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

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

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D
 Lims ID: 140-7503-A-1
 Client ID: SUB SLAB #1
 Sample Type: Client
 Inject. Date: 26-Mar-2017 22:52:30 ALS Bottle#: 1 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-016
 Misc. Info.: 140-7503-a-1
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 27-Mar-2017 11:13:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.547	8.547	0.000	97	228039	4.00	
* 2 1,4-Difluorobenzene	114	10.747	10.748	-0.001	95	1077911	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.524	15.524	0.000	88	972583	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.170	17.171	-0.001	94	695033	4.09	
8 Dichlorodifluoromethane	85	3.625	3.625	0.000	100	89668	0.4588	
9 Chloromethane	52	3.797	3.797	0.000	100	10562	0.4927	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.797	3.803	-0.006	36	1275	0.0147	
16 Chloroethane	64	4.480	4.475	0.005	95	5237	0.2017	
17 Ethanol	31	4.572	4.566	0.006	97	53685	3.99	
20 Trichlorofluoromethane	101	5.018	5.024	-0.006	100	39177	0.2183	
28 2-Methyl-2-propanol	59	5.809	5.804	0.005	95	28895	0.3417	
30 1,1,2-Trichloro-1,2,2-trif	101	5.874	5.879	-0.005	96	9307	0.0641	
31 Methylene Chloride	84	6.051	6.046	0.005	98	18440	0.2617	
39 2-Butanone (MEK)	72	7.799	7.810	-0.011	98	175692	10.5	
40 Hexane	56	7.816	7.821	-0.005	70	19791	0.3306	
44 Chloroform	83	8.563	8.563	0.000	27	7346	0.0488	
50 Cyclohexane	69	10.177	10.188	-0.011	76	4940	0.1518	
51 Benzene	78	10.182	10.188	-0.006	97	31979	0.1514	
52 Carbon tetrachloride	117	10.209	10.210	-0.001	43	9254	0.0568	
56 Isooctane	57	10.962	10.968	-0.006	95	74734	0.2048	
65 4-Methyl-2-pentanone (MIBK	43	12.673	12.668	0.005	98	33803	0.3735	
68 Toluene	91	13.539	13.539	0.000	94	630302	3.06	
76 Tetrachloroethene	129	14.690	14.691	-0.001	95	689932	8.08	
79 Ethylbenzene	91	15.863	15.863	0.000	98	207742	0.8946	
81 m-Xylene & p-Xylene	91	16.025	16.030	-0.005	99	723906	4.31	
83 Bromoform	173	16.466	16.471	-0.005	91	2591	0.0192	
84 Styrene	104	16.493	16.493	0.000	97	14914	0.1188	
85 o-Xylene	91	16.552	16.552	0.000	98	275584	1.61	
92 1,3,5-Trimethylbenzene	120	17.918	17.918	0.000	93	45907	0.5133	
96 1,2,4-Trimethylbenzene	105	18.359	18.365	-0.006	98	327708	2.13	
100 1,4-Dichlorobenzene	146	18.725	18.725	0.000	95	27256	0.1912	

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Worklist Smp#: 16

Client ID: SUB SLAB #1

Purge Vol: 500.000 mL

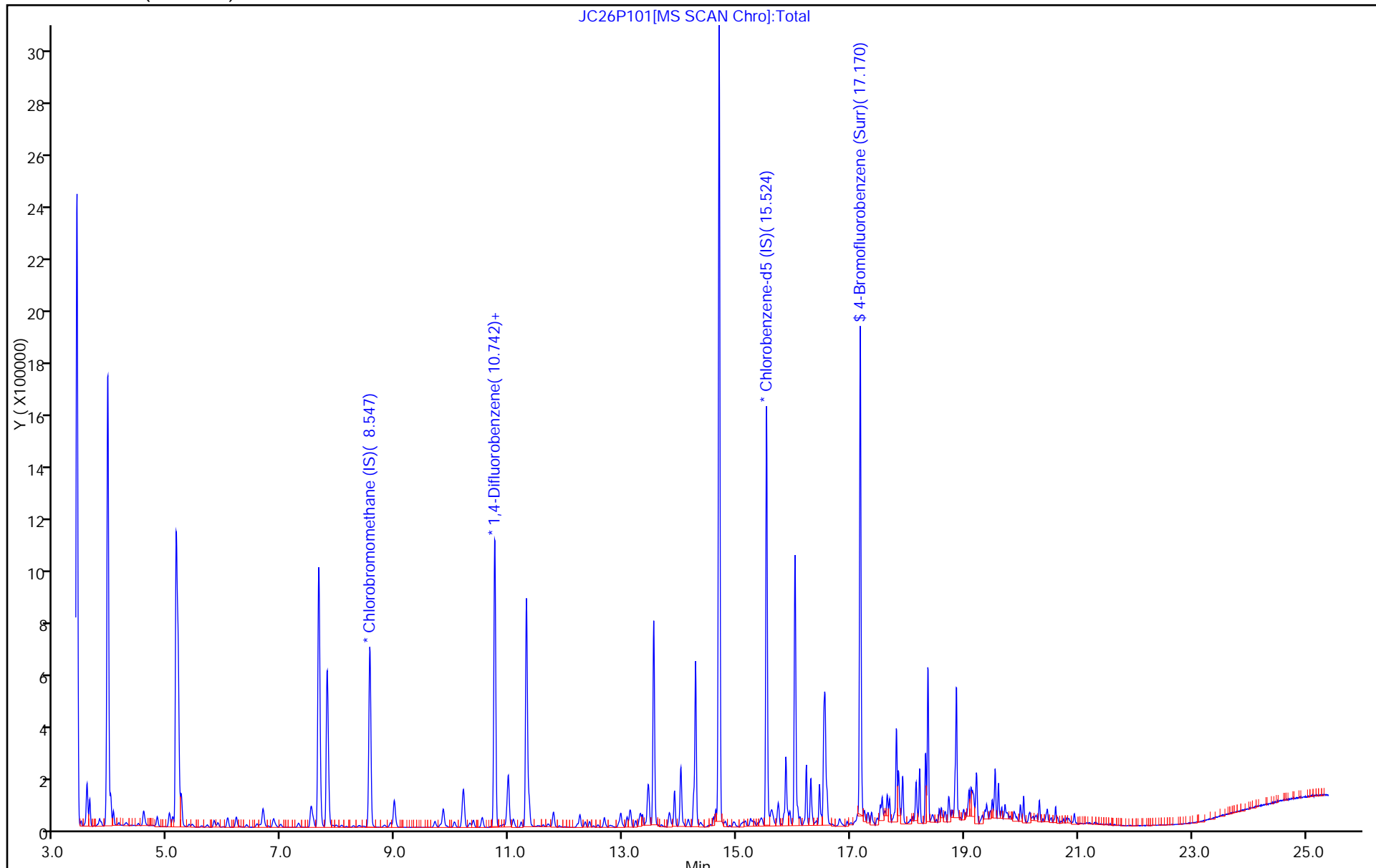
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D
 Lims ID: 140-7503-A-1
 Client ID: SUB SLAB #1
 Sample Type: Client
 Inject. Date: 26-Mar-2017 22:52:30 ALS Bottle#: 1 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-016
 Misc. Info.: 140-7503-a-1
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa Date: 27-Mar-2017 11:13:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.09	102.35

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

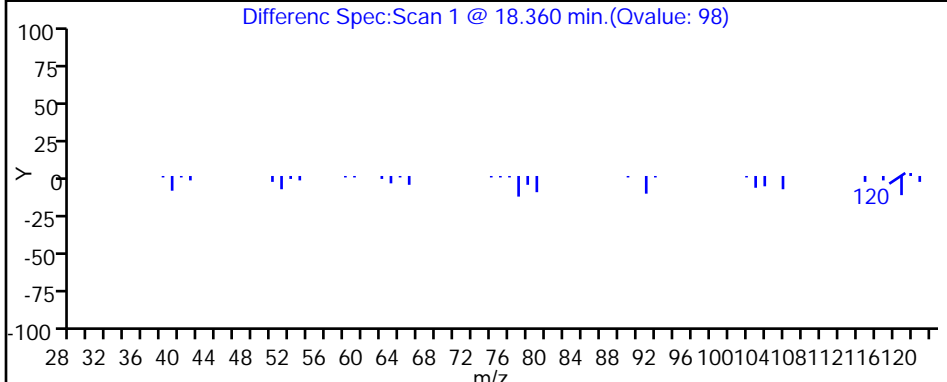
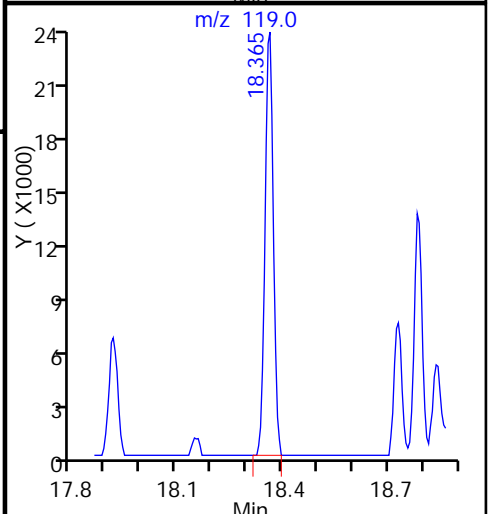
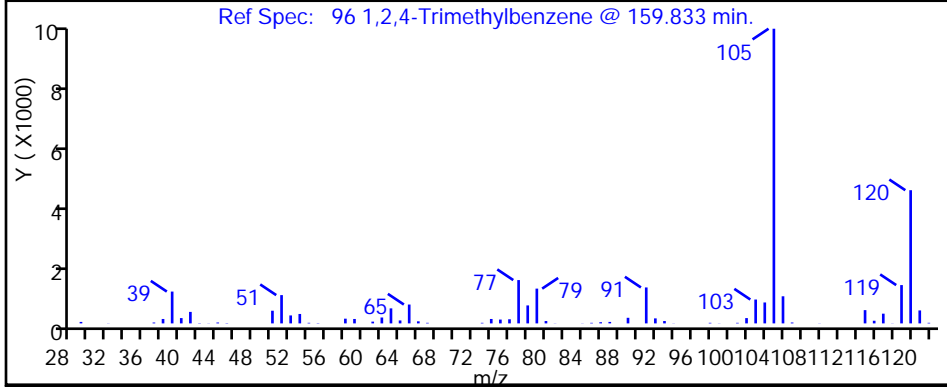
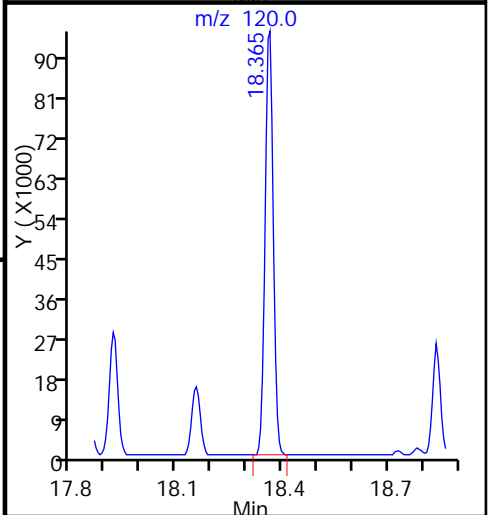
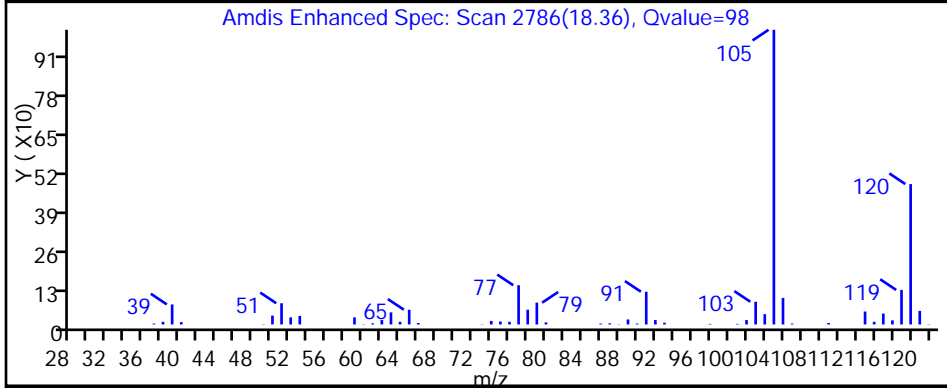
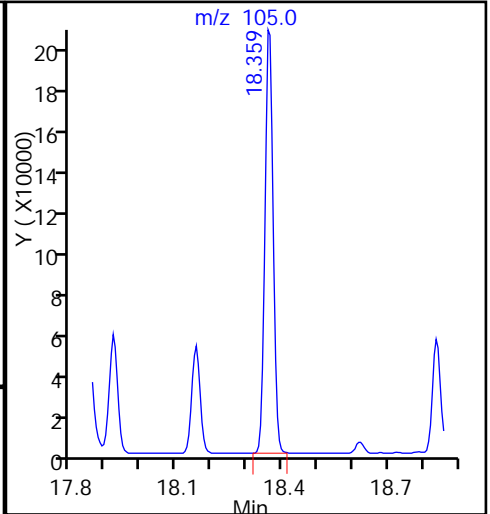
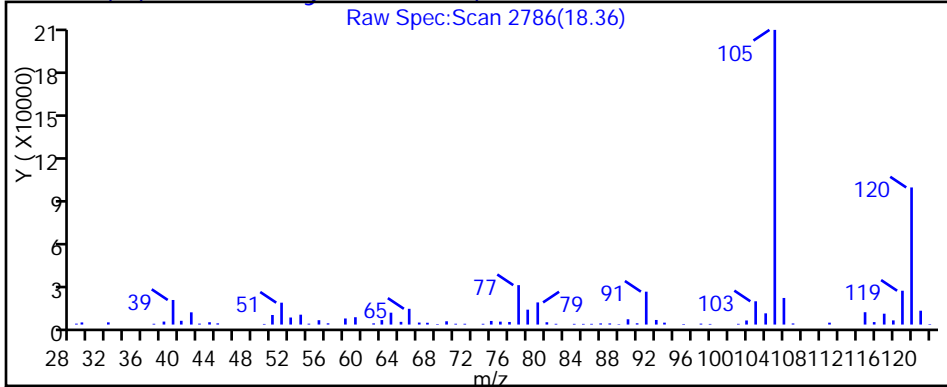
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

96 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

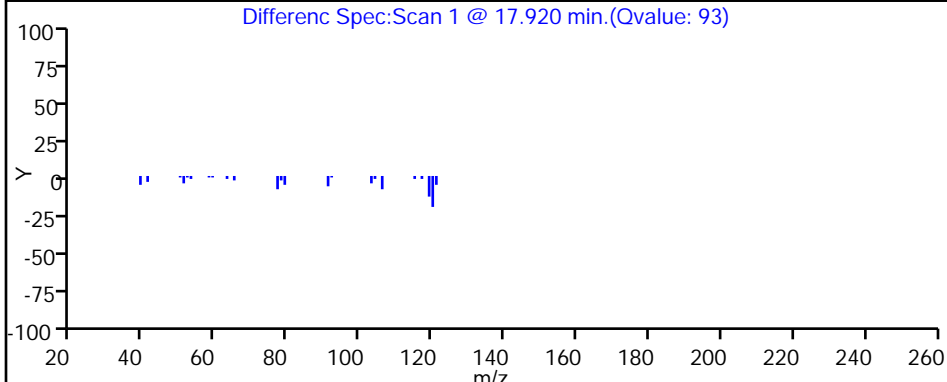
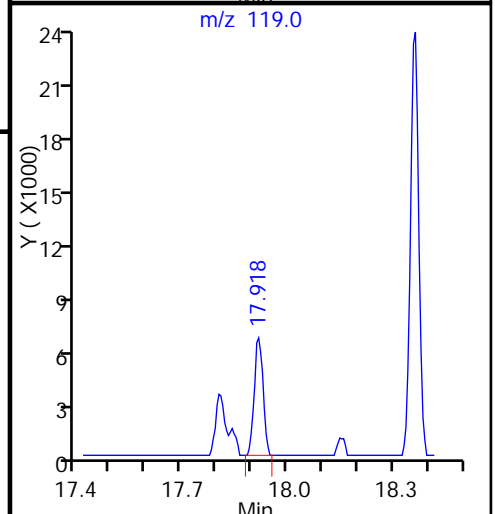
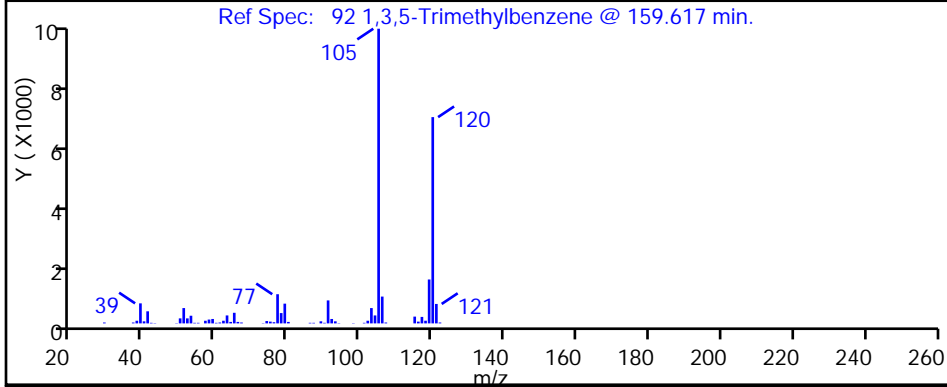
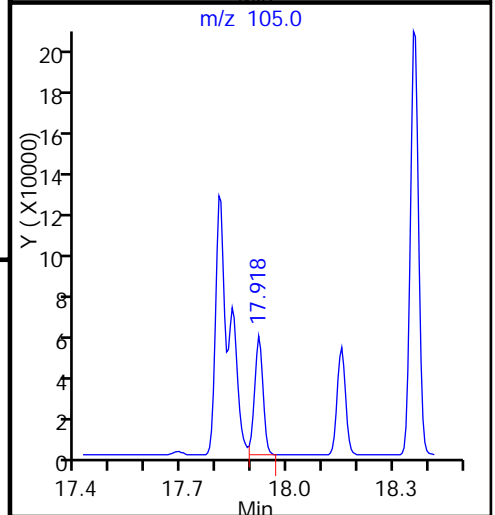
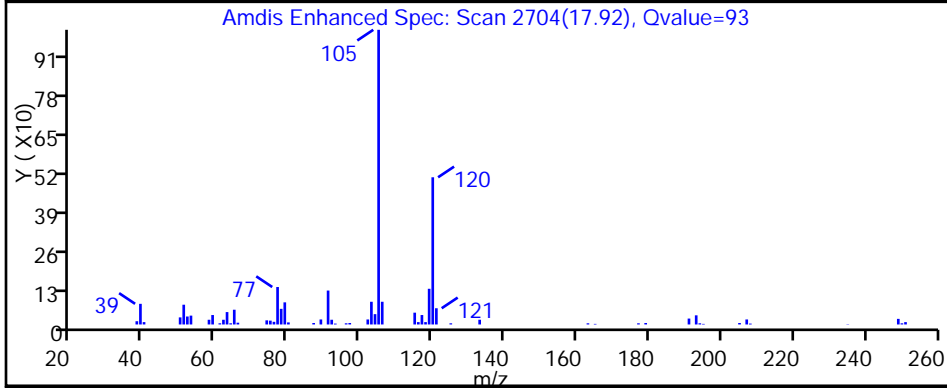
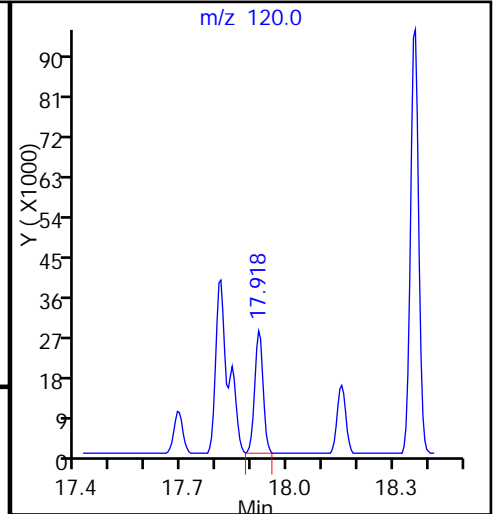
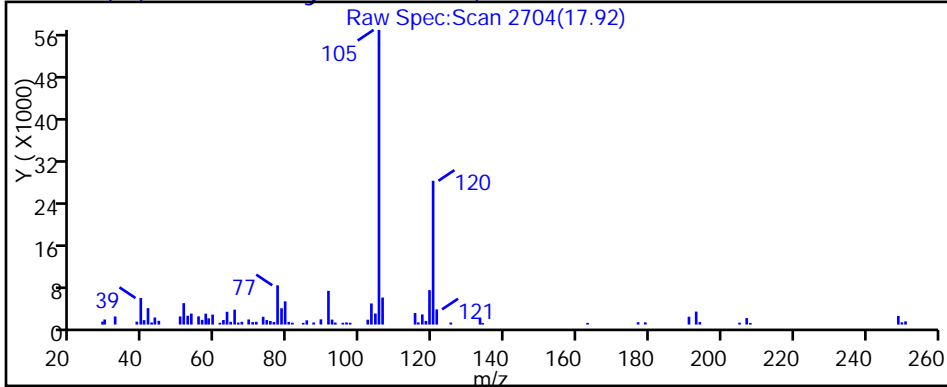
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

92 1,3,5-Trimethylbenzene, CAS: 108-67-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

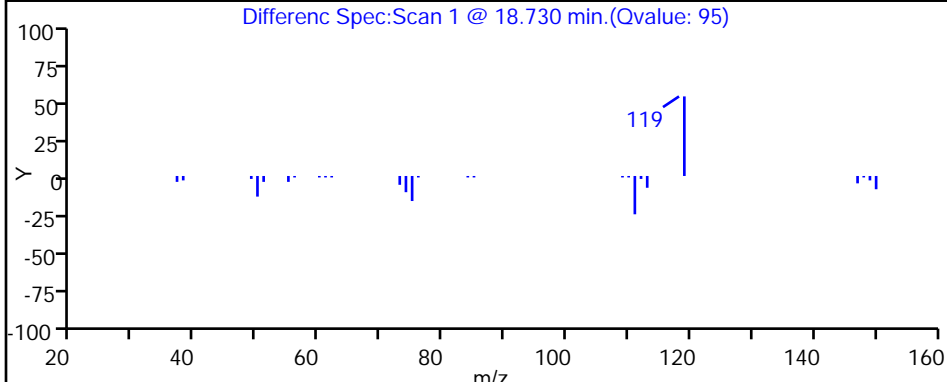
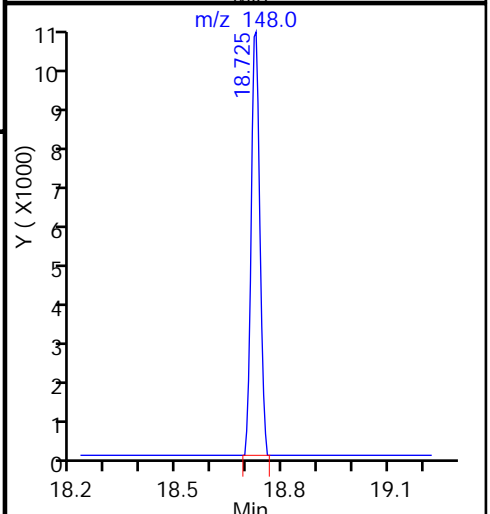
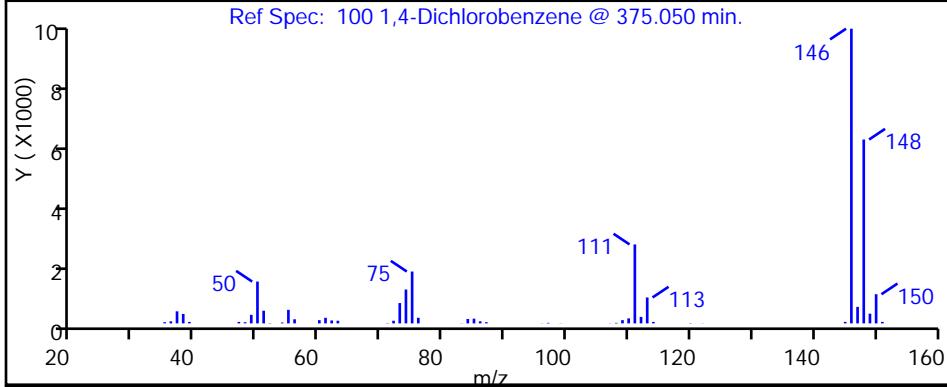
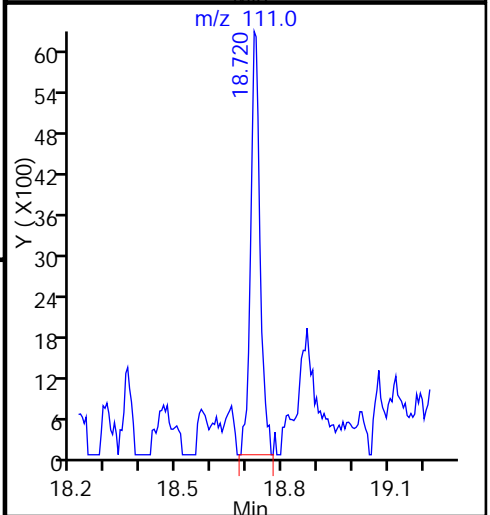
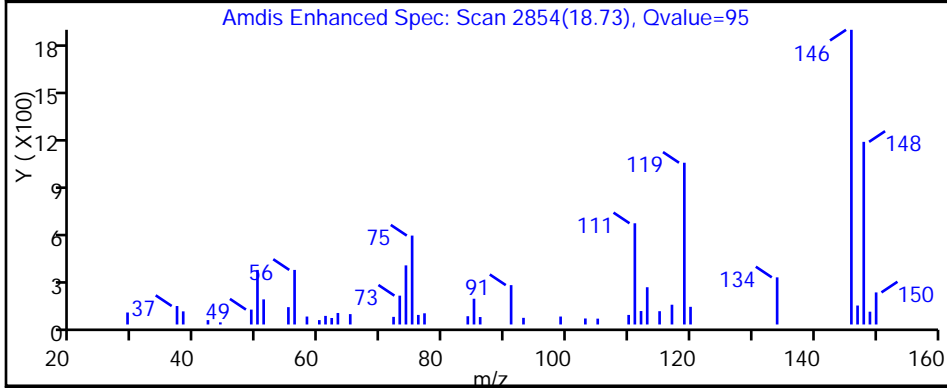
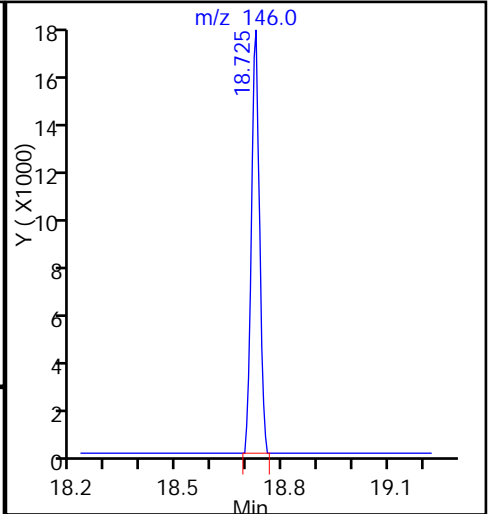
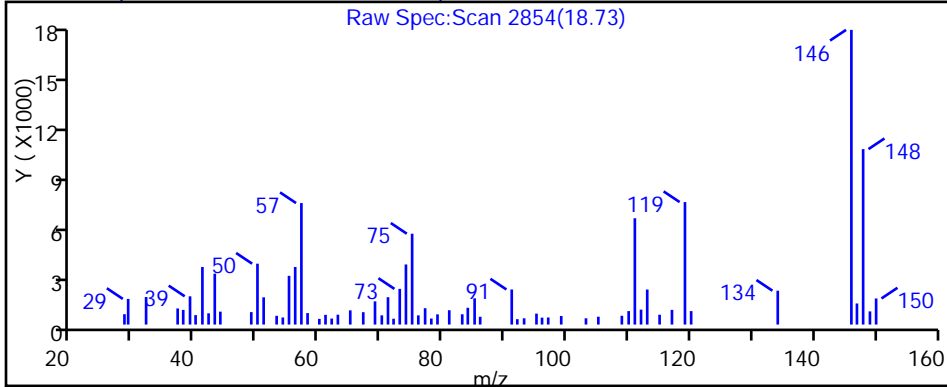
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

100 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

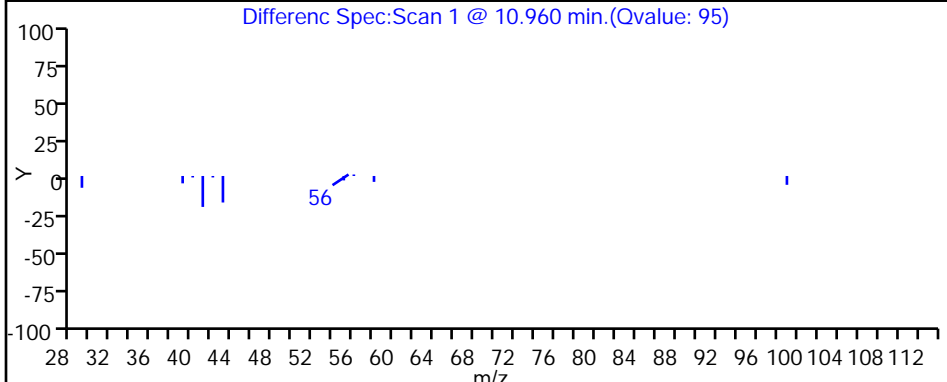
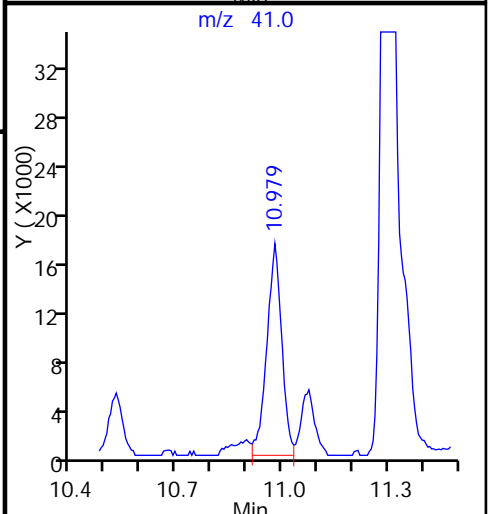
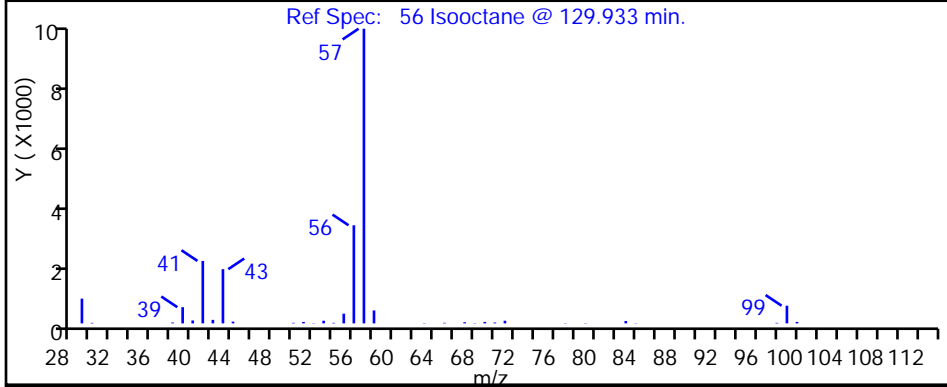
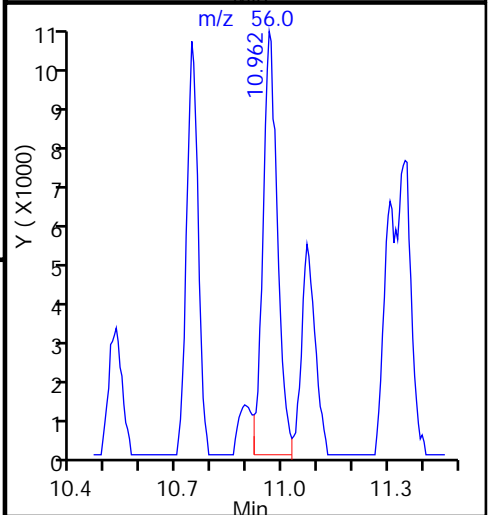
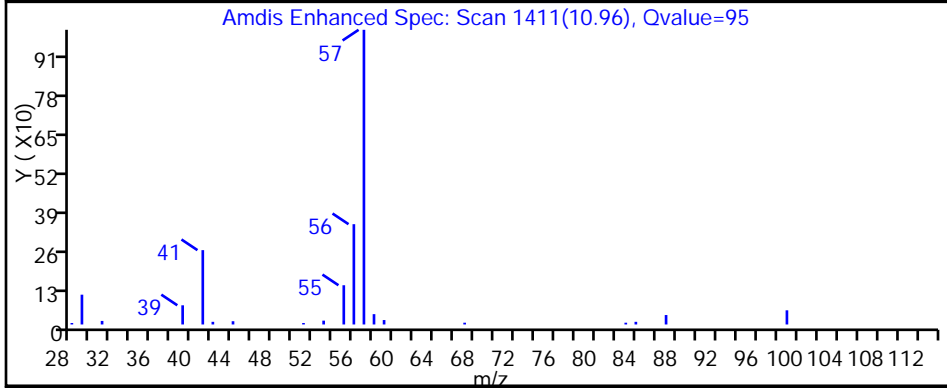
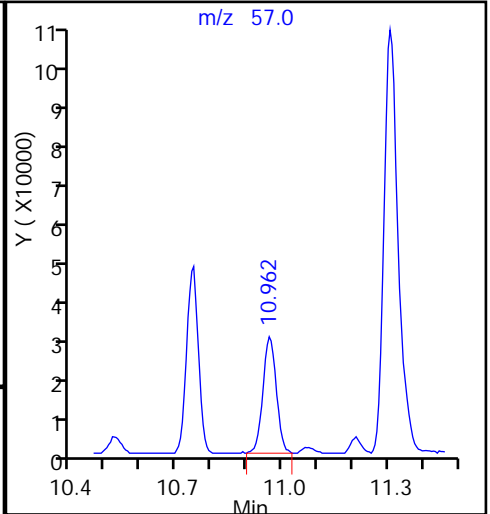
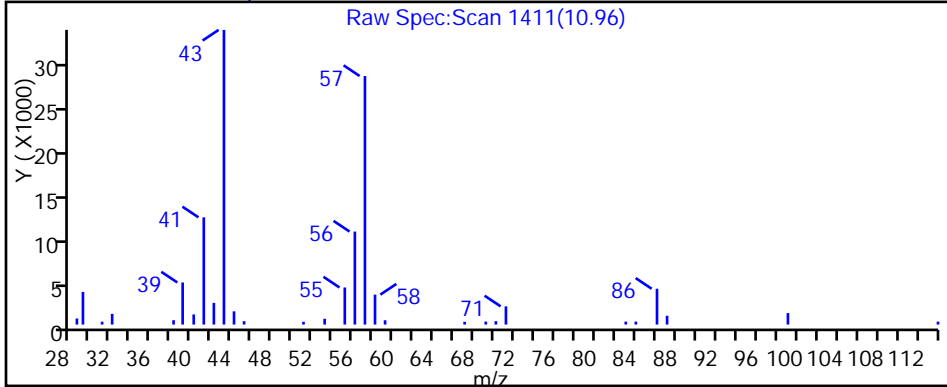
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

56 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

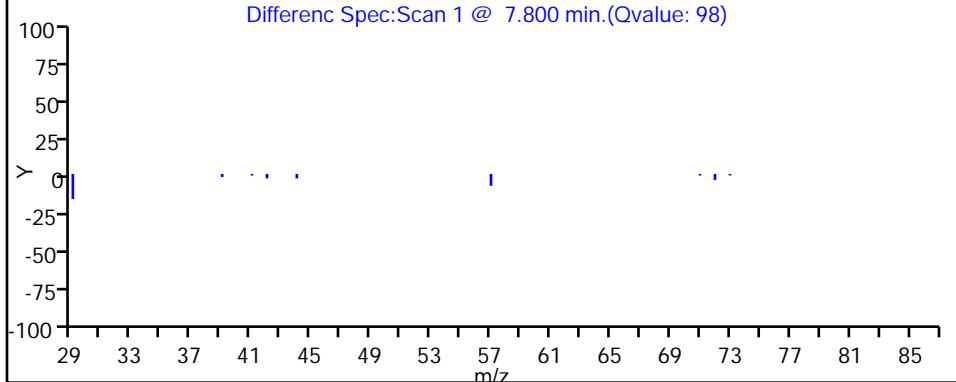
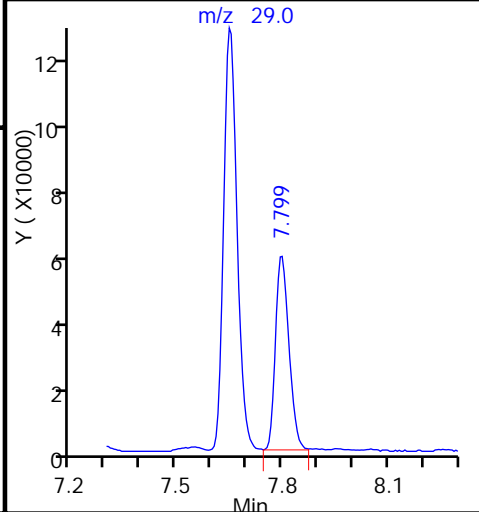
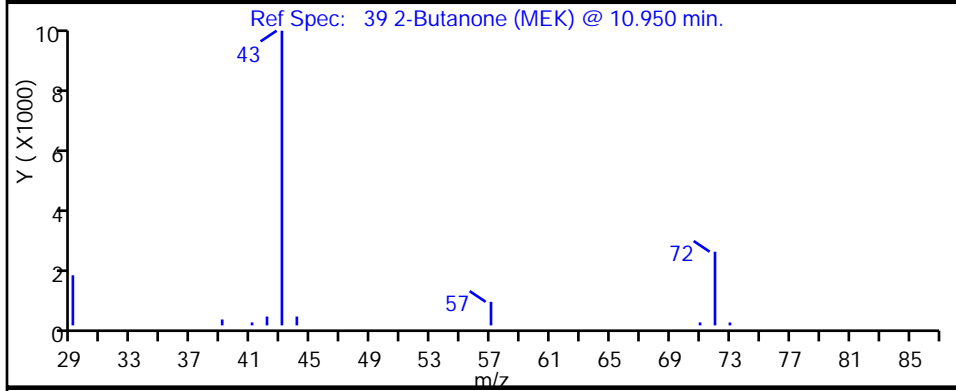
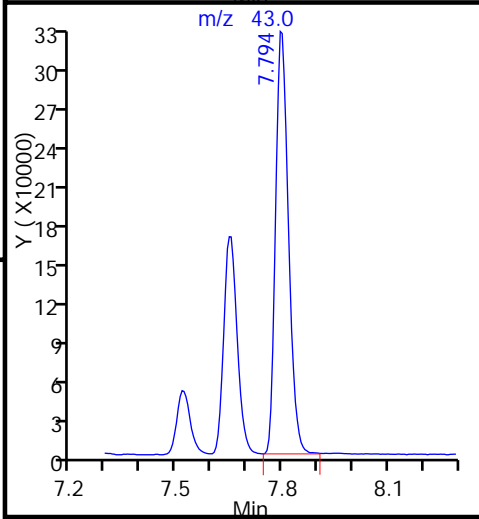
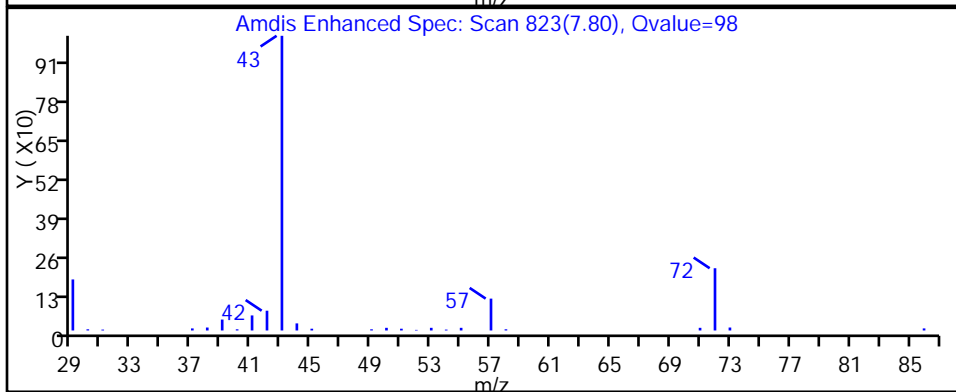
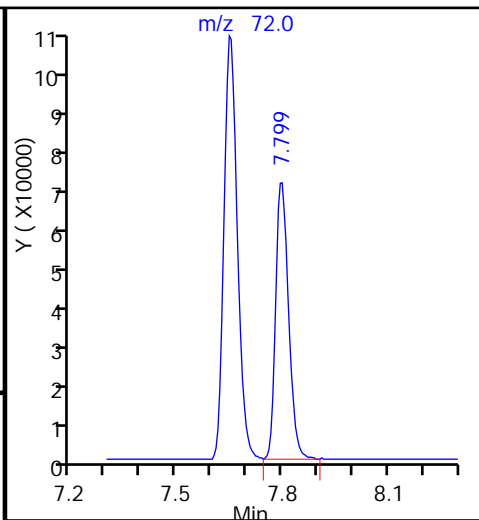
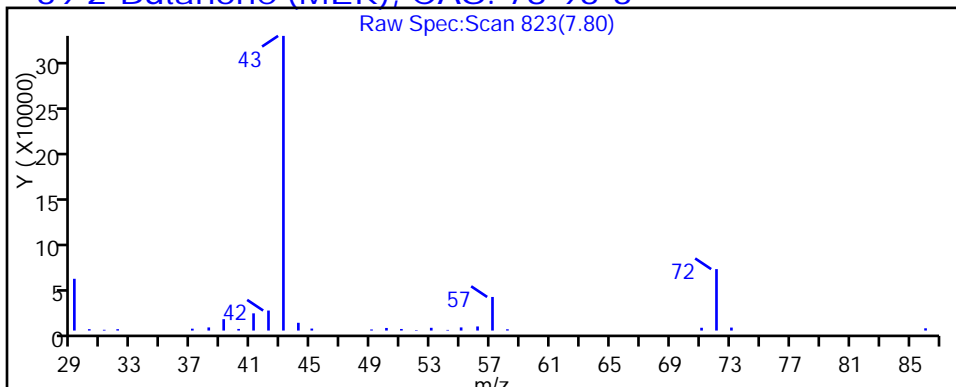
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

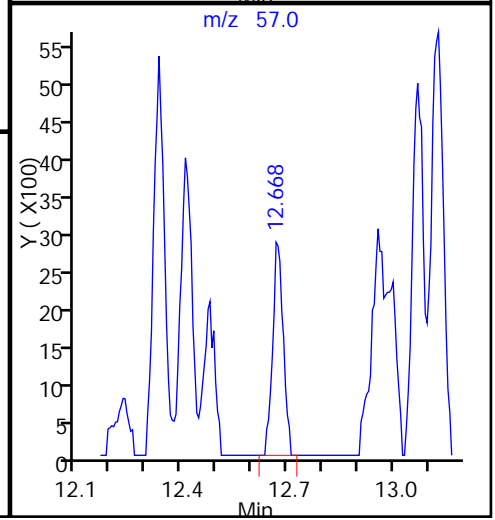
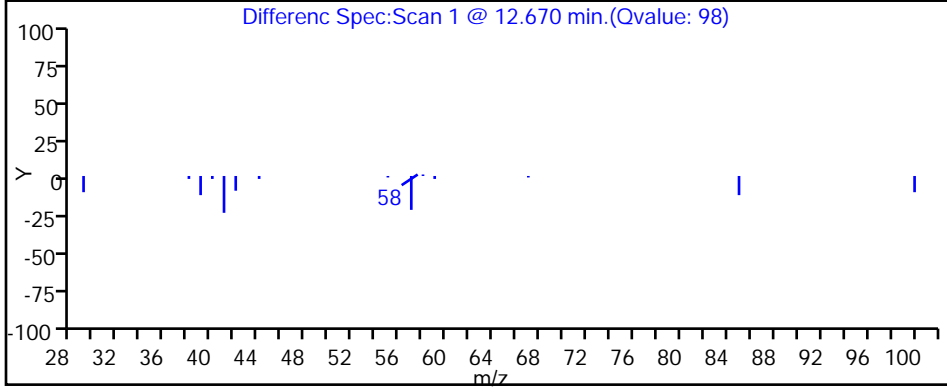
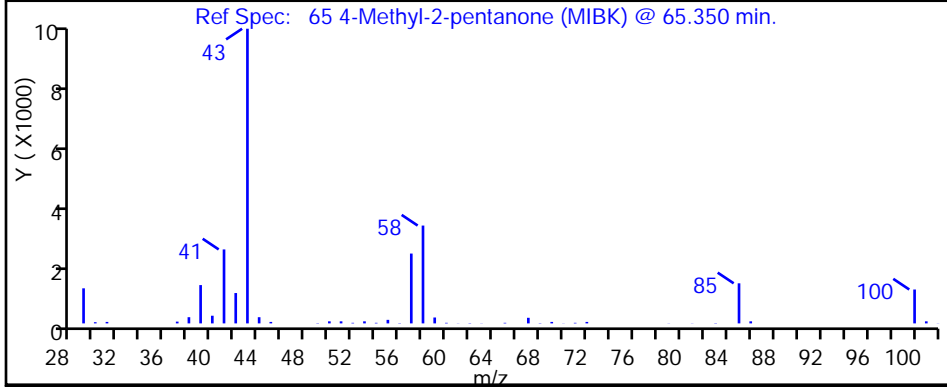
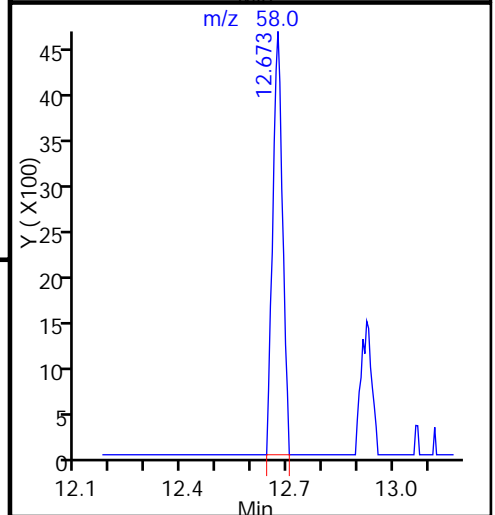
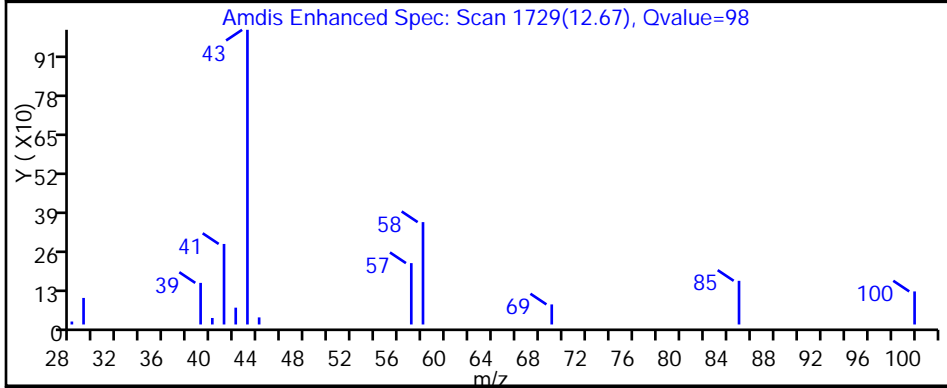
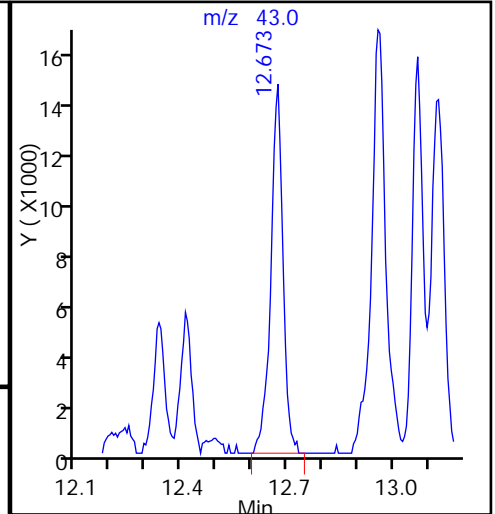
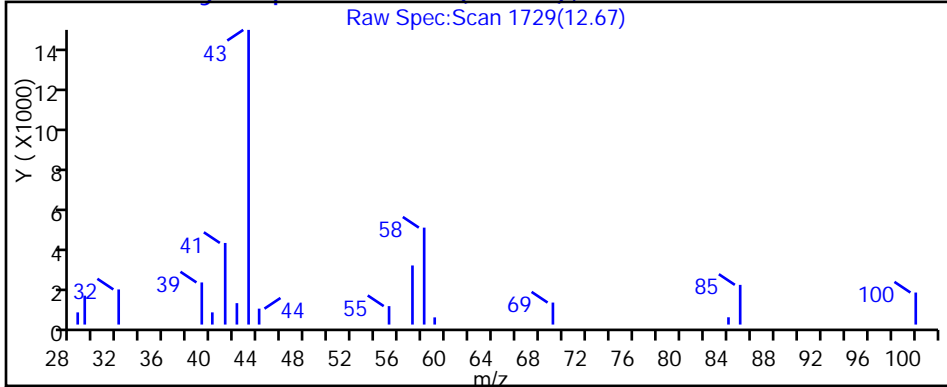
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

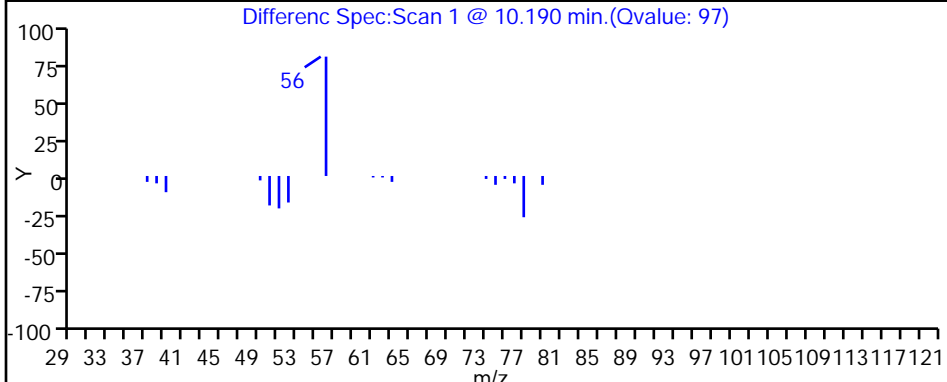
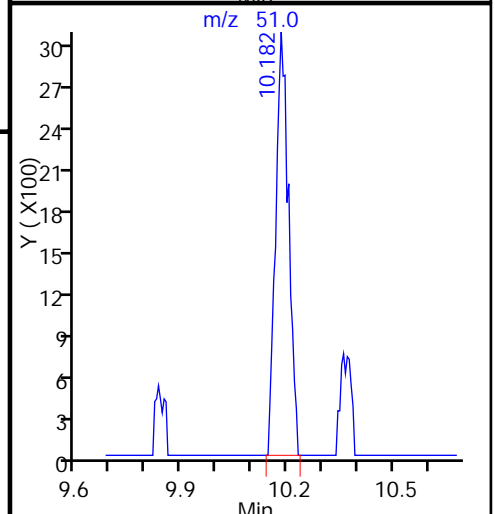
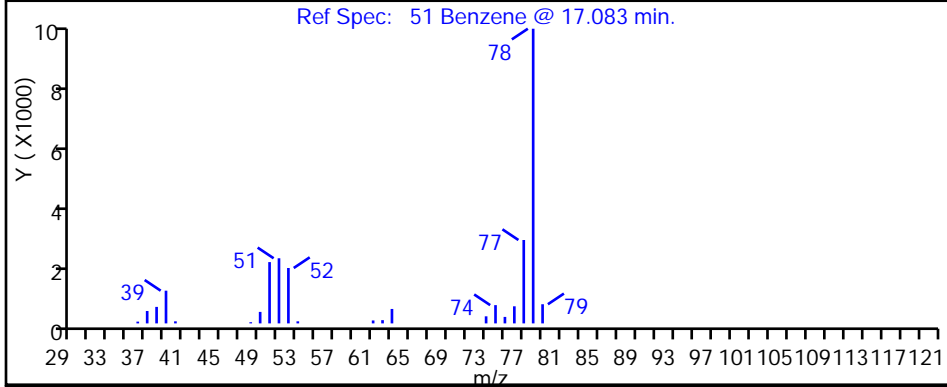
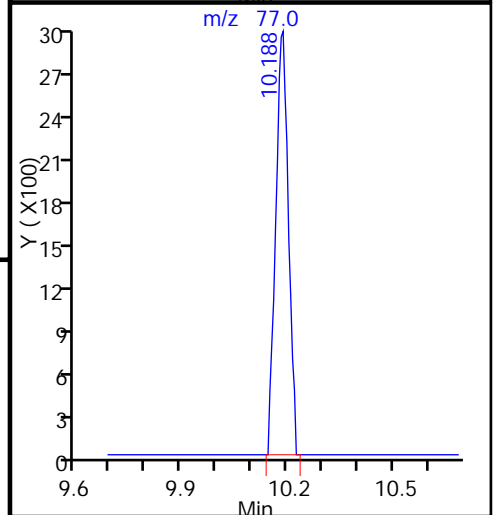
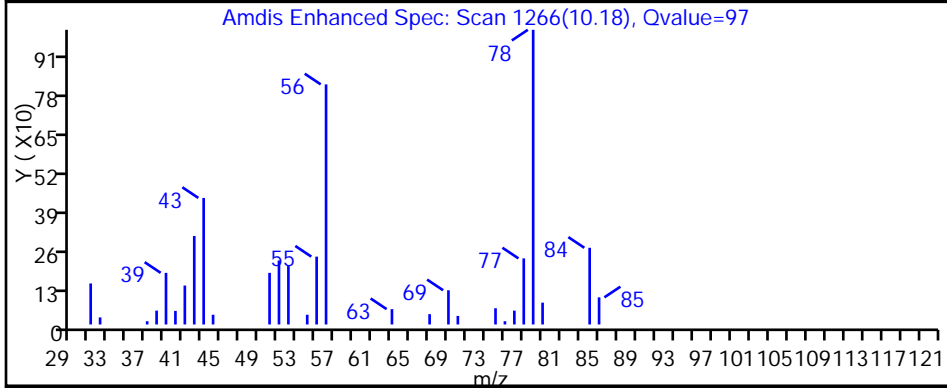
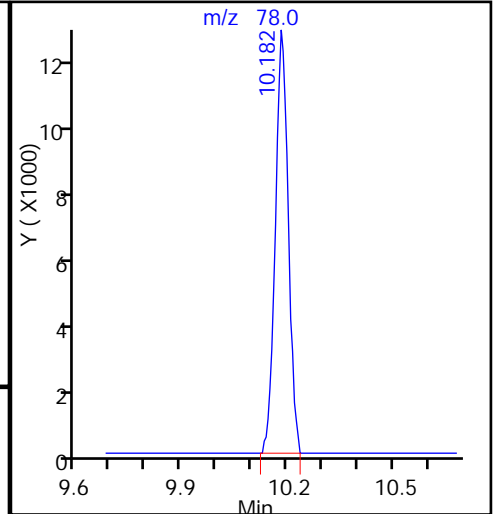
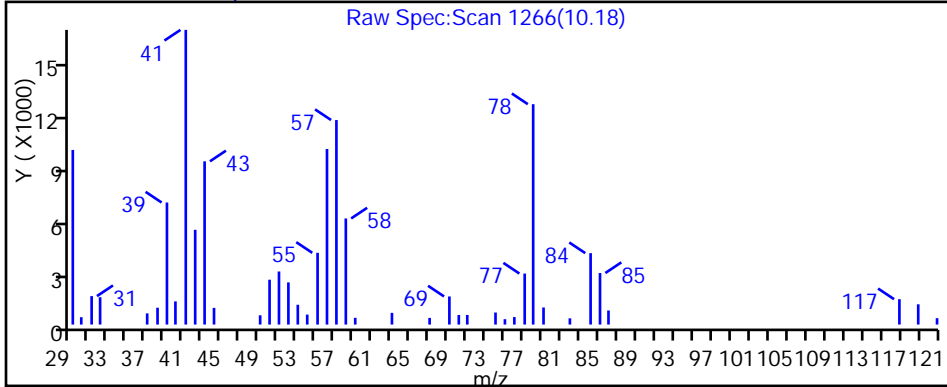
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

51 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

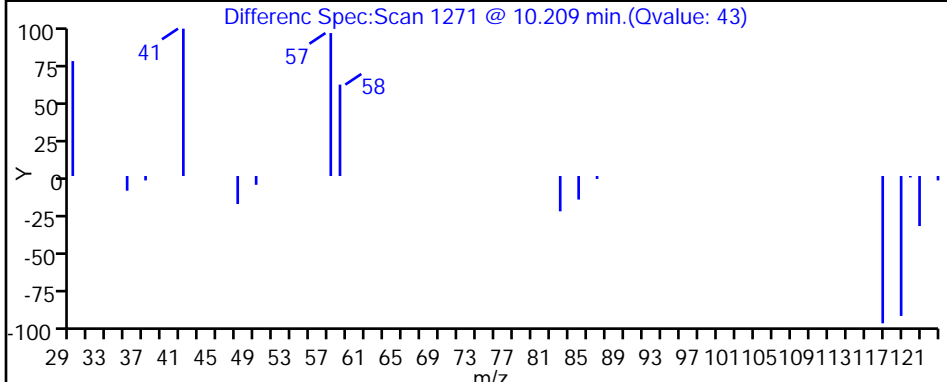
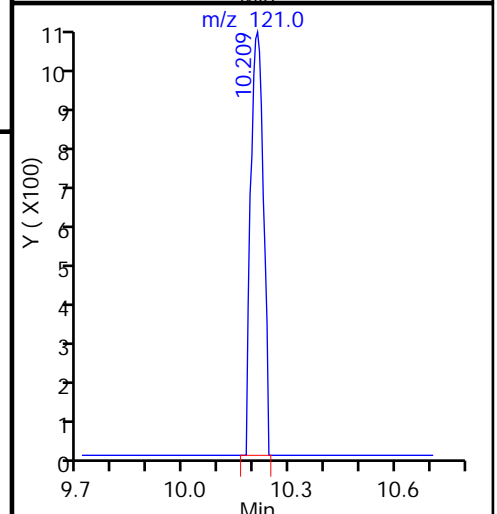
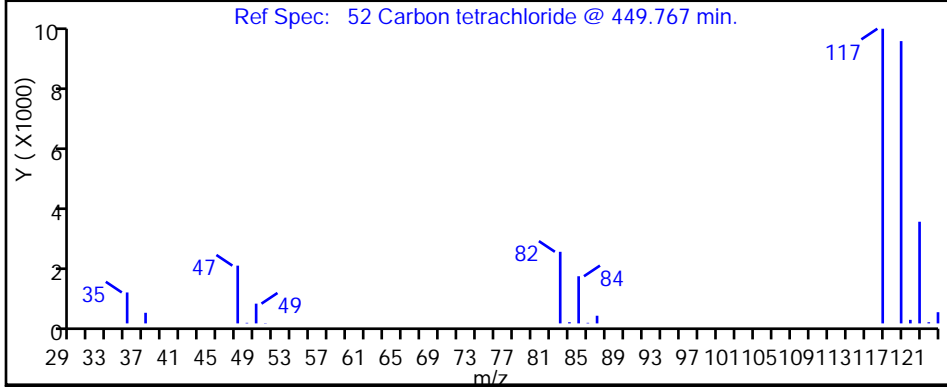
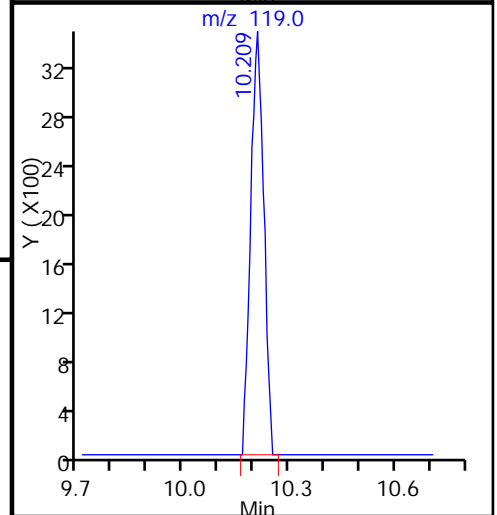
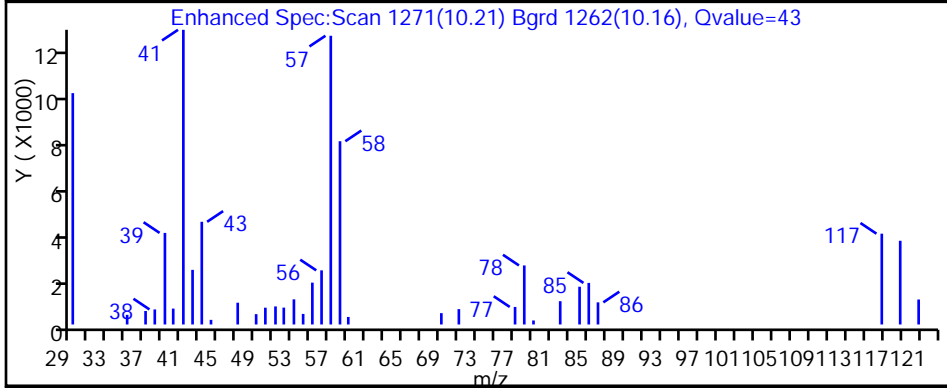
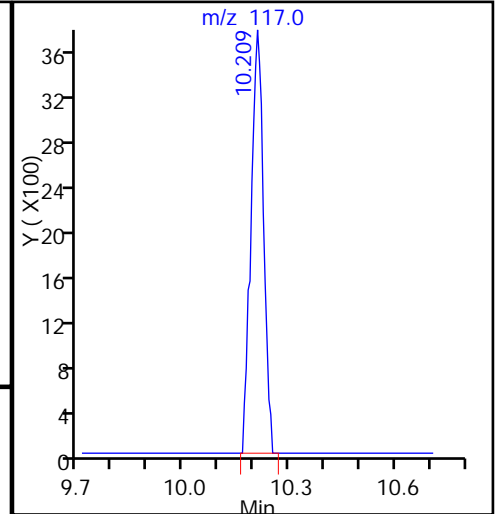
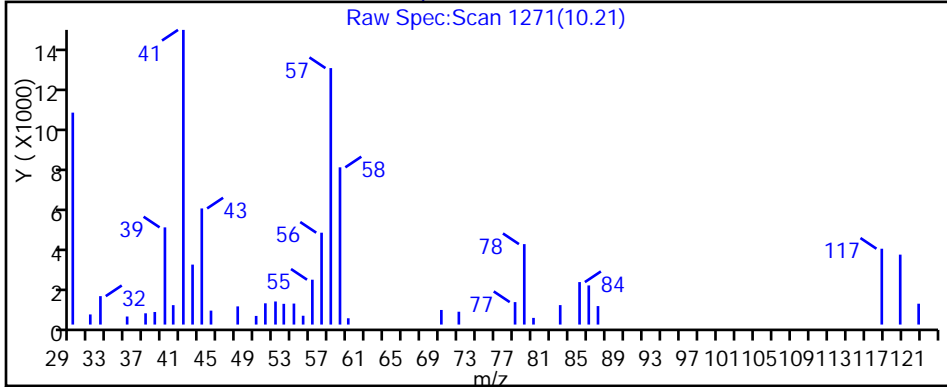
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

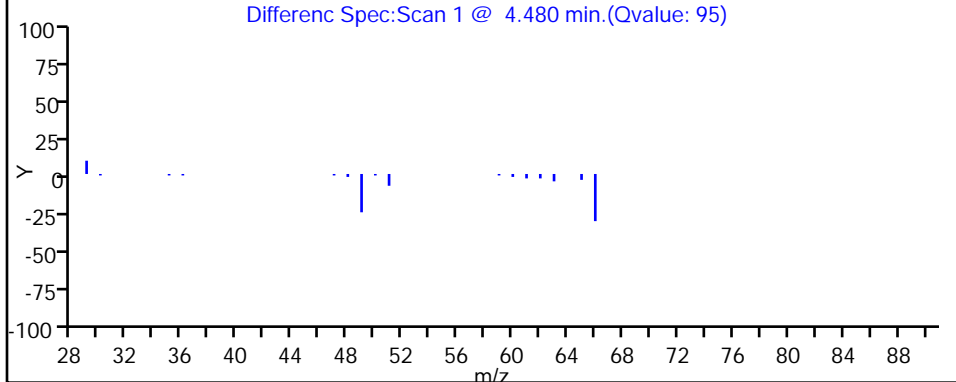
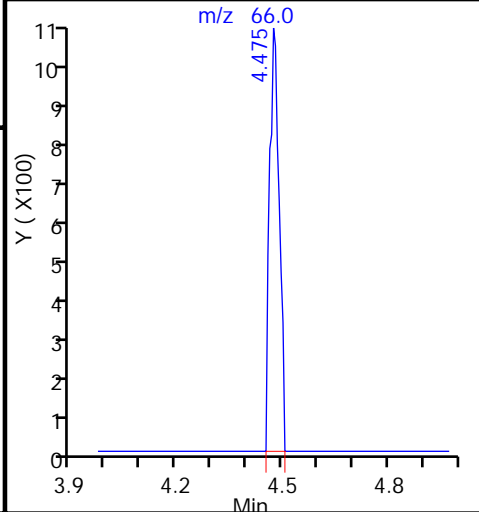
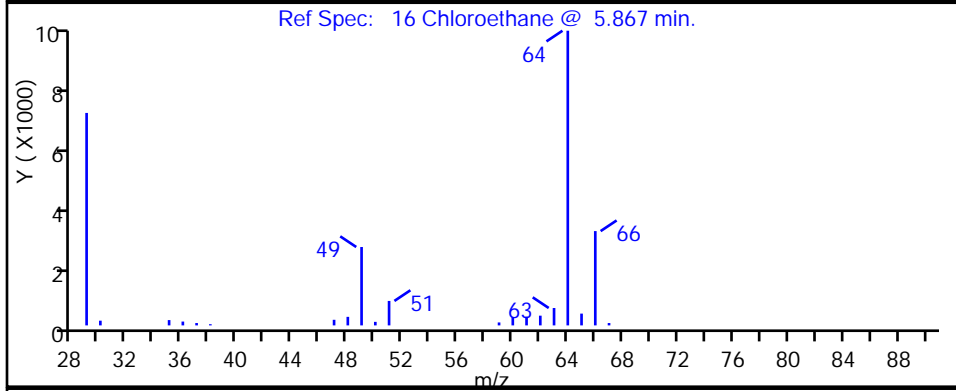
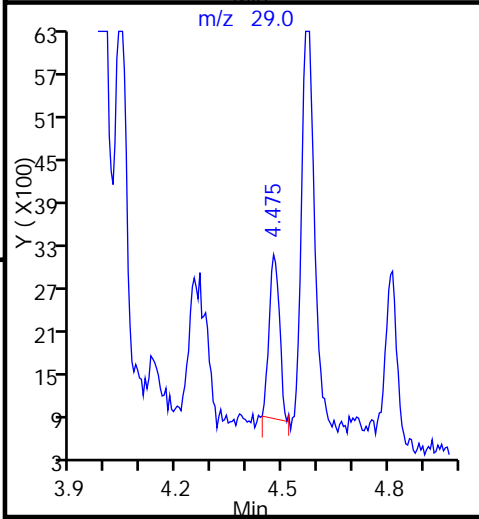
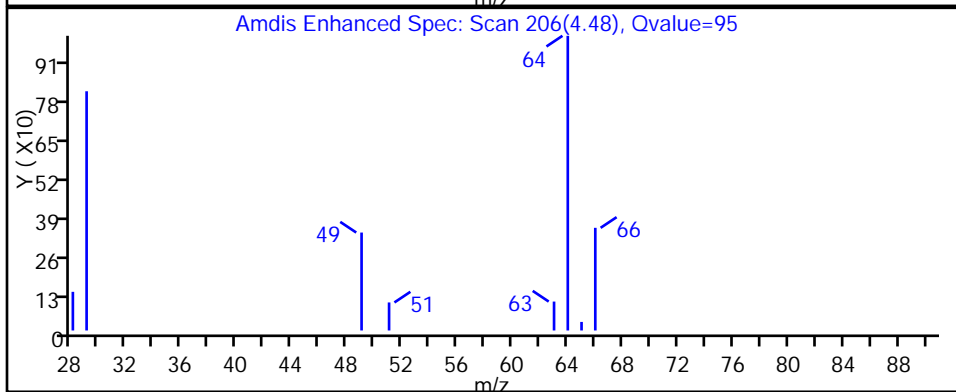
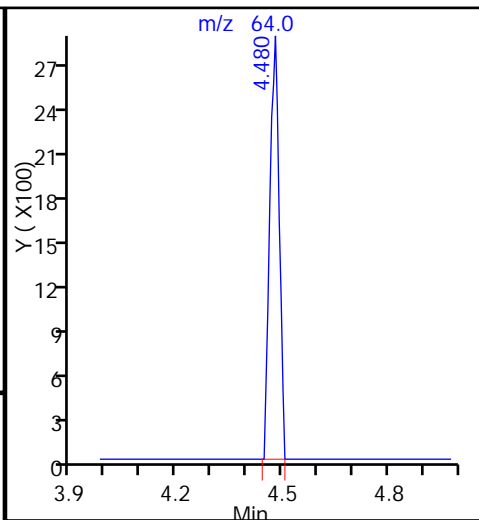
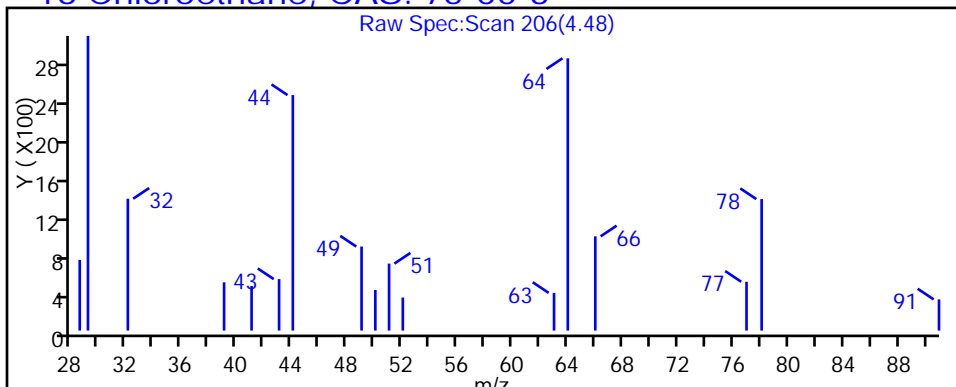
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

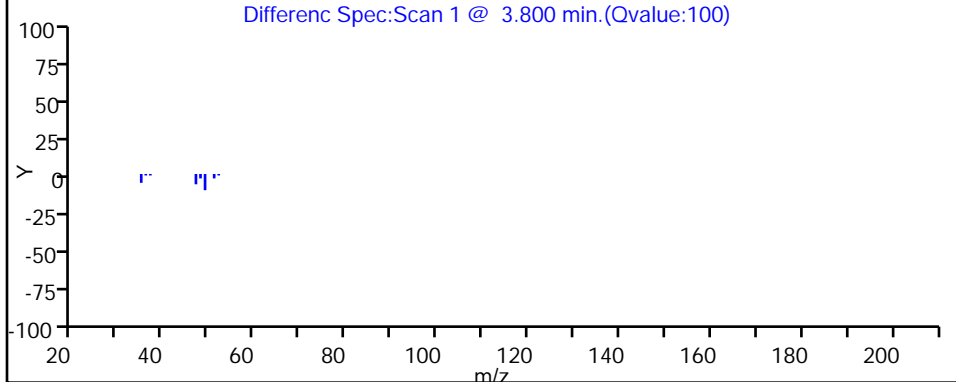
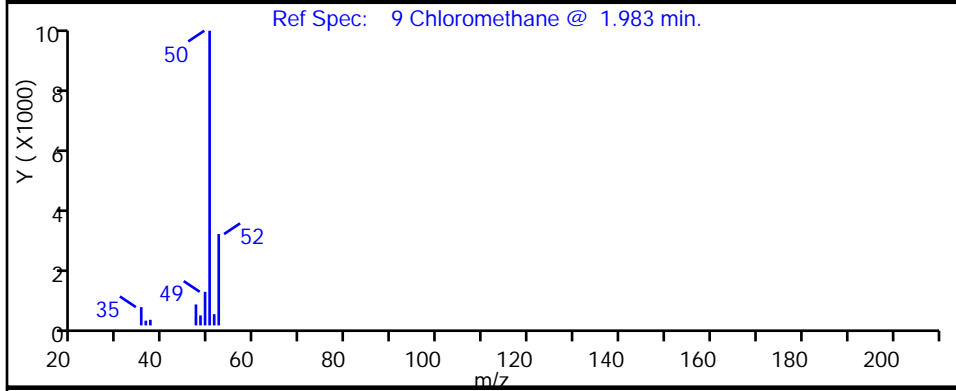
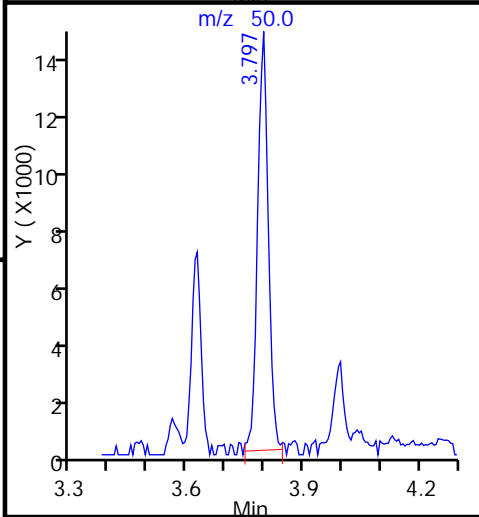
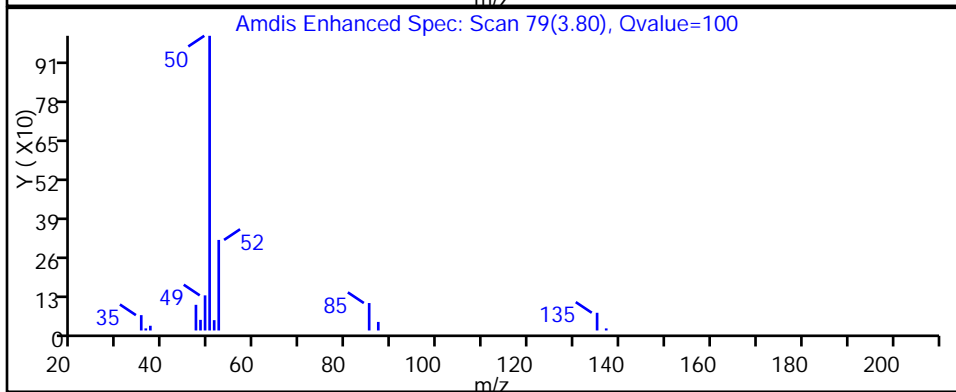
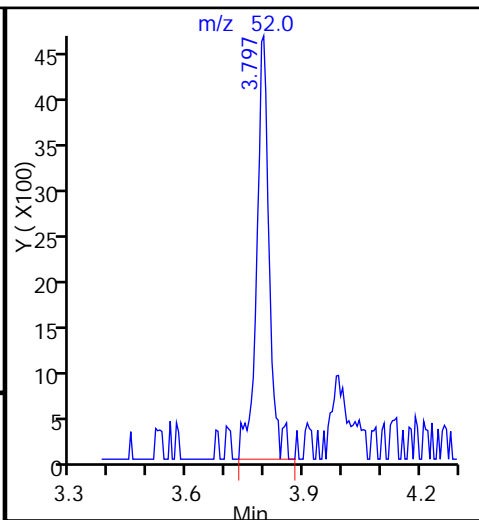
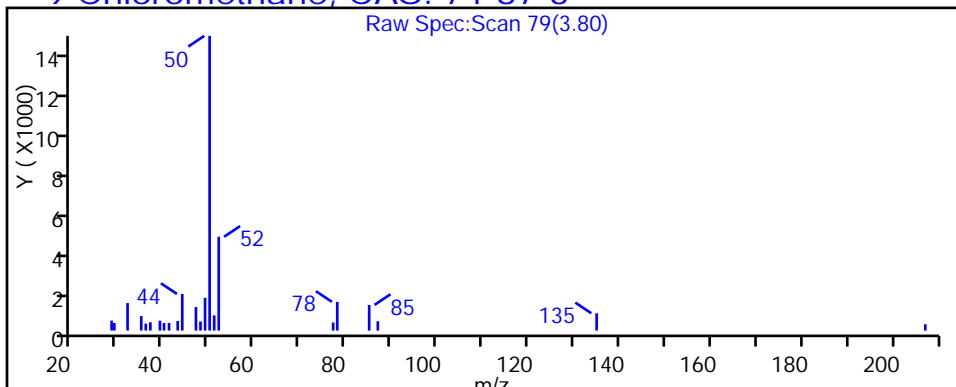
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

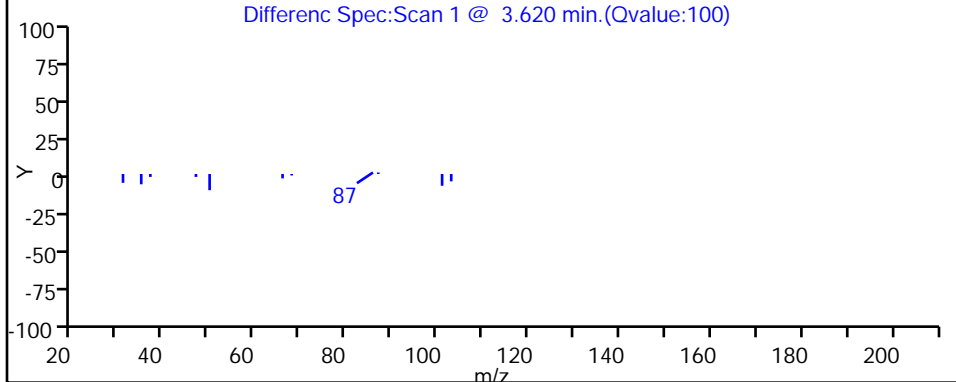
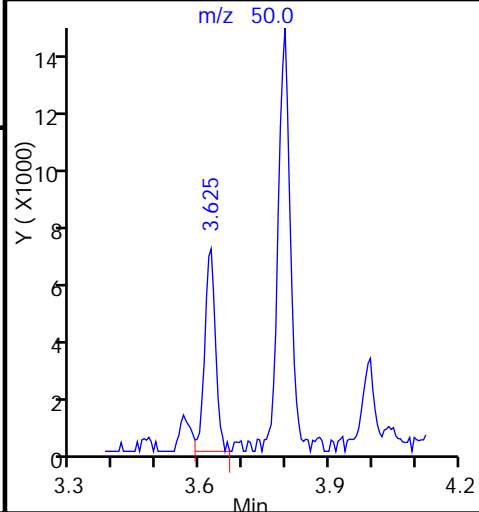
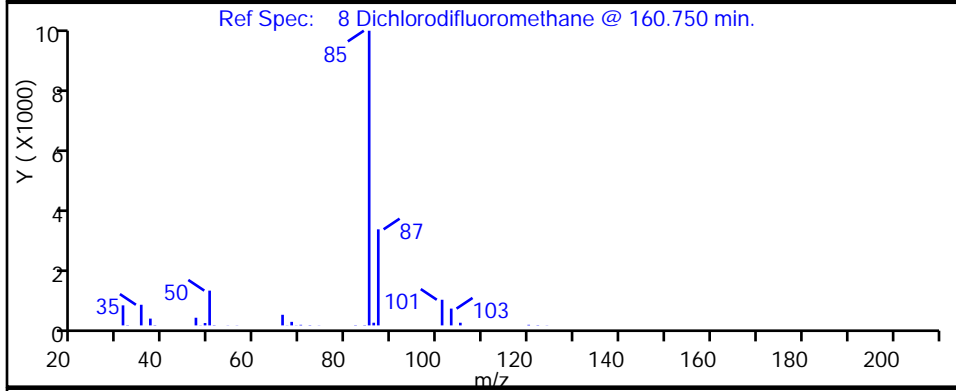
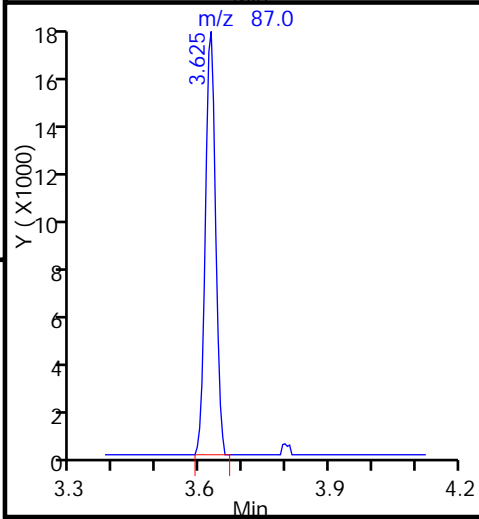
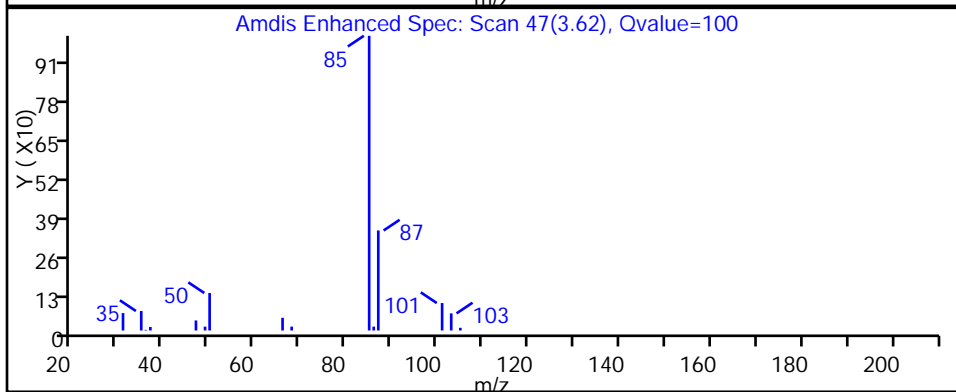
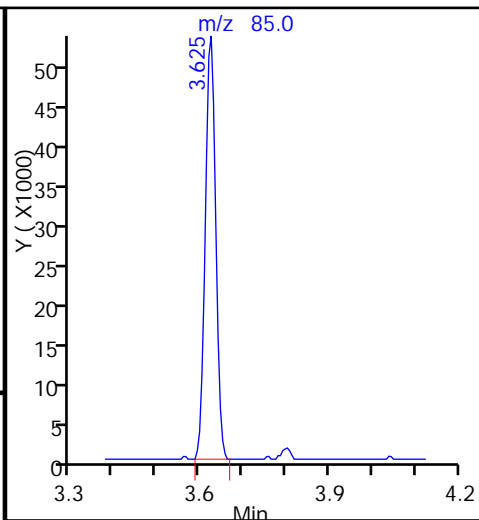
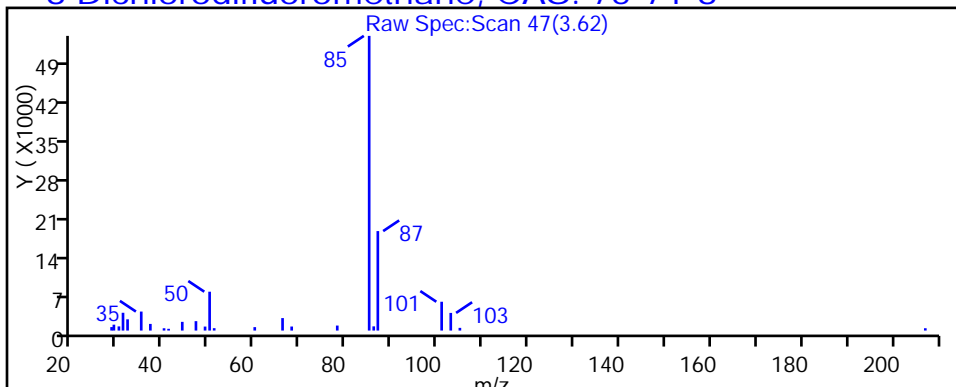
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

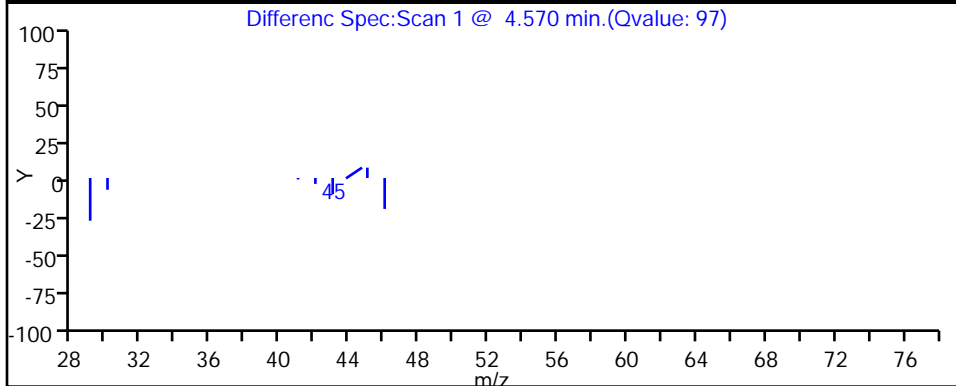
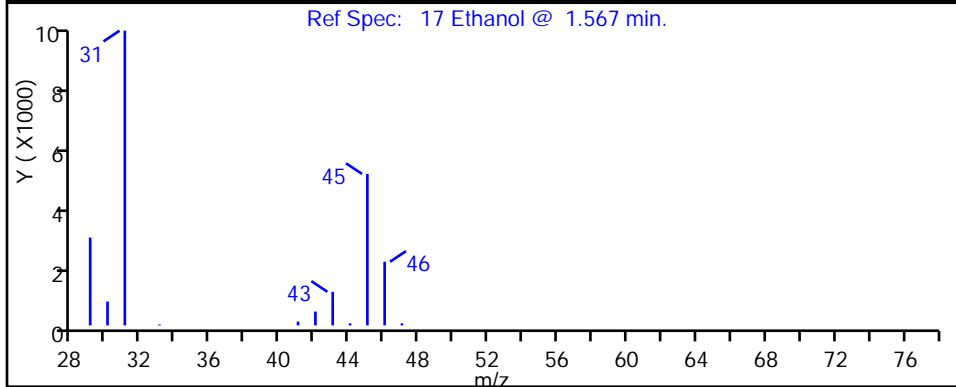
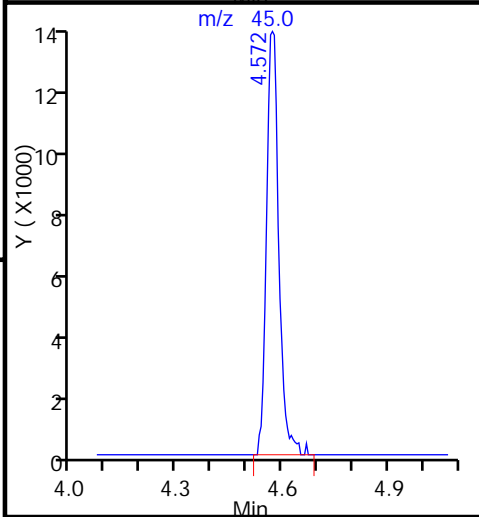
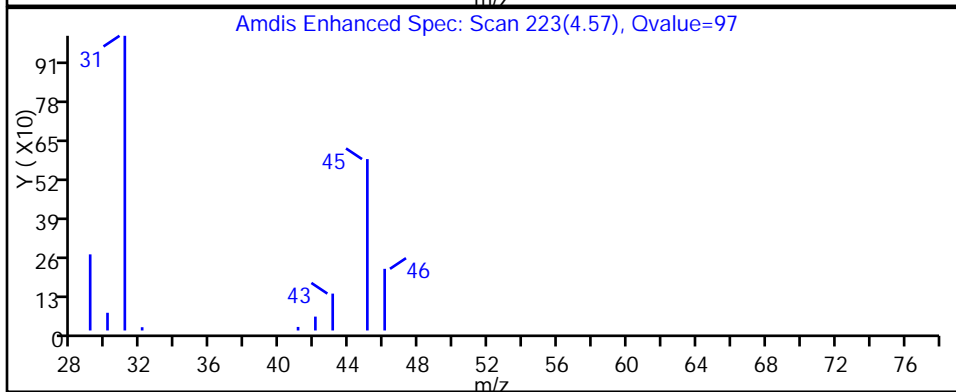
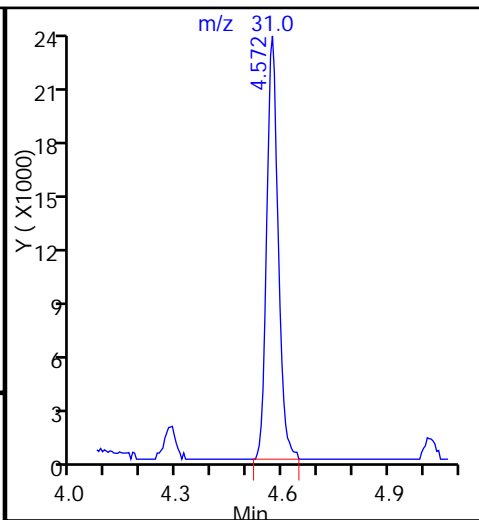
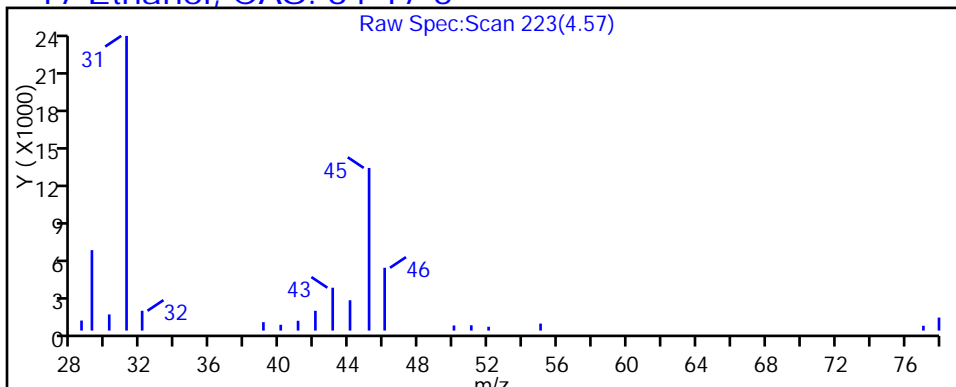
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

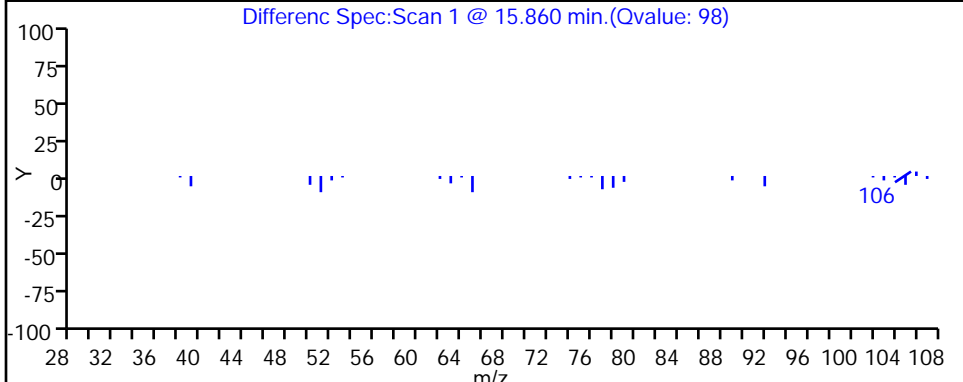
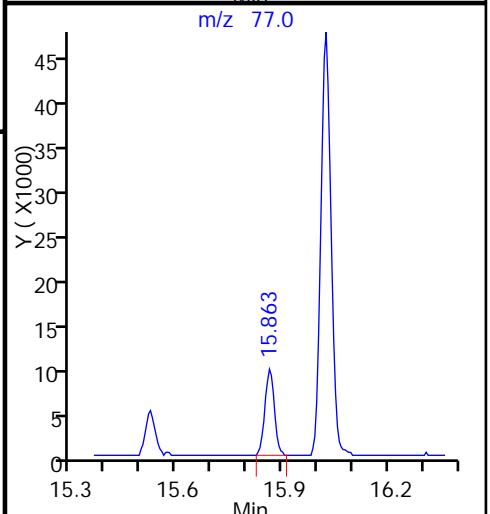
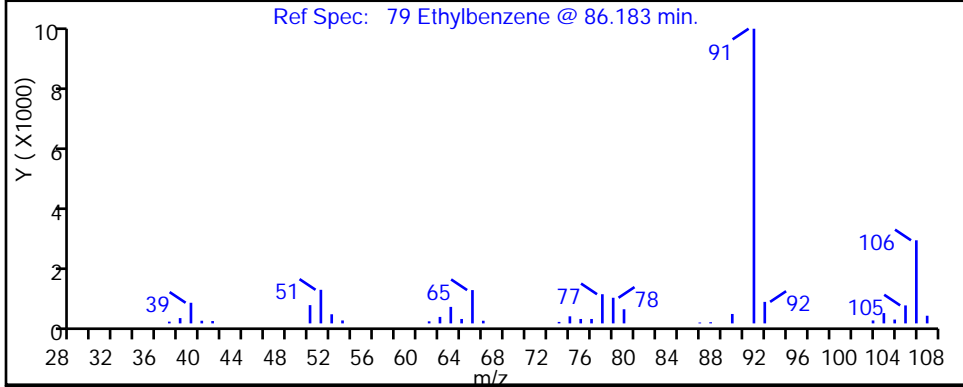
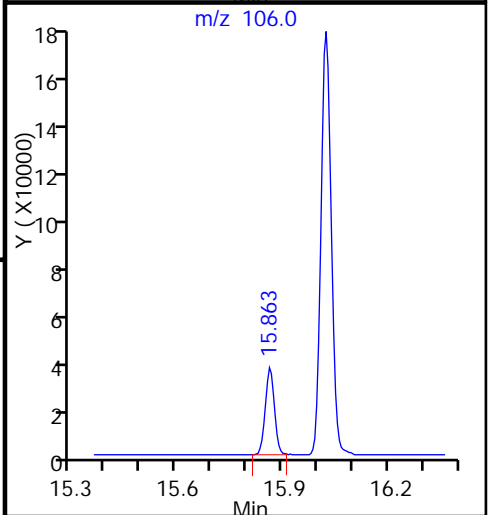
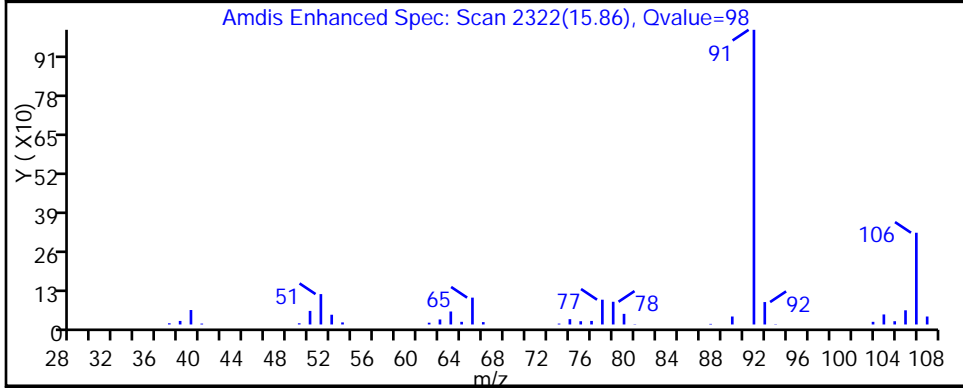
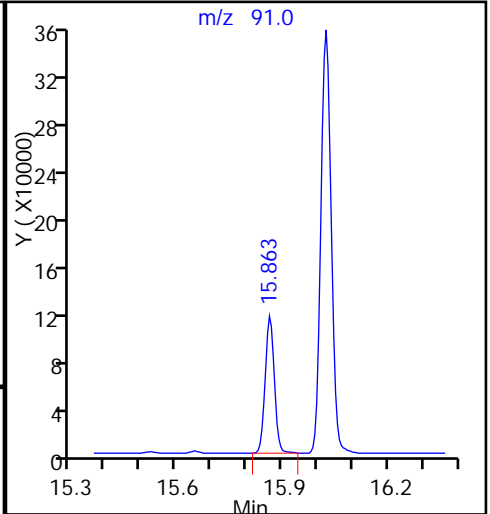
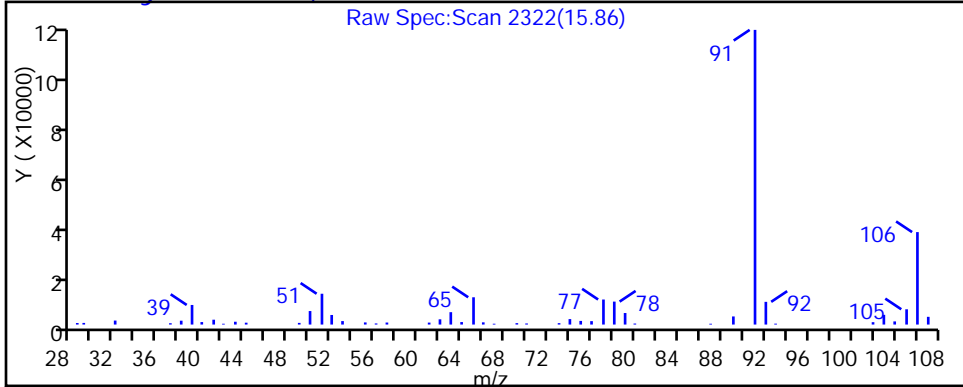
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

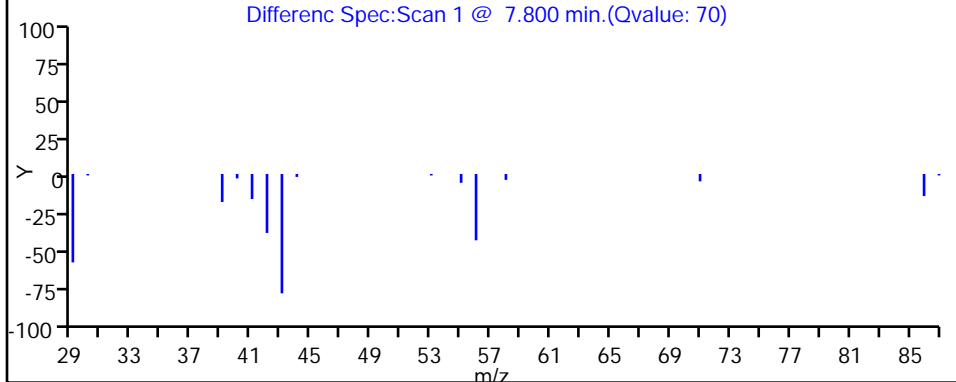
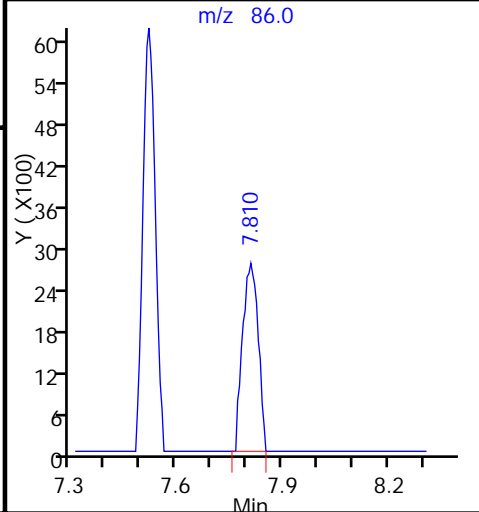
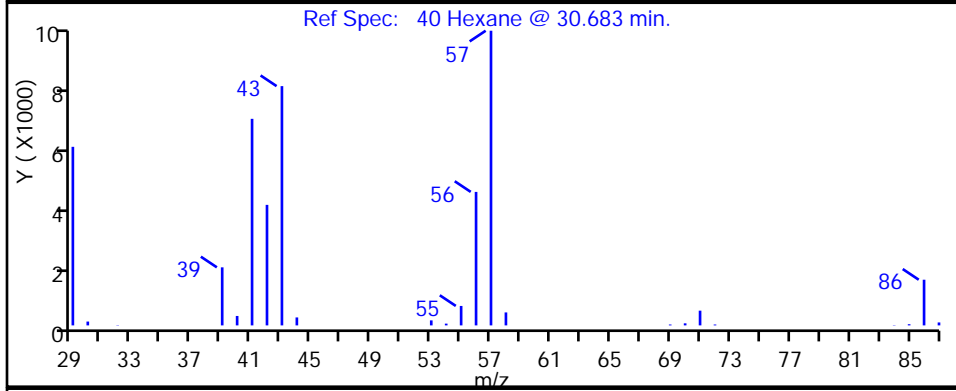
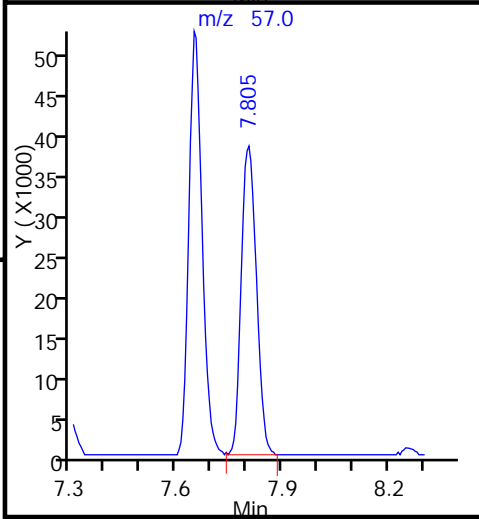
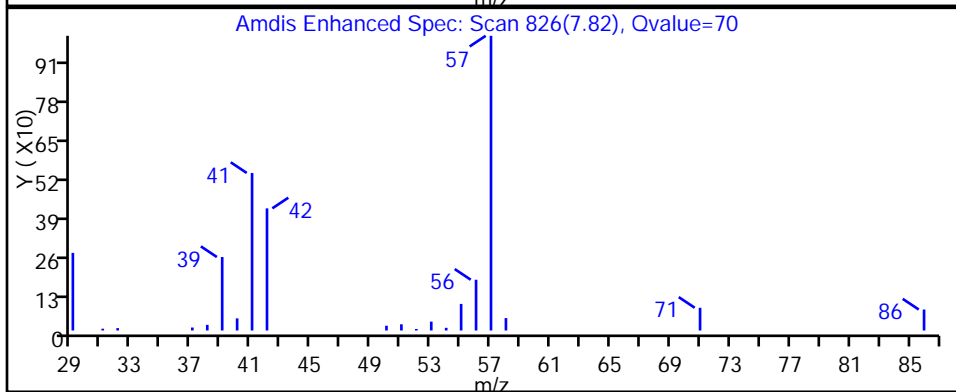
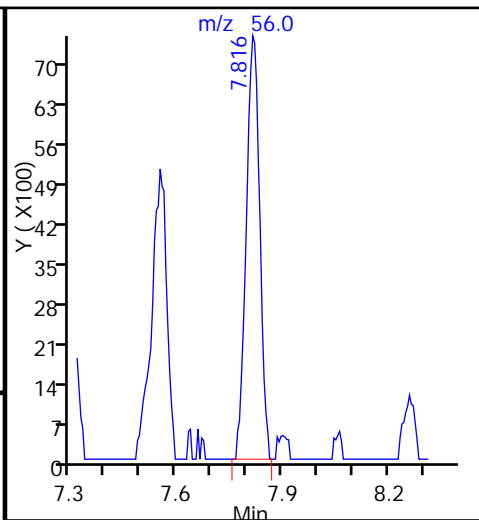
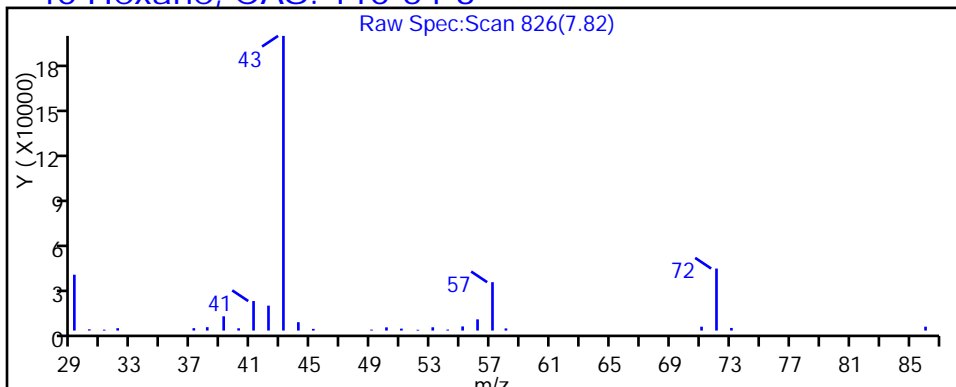
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

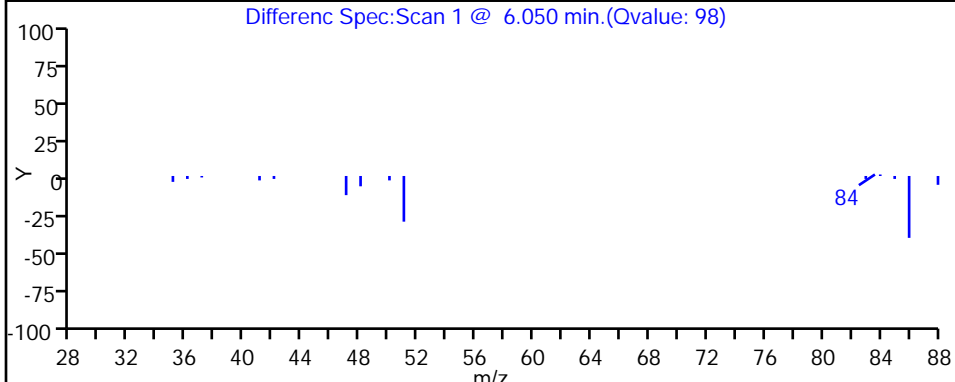
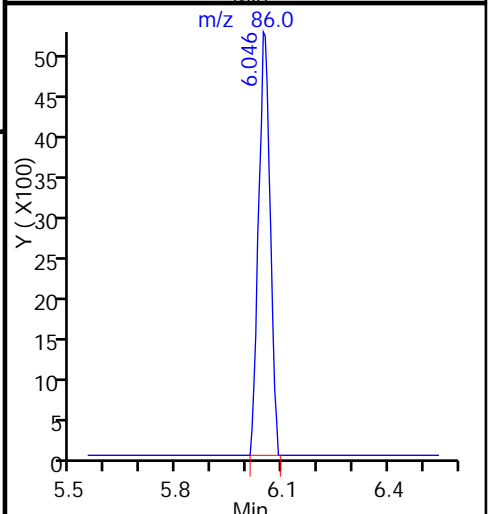
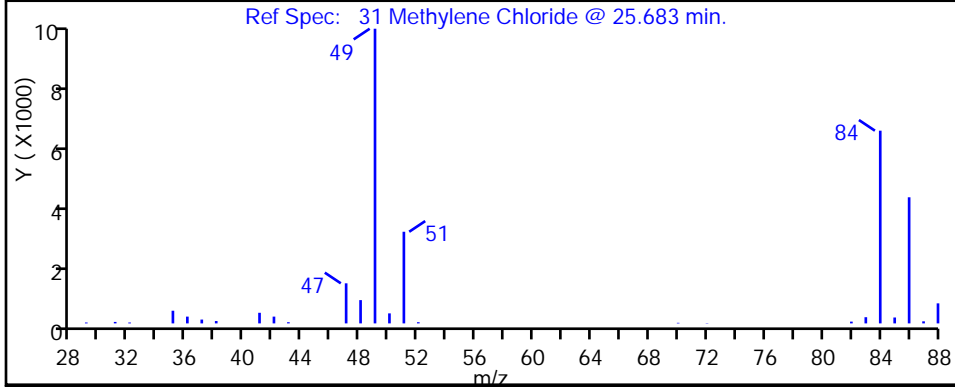
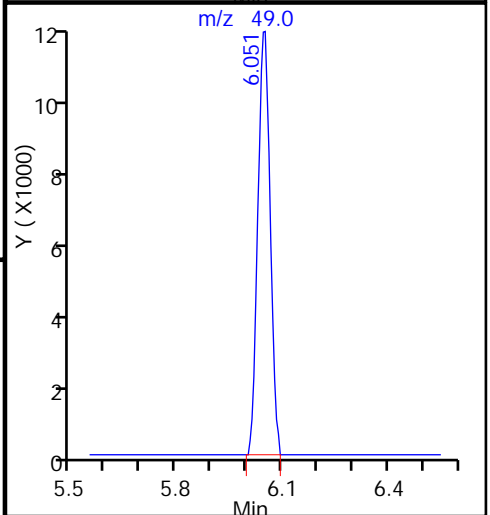
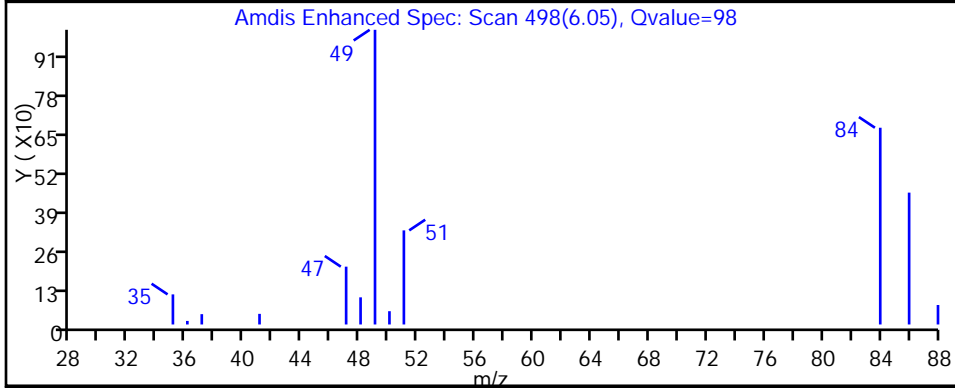
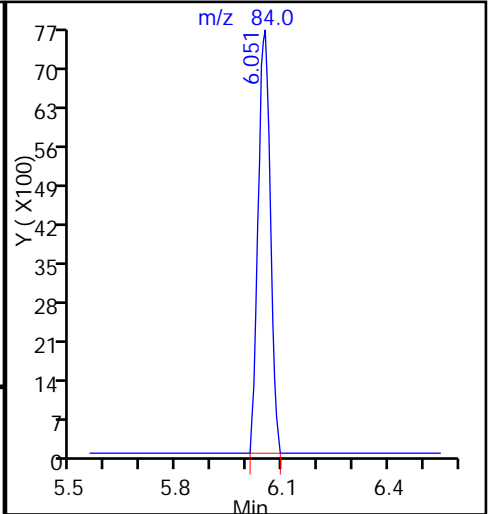
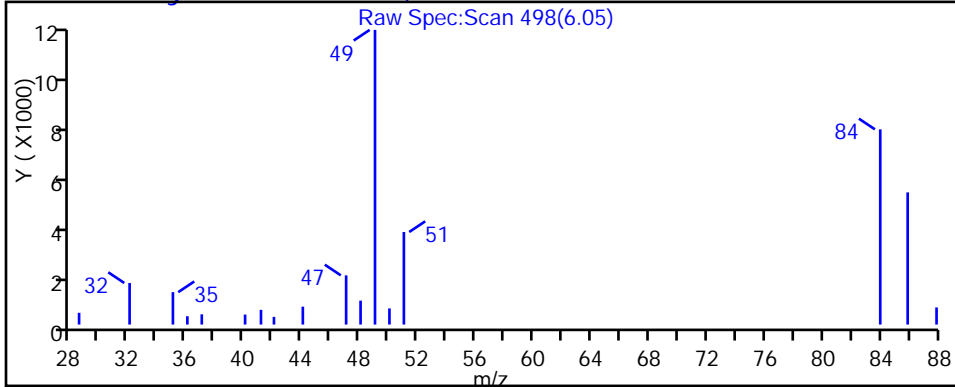
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

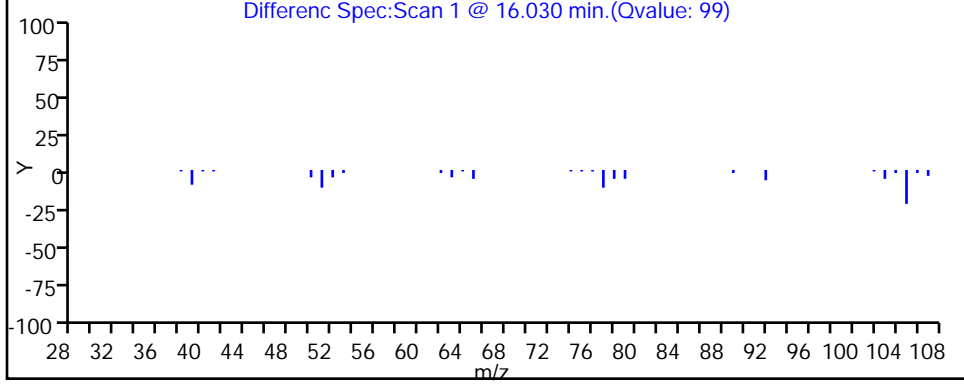
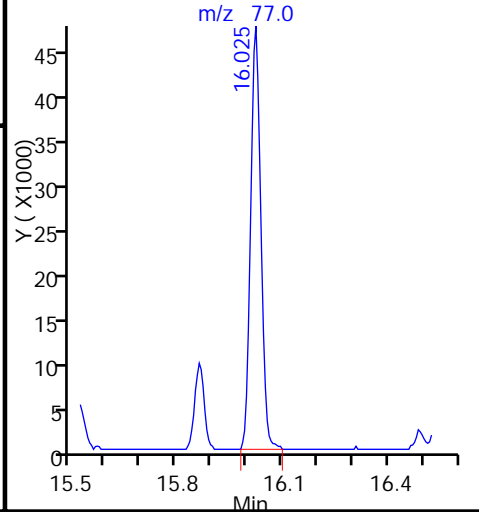
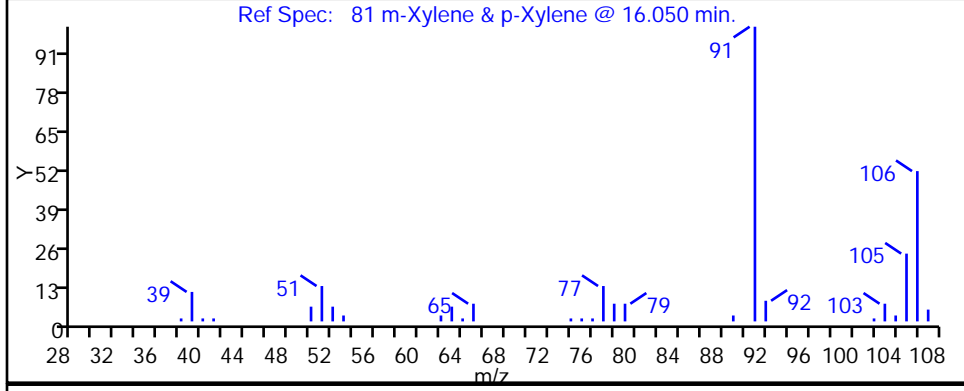
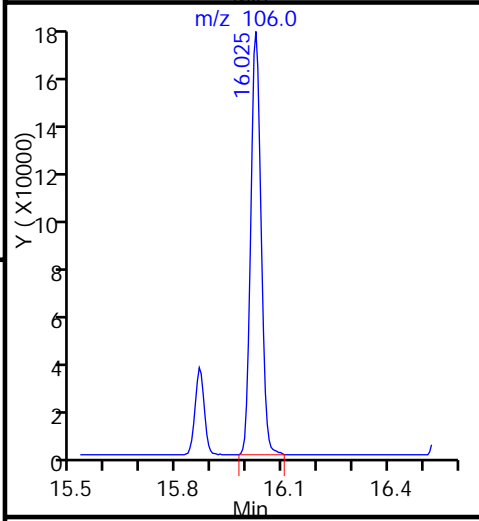
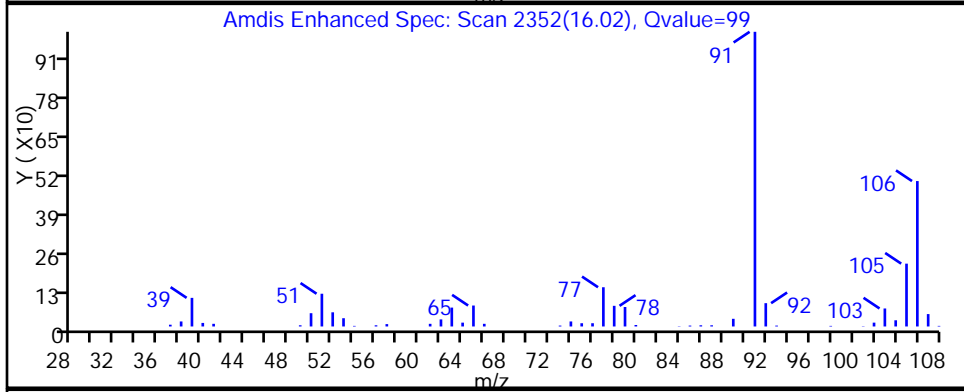
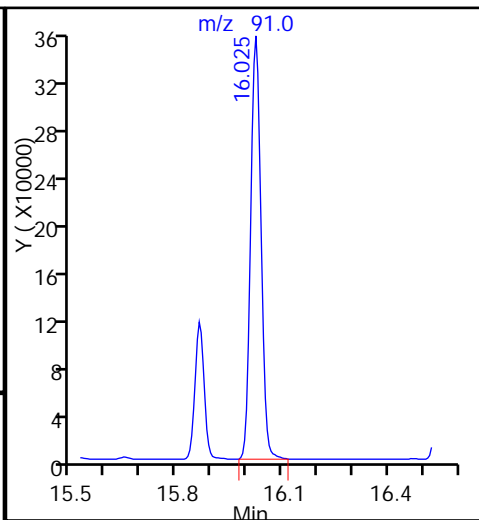
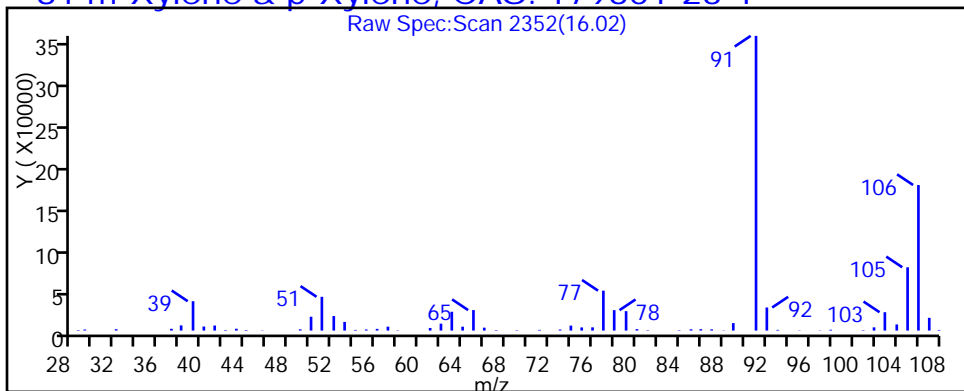
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

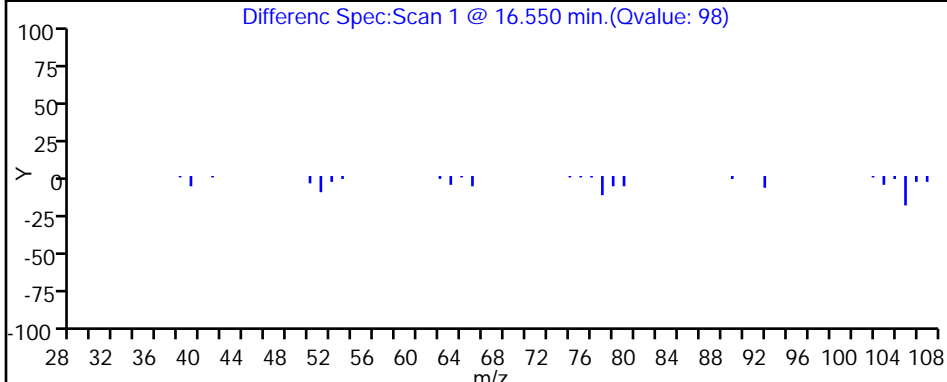
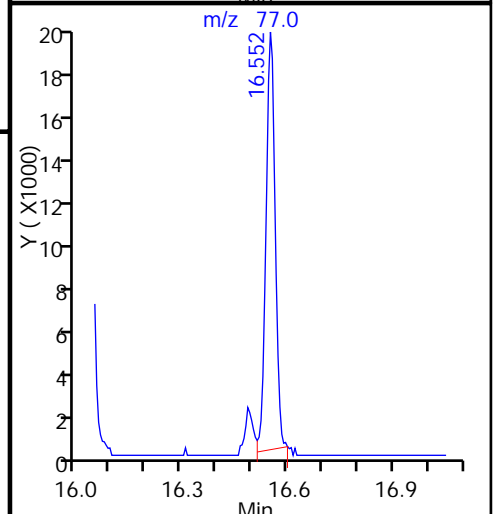
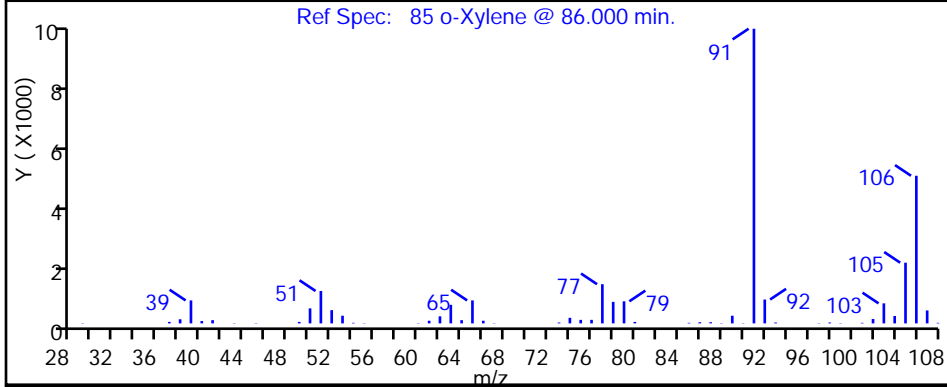
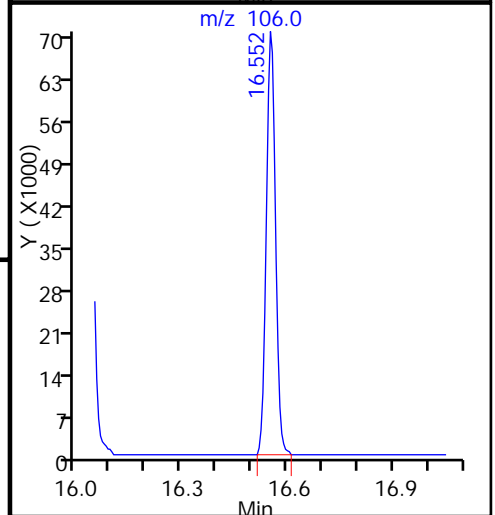
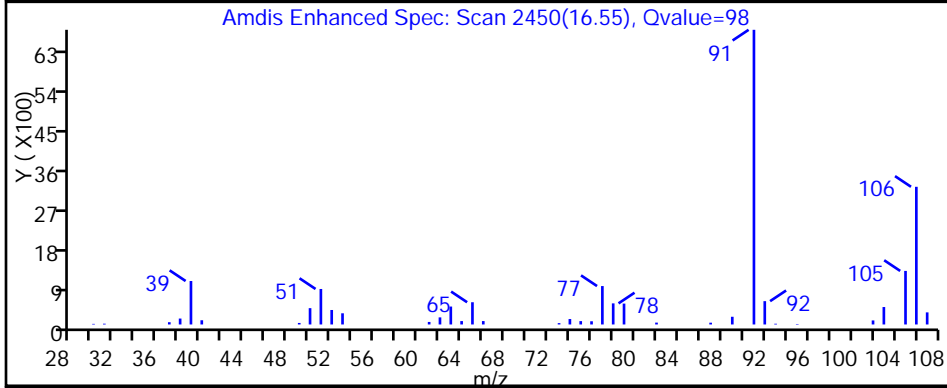
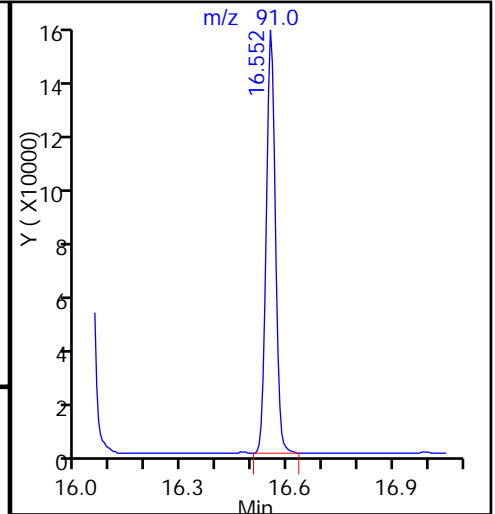
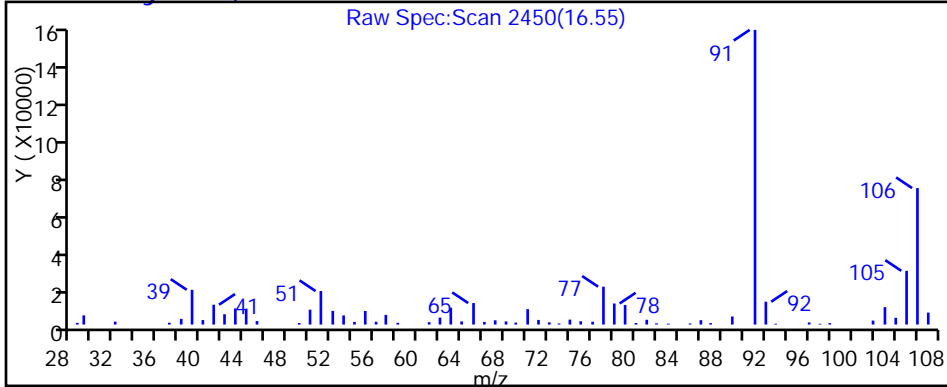
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

85 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

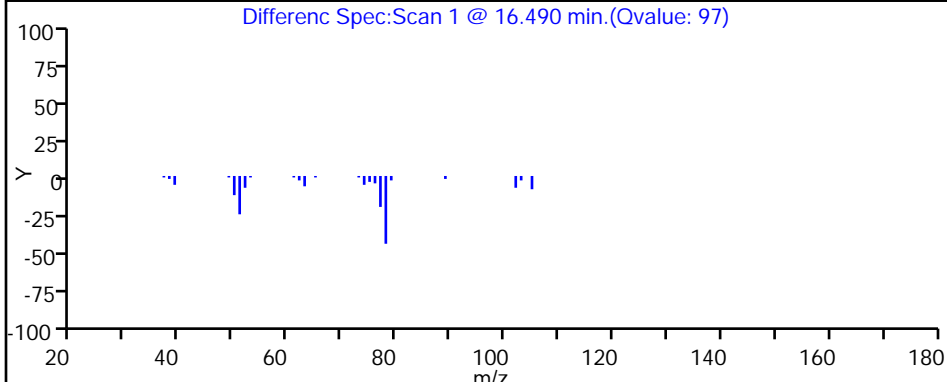
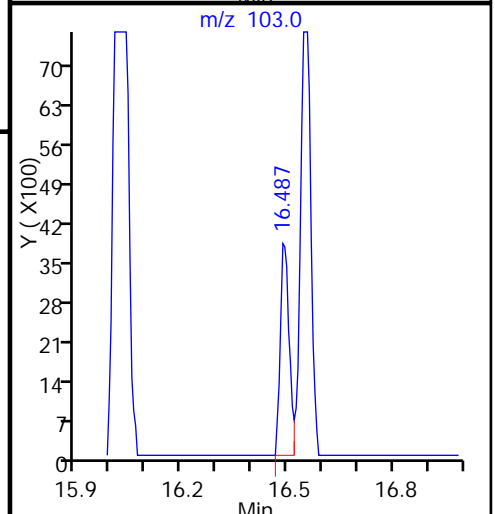
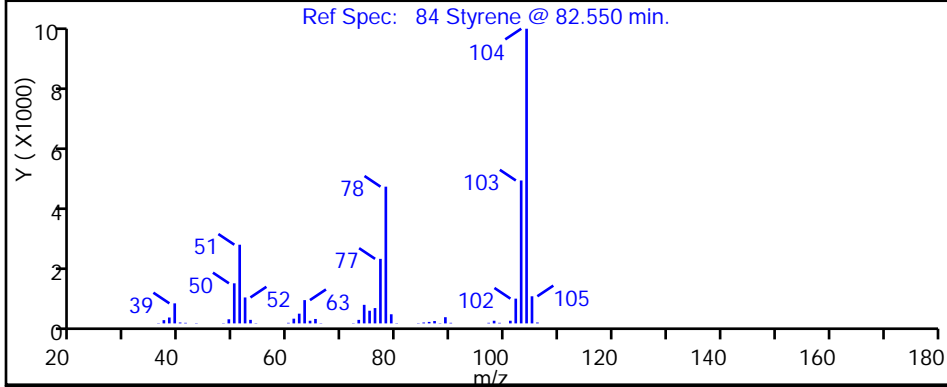
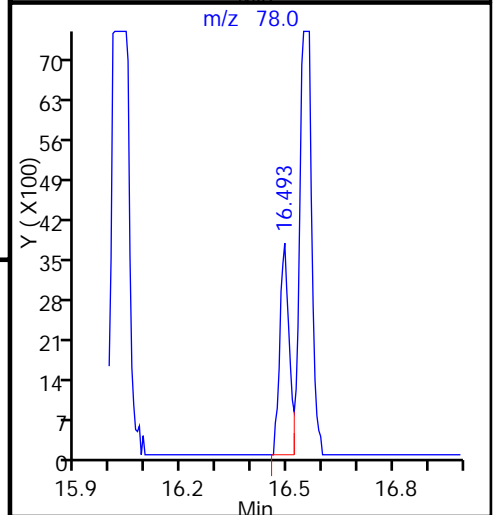
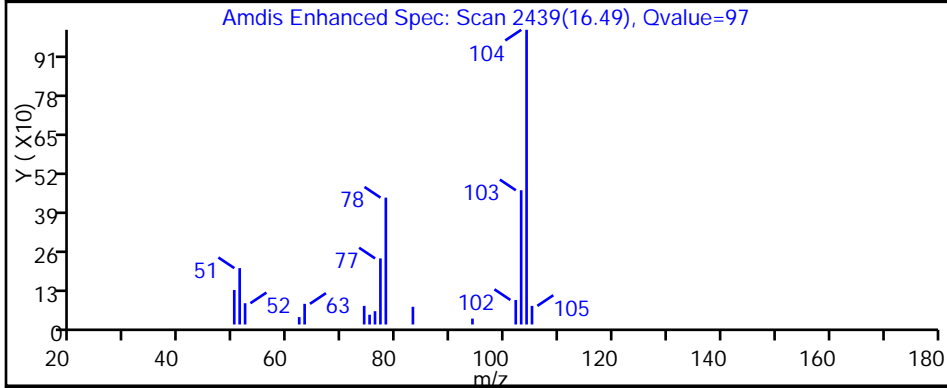
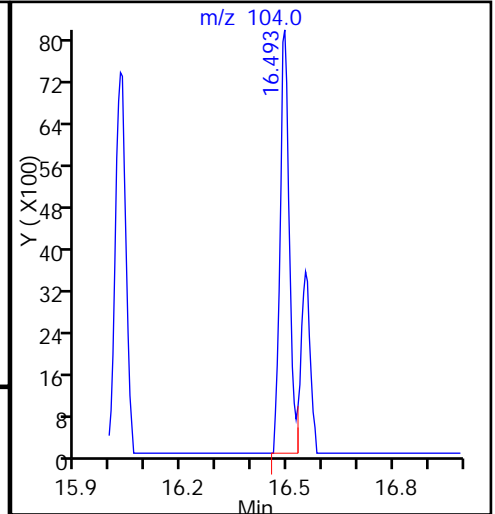
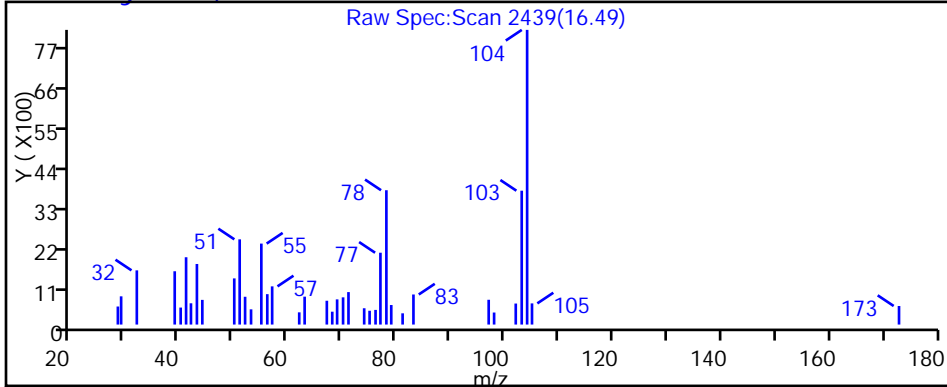
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

84 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1 Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

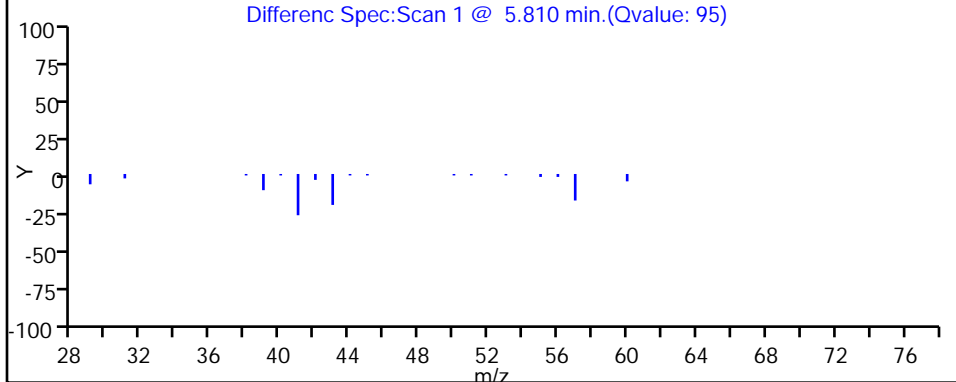
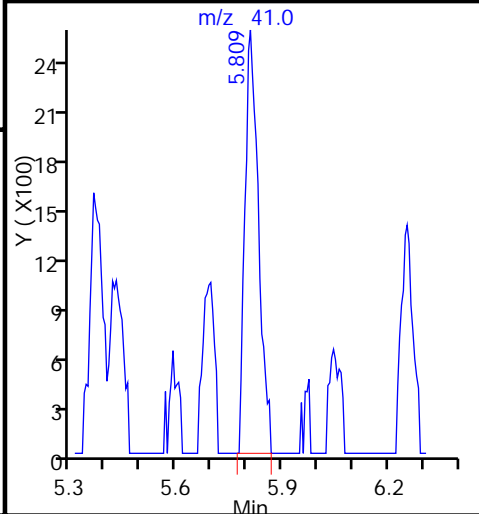
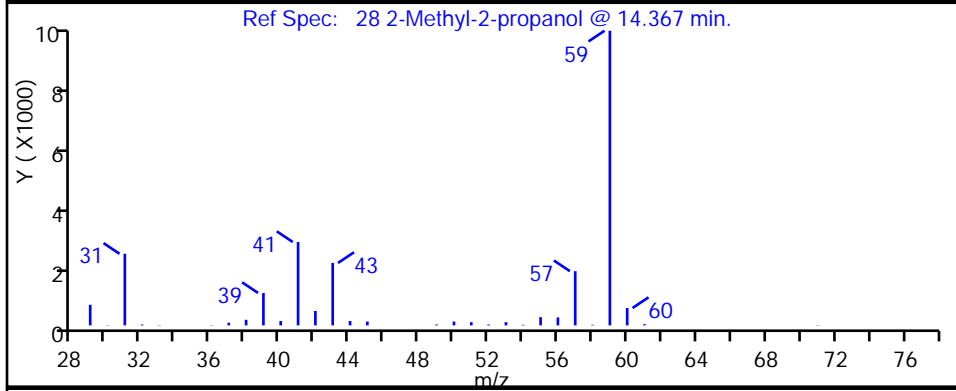
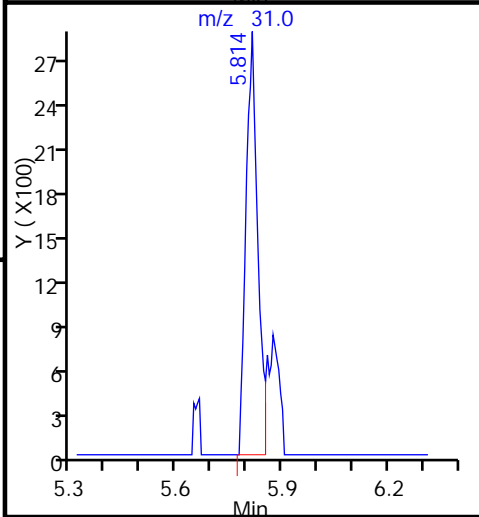
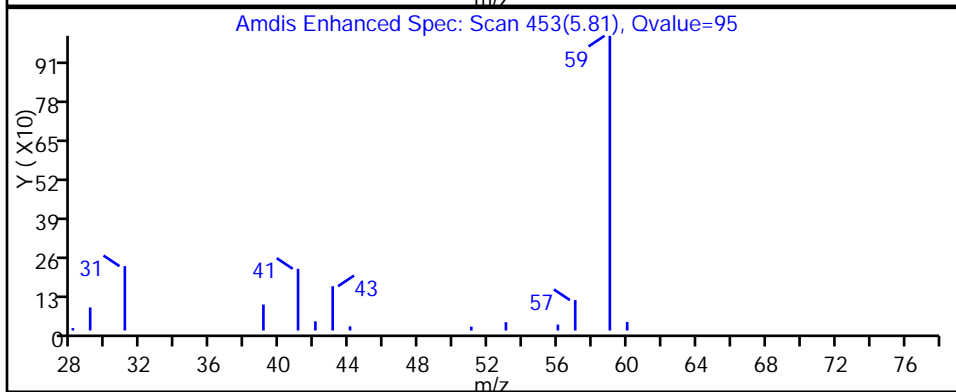
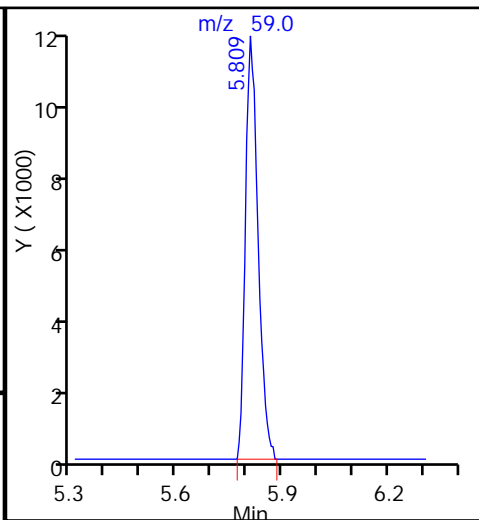
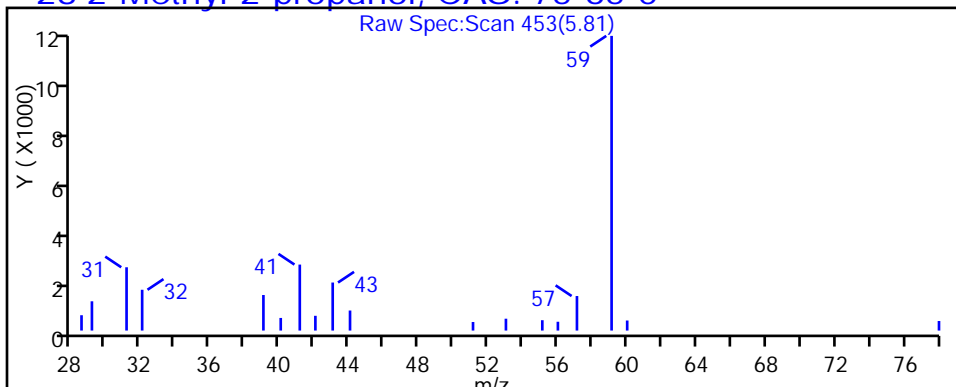
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

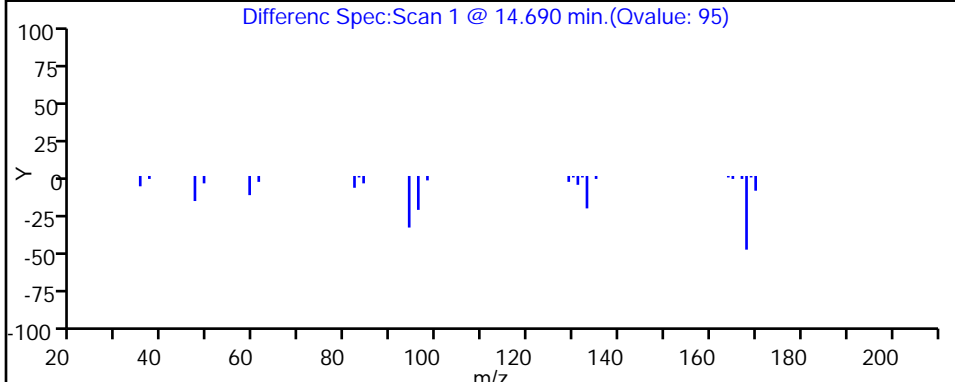
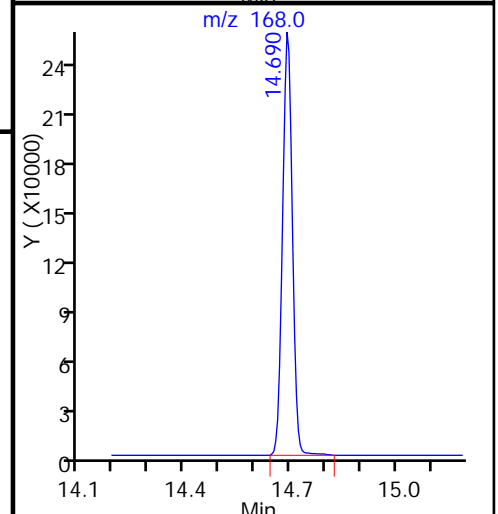
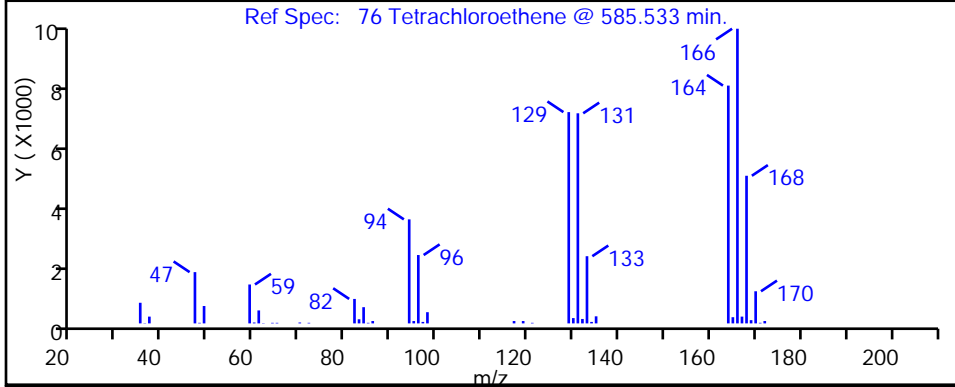
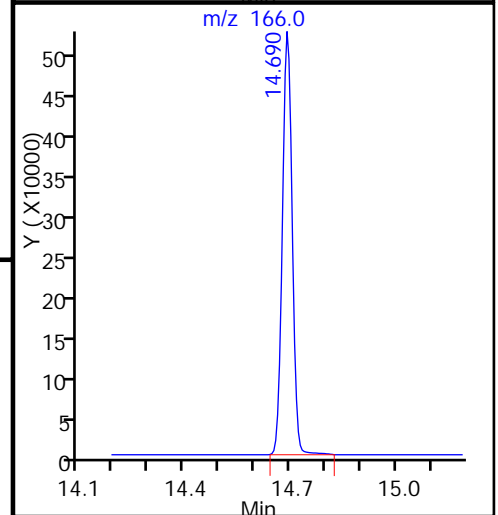
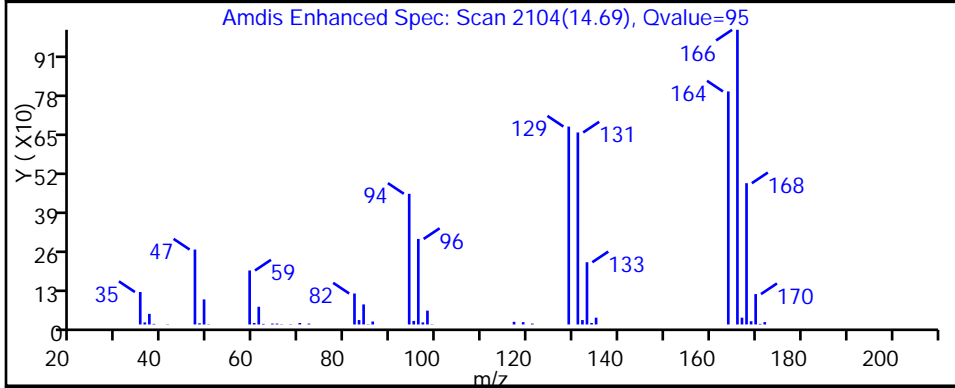
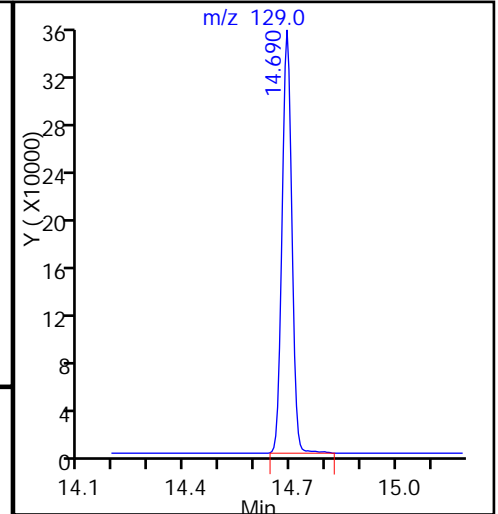
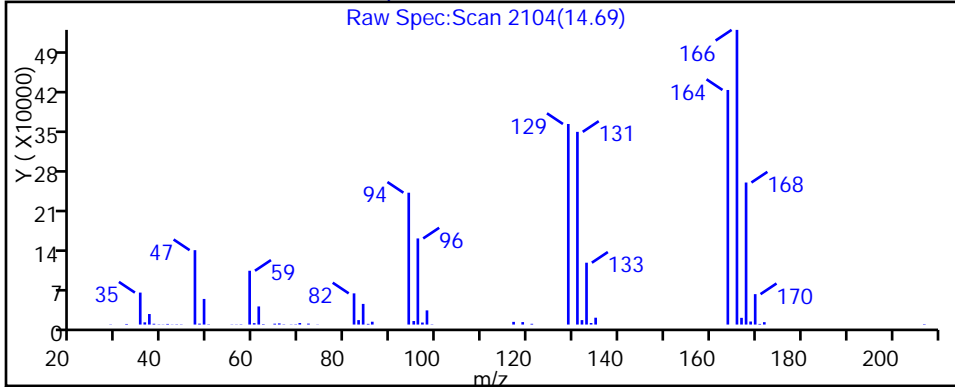
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

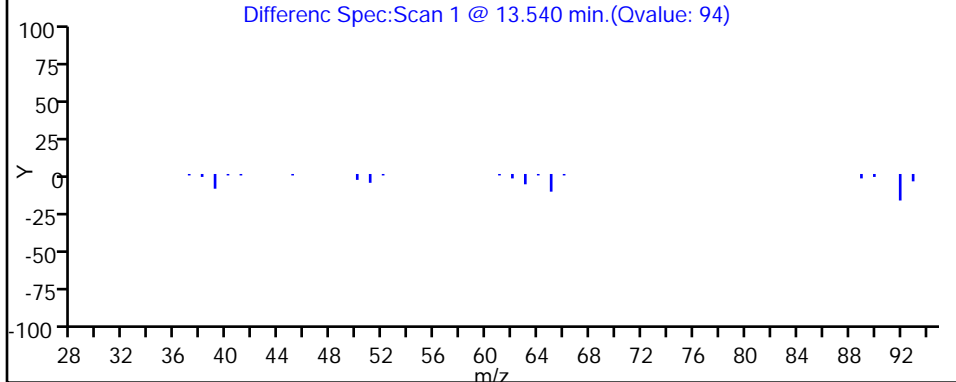
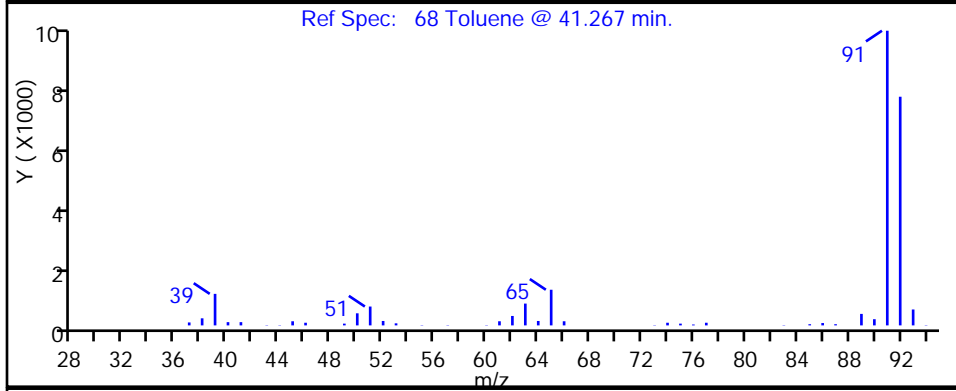
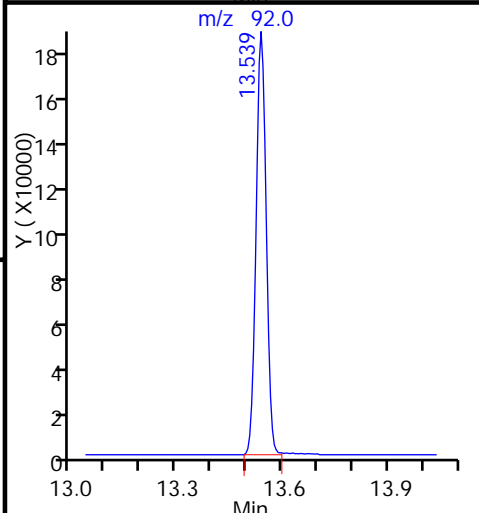
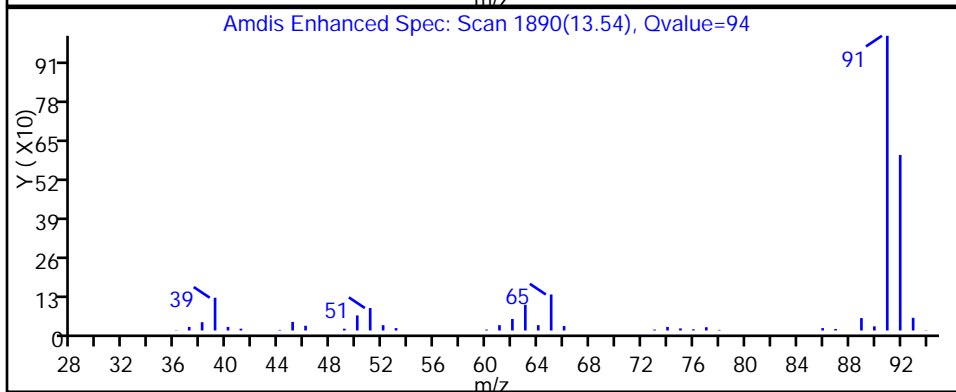
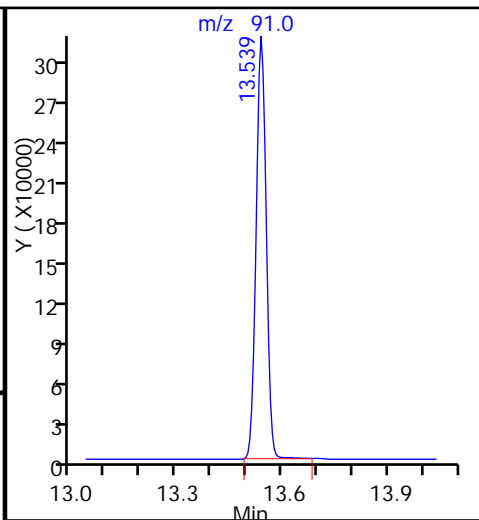
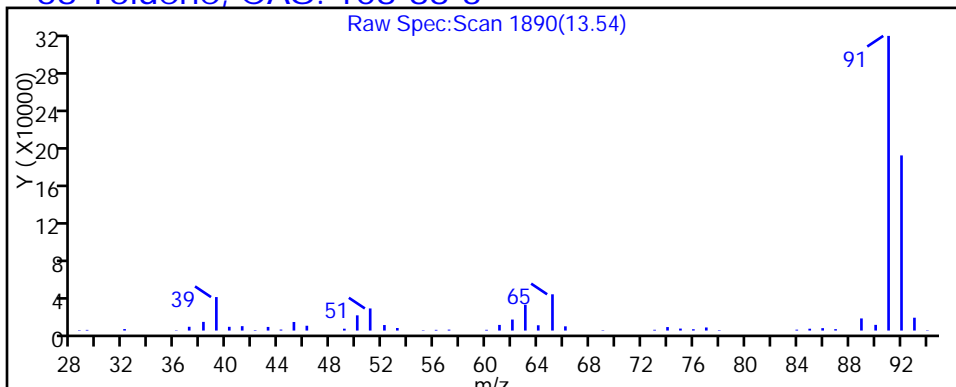
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P101.D

Injection Date: 26-Mar-2017 22:52:30

Instrument ID: MJ

Lims ID: 140-7503-A-1

Lab Sample ID: 140-7503-1

Client ID: SUB SLAB #1

Operator ID: 403648

ALS Bottle#: 1

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

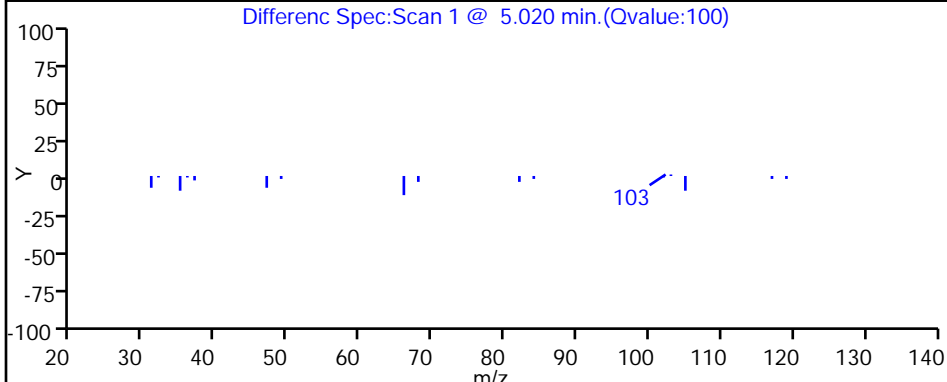
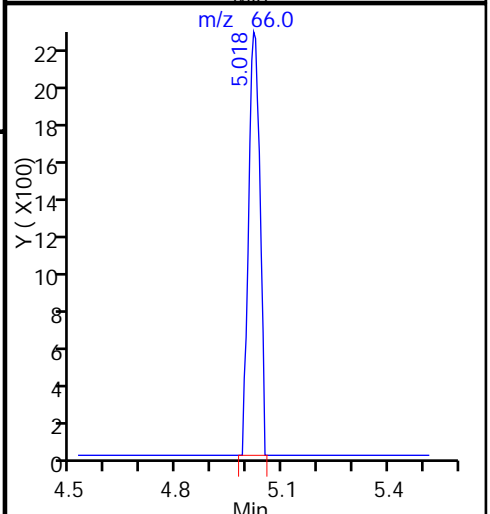
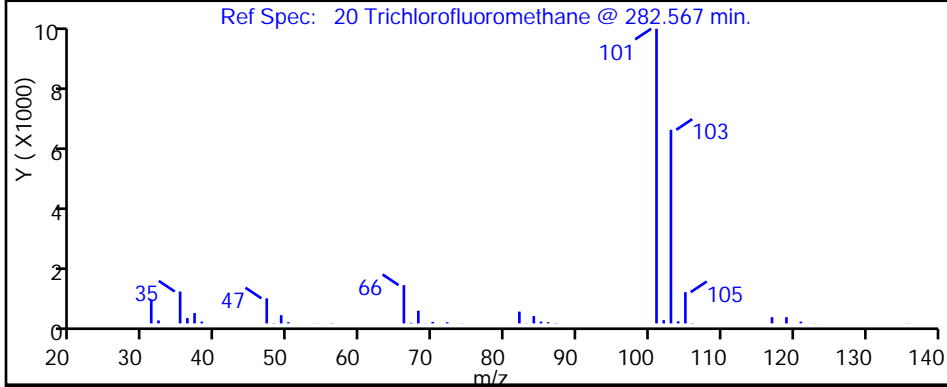
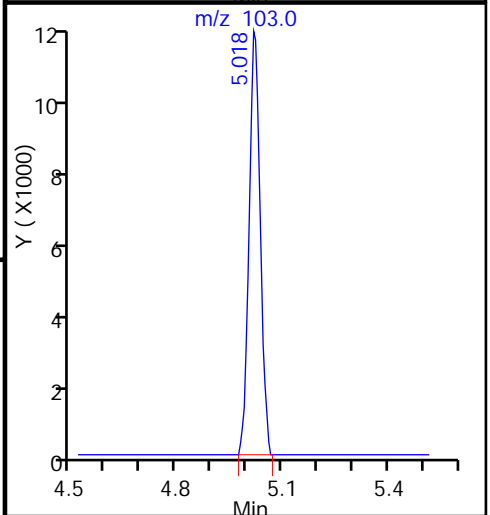
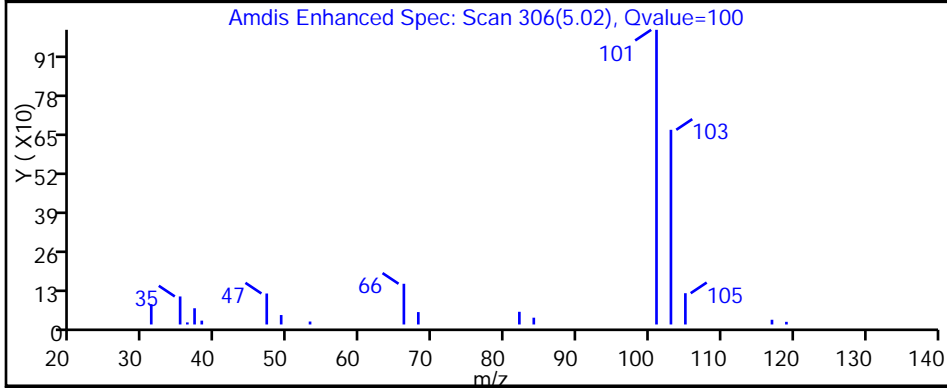
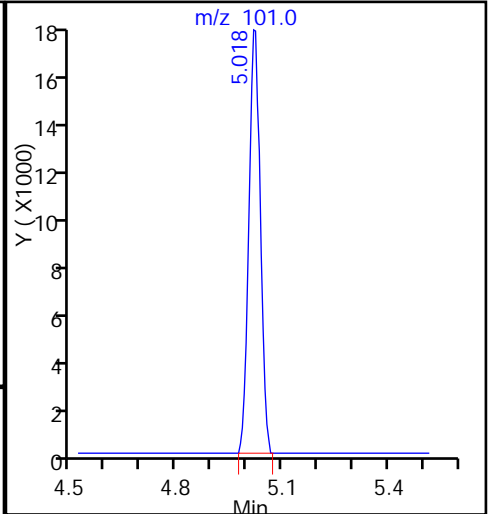
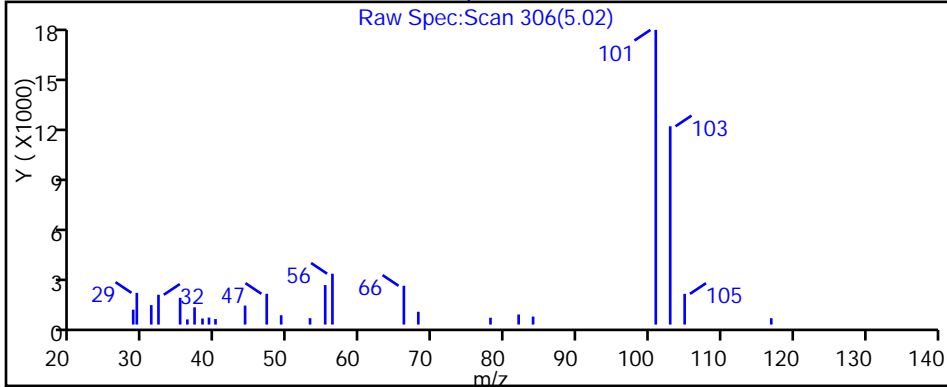
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #1 Lab Sample ID: 140-7503-2
 Matrix: Air Lab File ID: JC26P102.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:44
 Sample wt/vol: 500(mL) Date Analyzed: 03/26/2017 23:40
 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.: 9850 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
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	0.40		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	0.094		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	0.096		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20
78-93-3	2-Butanone	72.11	0.75		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.35		0.20
71-43-2	Benzene	78.11	0.17		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	0.069		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	ND		0.080
67-66-3	Chloroform	119.38	0.43		0.080
74-87-3	Chloromethane	50.49	0.60		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	ND		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #1 Lab Sample ID: 140-7503-2
 Matrix: Air Lab File ID: JC26P102.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:44
 Sample wt/vol: 500(mL) Date Analyzed: 03/26/2017 23:40
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.080	
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.080	
64-17-5	Ethanol	46.07	16		2.0	
100-41-4	Ethylbenzene	106.17	0.088		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	ND		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	0.45		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	0.32		0.080	
95-47-6	o-Xylene	106.17	0.12		0.080	
100-42-5	Styrene	104.15	ND		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	3.0		0.080	
108-88-3	Toluene	92.14	0.49		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-69-4	Trichlorofluoromethane	137.37	0.24		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

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.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #1 Lab Sample ID: 140-7503-2
 Matrix: Air Lab File ID: JC26P102.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:44
 Sample wt/vol: 500(mL) Date Analyzed: 03/26/2017 23:40
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	0.46		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	0.58		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93
78-93-3	2-Butanone	72.11	2.2		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.4		0.82
71-43-2	Benzene	78.11	0.53		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.43		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	2.1		0.39
74-87-3	Chloromethane	50.49	1.2		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #1 Lab Sample ID: 140-7503-2
 Matrix: Air Lab File ID: JC26P102.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:44
 Sample wt/vol: 500(mL) Date Analyzed: 03/26/2017 23:40
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.40
64-17-5	Ethanol	46.07	29		3.8
100-41-4	Ethylbenzene	106.17	0.38		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	ND		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	1.6		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	1.4		0.35
95-47-6	o-Xylene	106.17	0.50		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	20		0.54
108-88-3	Toluene	92.14	1.9		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	1.3		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

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

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D
 Lims ID: 140-7503-A-2
 Client ID: AMBIENT #1
 Sample Type: Client
 Inject. Date: 26-Mar-2017 23:40:30 ALS Bottle#: 2 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-017
 Misc. Info.: 140-7503-a-2
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh Date: 27-Mar-2017 15:37:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.543	8.547	-0.004	96	232251	4.00	
* 2 1,4-Difluorobenzene	114	10.743	10.748	-0.005	95	1116515	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.526	15.524	0.002	88	1002389	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.172	17.171	0.001	94	685664	3.92	
8 Dichlorodifluoromethane	85	3.626	3.625	0.001	100	91474	0.4595	
9 Chloromethane	52	3.798	3.797	0.001	99	13001	0.5955	M
10 1,2-Dichloro-1,1,2,2-tetra	135	3.804	3.803	0.001	34	1351	0.0153	
16 Chloroethane	64	4.482	4.475	0.007	83	1207	0.0456	
17 Ethanol	31	4.573	4.566	0.007	96	214125	15.6	
20 Trichlorofluoromethane	101	5.025	5.024	0.001	100	43515	0.2381	
28 2-Methyl-2-propanol	59	5.826	5.804	0.022	91	5303	0.0616	
30 1,1,2-Trichloro-1,2,2-trif	101	5.886	5.879	0.007	95	9110	0.0616	
31 Methylene Chloride	84	6.047	6.046	0.001	98	32302	0.4501	
39 2-Butanone (MEK)	72	7.811	7.810	0.001	97	12838	0.7513	
40 Hexane	56	7.817	7.821	-0.004	78	10646	0.1746	
44 Chloroform	83	8.559	8.563	-0.004	97	66018	0.4307	
50 Cyclohexane	69	10.195	10.188	0.007	53	1112	0.0330	
51 Benzene	78	10.184	10.188	-0.004	97	36166	0.1653	
52 Carbon tetrachloride	117	10.205	10.210	-0.005	97	11661	0.0691	
56 Isooctane	57	10.964	10.968	-0.004	94	18841	0.0499	
62 Dichlorobromomethane	83	11.695	11.700	-0.005	94	6138	0.0405	
65 4-Methyl-2-pentanone (MIBK	43	12.674	12.668	0.006	98	32348	0.3451	
68 Toluene	91	13.541	13.539	0.002	94	104349	0.4923	
76 Tetrachloroethene	129	14.692	14.691	0.001	95	264427	3.01	
79 Ethylbenzene	91	15.864	15.863	0.001	98	21049	0.0880	
81 m-Xylene & p-Xylene	91	16.026	16.030	-0.004	99	56075	0.3239	
85 o-Xylene	91	16.553	16.552	0.001	98	20400	0.1156	
92 1,3,5-Trimethylbenzene	120	17.919	17.918	0.001	93	8646	0.0938	
96 1,2,4-Trimethylbenzene	105	18.361	18.365	-0.004	98	63860	0.4029	
100 1,4-Dichlorobenzene	146	18.721	18.725	-0.004	94	14126	0.0961	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Worklist Smp#: 17

Client ID: AMBIENT #1

Purge Vol: 500.000 mL

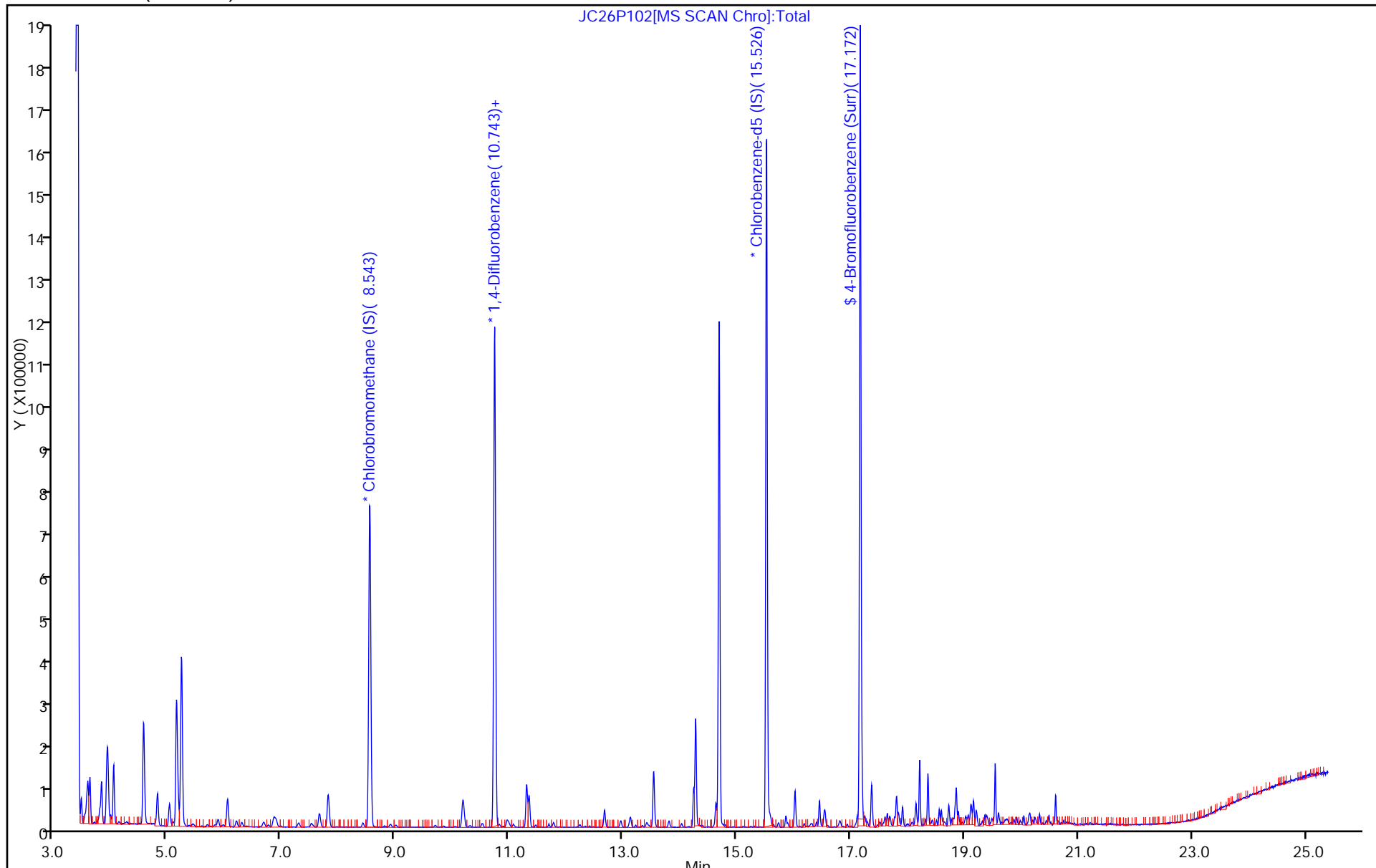
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D
 Lims ID: 140-7503-A-2
 Client ID: AMBIENT #1
 Sample Type: Client
 Inject. Date: 26-Mar-2017 23:40:30 ALS Bottle#: 2 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-017
 Misc. Info.: 140-7503-a-2
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh Date: 27-Mar-2017 15:37:42

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	3.92	97.97

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

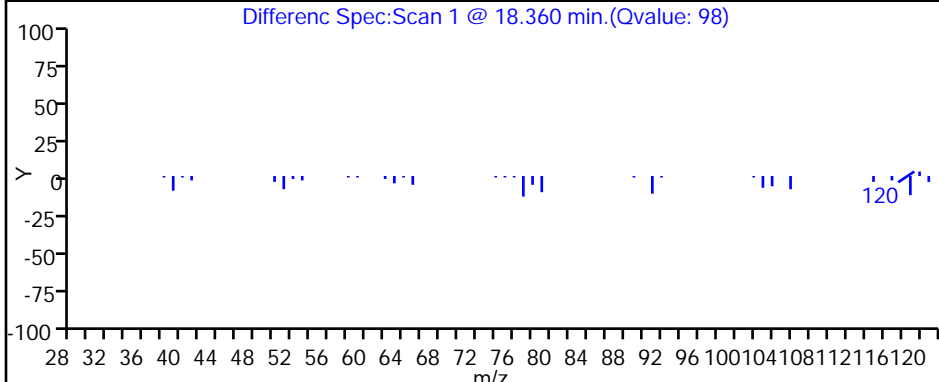
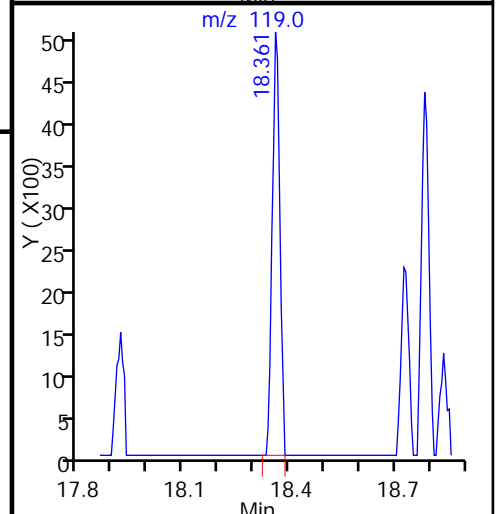
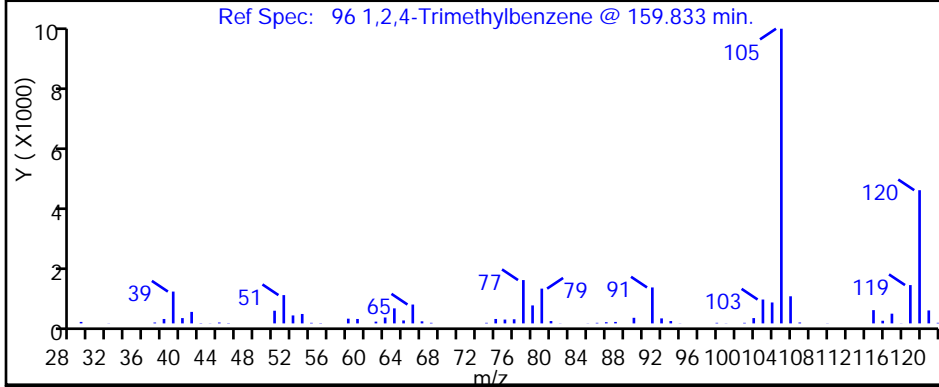
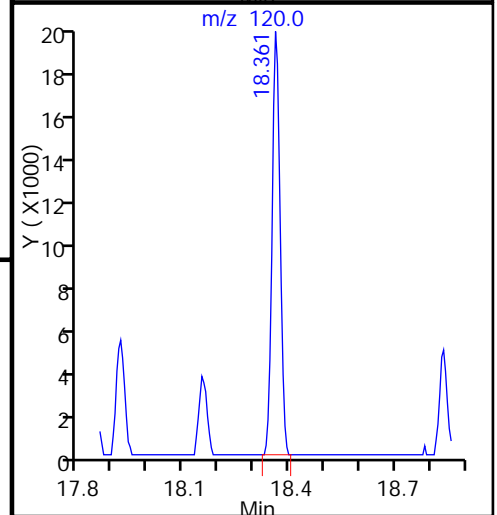
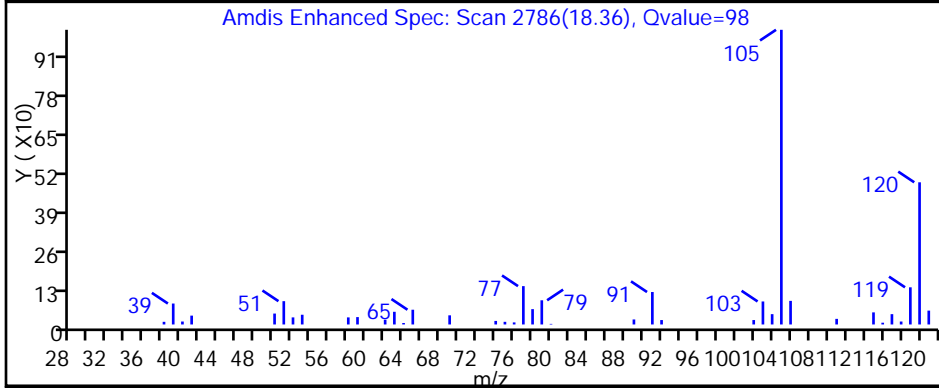
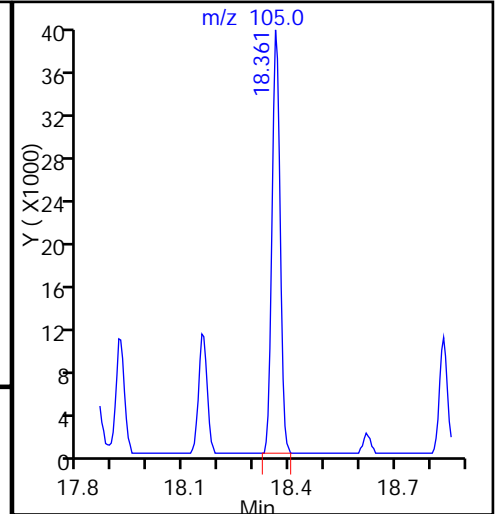
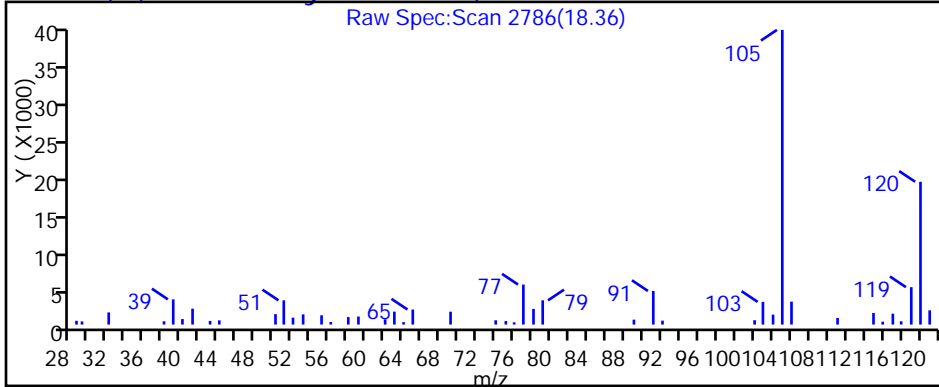
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

96 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

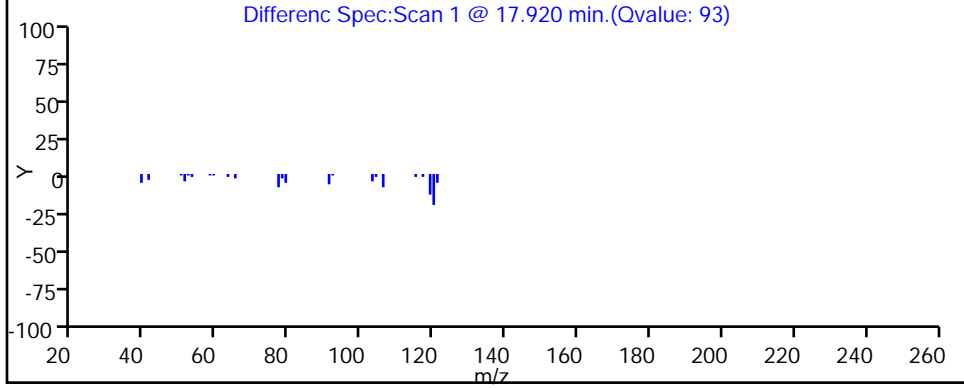
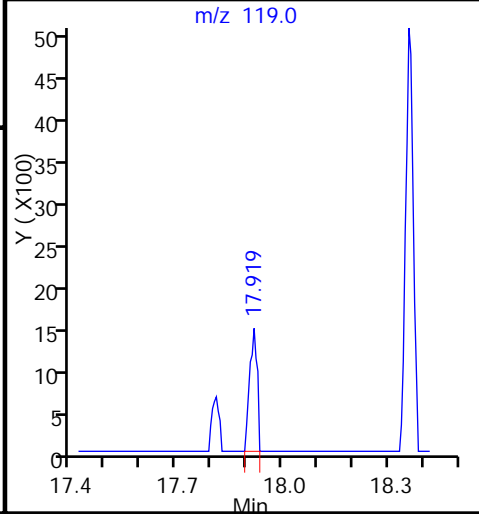
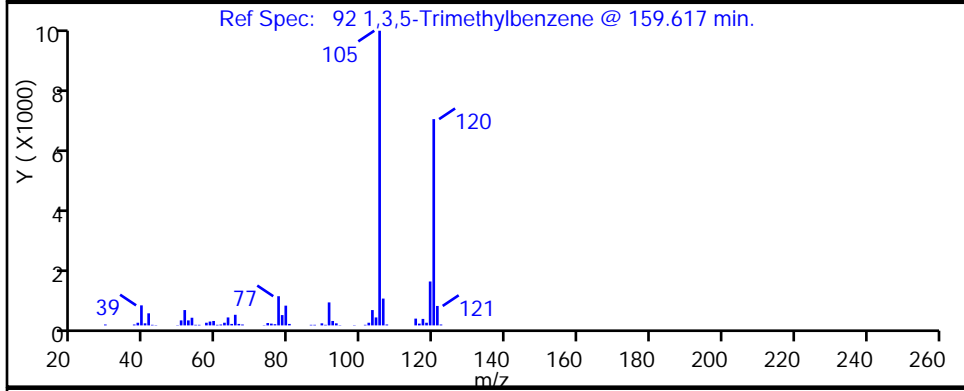
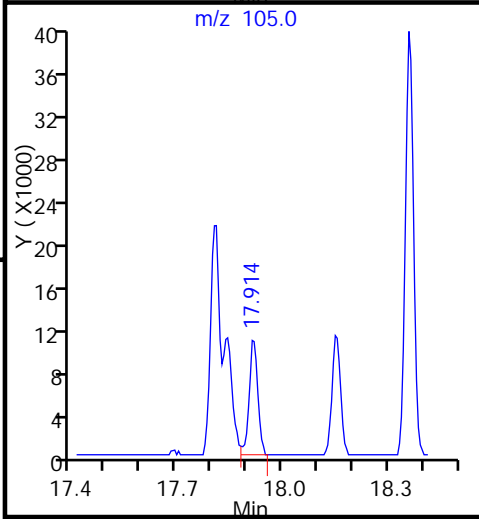
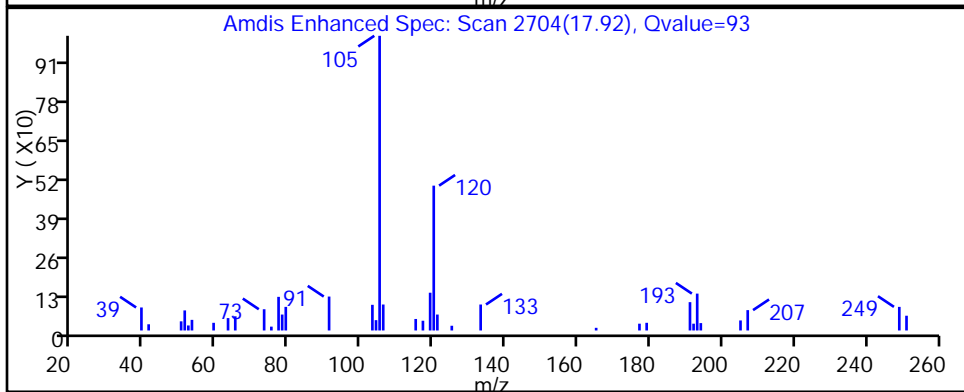
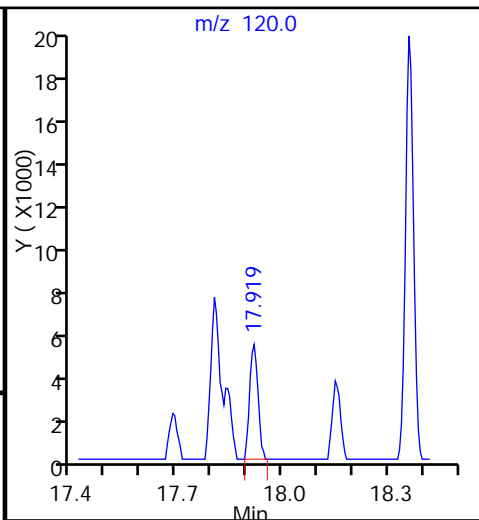
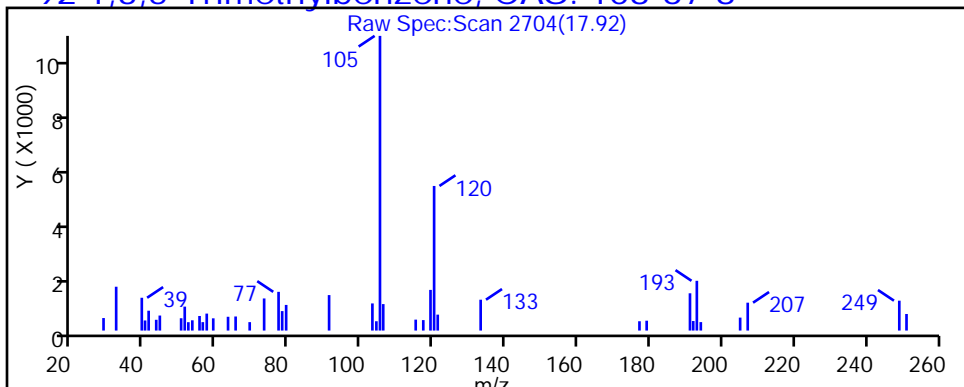
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

92 1,3,5-Trimethylbenzene, CAS: 108-67-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

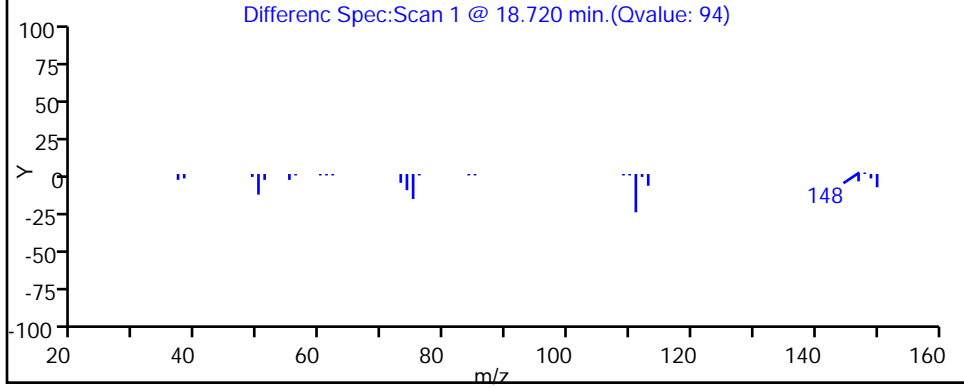
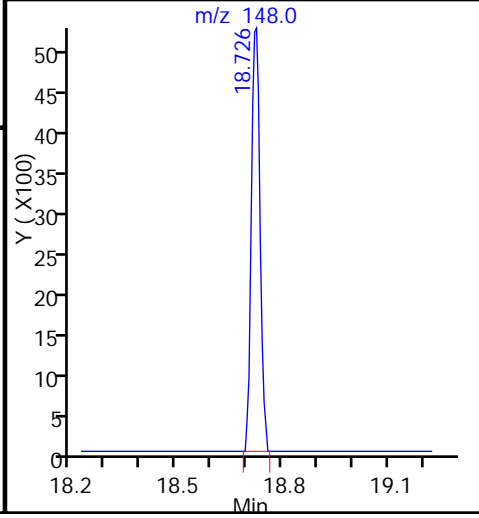
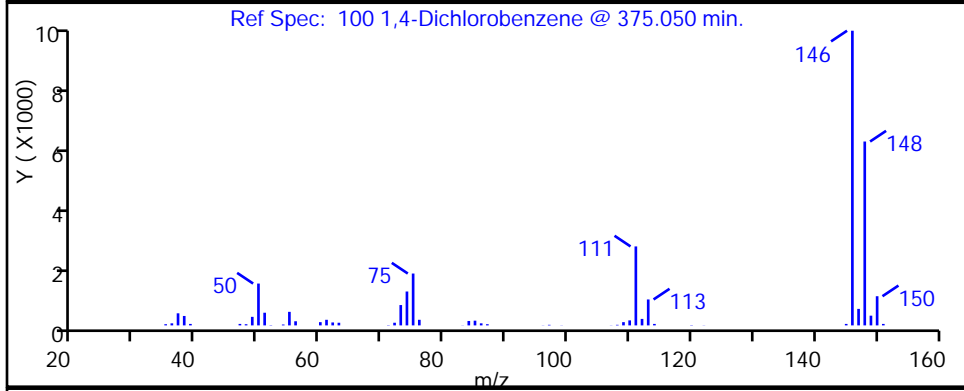
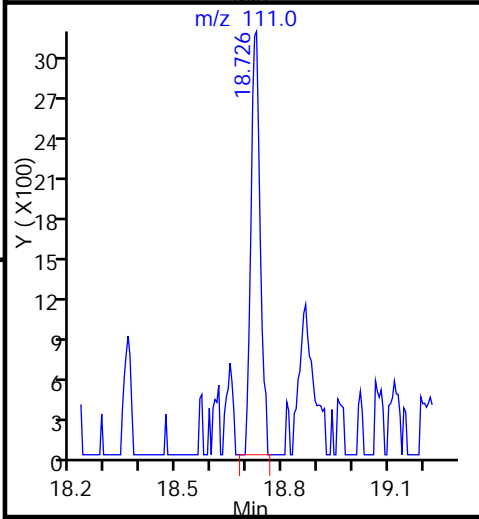
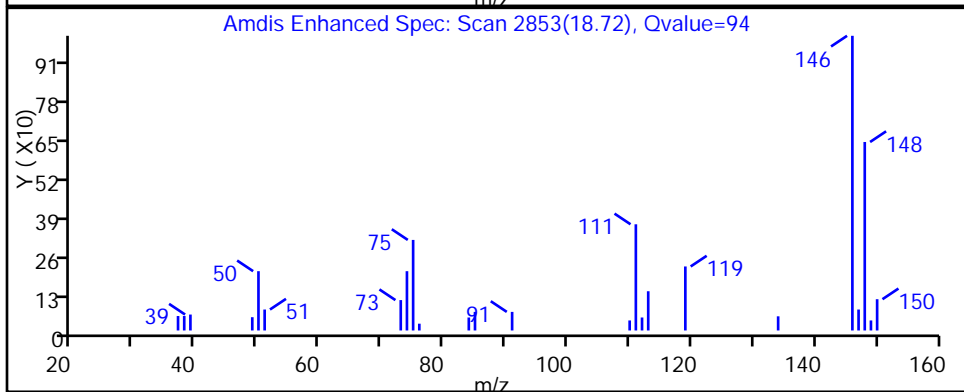
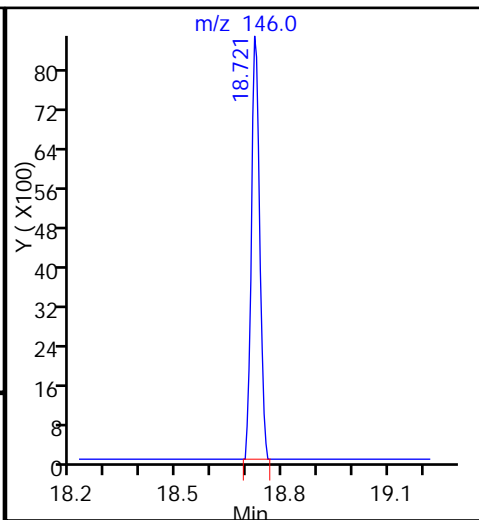
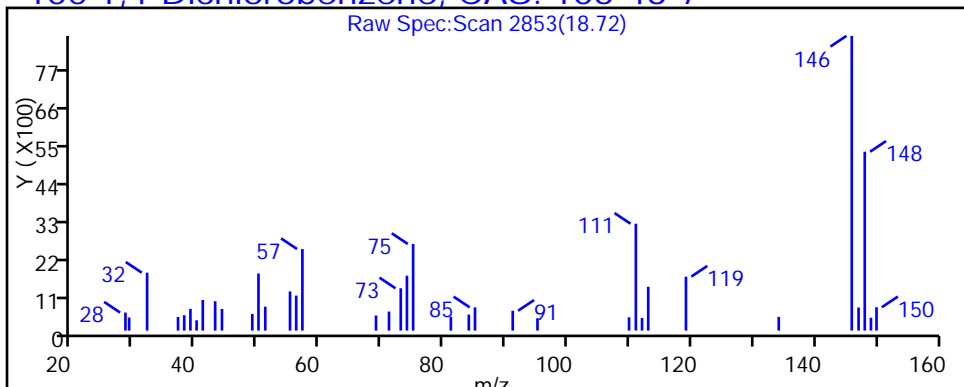
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

100 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

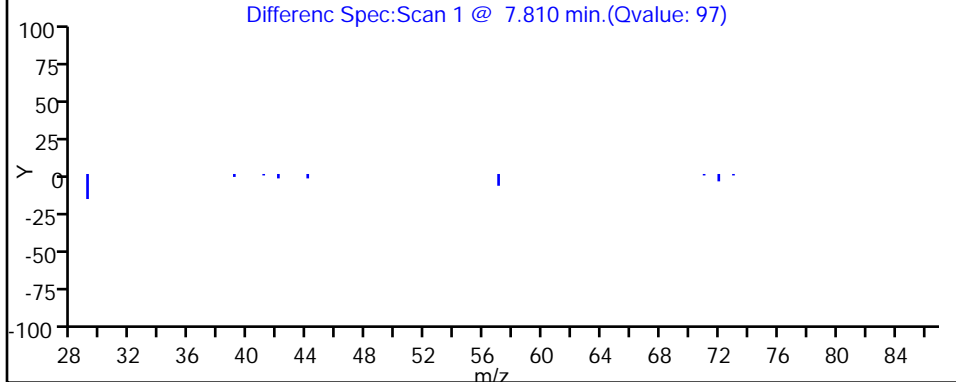
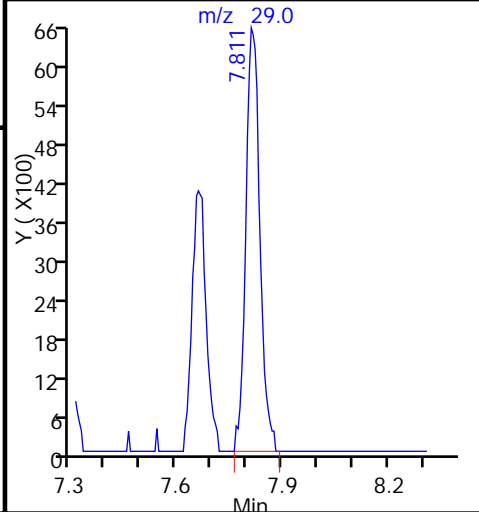
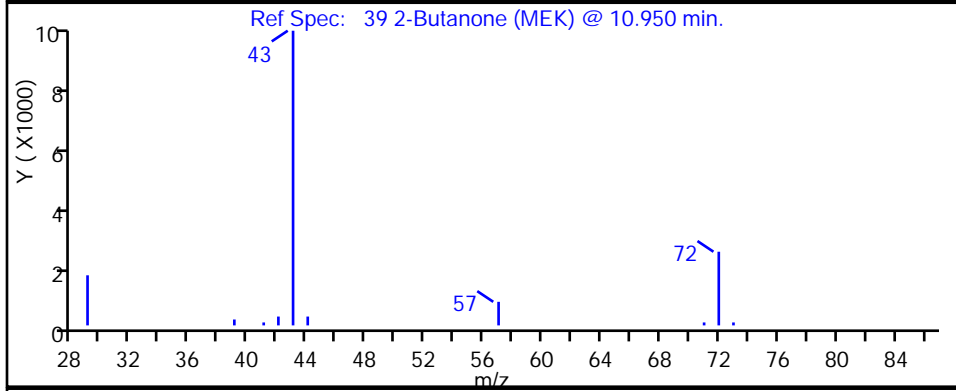
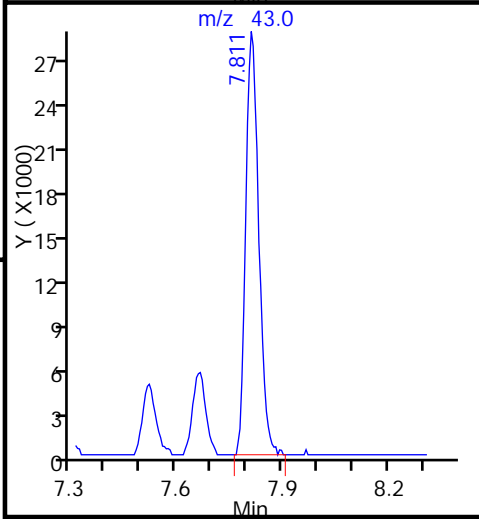
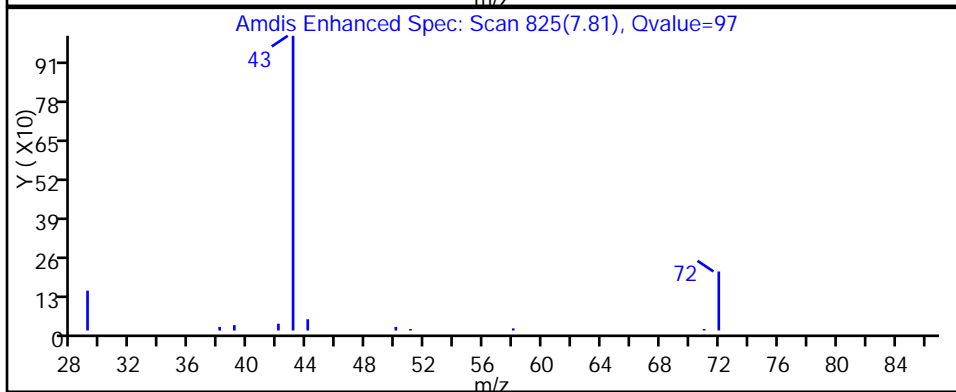
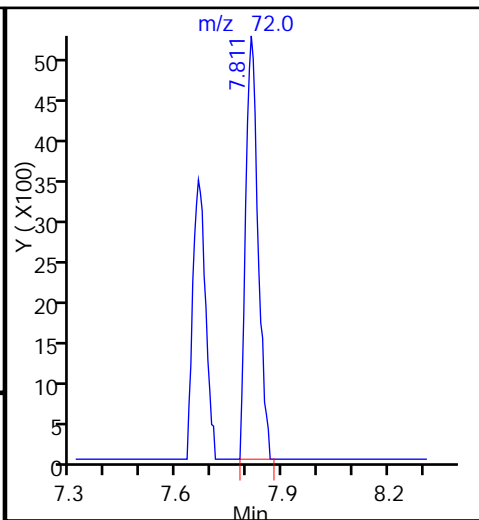
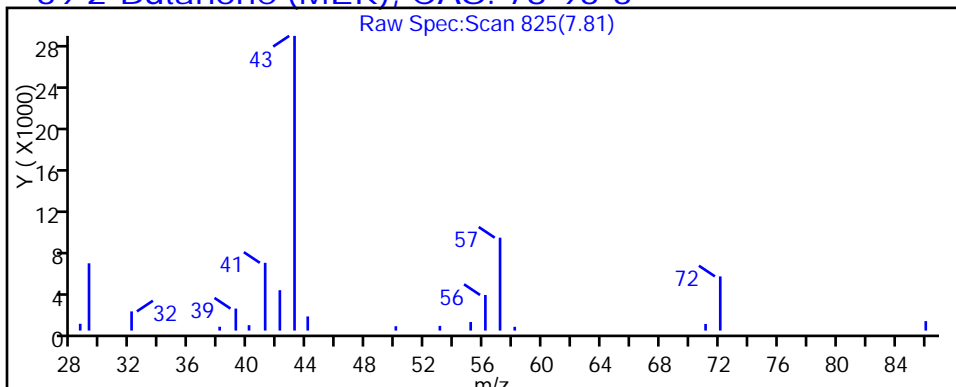
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

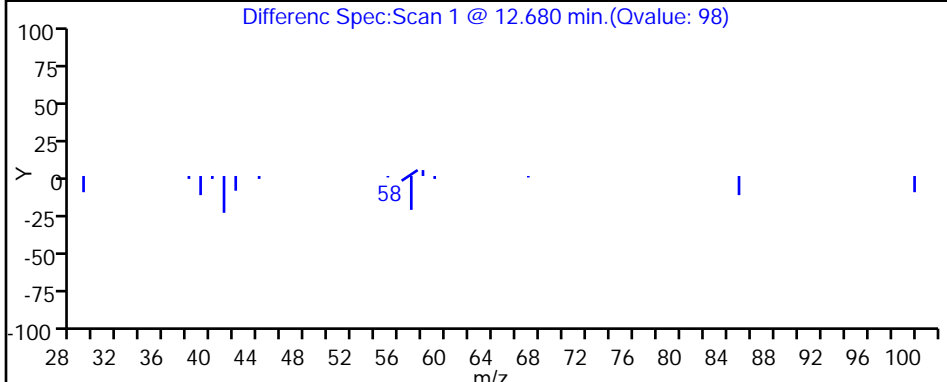
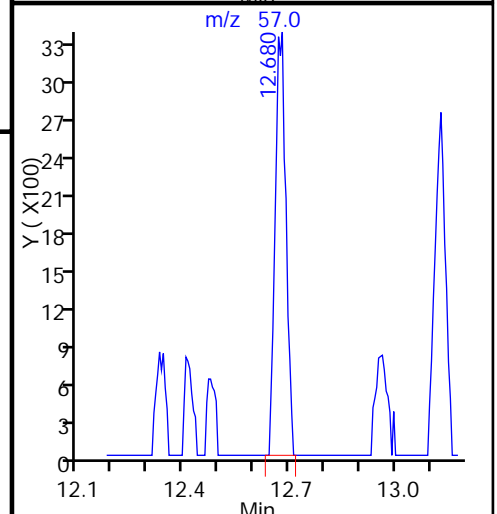
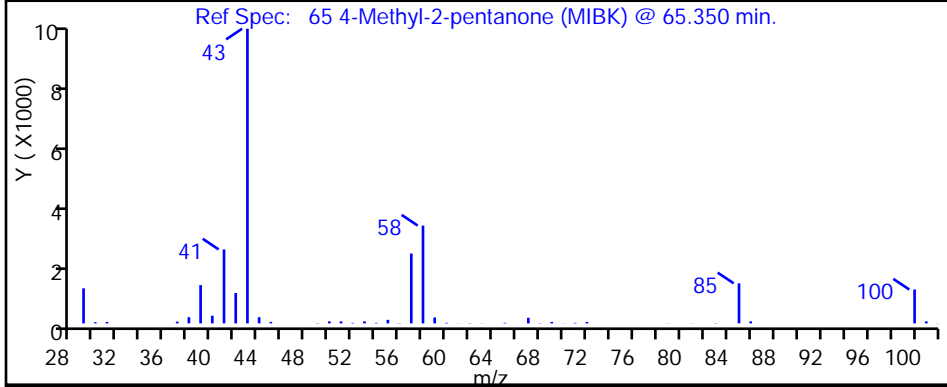
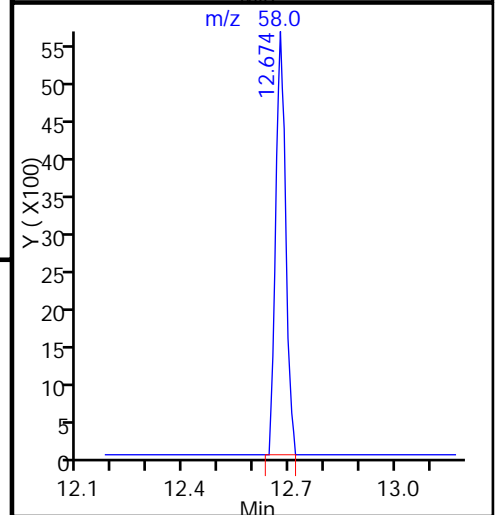
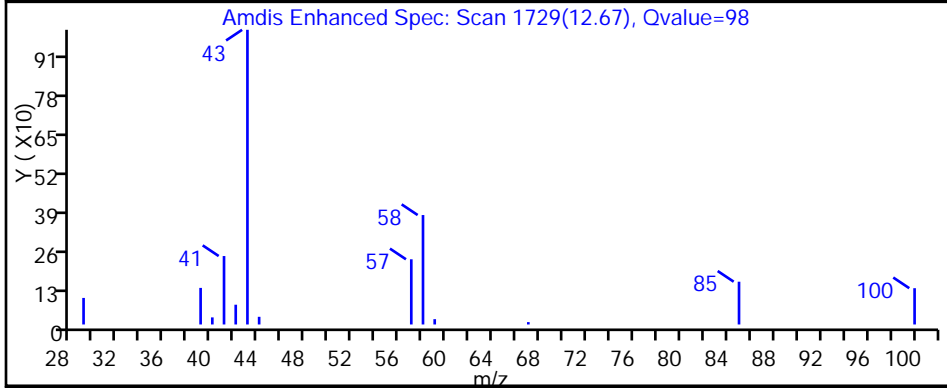
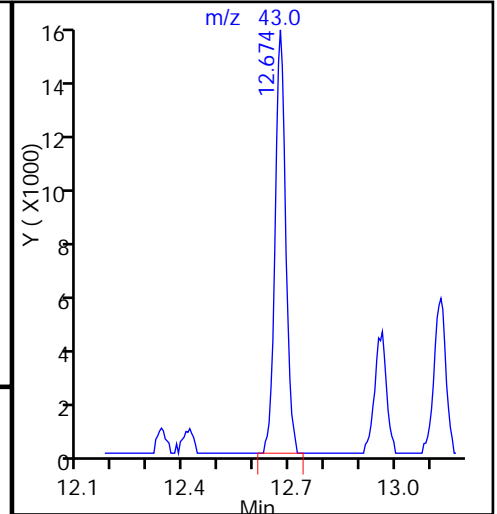
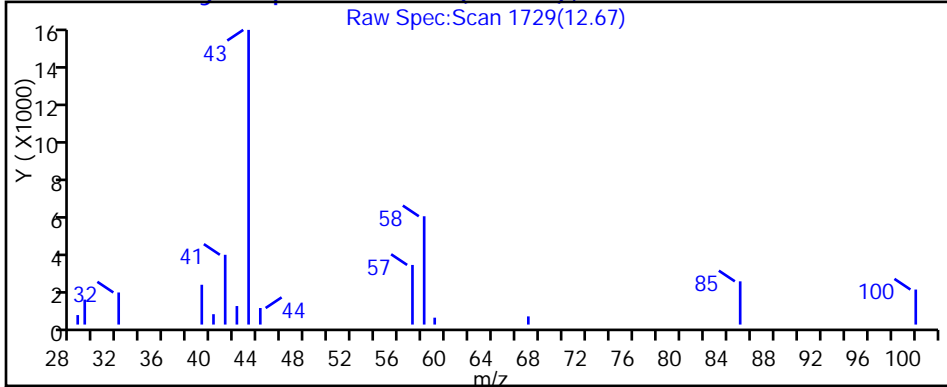
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

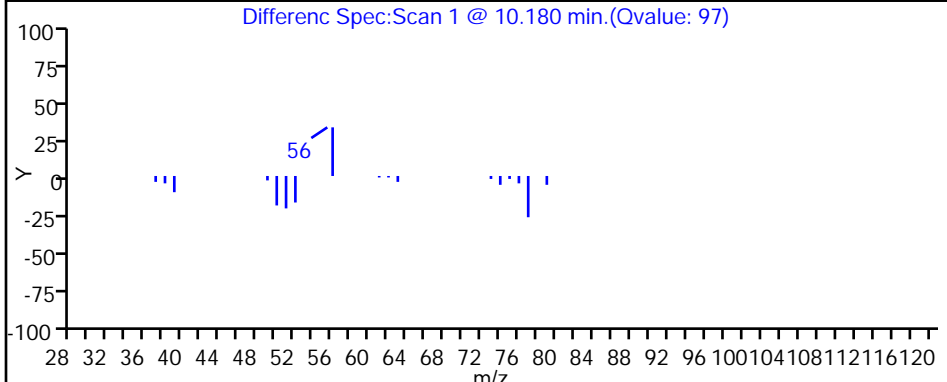
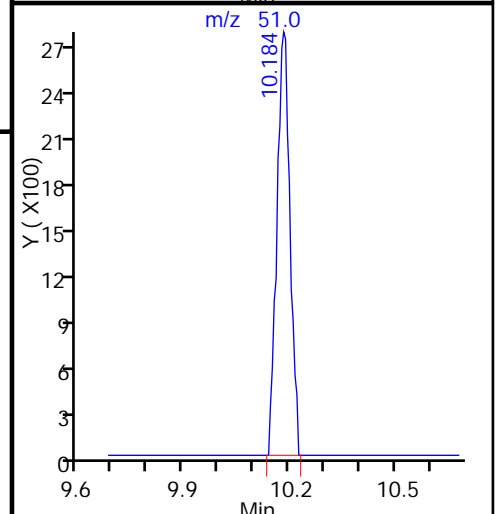
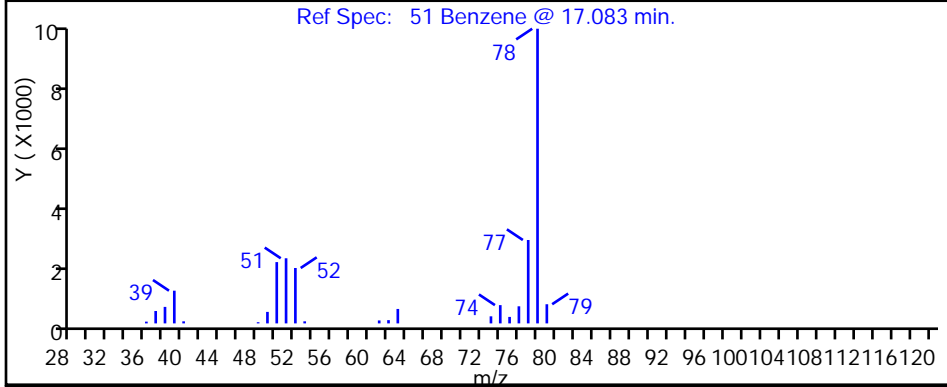
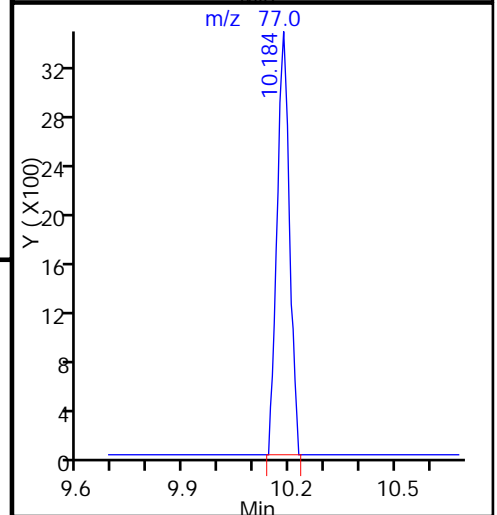
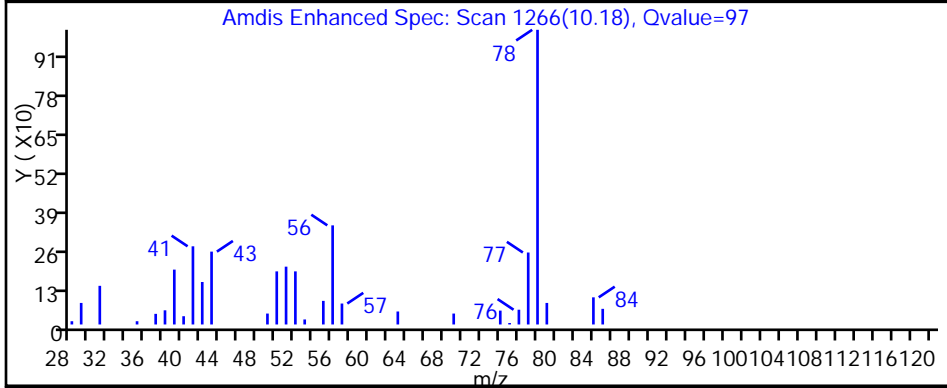
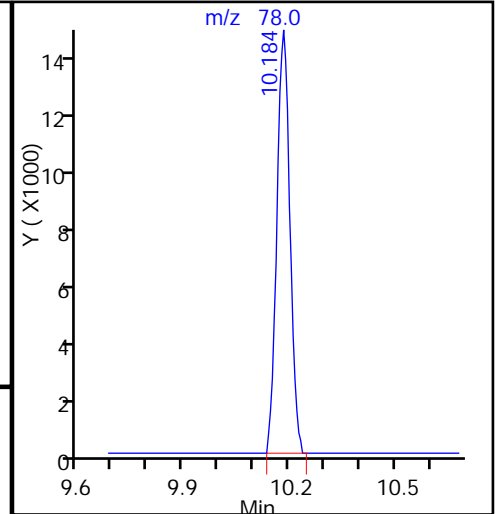
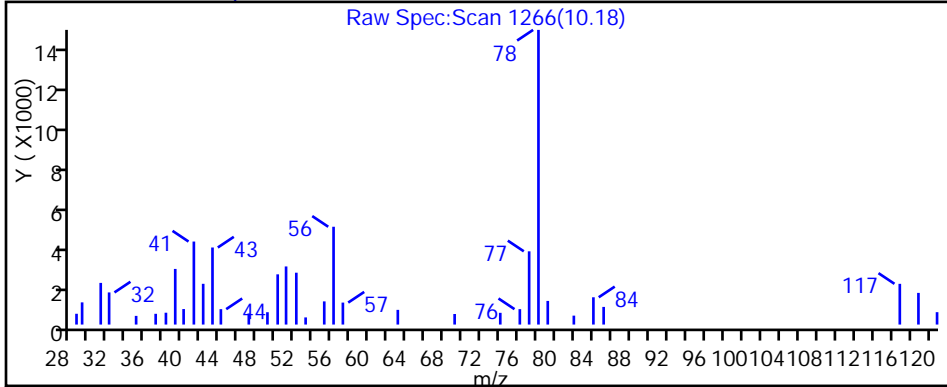
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

51 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

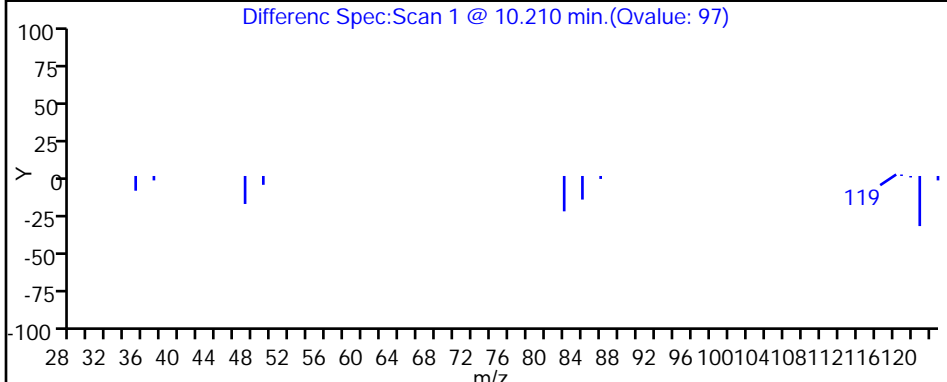
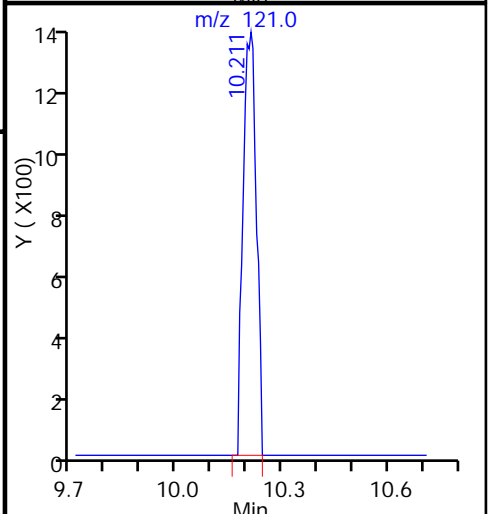
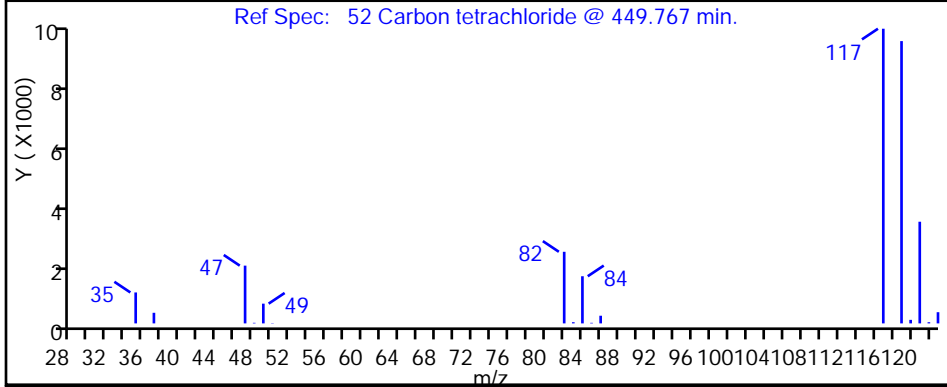
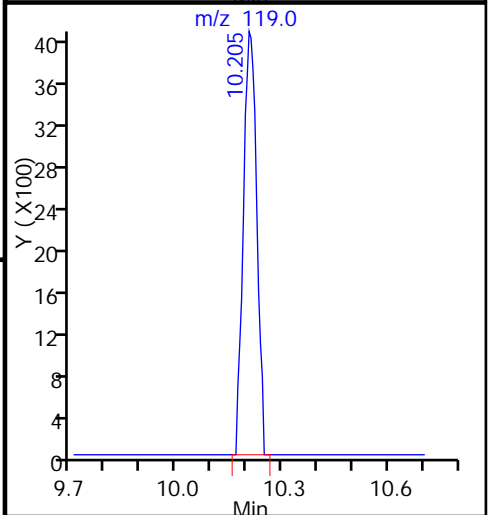
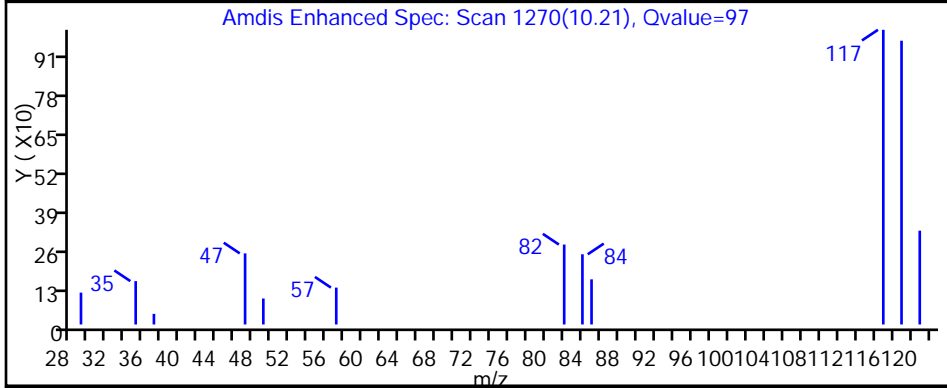
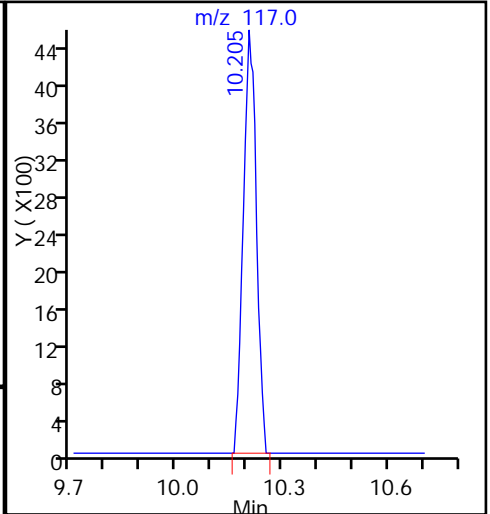
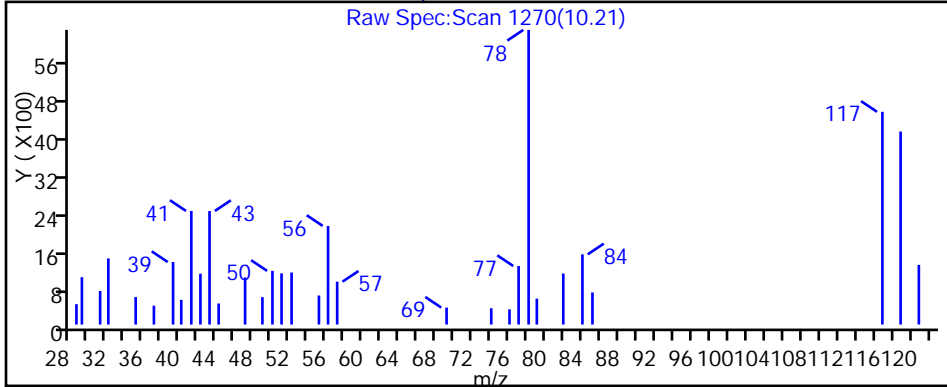
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

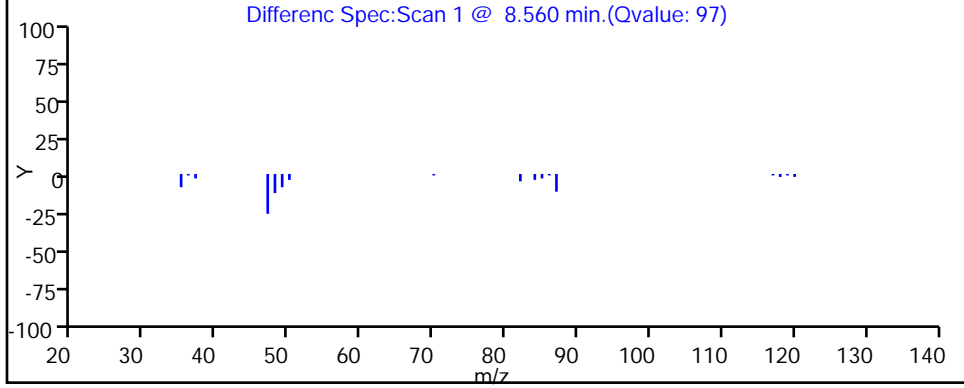
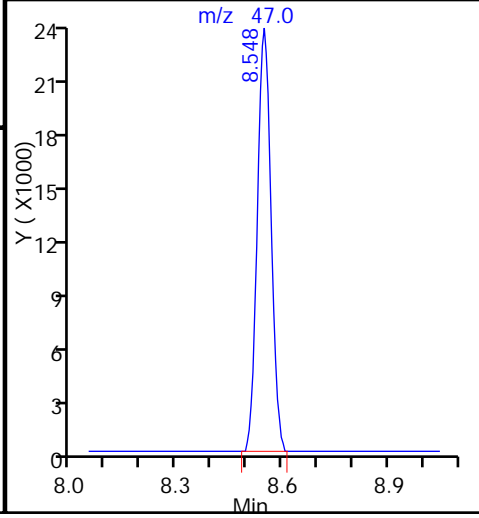
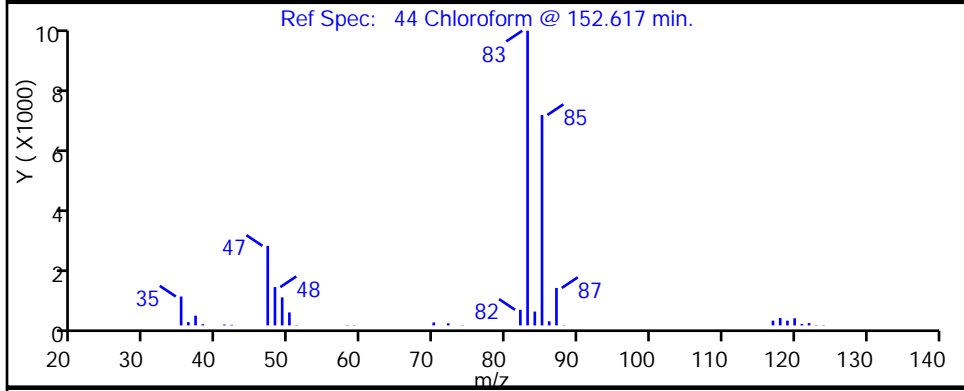
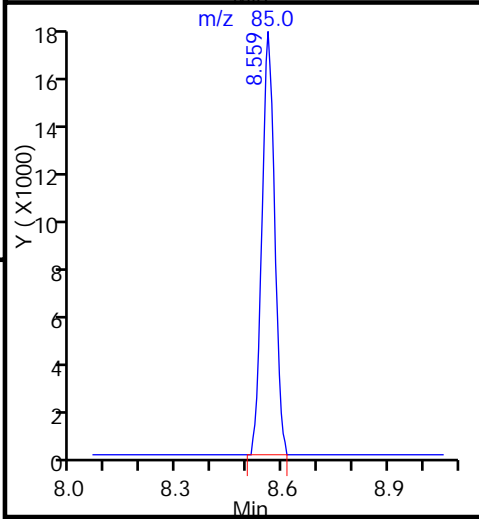
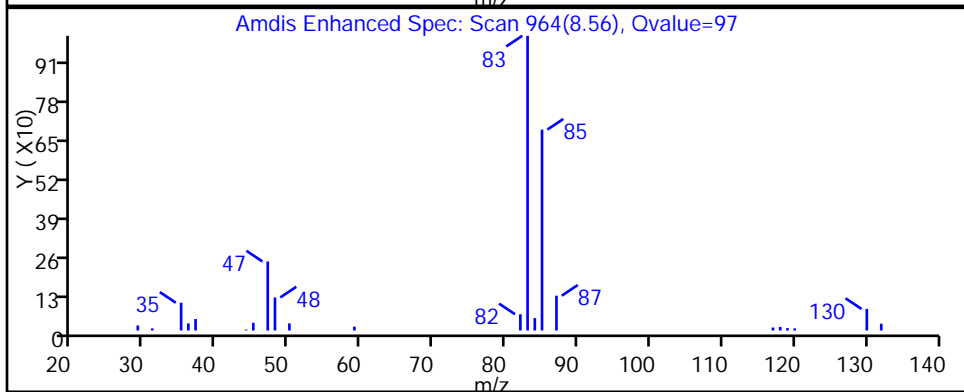
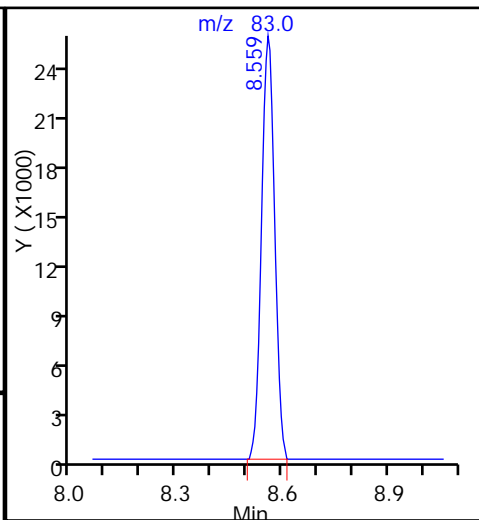
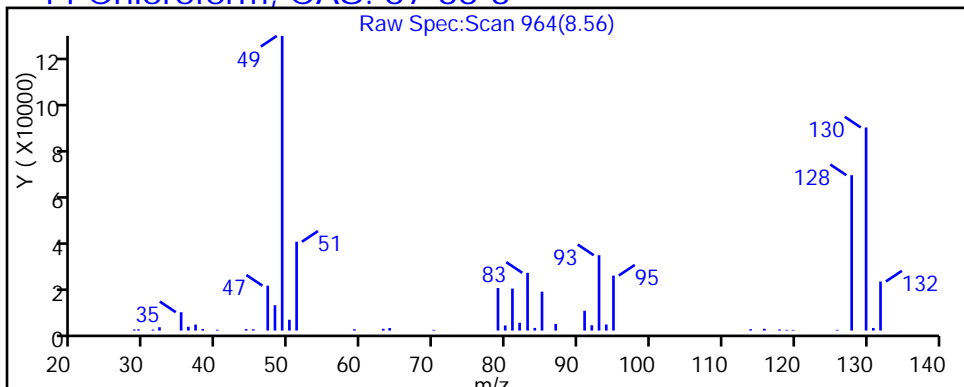
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

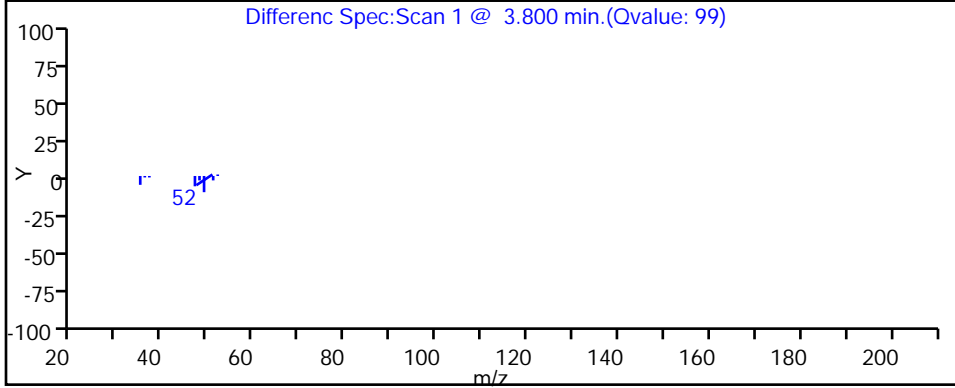
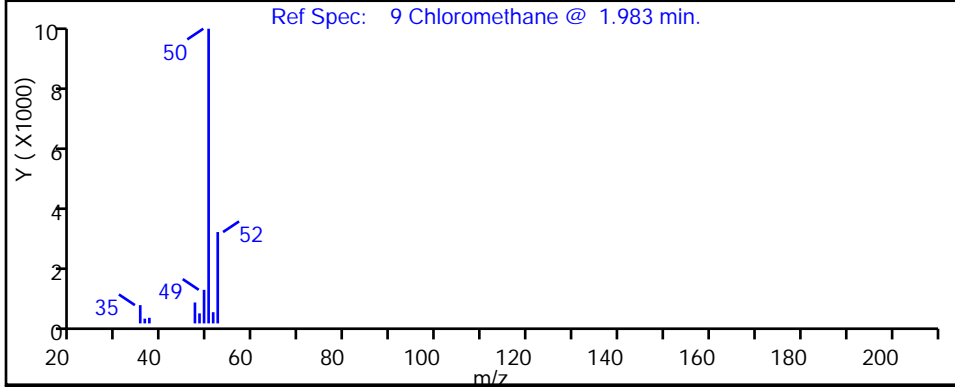
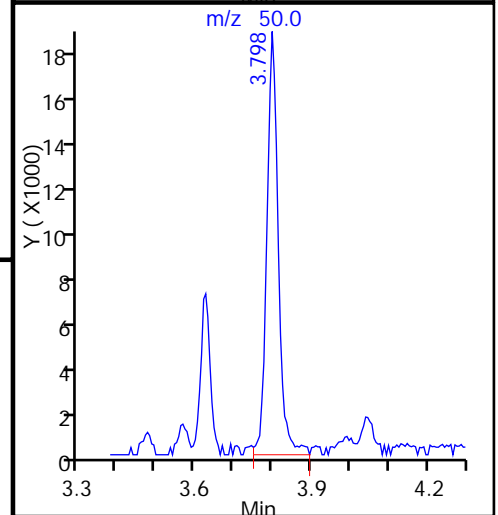
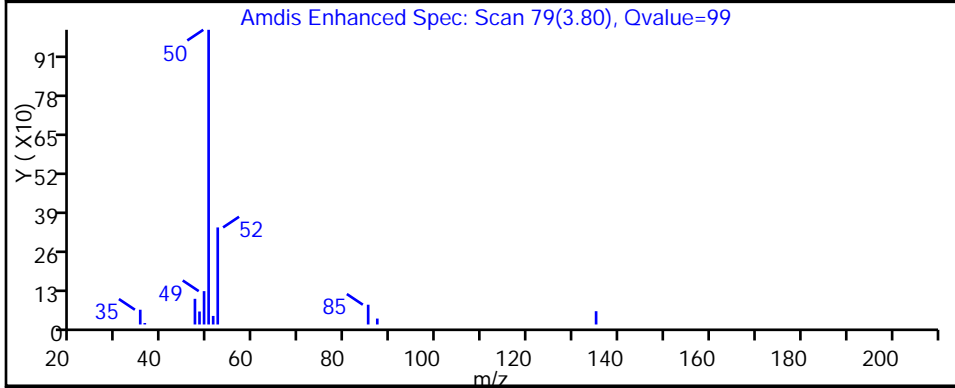
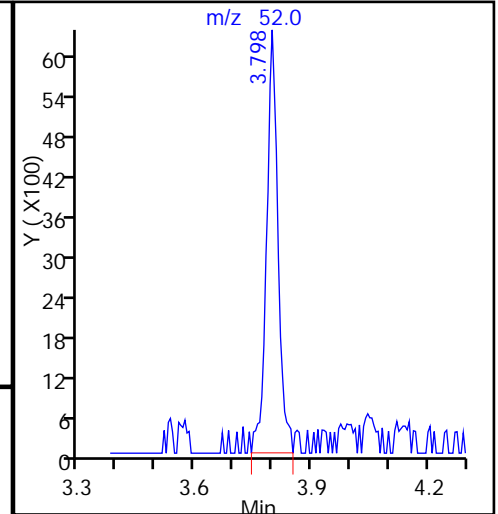
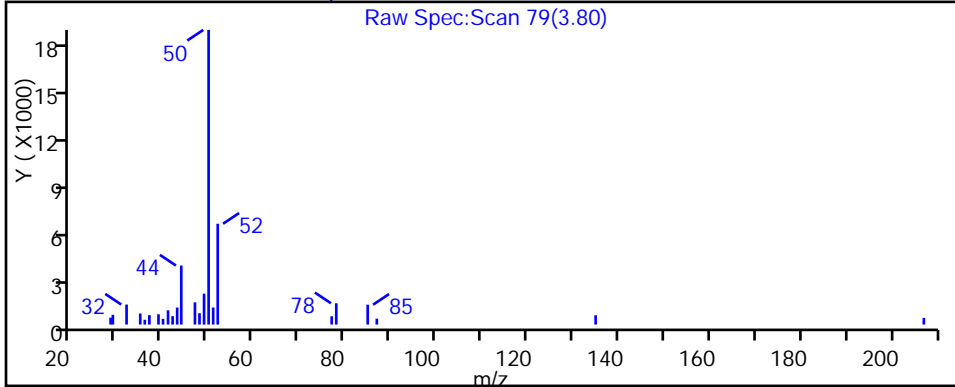
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

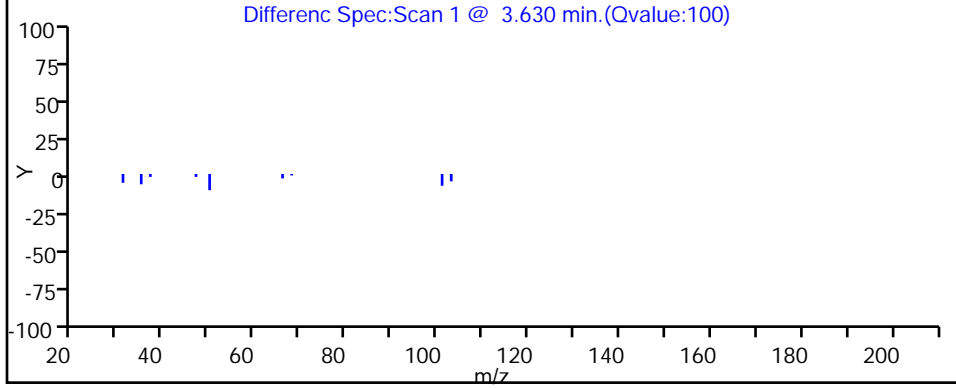
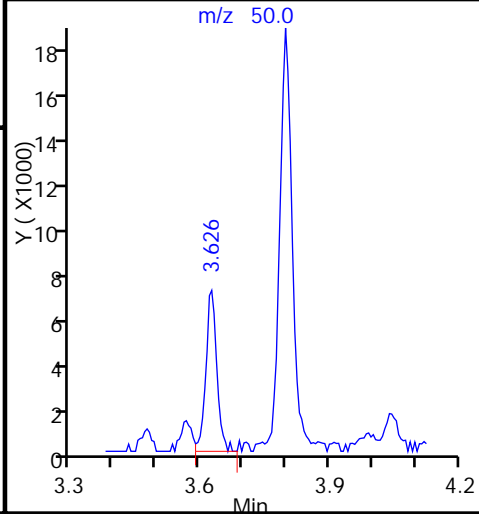
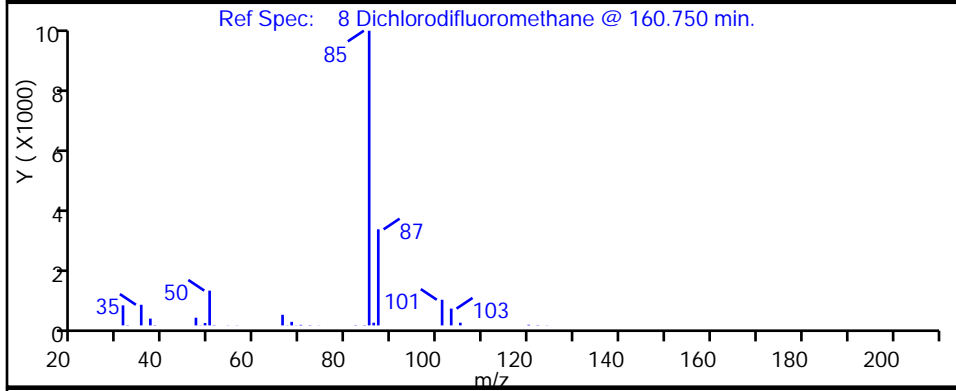
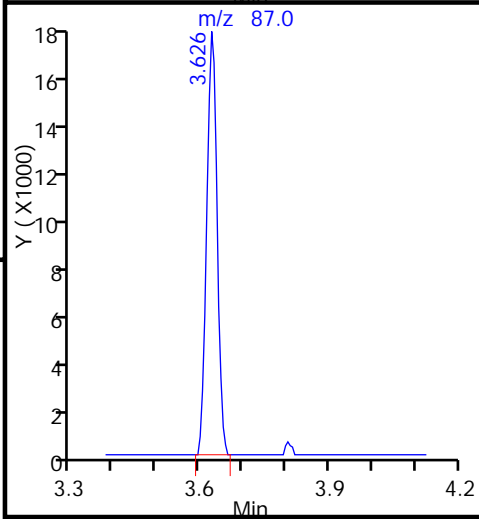
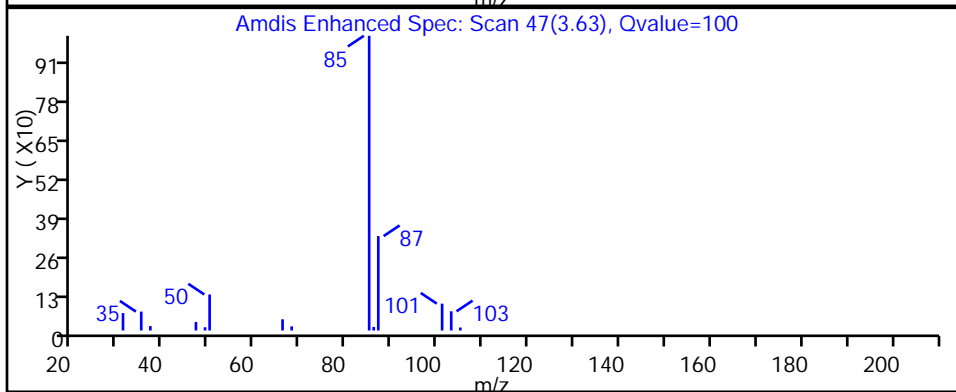
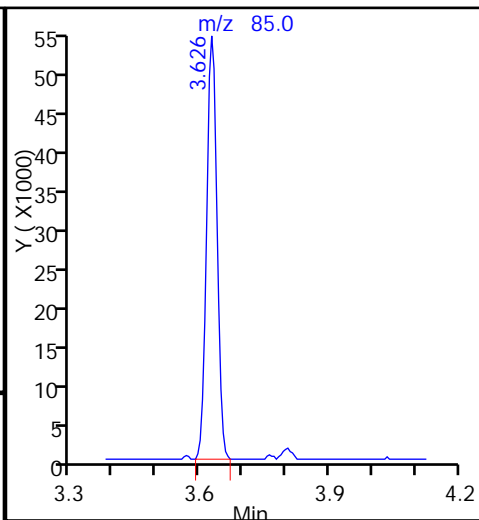
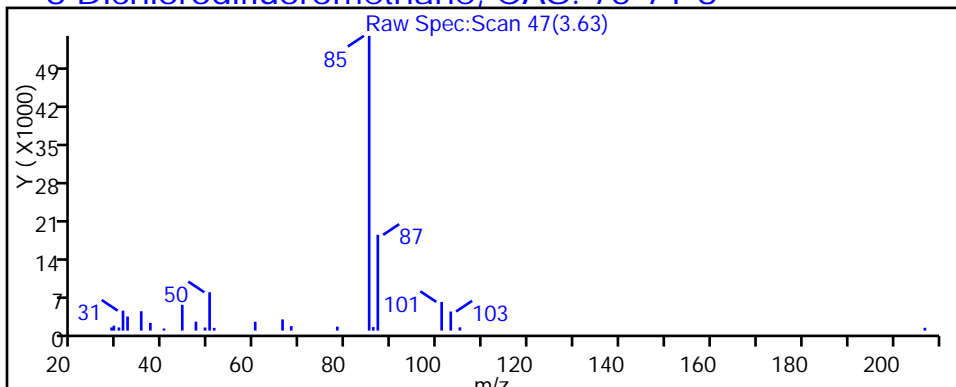
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

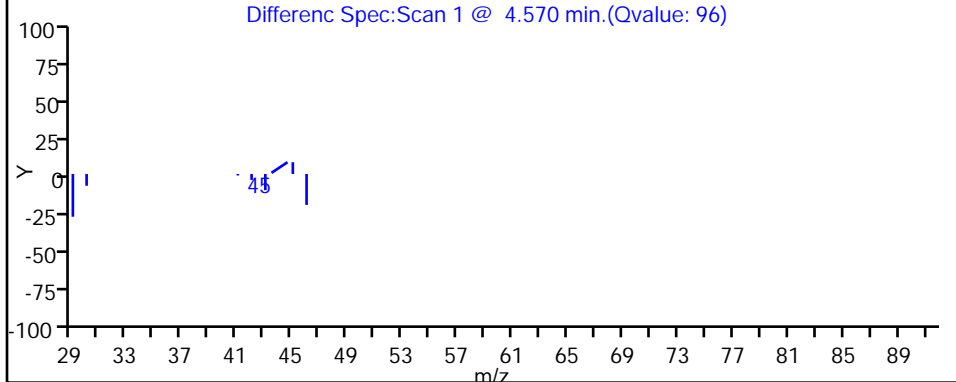
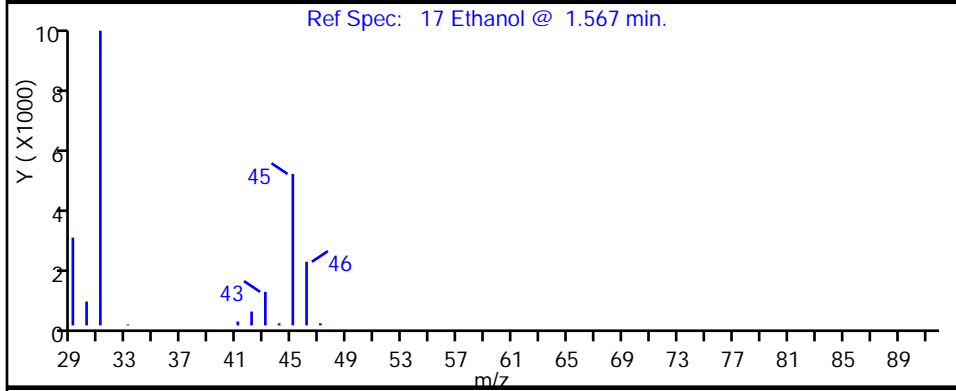
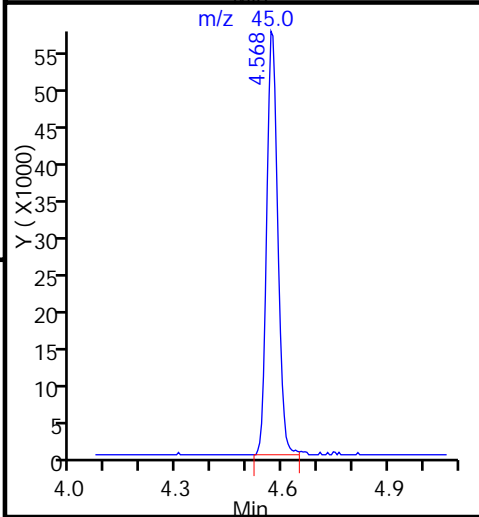
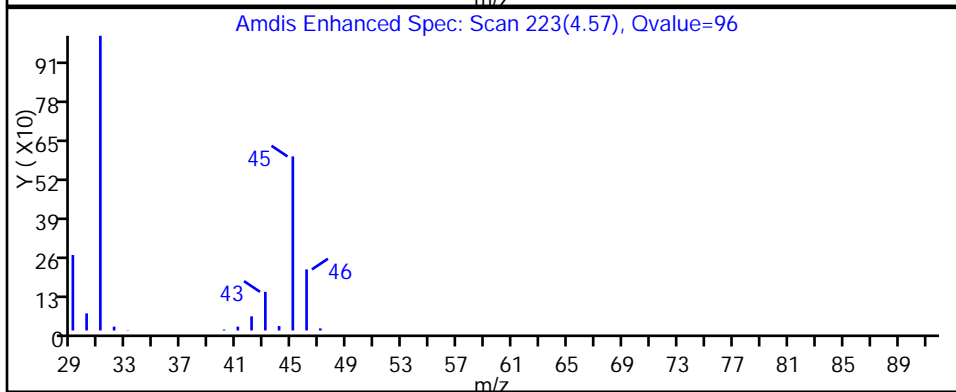
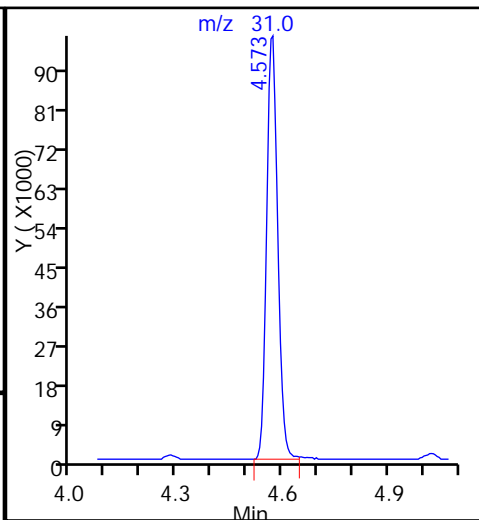
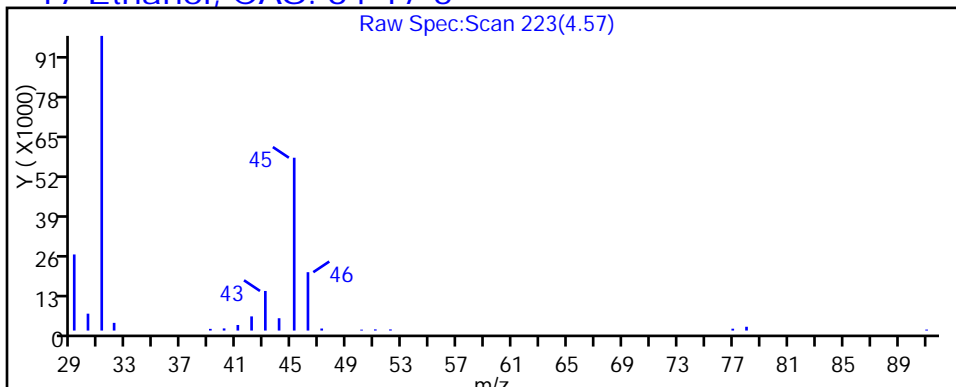
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

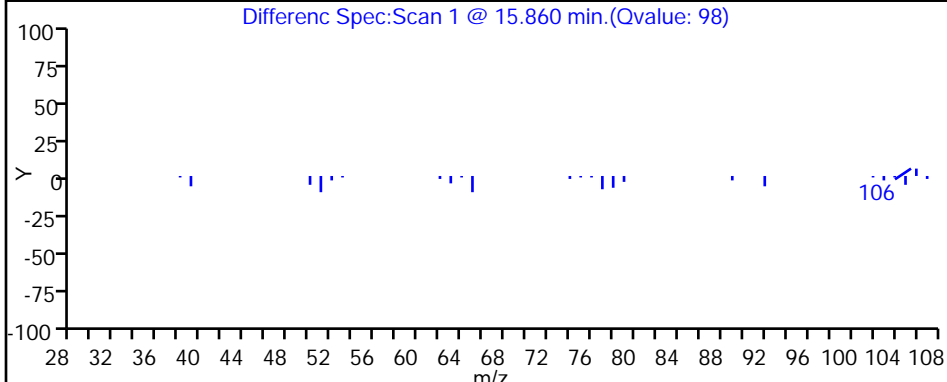
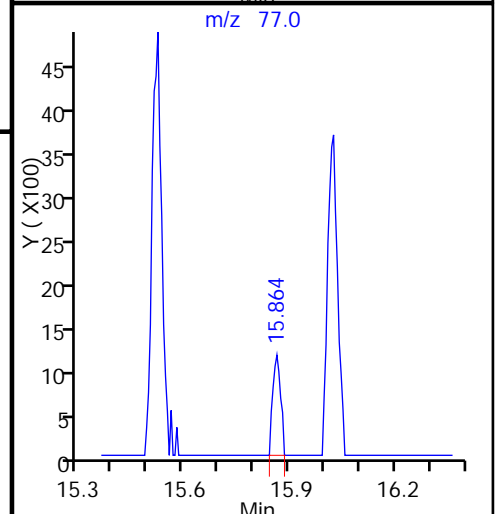
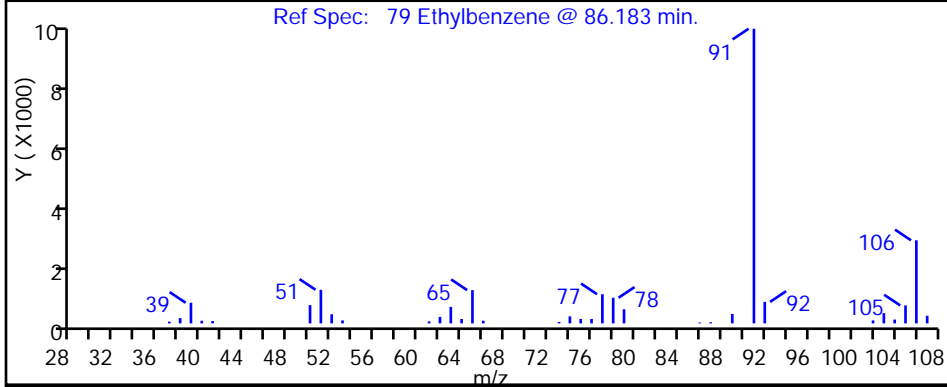
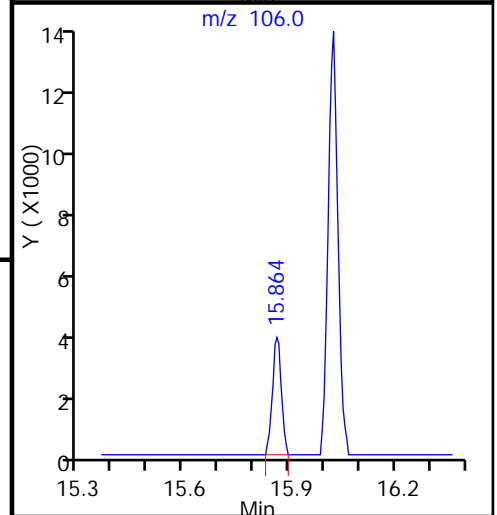
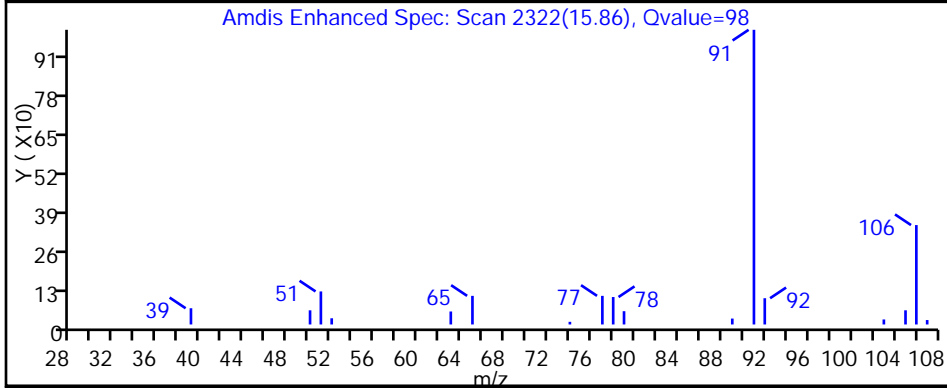
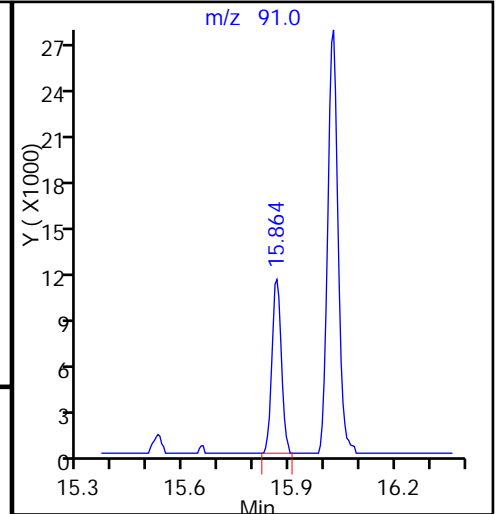
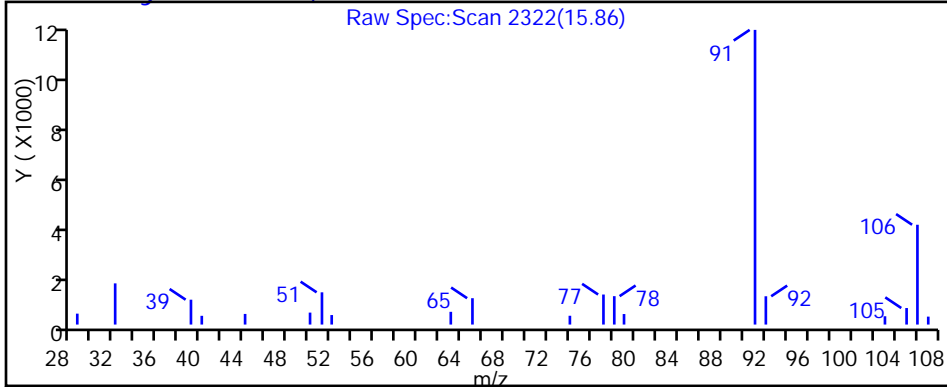
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

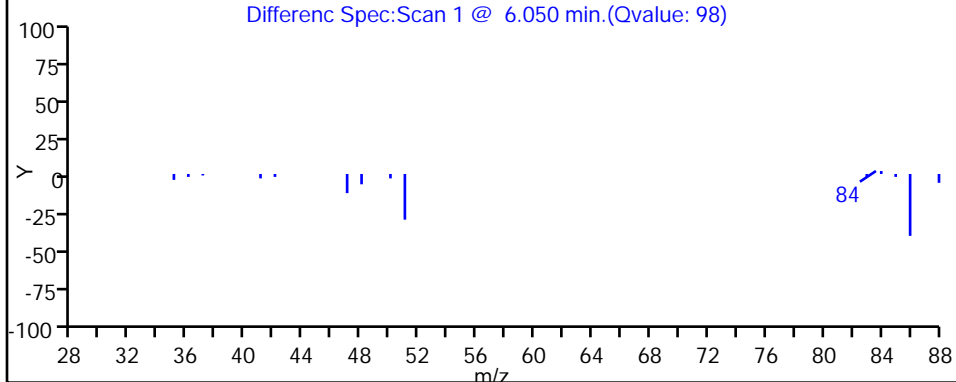
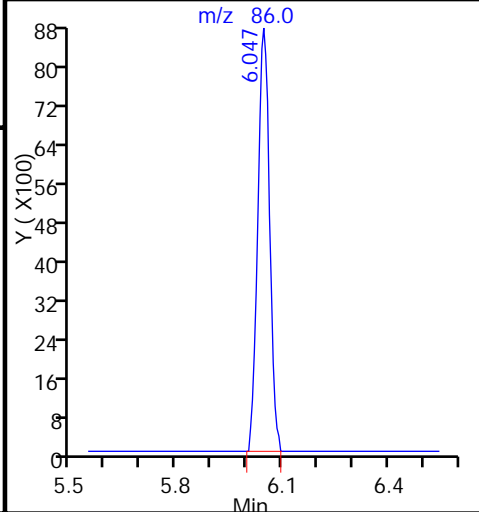
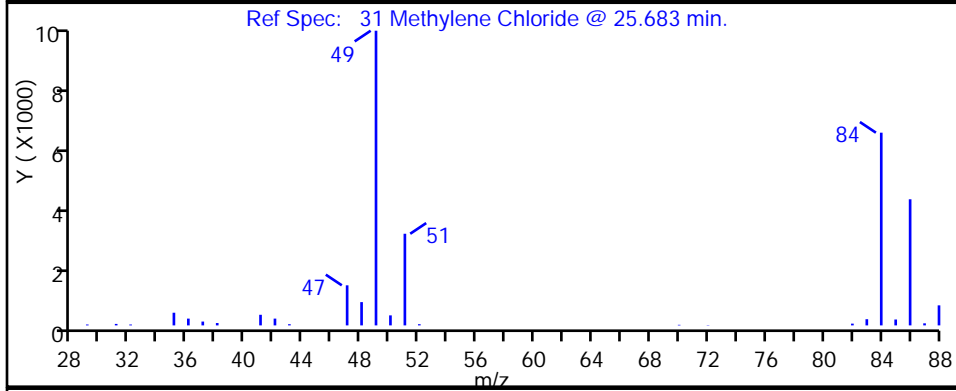
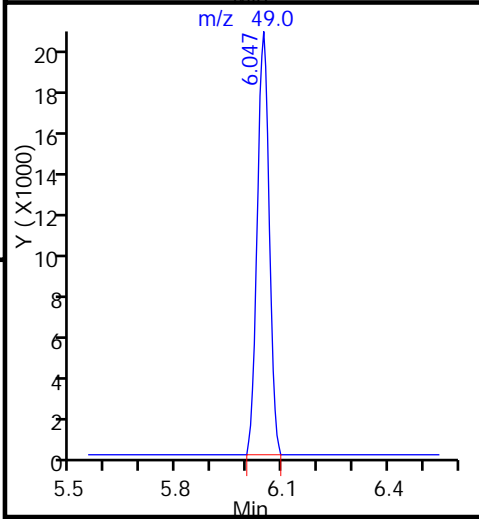
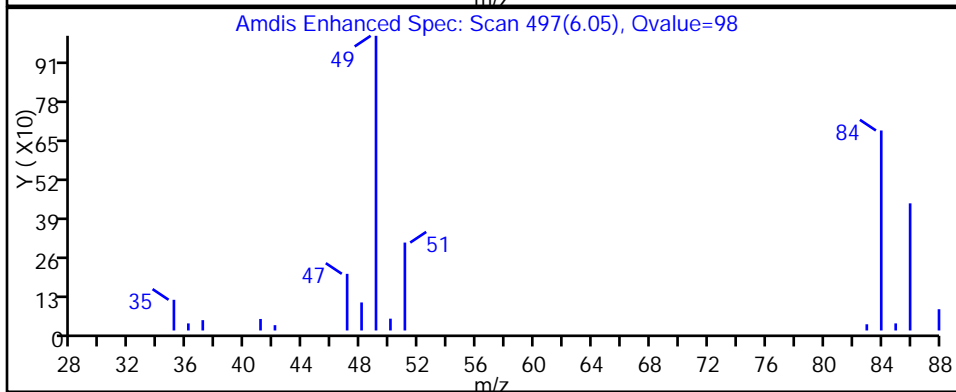
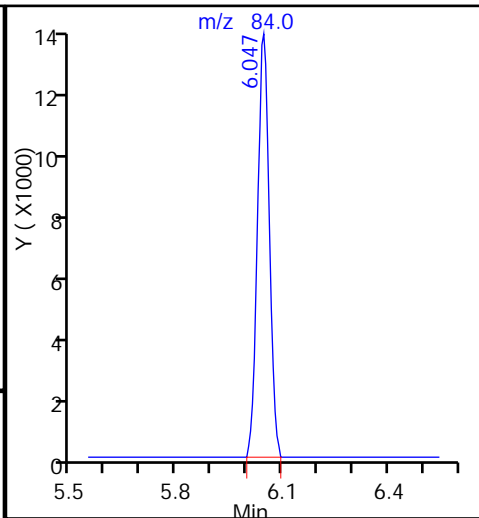
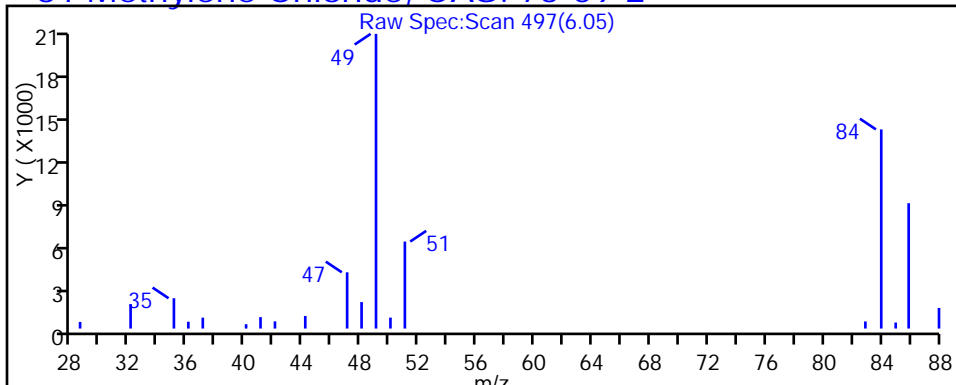
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

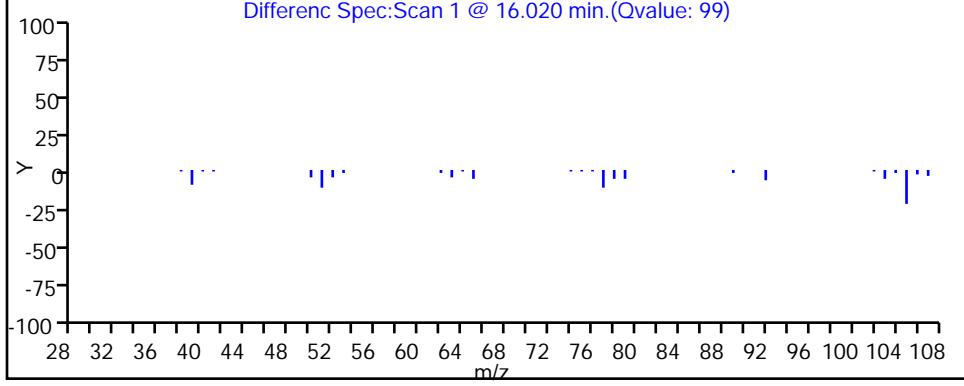
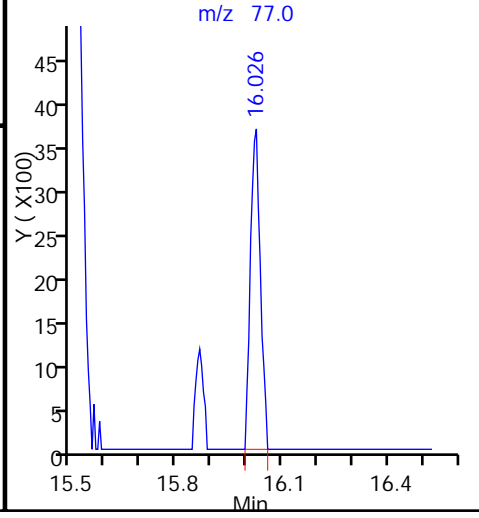
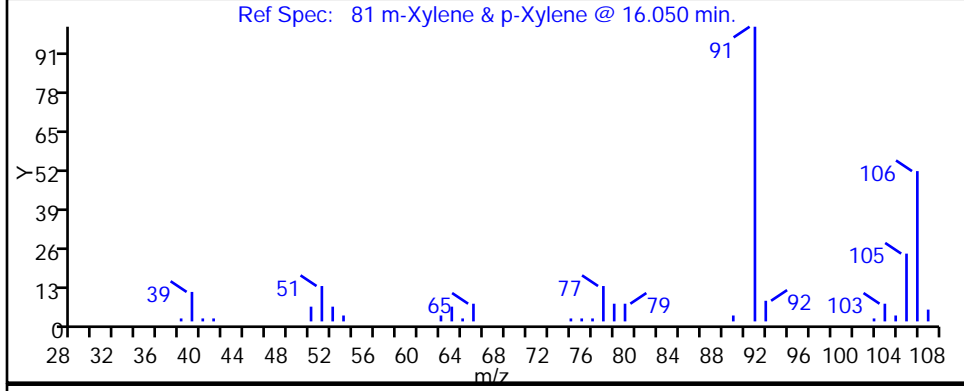
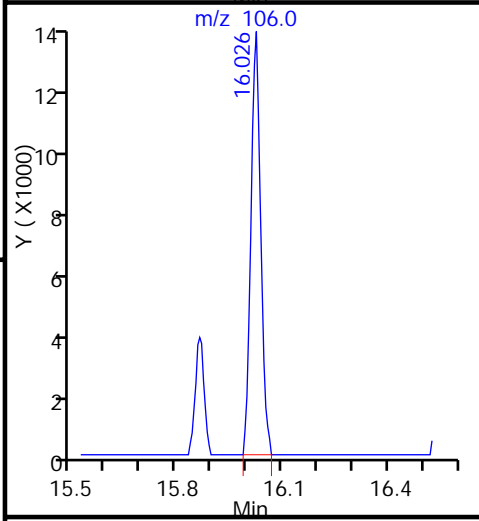
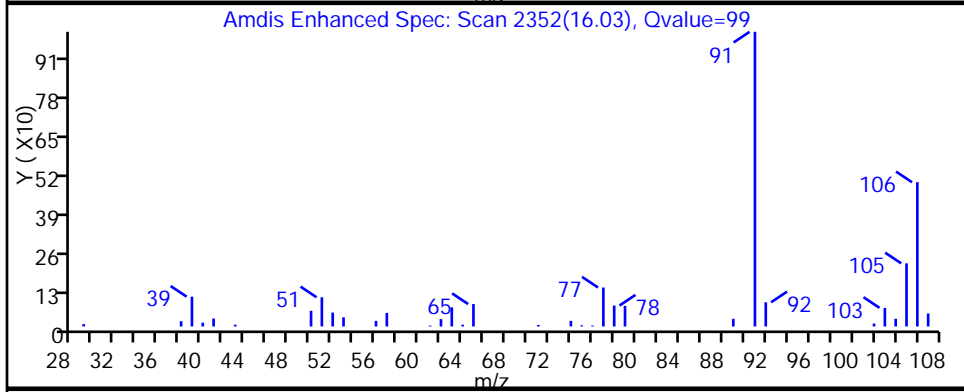
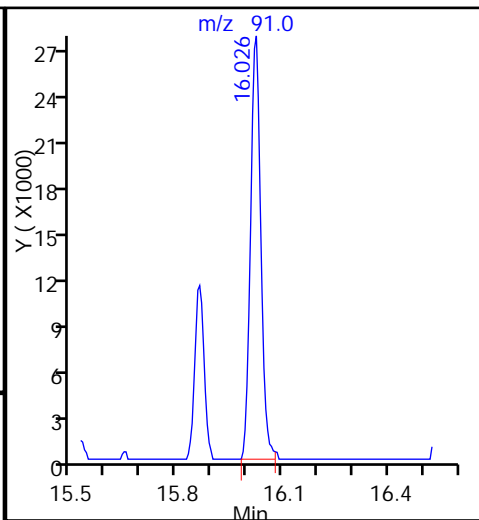
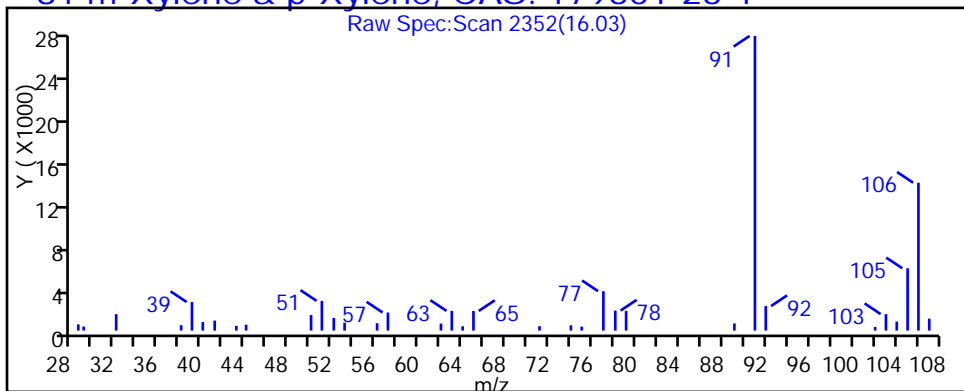
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

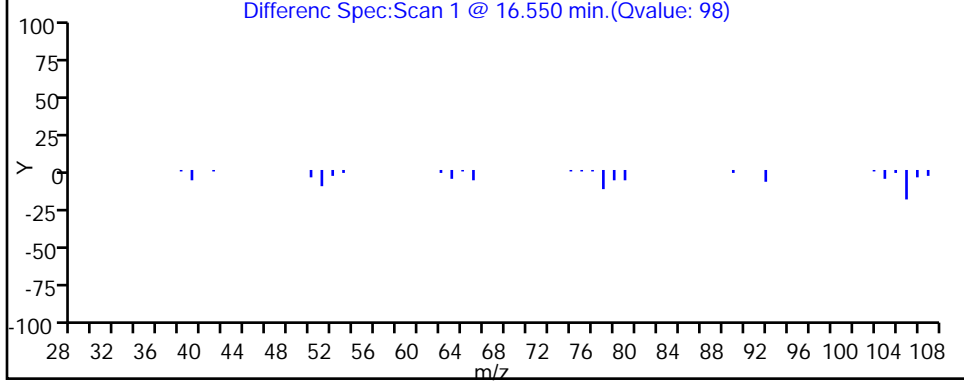
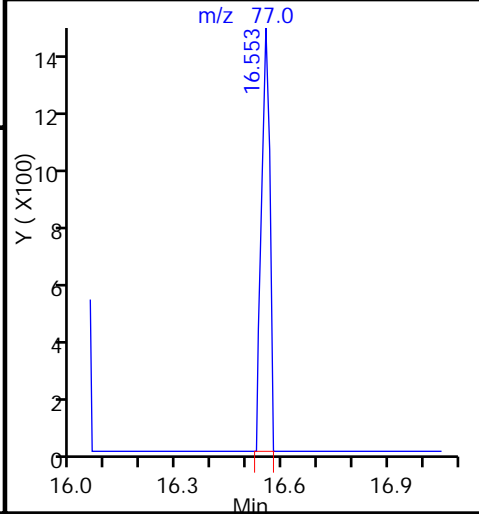
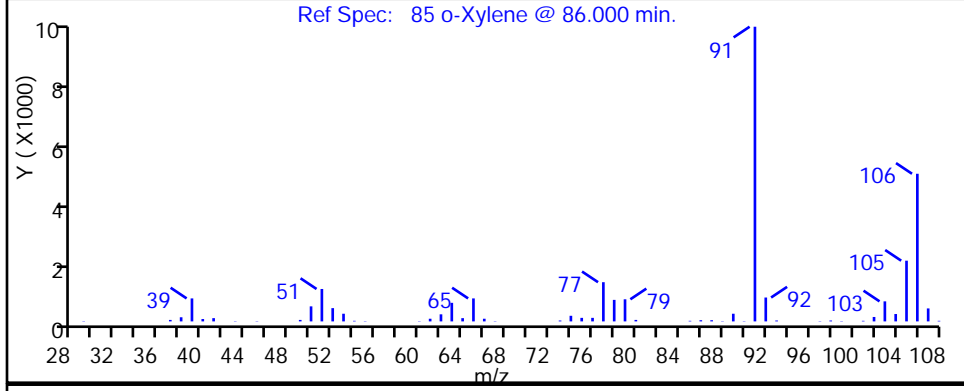
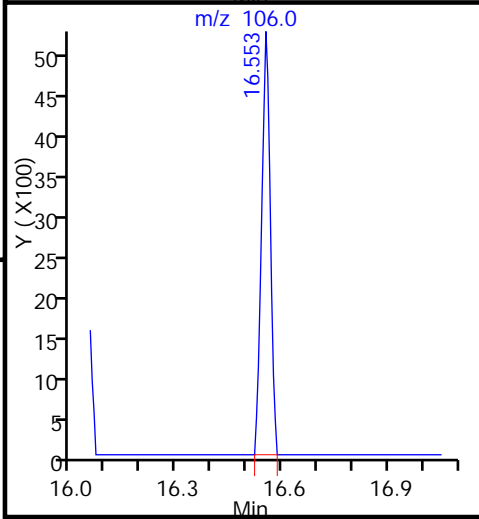
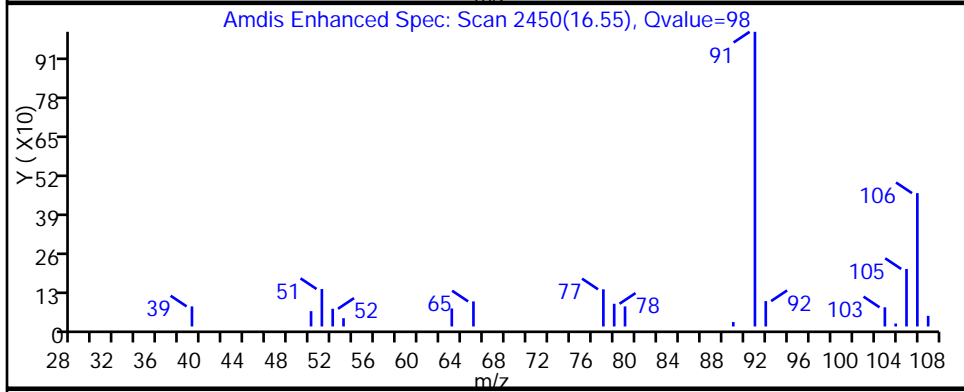
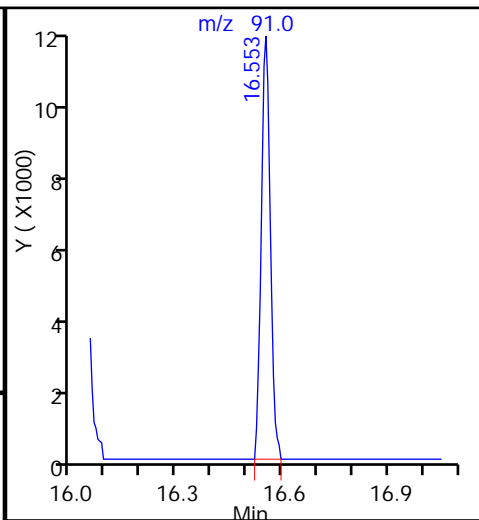
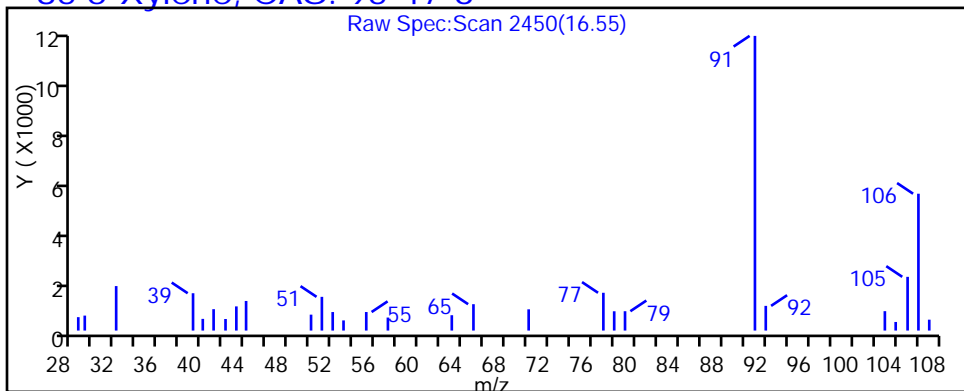
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

85 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

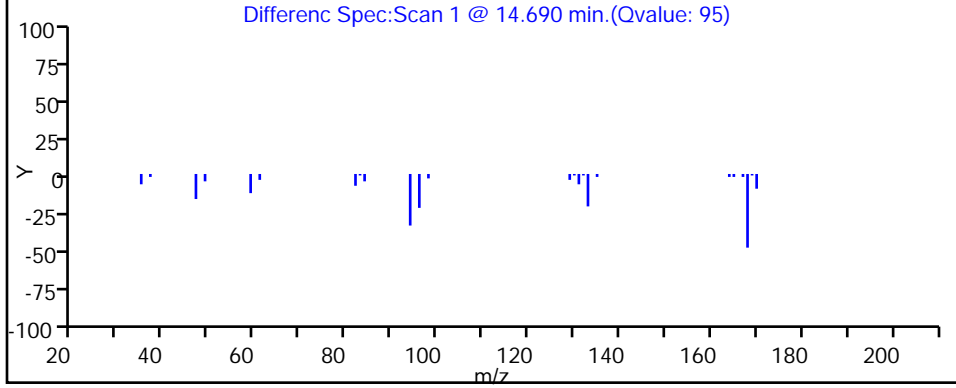
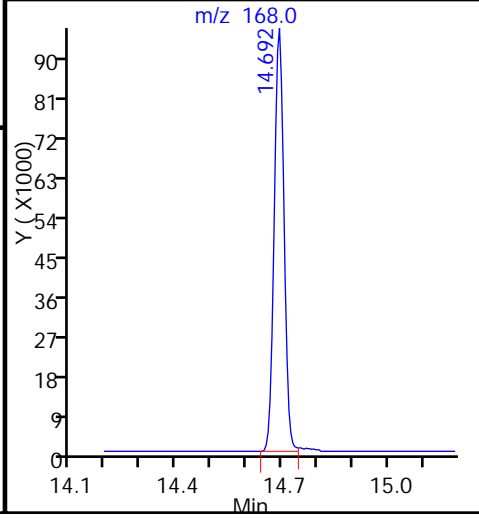
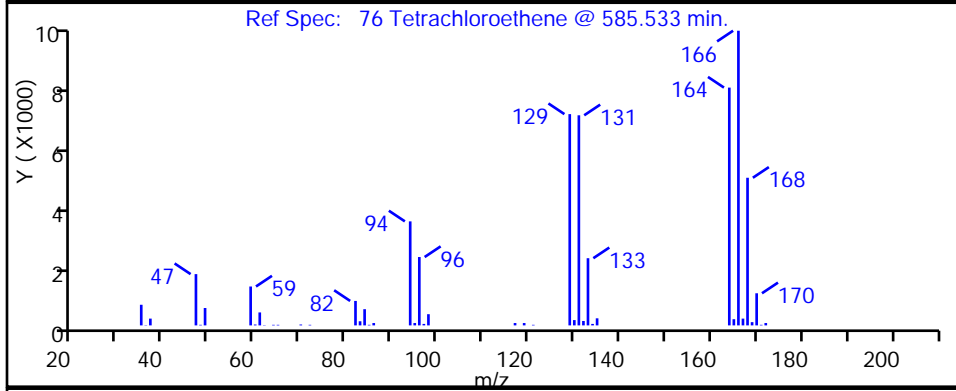
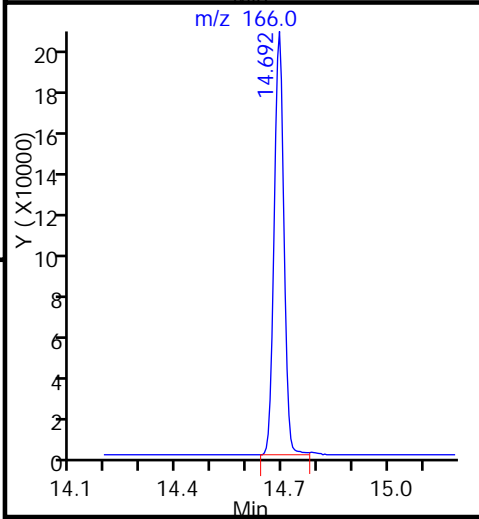
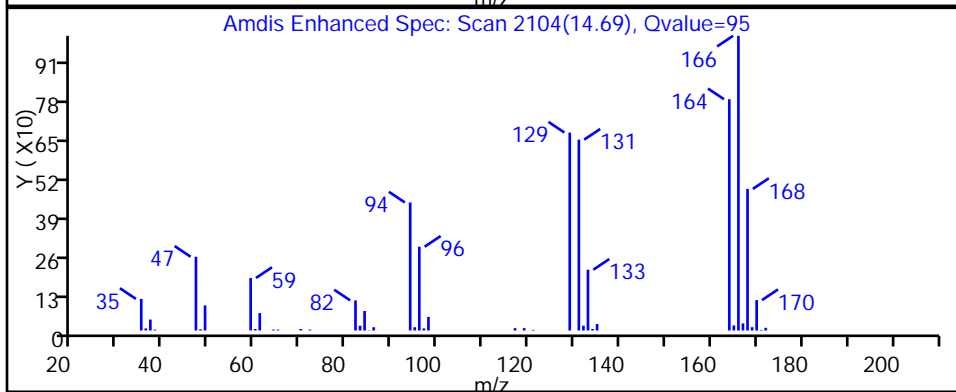
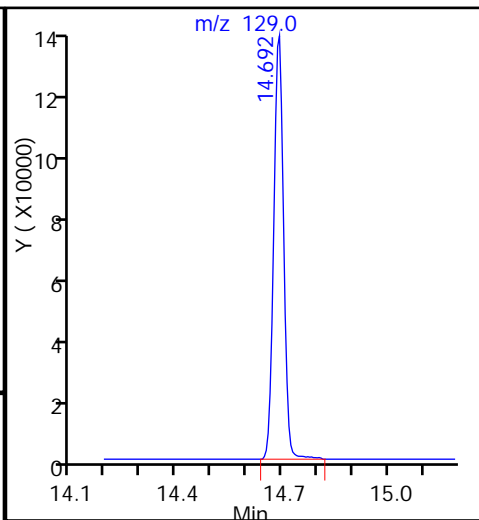
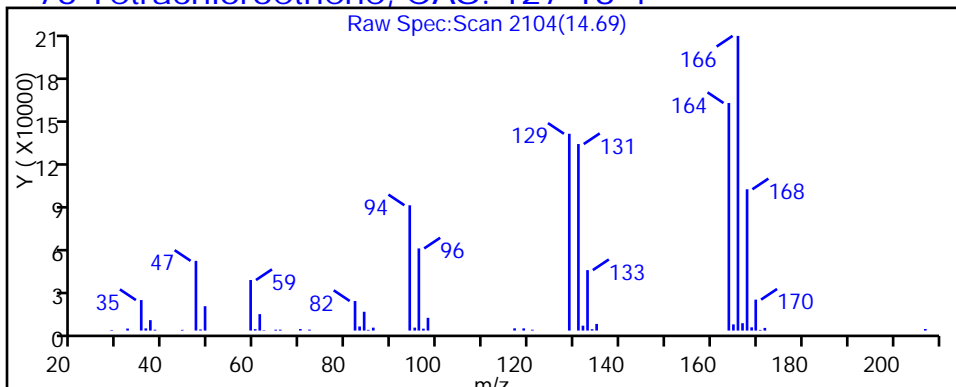
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

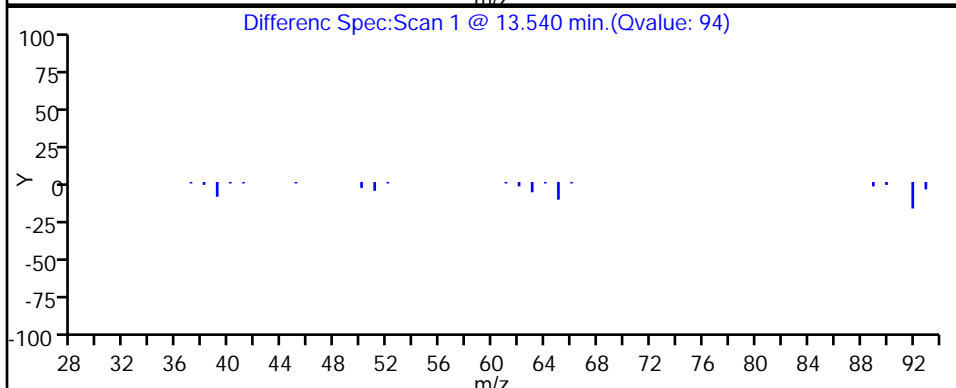
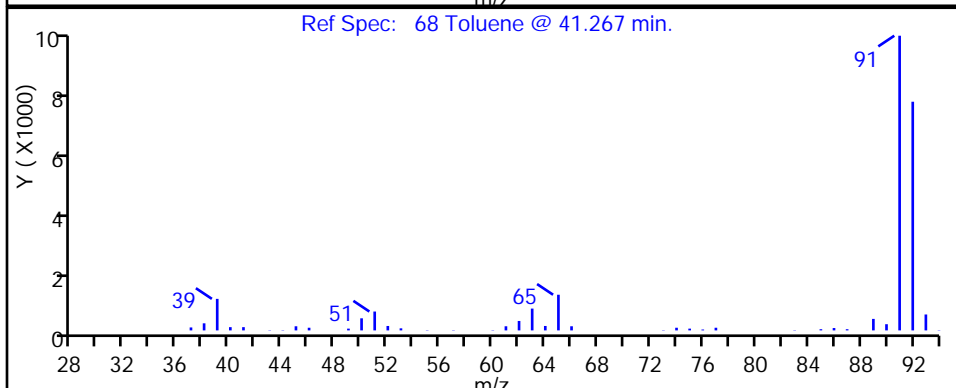
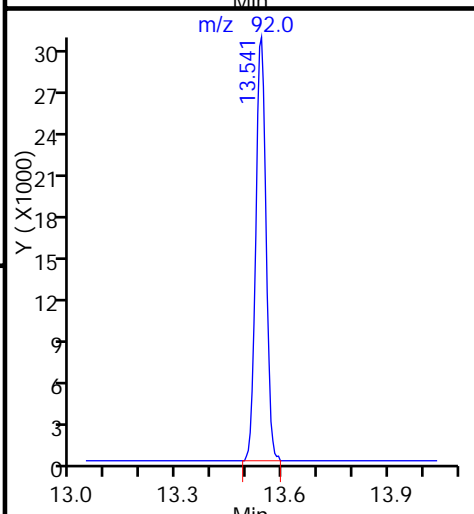
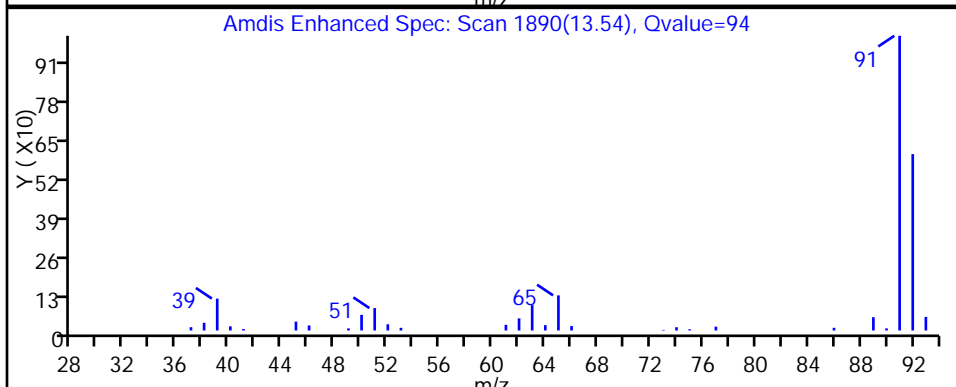
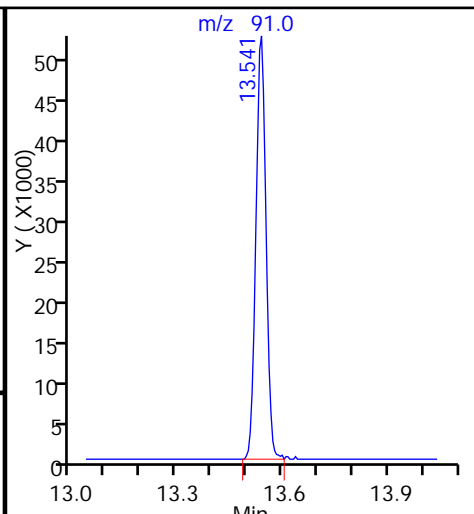
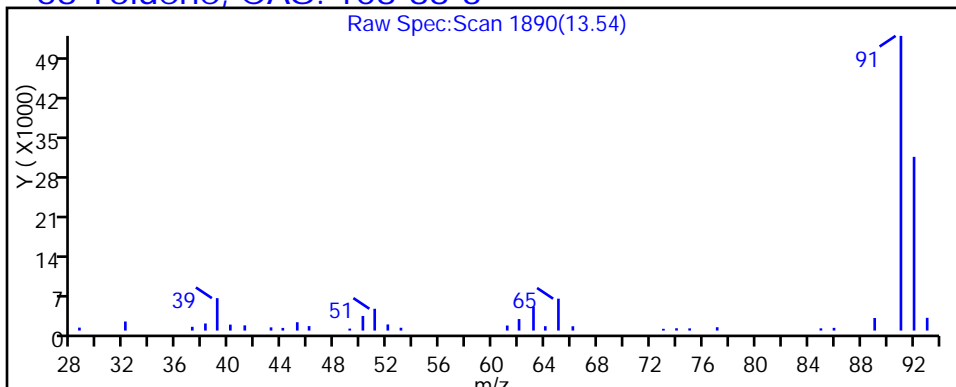
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D

Injection Date: 26-Mar-2017 23:40:30

Instrument ID: MJ

Lims ID: 140-7503-A-2

Lab Sample ID: 140-7503-2

Client ID: AMBIENT #1

Operator ID: 403648

ALS Bottle#: 2

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

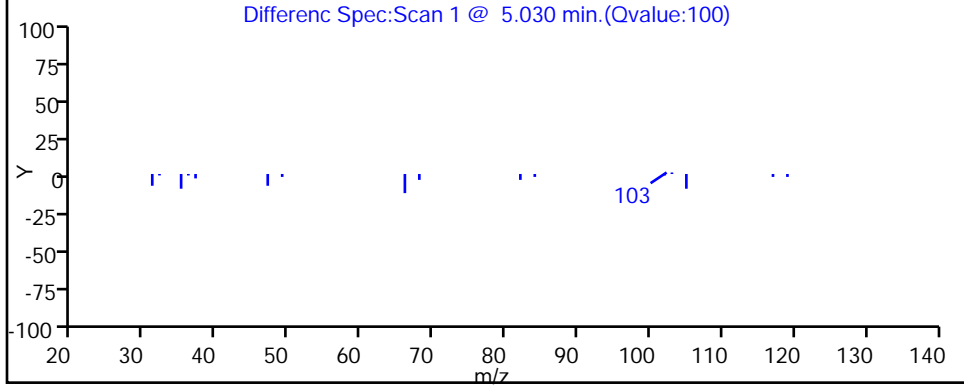
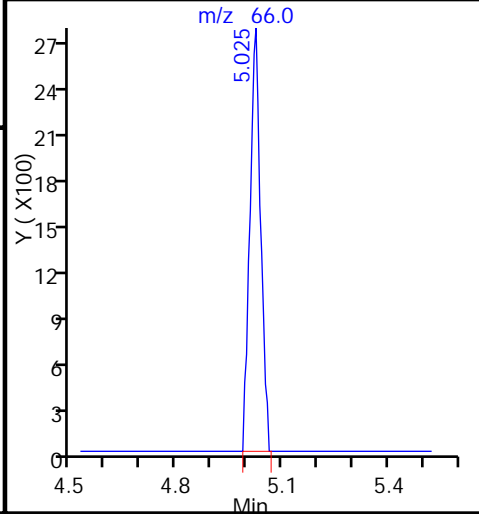
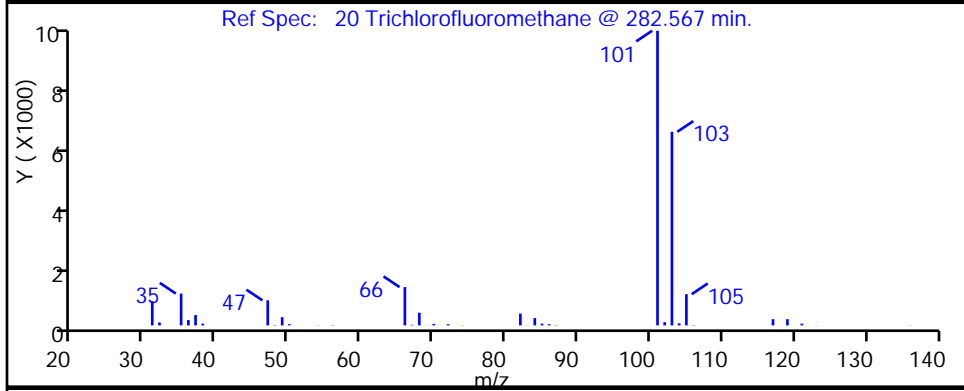
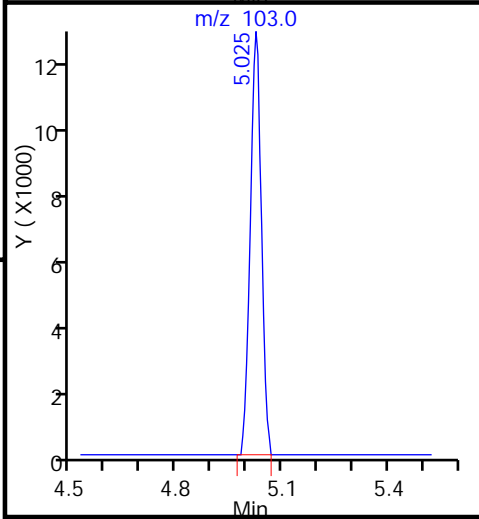
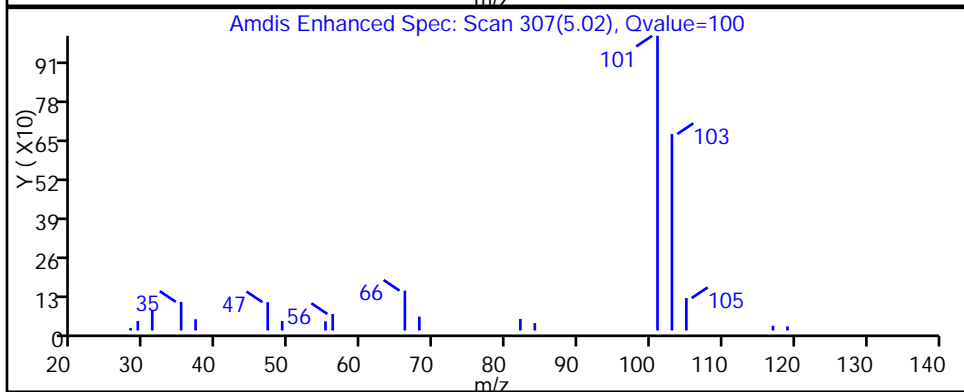
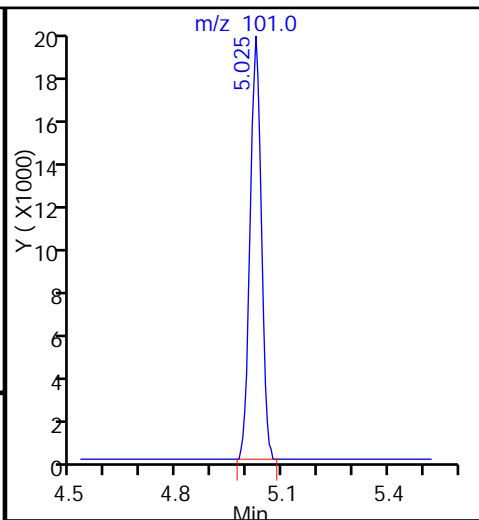
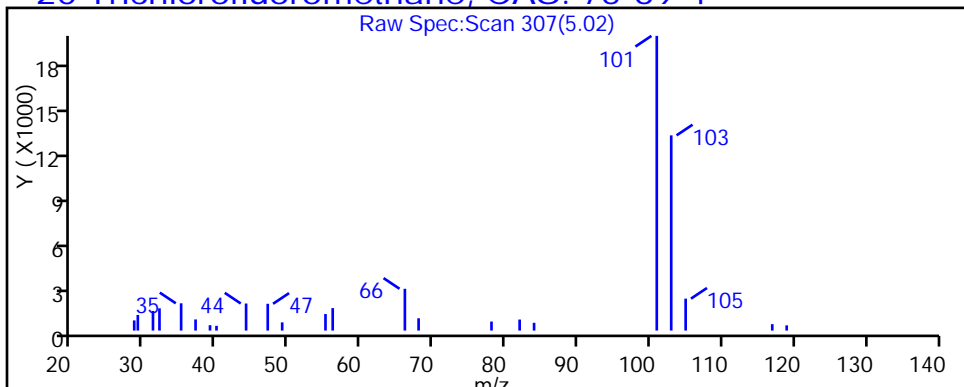
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Knoxville

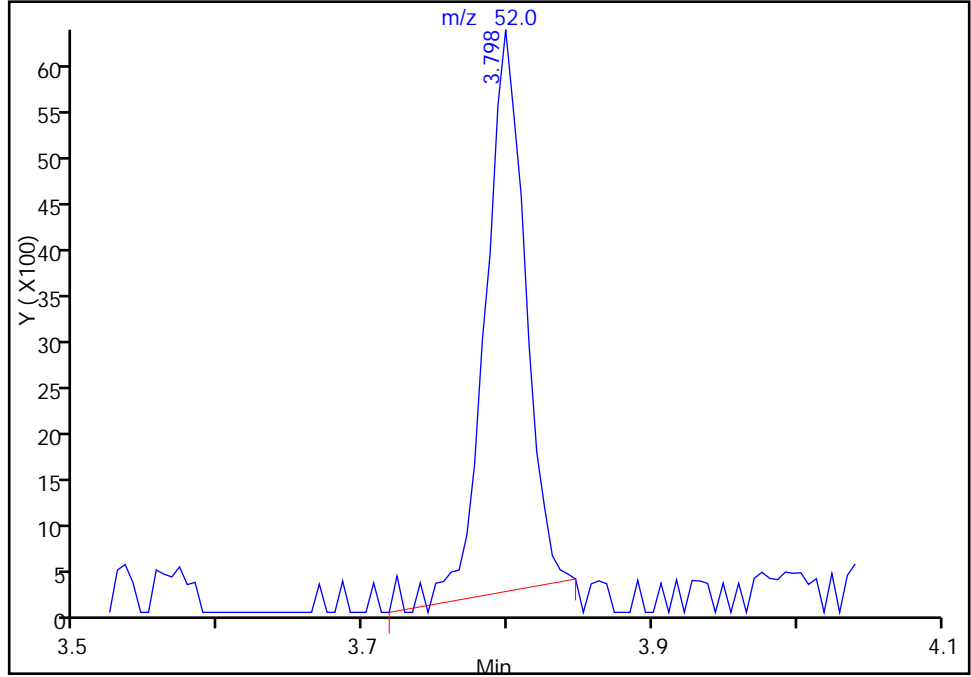
Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P102.D
Injection Date: 26-Mar-2017 23:40:30 Instrument ID: MJ
Lims ID: 140-7503-A-2 Lab Sample ID: 140-7503-2
Client ID: AMBIENT #1
Operator ID: 403648 ALS Bottle#: 2 Worklist Smp#: 17
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

Signal: 1

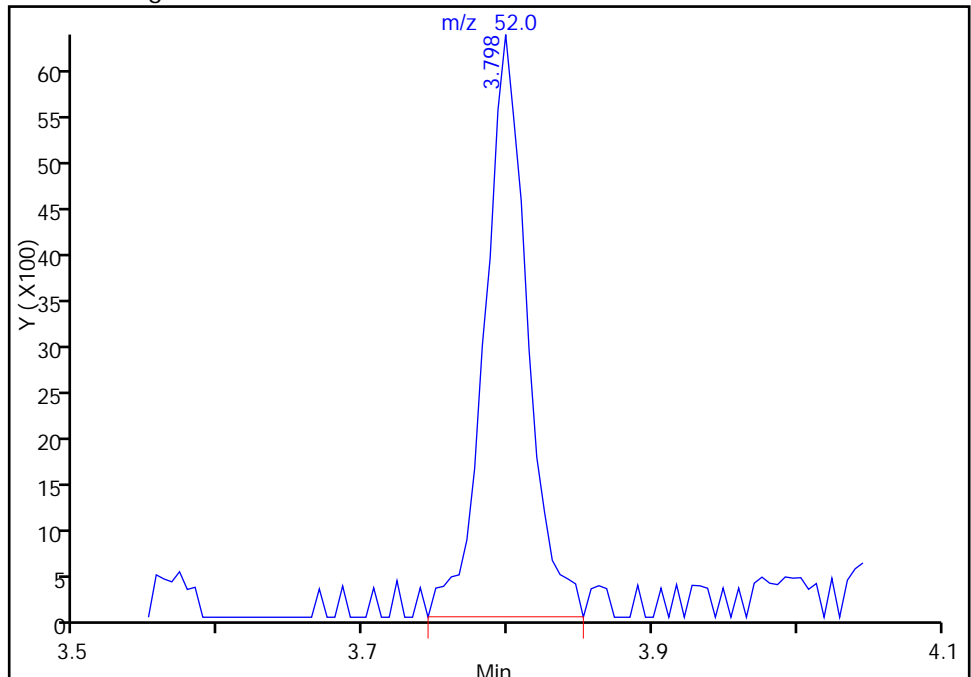
RT: 3.80
Area: 11802
Amount: 0.540592
Amount Units: ppb v/v

Processing Integration Results



RT: 3.80
Area: 13001
Amount: 0.595513
Amount Units: ppb v/v

Manual Integration Results



Reviewer: tajh, 27-Mar-2017 15:43:06
Audit Action: Manually Integrated

Audit Reason: Baseline

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #2 Lab Sample ID: 140-7503-3
 Matrix: Air Lab File ID: JC26P103.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:12
 Sample wt/vol: 25 (mL) Date Analyzed: 03/27/2017 00:25
 Soil Aliquot Vol: _____ Dilution Factor: 46.08
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		74
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		74
79-00-5	1,1,2-Trichloroethane	133.41	ND		74
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		74
75-34-3	1,1-Dichloroethane	98.96	ND		74
75-35-4	1,1-Dichloroethene	96.94	ND		74
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		74
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		74
106-93-4	1,2-Dibromoethane	187.87	ND		74
95-50-1	1,2-Dichlorobenzene	147.00	ND		74
107-06-2	1,2-Dichloroethane	98.96	ND		74
78-87-5	1,2-Dichloropropane	112.99	ND		74
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		74
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		74
541-73-1	1,3-Dichlorobenzene	147.00	ND		74
106-46-7	1,4-Dichlorobenzene	147.00	ND		74
123-91-1	1,4-Dioxane	88.11	ND		180
540-84-1	2,2,4-Trimethylpentane	114.23	ND		180
78-93-3	2-Butanone	72.11	ND		290
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		180
71-43-2	Benzene	78.11	ND		74
100-44-7	Benzyl chloride	126.58	ND		150
75-27-4	Bromodichloromethane	163.83	ND		74
75-25-2	Bromoform	252.75	ND		74
74-83-9	Bromomethane	94.94	ND		74
56-23-5	Carbon tetrachloride	153.81	ND		37
108-90-7	Chlorobenzene	112.56	ND		74
75-00-3	Chloroethane	64.52	ND		74
67-66-3	Chloroform	119.38	ND		74
74-87-3	Chloromethane	50.49	ND		180
156-59-2	cis-1,2-Dichloroethene	96.94	ND		74
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		74
110-82-7	Cyclohexane	84.16	ND		180

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #2 Lab Sample ID: 140-7503-3
 Matrix: Air Lab File ID: JC26P103.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:12
 Sample wt/vol: 25 (mL) Date Analyzed: 03/27/2017 00:25
 Soil Aliquot Vol: _____ Dilution Factor: 46.08
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		74
75-71-8	Dichlorodifluoromethane	120.91	ND		74
64-17-5	Ethanol	46.07	ND		1800
100-41-4	Ethylbenzene	106.17	ND		74
87-68-3	Hexachlorobutadiene	260.76	ND		74
110-54-3	Hexane	86.17	ND		180
1634-04-4	Methyl tert-butyl ether	88.15	ND		150
75-09-2	Methylene Chloride	84.93	ND		180
179601-23-1	m-Xylene & p-Xylene	106.17	ND		74
95-47-6	o-Xylene	106.17	ND		74
100-42-5	Styrene	104.15	ND		74
75-65-0	t-Butyl alcohol	74.12	ND		290
127-18-4	Tetrachloroethene	165.83	7200		74
108-88-3	Toluene	92.14	ND		110
156-60-5	trans-1,2-Dichloroethene	96.94	ND		74
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		74
79-01-6	Trichloroethene	131.39	ND		37
75-69-4	Trichlorofluoromethane	137.37	ND		74
75-01-4	Vinyl chloride	62.50	ND		37

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #2 Lab Sample ID: 140-7503-3
 Matrix: Air Lab File ID: JC26P103.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:12
 Sample wt/vol: 25 (mL) Date Analyzed: 03/27/2017 00:25
 Soil Aliquot Vol: _____ Dilution Factor: 46.08
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		400
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		510
79-00-5	1,1,2-Trichloroethane	133.41	ND		400
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		570
75-34-3	1,1-Dichloroethane	98.96	ND		300
75-35-4	1,1-Dichloroethene	96.94	ND		290
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		550
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		360
106-93-4	1,2-Dibromoethane	187.87	ND		570
95-50-1	1,2-Dichlorobenzene	147.00	ND		440
107-06-2	1,2-Dichloroethane	98.96	ND		300
78-87-5	1,2-Dichloropropane	112.99	ND		340
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		520
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		360
541-73-1	1,3-Dichlorobenzene	147.00	ND		440
106-46-7	1,4-Dichlorobenzene	147.00	ND		440
123-91-1	1,4-Dioxane	88.11	ND		660
540-84-1	2,2,4-Trimethylpentane	114.23	ND		860
78-93-3	2-Butanone	72.11	ND		870
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		760
71-43-2	Benzene	78.11	ND		240
100-44-7	Benzyl chloride	126.58	ND		760
75-27-4	Bromodichloromethane	163.83	ND		490
75-25-2	Bromoform	252.75	ND		760
74-83-9	Bromomethane	94.94	ND		290
56-23-5	Carbon tetrachloride	153.81	ND		230
108-90-7	Chlorobenzene	112.56	ND		340
75-00-3	Chloroethane	64.52	ND		190
67-66-3	Chloroform	119.38	ND		360
74-87-3	Chloromethane	50.49	ND		380
156-59-2	cis-1,2-Dichloroethene	96.94	ND		290
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		330
110-82-7	Cyclohexane	84.16	ND		630

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #2 Lab Sample ID: 140-7503-3
 Matrix: Air Lab File ID: JC26P103.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:12
 Sample wt/vol: 25 (mL) Date Analyzed: 03/27/2017 00:25
 Soil Aliquot Vol: _____ Dilution Factor: 46.08
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		630
75-71-8	Dichlorodifluoromethane	120.91	ND		360
64-17-5	Ethanol	46.07	ND		3500
100-41-4	Ethylbenzene	106.17	ND		320
87-68-3	Hexachlorobutadiene	260.76	ND		790
110-54-3	Hexane	86.17	ND		650
1634-04-4	Methyl tert-butyl ether	88.15	ND		530
75-09-2	Methylene Chloride	84.93	ND		640
179601-23-1	m-Xylene & p-Xylene	106.17	ND		320
95-47-6	o-Xylene	106.17	ND		320
100-42-5	Styrene	104.15	ND		310
75-65-0	t-Butyl alcohol	74.12	ND		890
127-18-4	Tetrachloroethene	165.83	49000		500
108-88-3	Toluene	92.14	ND		420
156-60-5	trans-1,2-Dichloroethene	96.94	ND		290
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		330
79-01-6	Trichloroethene	131.39	ND		200
75-69-4	Trichlorofluoromethane	137.37	ND		410
75-01-4	Vinyl chloride	62.50	ND		94

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P103.D
 Lims ID: 140-7503-A-3
 Client ID: SUB SLAB #2
 Sample Type: Client
 Inject. Date: 27-Mar-2017 00:25:30 ALS Bottle#: 3 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 46.0800
 Sample Info: 140-0004417-018
 Misc. Info.: 140-7503-a-3@46.08
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa Date: 27-Mar-2017 11:14:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.546	8.547	-0.001	96	226435	4.00	
* 2 1,4-Difluorobenzene	114	10.741	10.748	-0.007	95	1027719	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.523	15.524	-0.001	88	929800	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.170	17.171	-0.001	94	649997	4.00	
31 Methylene Chloride	84	6.045	6.046	-0.001	97	5395	0.0771	
44 Chloroform	83	8.562	8.563	-0.001	28	4380	0.0293	
76 Tetrachloroethene	129	14.690	14.691	-0.001	95	639583	7.84	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P103.D

Injection Date: 27-Mar-2017 00:25:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-7503-A-3

Lab Sample ID: 140-7503-3

Worklist Smp#: 18

Client ID: SUB SLAB #2

Purge Vol: 500.000 mL

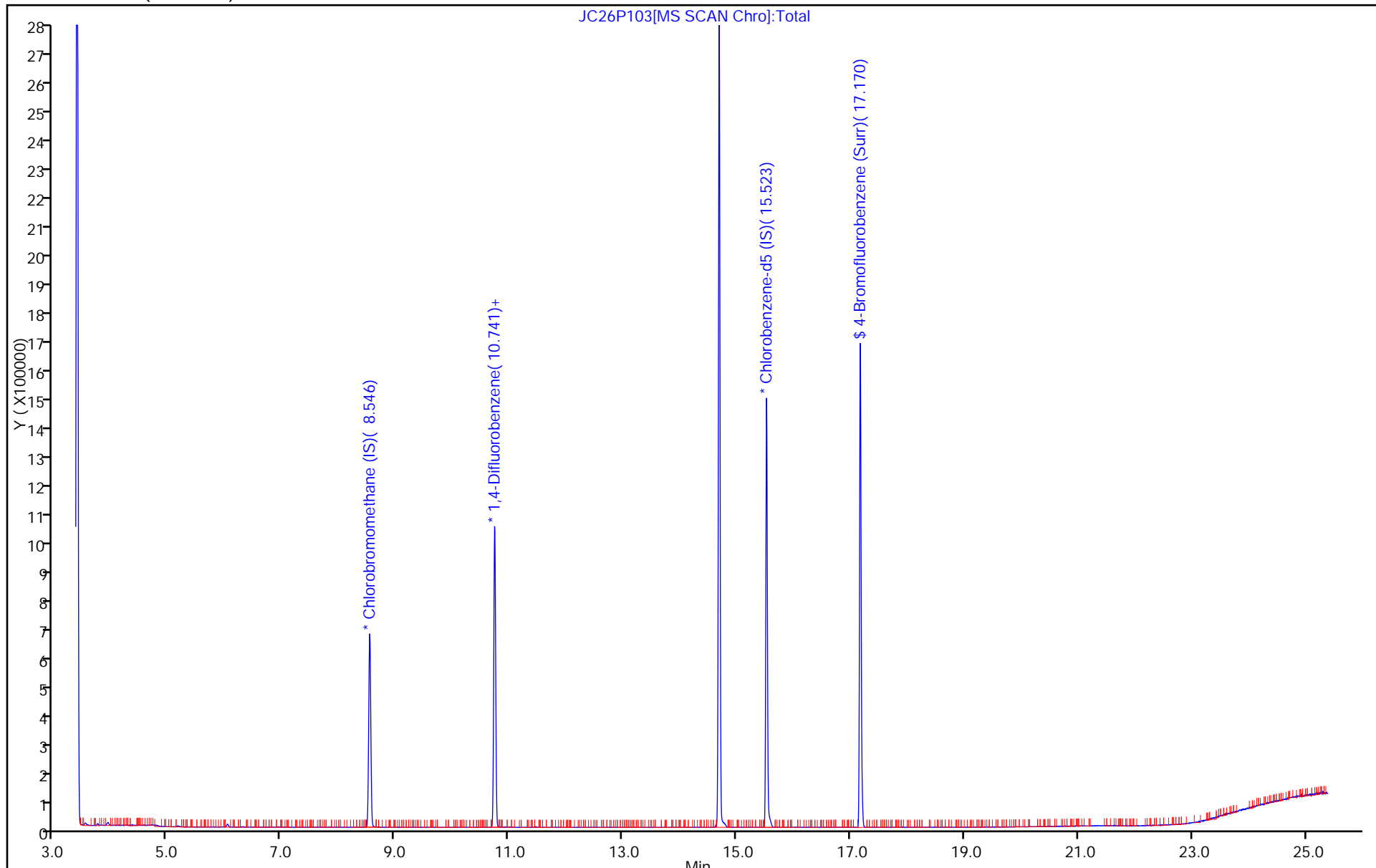
Dil. Factor: 46.0800

ALS Bottle#: 3

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P103.D
 Lims ID: 140-7503-A-3
 Client ID: SUB SLAB #2
 Sample Type: Client
 Inject. Date: 27-Mar-2017 00:25:30 ALS Bottle#: 3 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 46.0800
 Sample Info: 140-0004417-018
 Misc. Info.: 140-7503-a-3@46.08
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa Date: 27-Mar-2017 11:14:22

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.00	100.12

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P103.D

Injection Date: 27-Mar-2017 00:25:30

Instrument ID: MJ

Lims ID: 140-7503-A-3

Lab Sample ID: 140-7503-3

Client ID: SUB SLAB #2

Operator ID: 403648

ALS Bottle#: 3

Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 46.0800

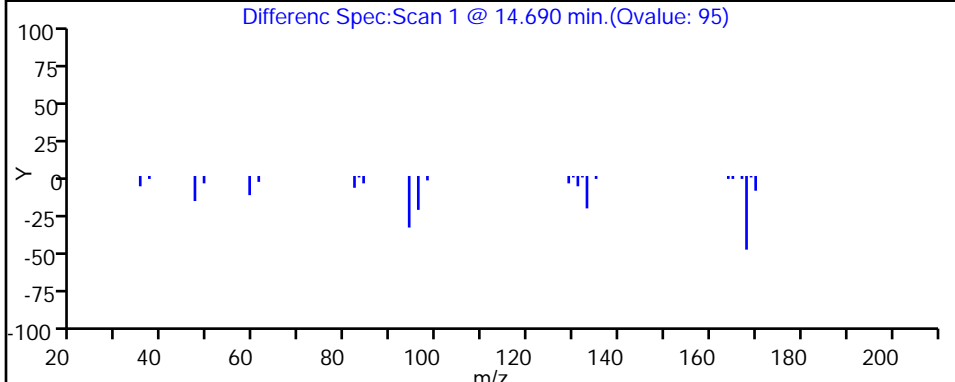
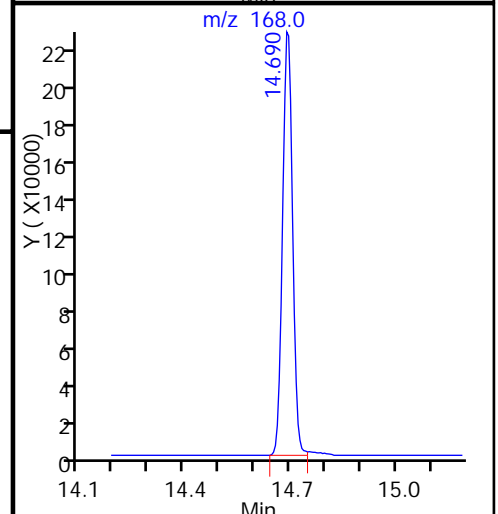
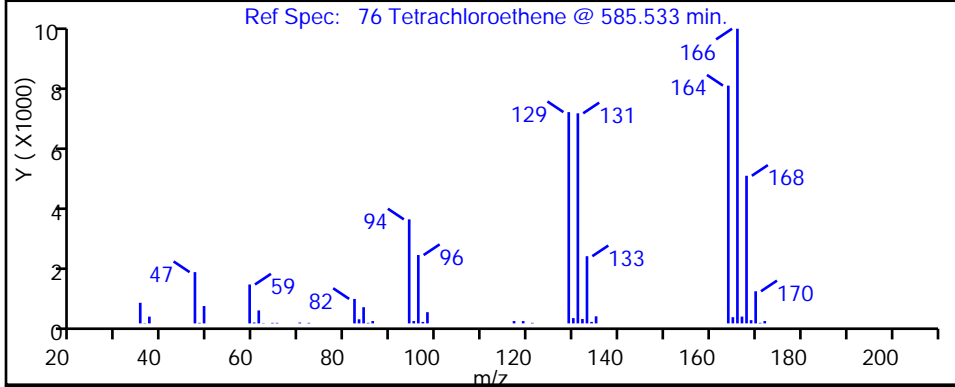
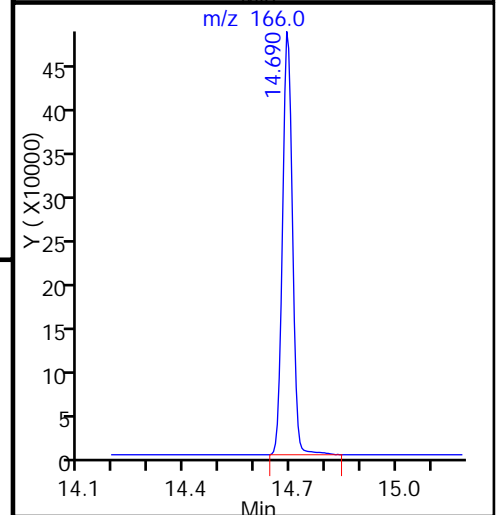
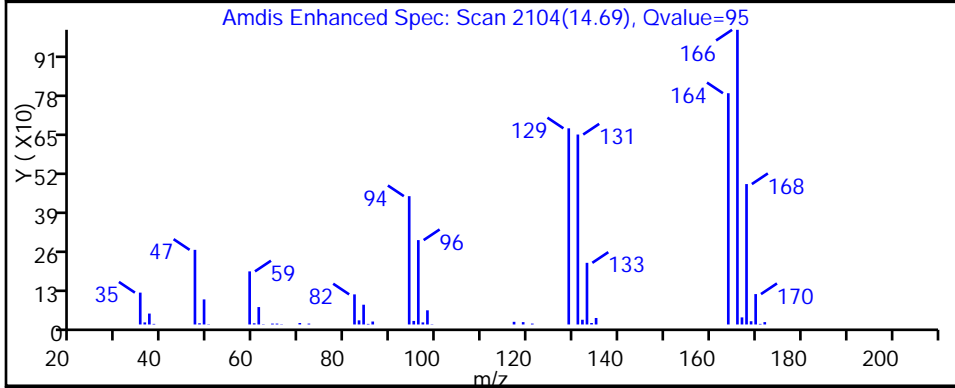
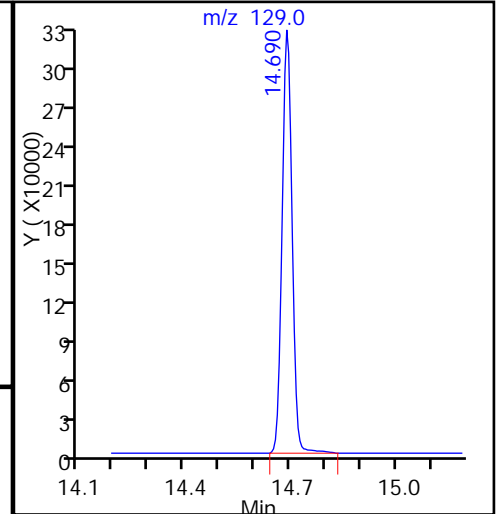
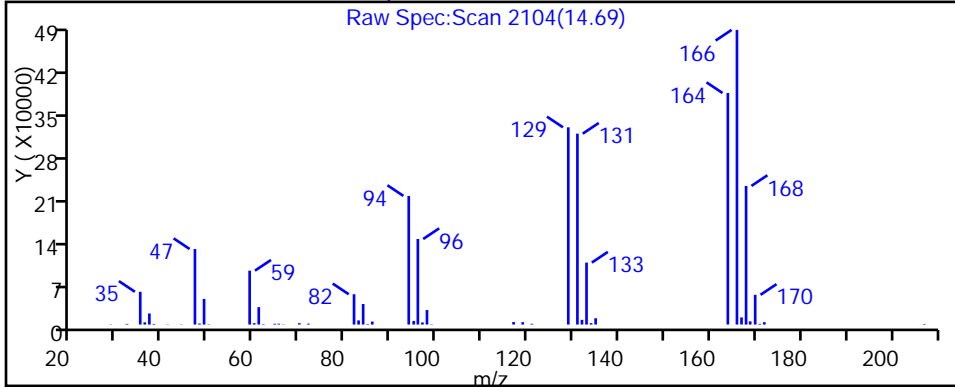
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 Lab Sample ID: 140-7503-4
 Matrix: Air Lab File ID: JC26P104.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 01:13
 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.: 9850 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
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	0.83		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	0.24		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20
78-93-3	2-Butanone	72.11	0.38		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20
71-43-2	Benzene	78.11	0.31		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	0.069		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	ND		0.080
67-66-3	Chloroform	119.38	0.69		0.080
74-87-3	Chloromethane	50.49	0.59		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	ND		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 Lab Sample ID: 140-7503-4
 Matrix: Air Lab File ID: JC26P104.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 01:13
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.080
75-71-8	Dichlorodifluoromethane	120.91	0.47		0.080
64-17-5	<i>Ethanol</i>	46.07	400	<i>E</i>	2.0
100-41-4	Ethylbenzene	106.17	0.67		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	ND		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.29		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	1.7		0.080
95-47-6	o-Xylene	106.17	0.84		0.080
100-42-5	Styrene	104.15	ND		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	2.4		0.080
108-88-3	Toluene	92.14	0.54		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080
79-01-6	Trichloroethene	131.39	ND		0.040
75-69-4	Trichlorofluoromethane	137.37	0.23		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 Lab Sample ID: 140-7503-4
 Matrix: Air Lab File ID: JC26P104.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 01:13
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	4.1		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	1.2		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93
78-93-3	2-Butanone	72.11	1.1		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82
71-43-2	Benzene	78.11	1.0		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.43		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	3.4		0.39
74-87-3	Chloromethane	50.49	1.2		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 Lab Sample ID: 140-7503-4
 Matrix: Air Lab File ID: JC26P104.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 01:13
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.40
64-17-5	<i>Ethanol</i>	46.07	760	<i>E</i>	3.8
100-41-4	Ethylbenzene	106.17	2.9		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	ND		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	1.0		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	7.3		0.35
95-47-6	o-Xylene	106.17	3.7		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	17		0.54
108-88-3	Toluene	92.14	2.0		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	1.3		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D
 Lims ID: 140-7503-A-4
 Client ID: AMBIENT #2
 Sample Type: Client
 Inject. Date: 27-Mar-2017 01:13:30 ALS Bottle#: 4 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-019
 Misc. Info.: 140-7503-a-4
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh Date: 27-Mar-2017 15:38:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.541	8.547	-0.006	97	223013	4.00	
* 2 1,4-Difluorobenzene	114	10.742	10.748	-0.006	95	1054614	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.524	15.524	0.000	89	927430	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.170	17.171	-0.001	94	664949	4.11	
8 Dichlorodifluoromethane	85	3.624	3.625	-0.001	100	90275	0.4723	
9 Chloromethane	52	3.791	3.797	-0.006	99	12420	0.5925	M
10 1,2-Dichloro-1,1,2,2-tetra	135	3.797	3.803	-0.006	31	1292	0.0153	
17 Ethanol	31	4.587	4.566	0.021	96	5276976	401.4	E
20 Trichlorofluoromethane	101	5.018	5.024	-0.006	100	39983	0.2278	
28 2-Methyl-2-propanol	59	5.830	5.804	0.026	92	8861	0.1072	
30 1,1,2-Trichloro-1,2,2-trif	101	5.873	5.879	-0.006	96	9018	0.0635	
31 Methylene Chloride	84	6.040	6.046	-0.006	98	19768	0.2869	
39 2-Butanone (MEK)	72	7.810	7.810	0.000	93	6215	0.3788	
40 Hexane	56	7.810	7.821	-0.011	59	6011	0.1027	
44 Chloroform	83	8.557	8.563	-0.006	97	101975	0.6929	
50 Cyclohexane	69	10.193	10.188	0.005	51	1345	0.0422	
51 Benzene	78	10.182	10.188	-0.006	97	64463	0.3119	
52 Carbon tetrachloride	117	10.204	10.210	-0.006	97	10994	0.0690	
56 Isooctane	57	10.962	10.968	-0.006	96	19744	0.0553	
65 4-Methyl-2-pentanone (MIBK	43	12.673	12.668	0.005	96	8727	0.0986	
68 Toluene	91	13.539	13.539	0.000	94	105300	0.5369	
76 Tetrachloroethene	129	14.690	14.691	-0.001	95	198208	2.43	
79 Ethylbenzene	91	15.863	15.863	0.000	98	149286	0.6742	
81 m-Xylene & p-Xylene	91	16.024	16.030	-0.006	99	268434	1.68	
85 o-Xylene	91	16.551	16.552	-0.001	99	137949	0.8445	
92 1,3,5-Trimethylbenzene	120	17.918	17.918	0.000	94	20587	0.2414	
96 1,2,4-Trimethylbenzene	105	18.364	18.365	-0.001	98	121902	0.8313	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Worklist Smp#: 19

Client ID: AMBIENT #2

Purge Vol: 500.000 mL

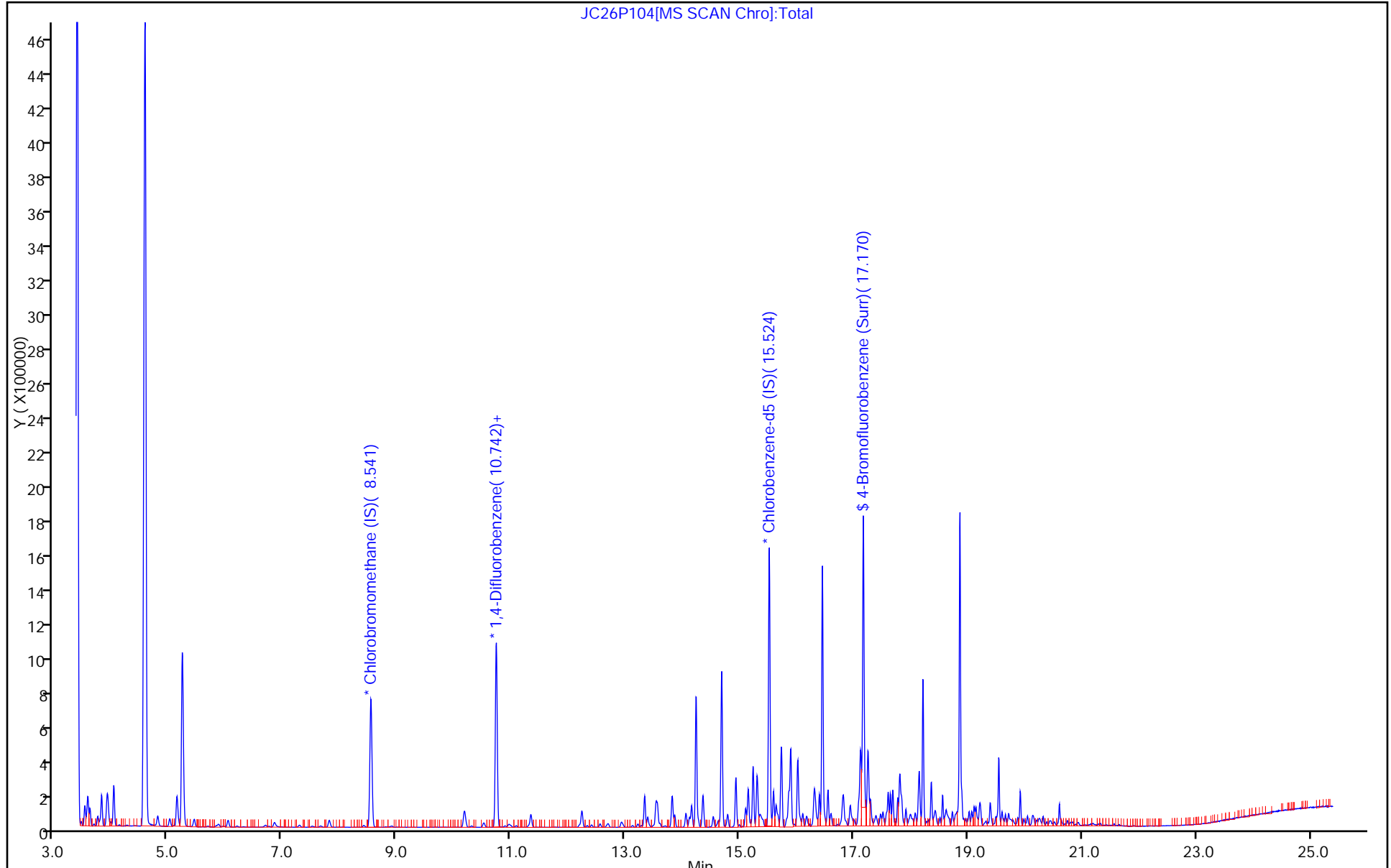
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D
 Lims ID: 140-7503-A-4
 Client ID: AMBIENT #2
 Sample Type: Client
 Inject. Date: 27-Mar-2017 01:13:30 ALS Bottle#: 4 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-019
 Misc. Info.: 140-7503-a-4
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh Date: 27-Mar-2017 15:38:23

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.11	102.69

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

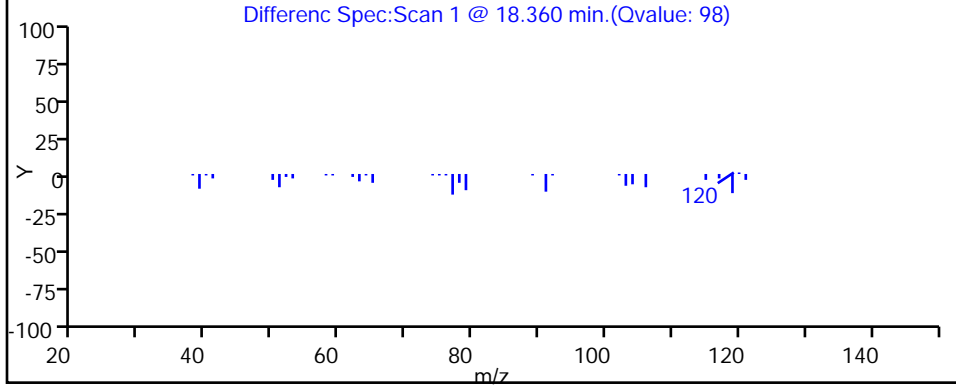
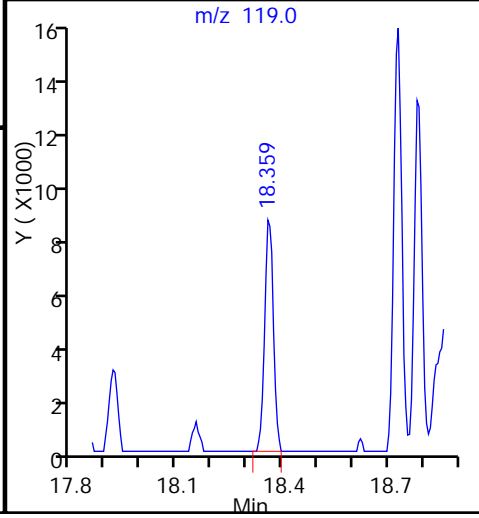
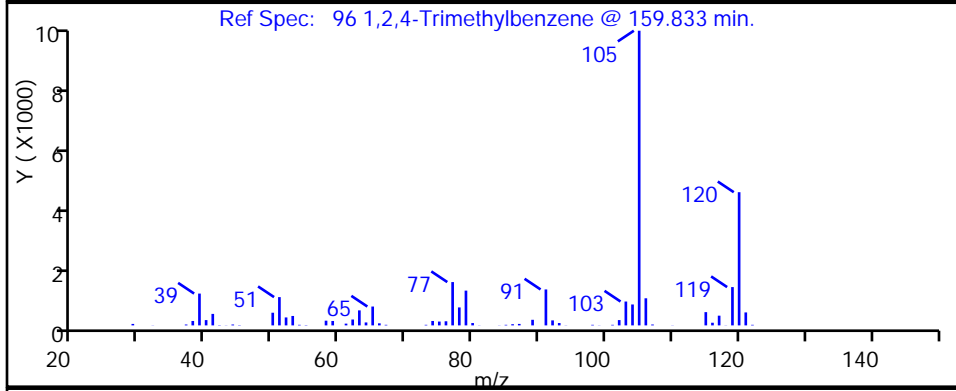
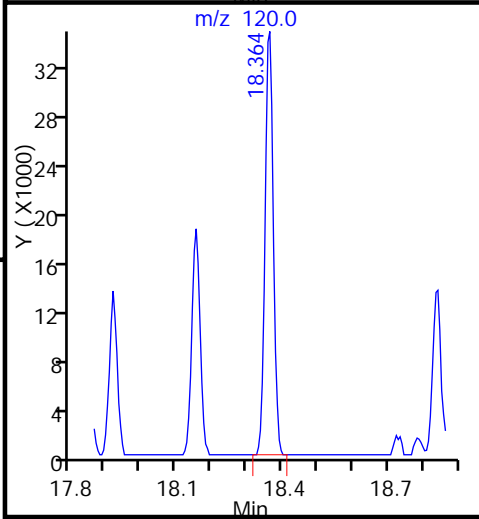
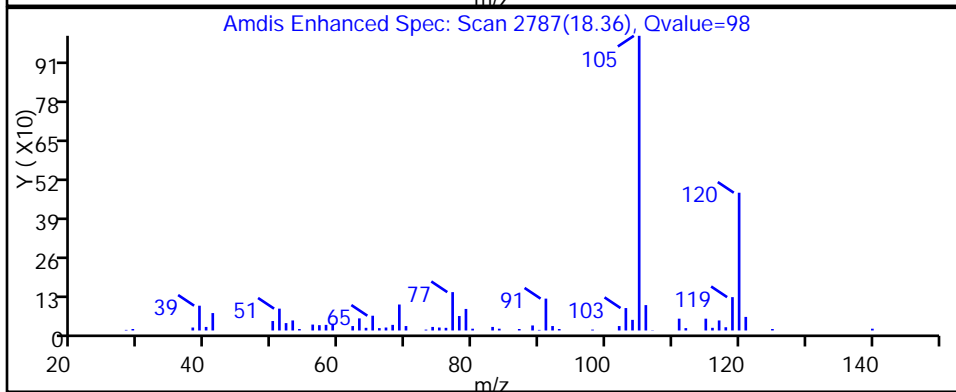
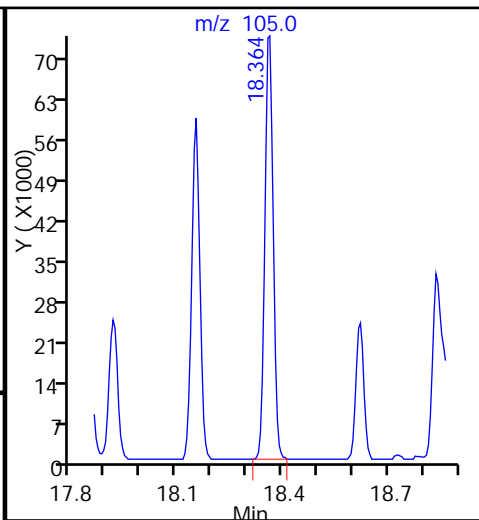
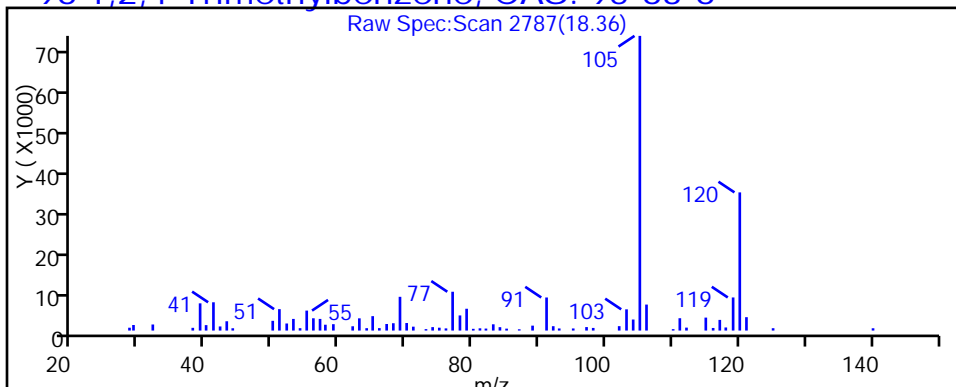
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

96 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

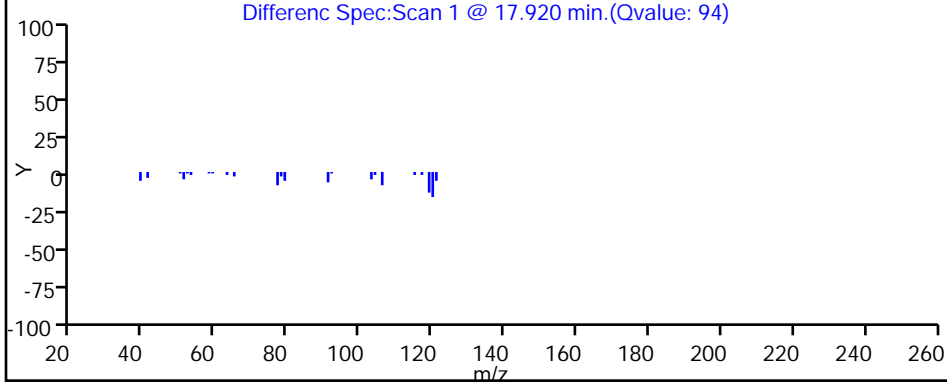
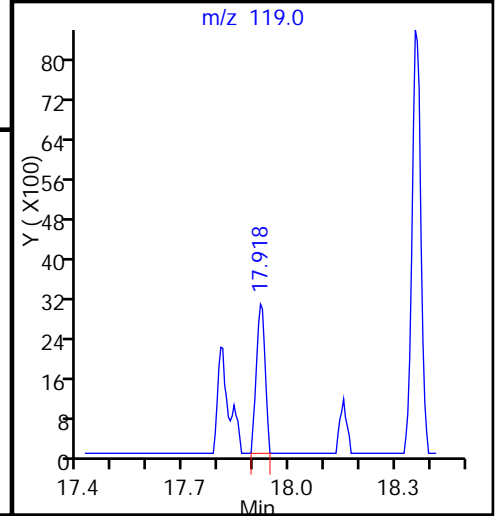
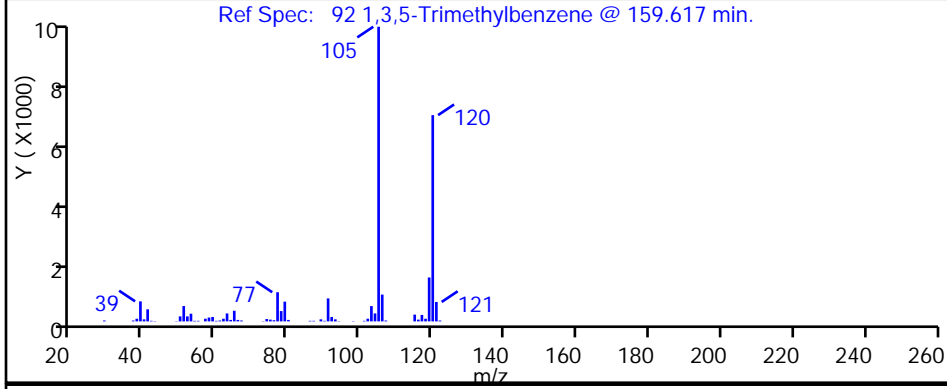
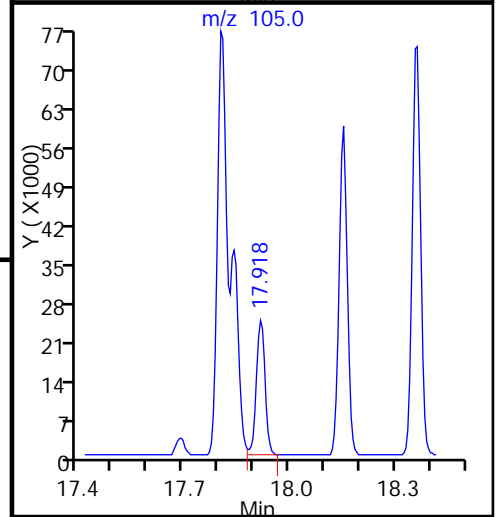
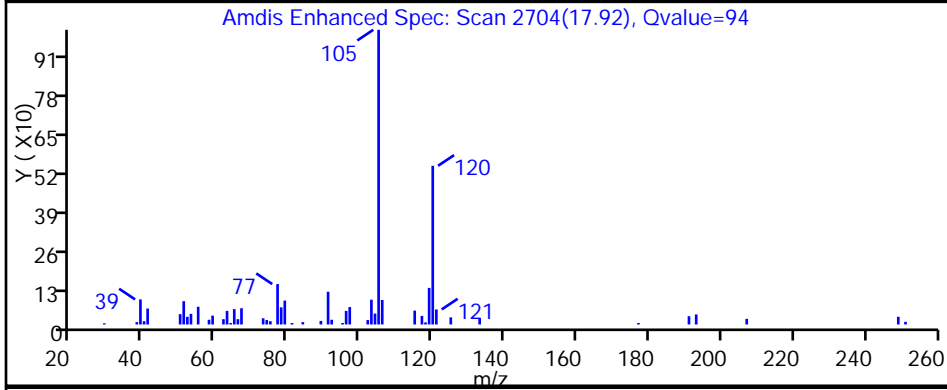
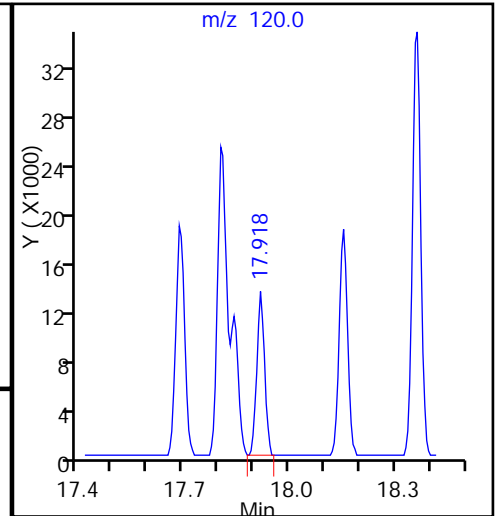
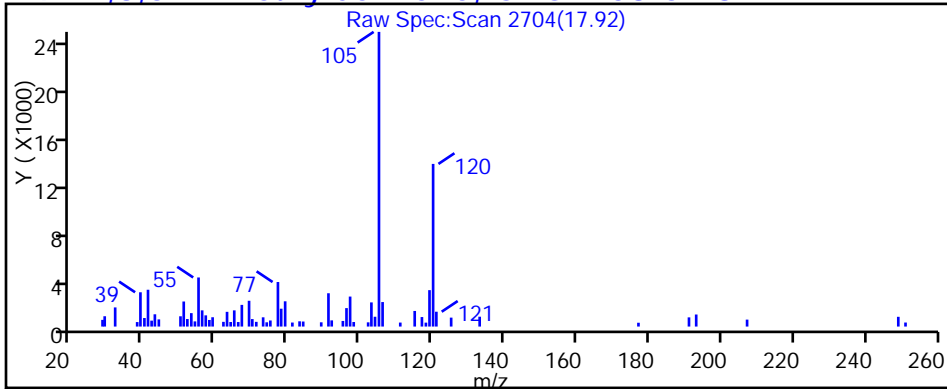
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

92 1,3,5-Trimethylbenzene, CAS: 108-67-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

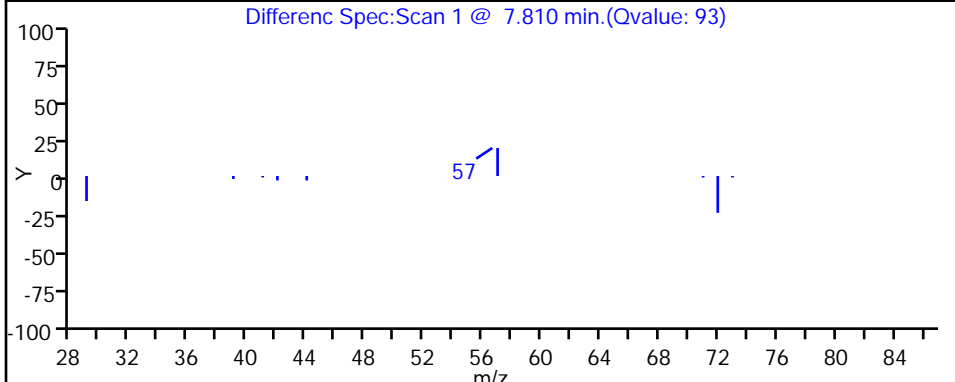
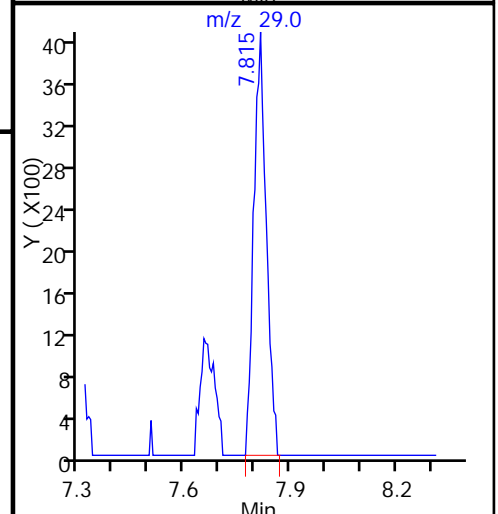
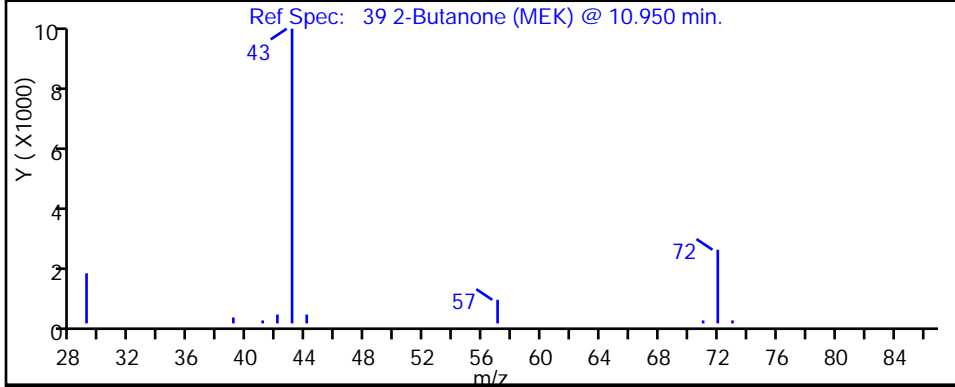
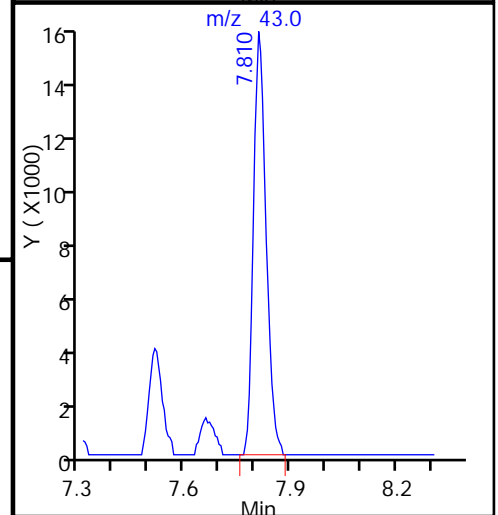
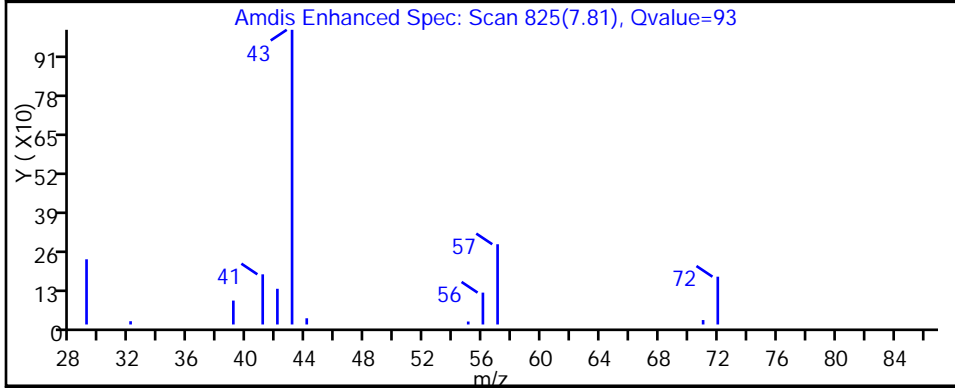
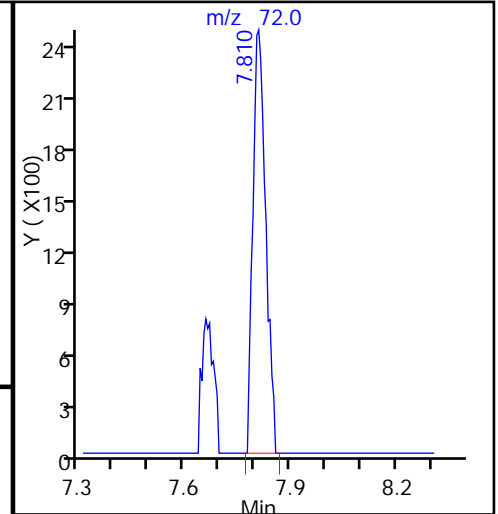
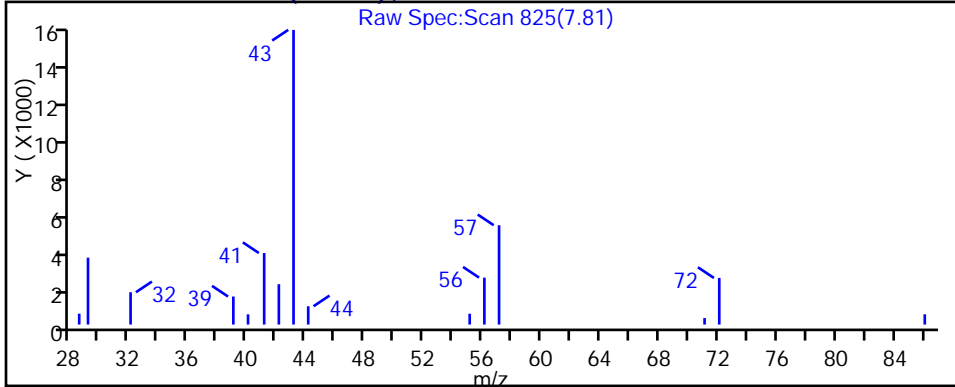
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

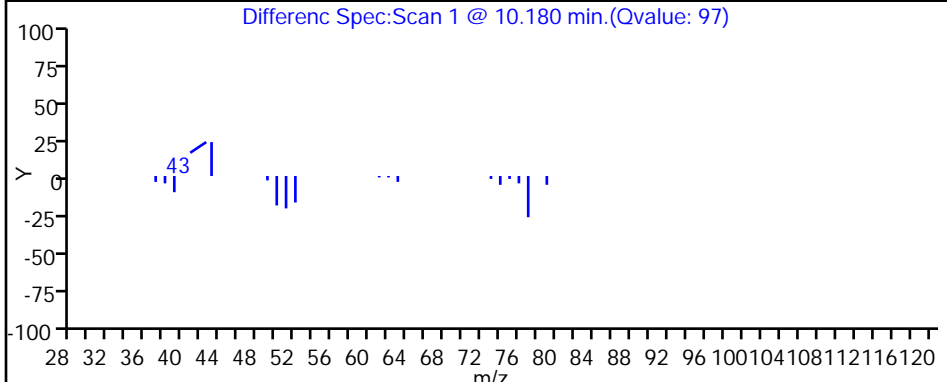
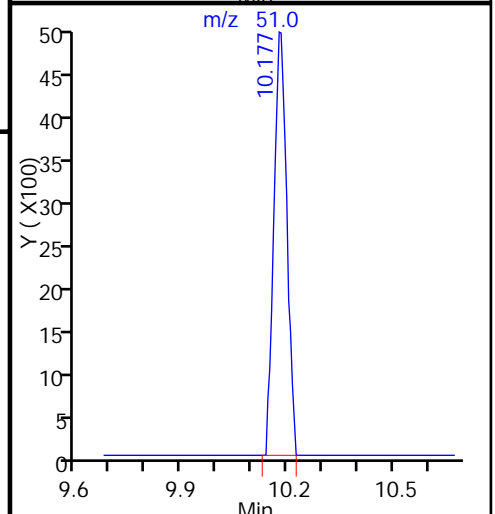
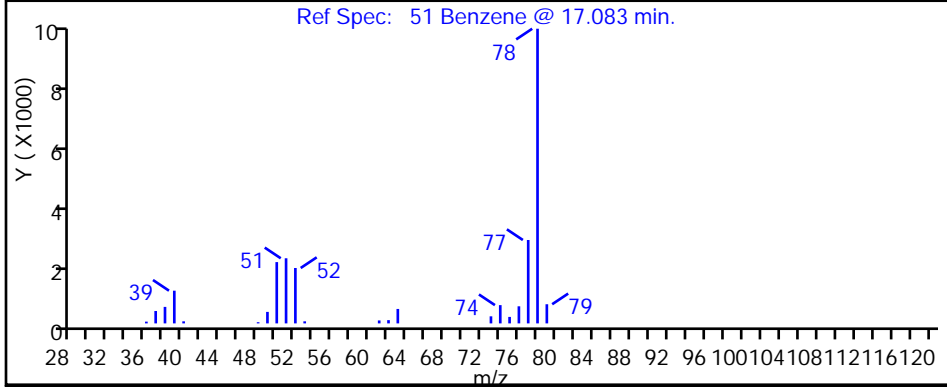
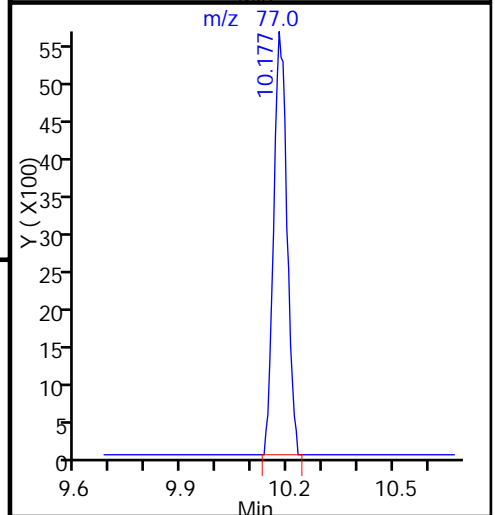
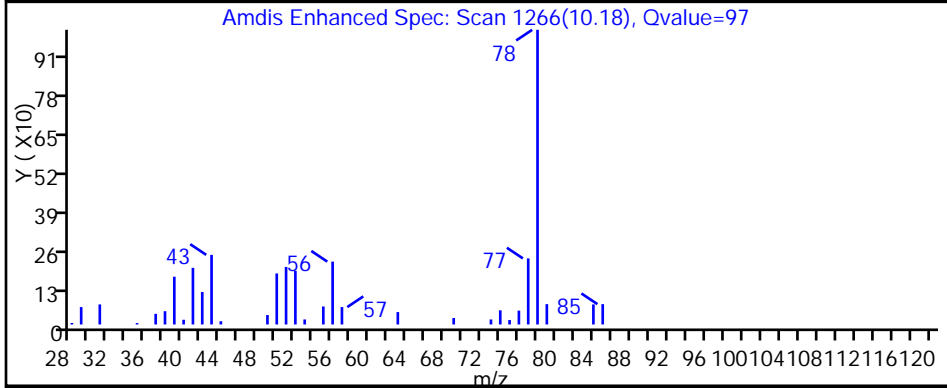
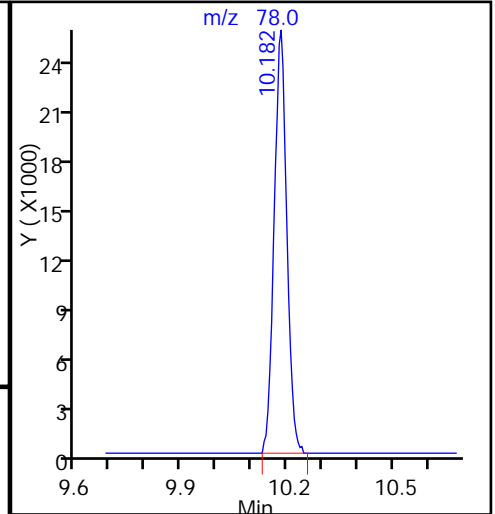
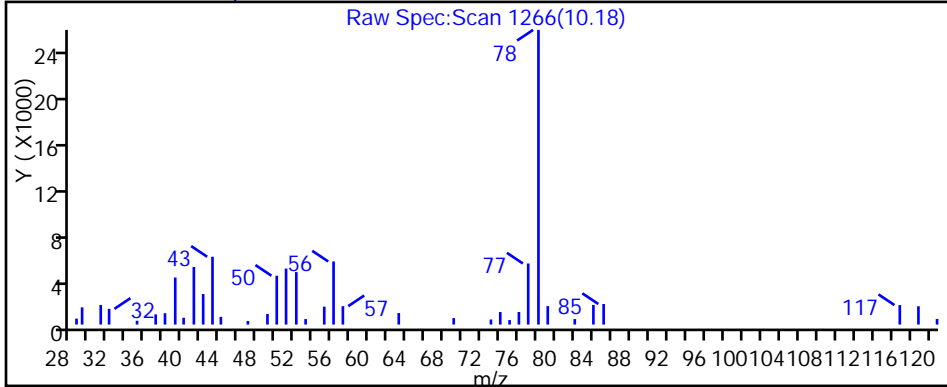
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

51 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

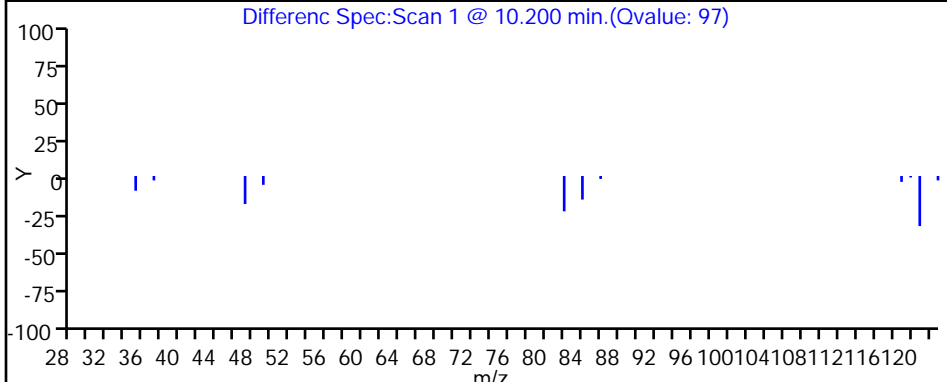
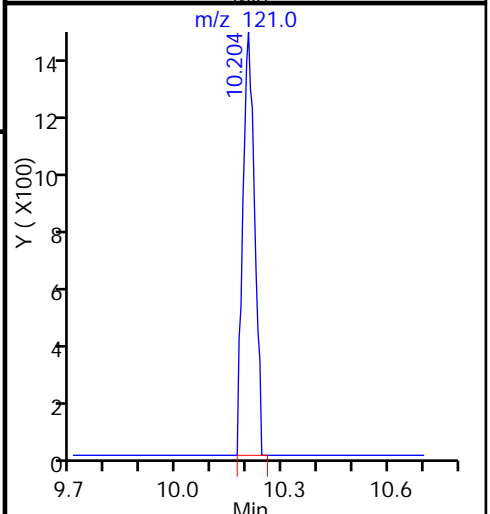
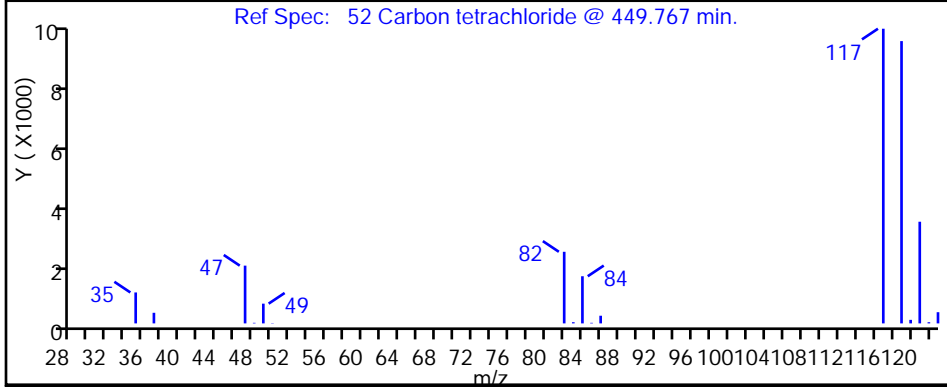
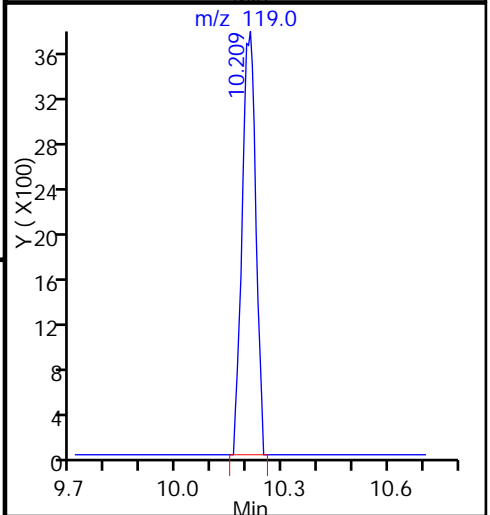
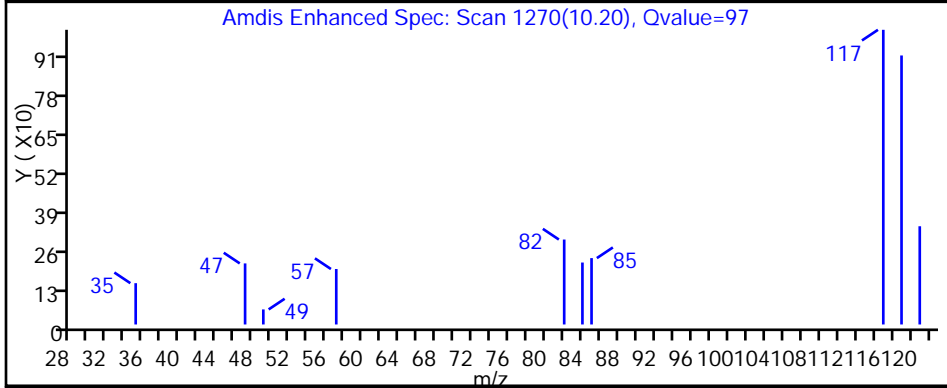
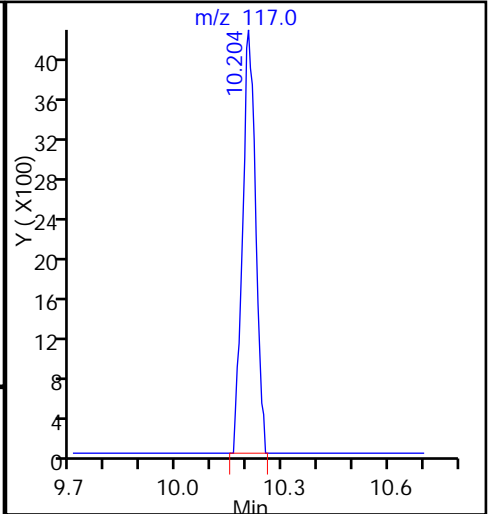
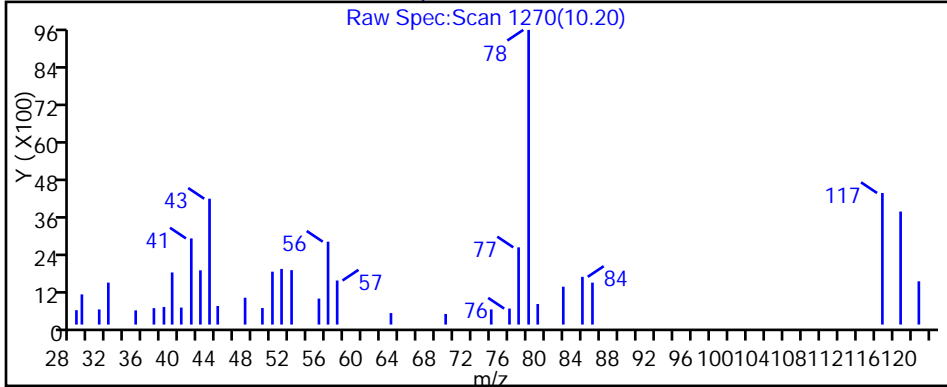
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

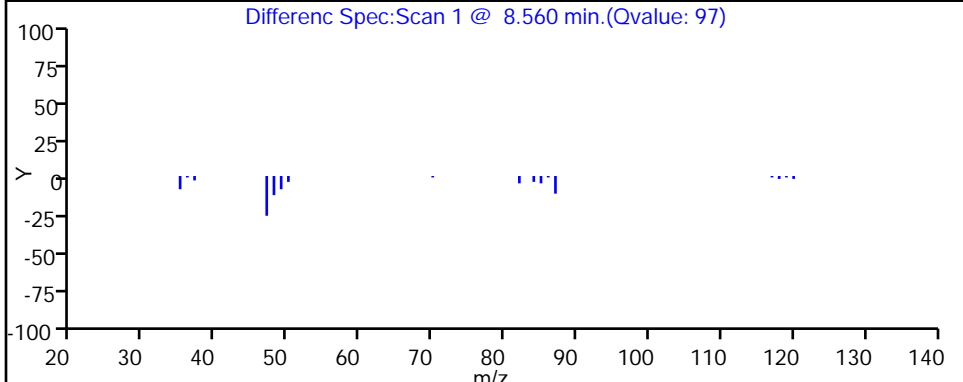
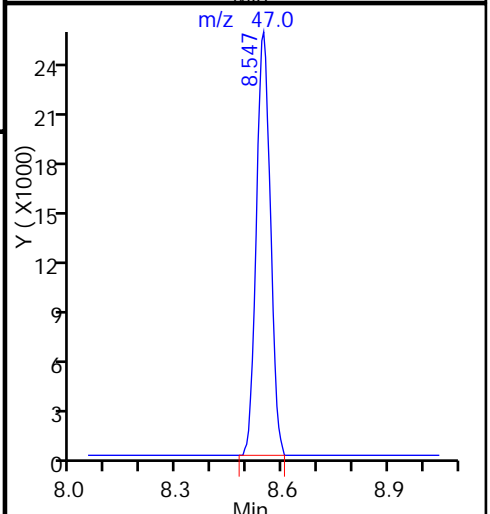
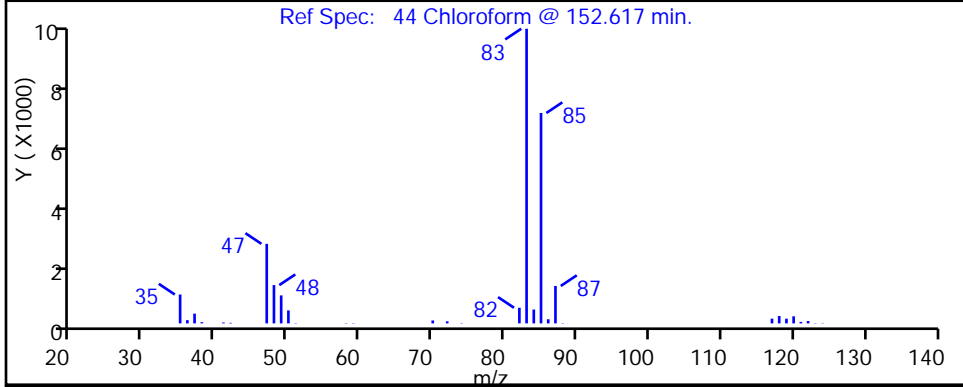
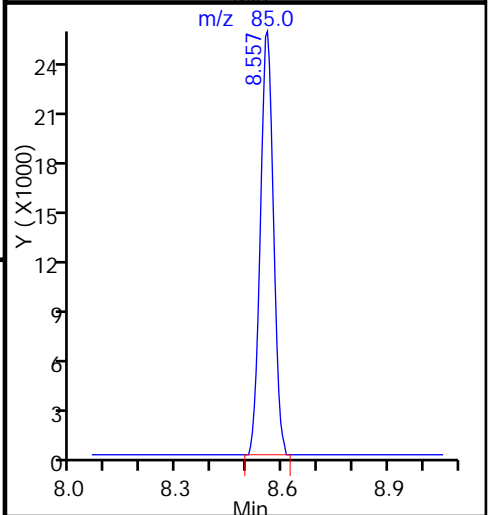
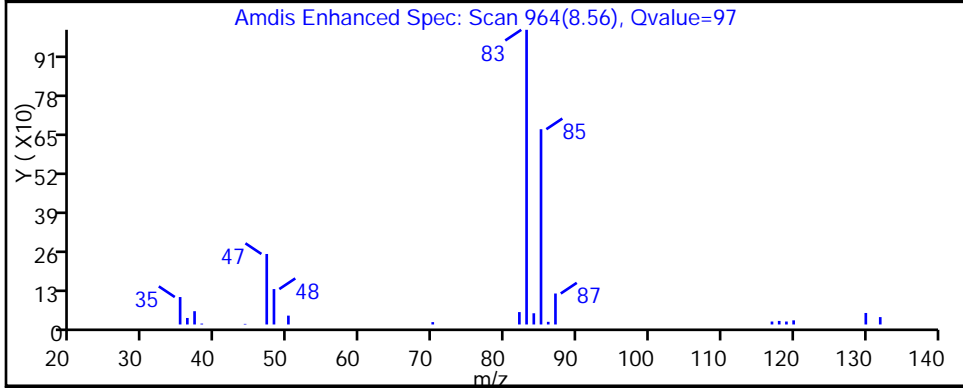
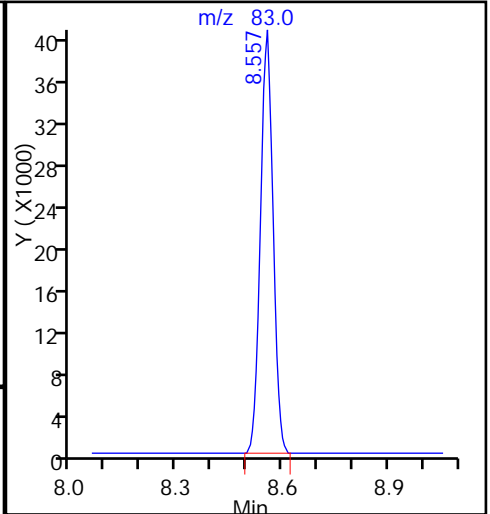
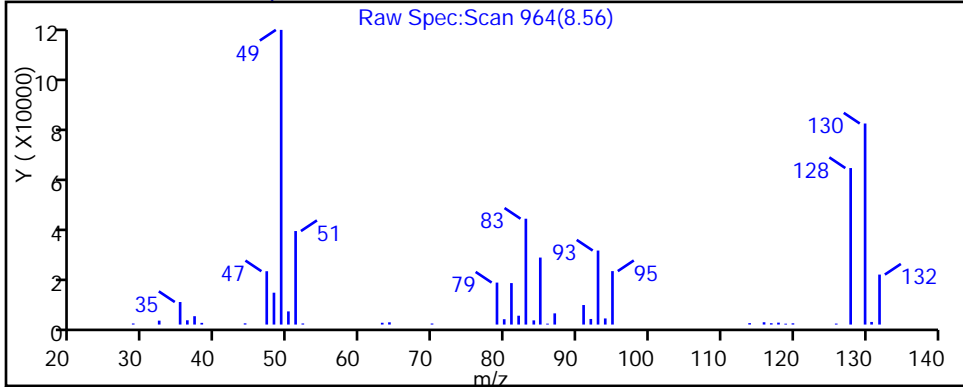
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

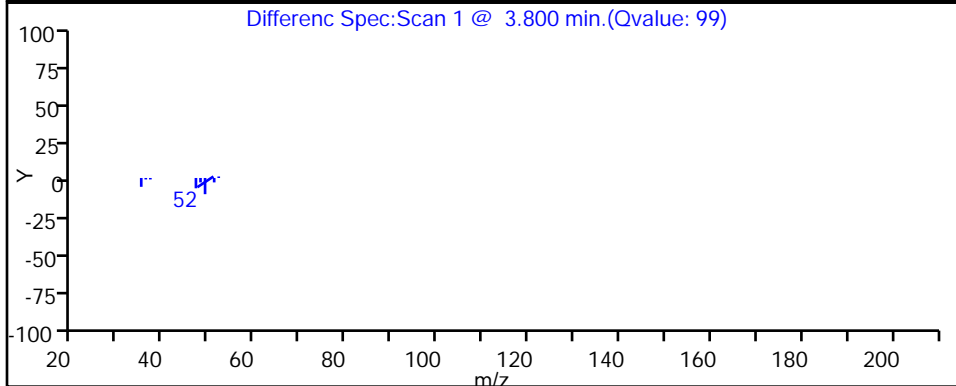
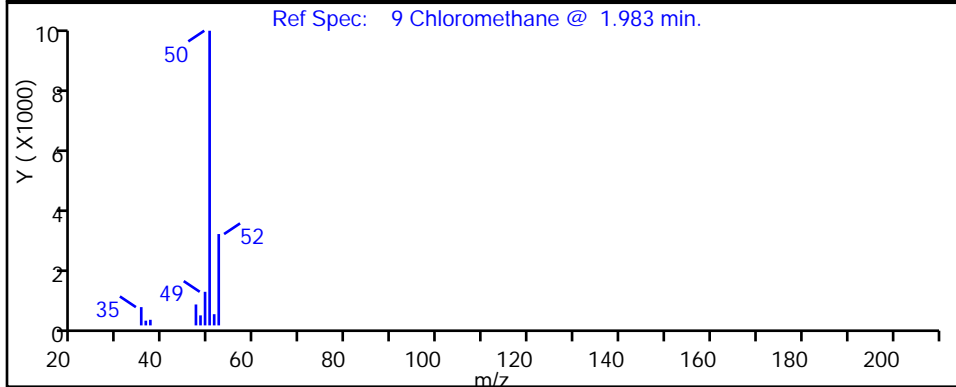
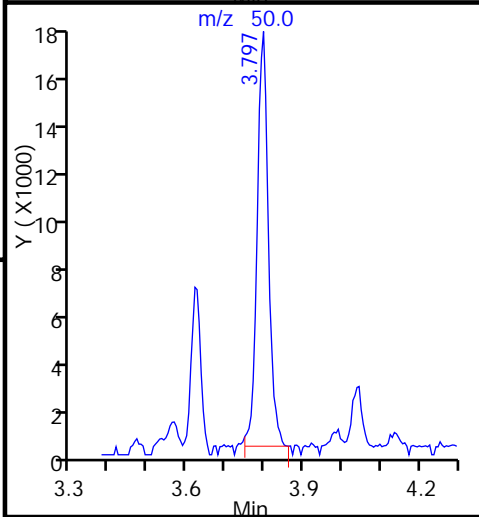
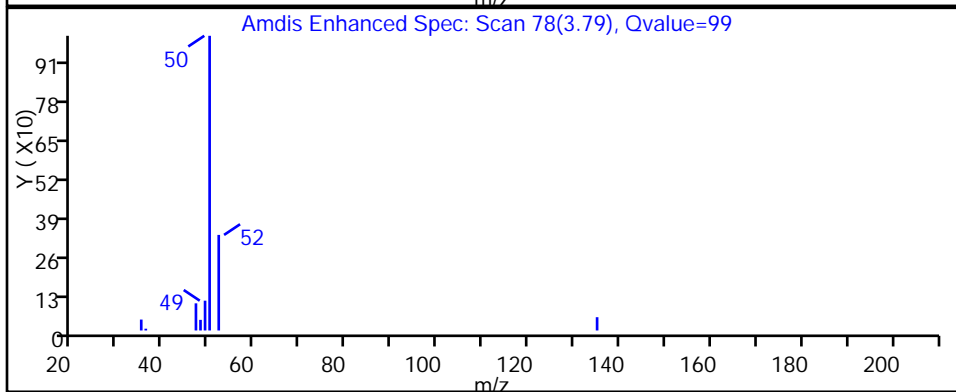
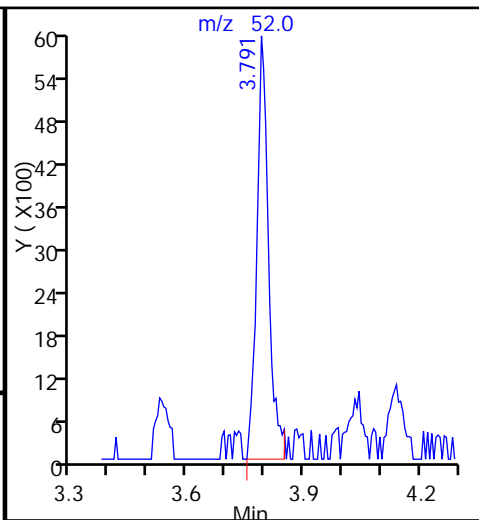
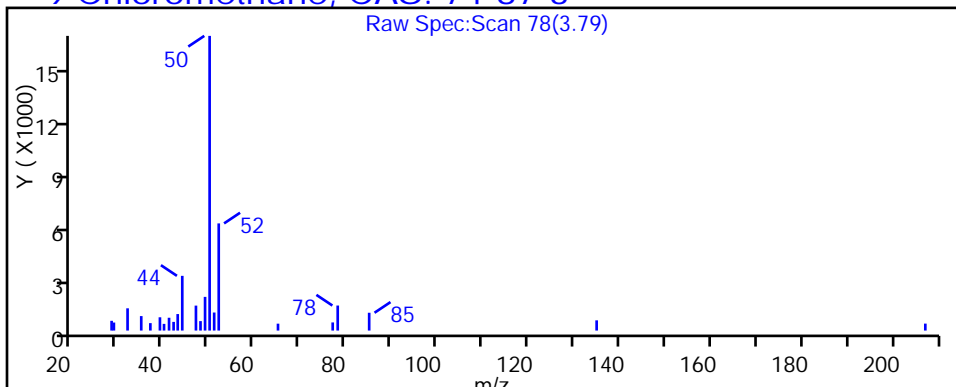
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

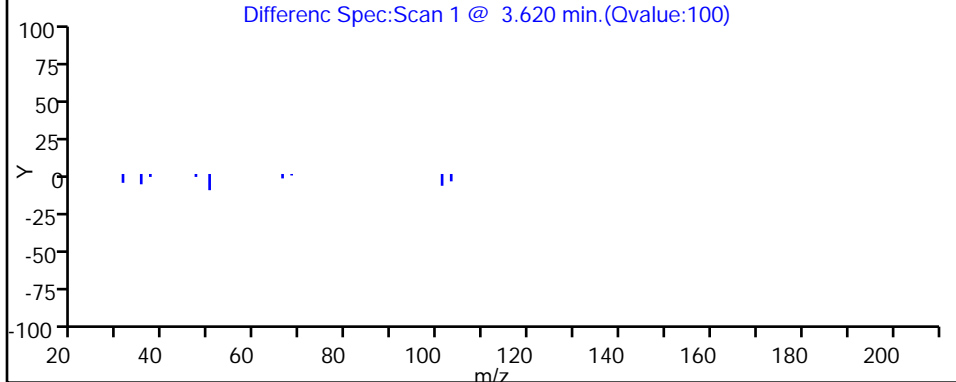
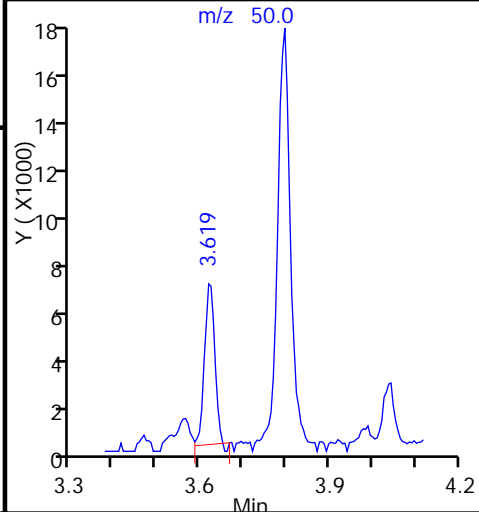
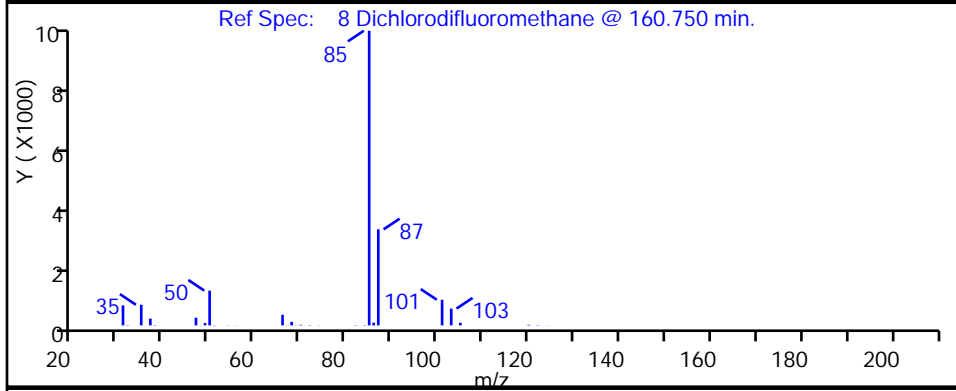
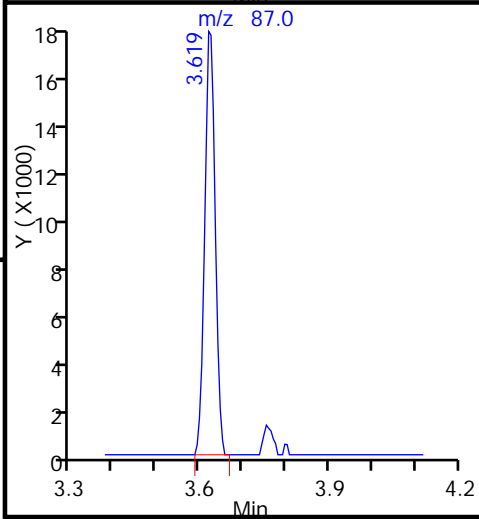
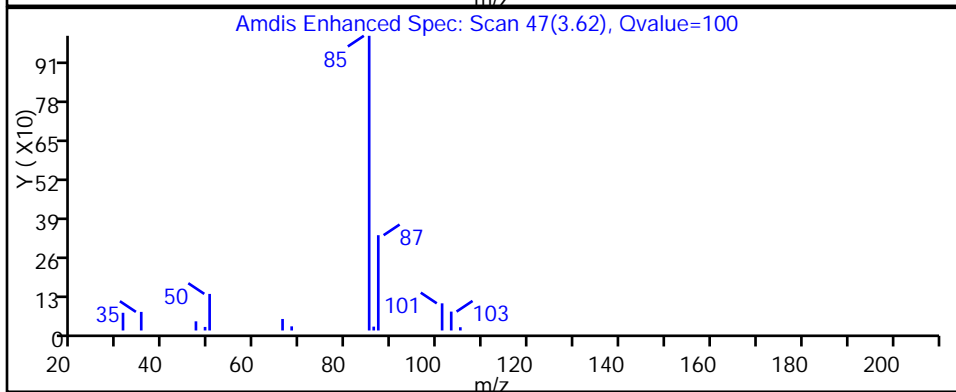
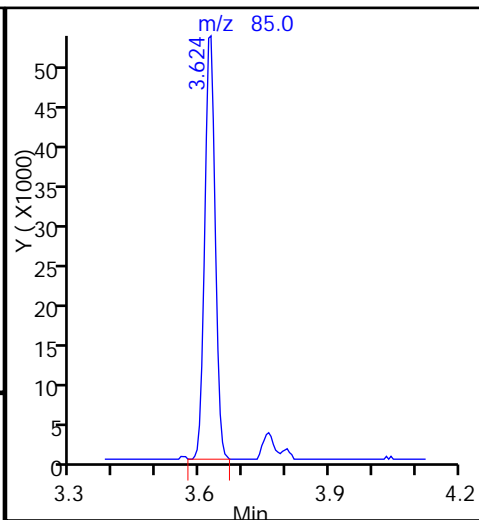
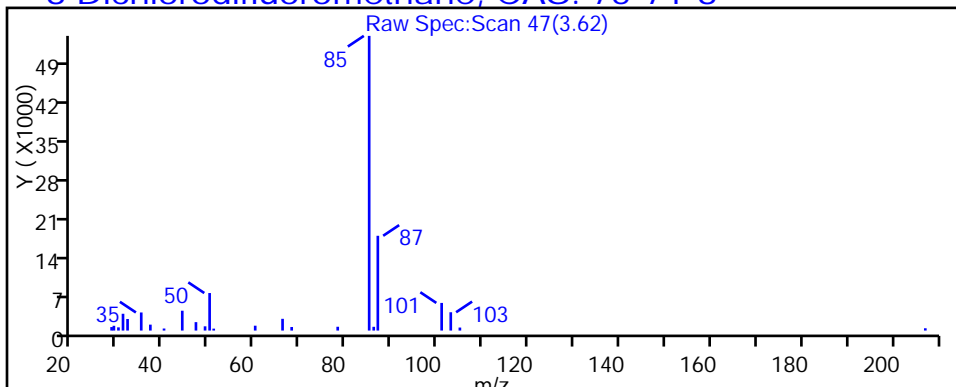
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

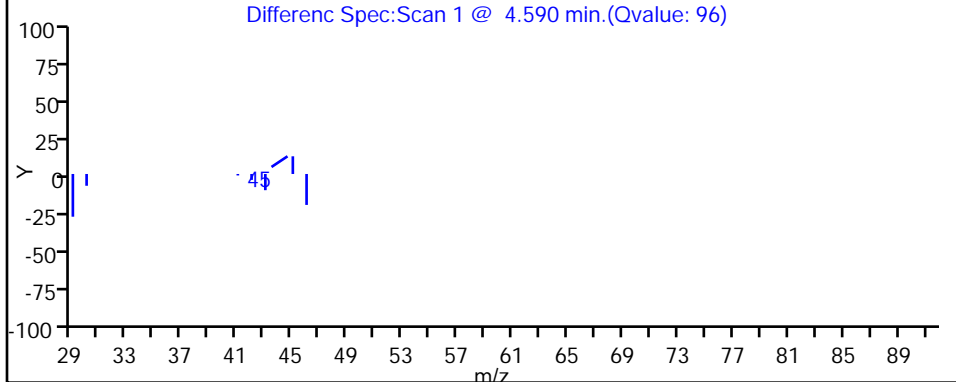
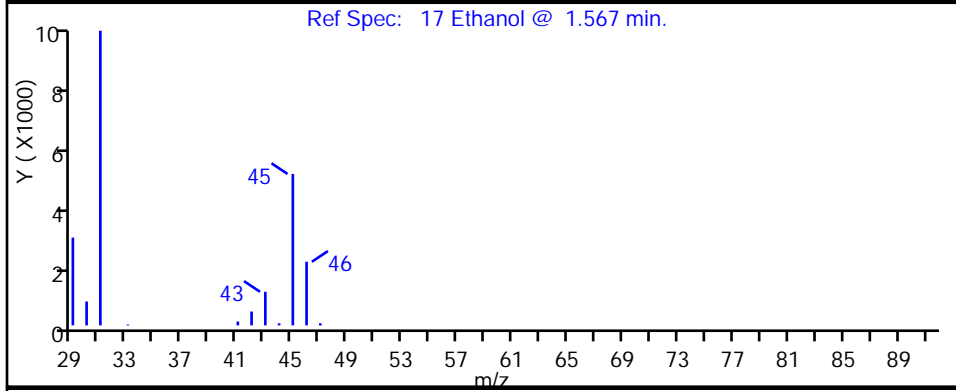
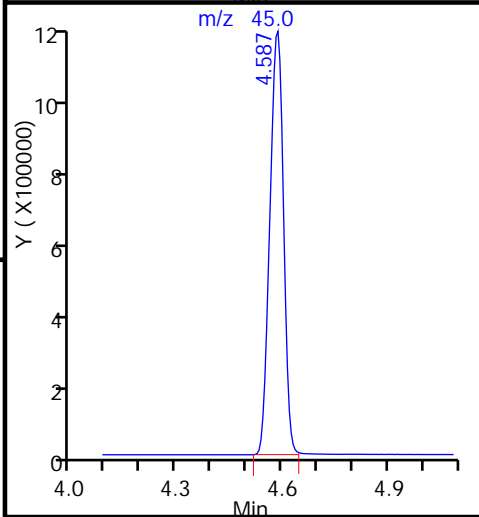
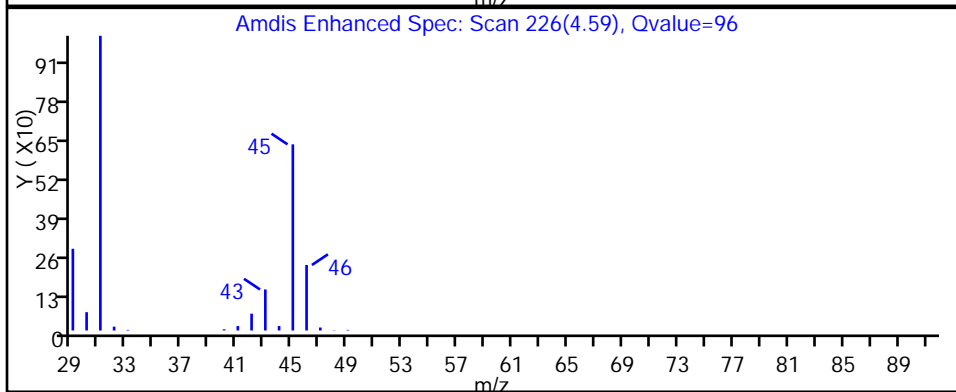
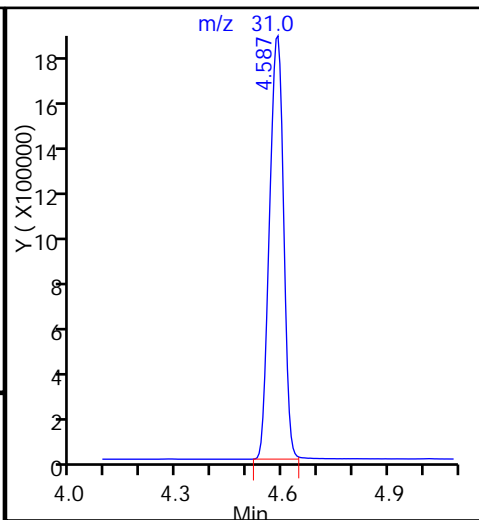
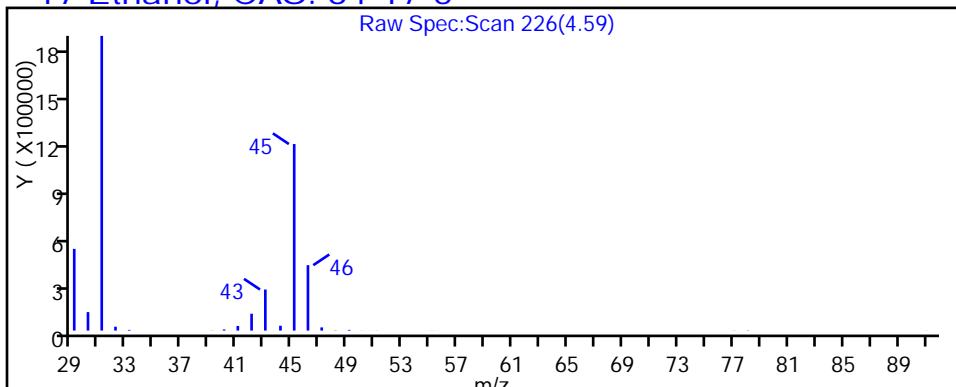
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

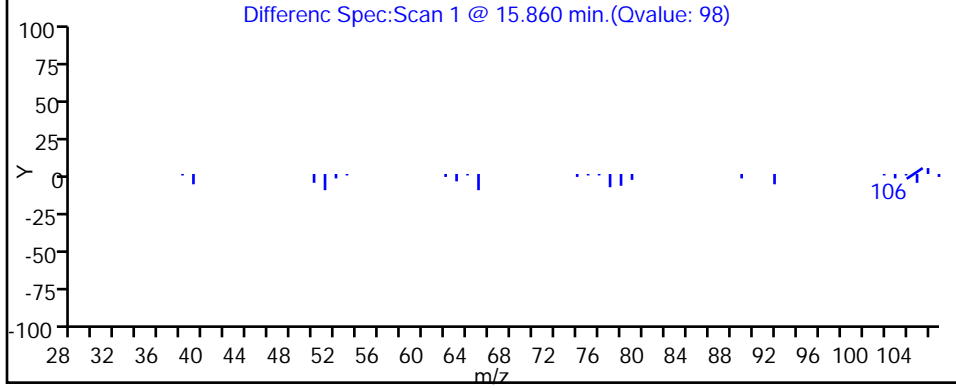
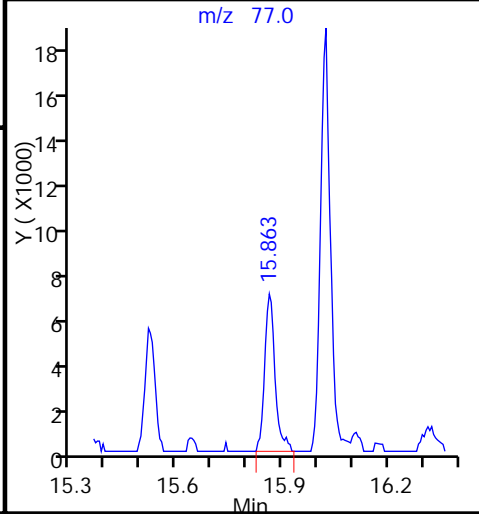
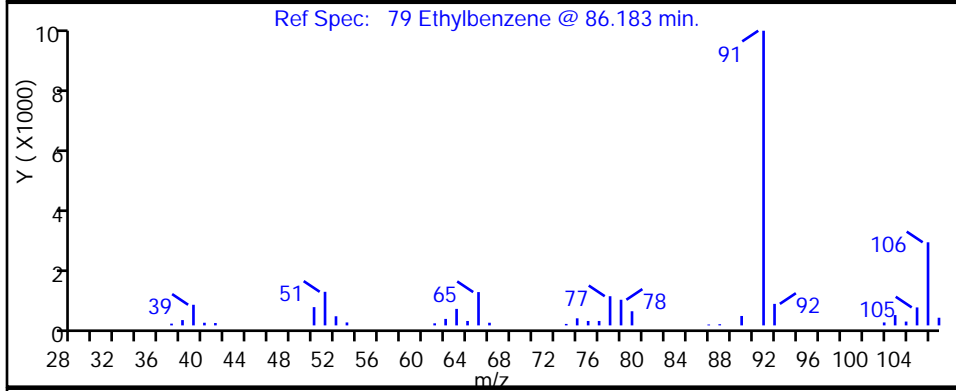
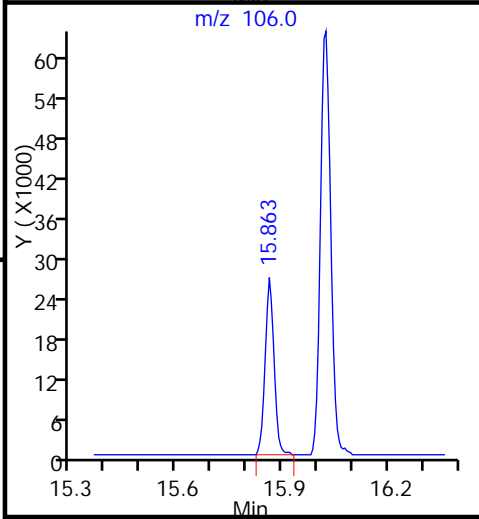
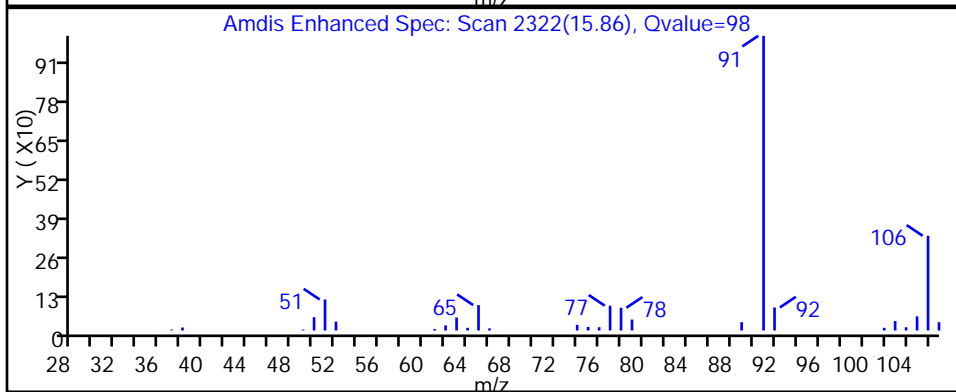
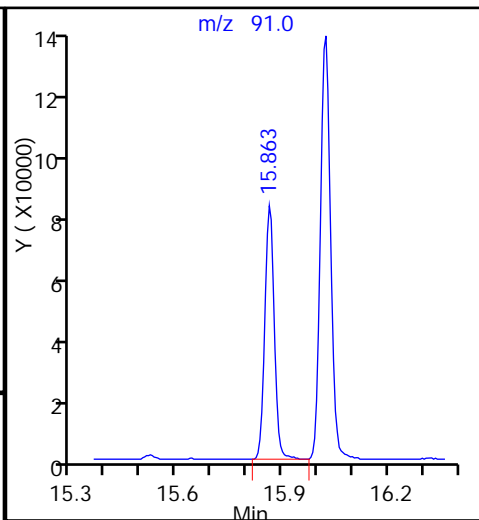
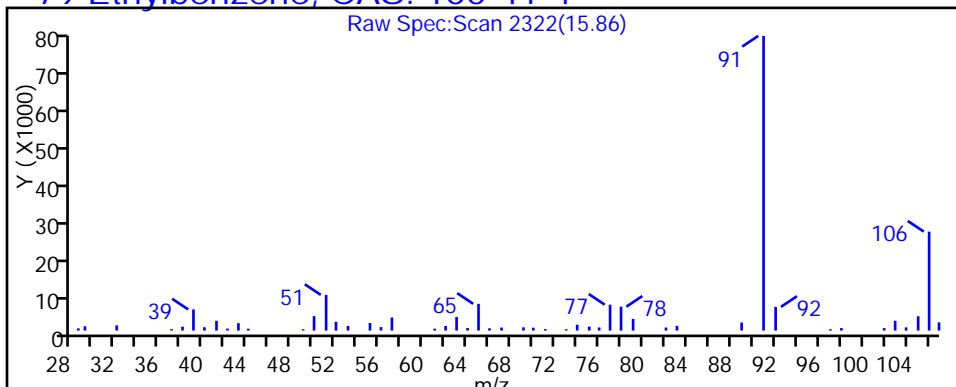
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

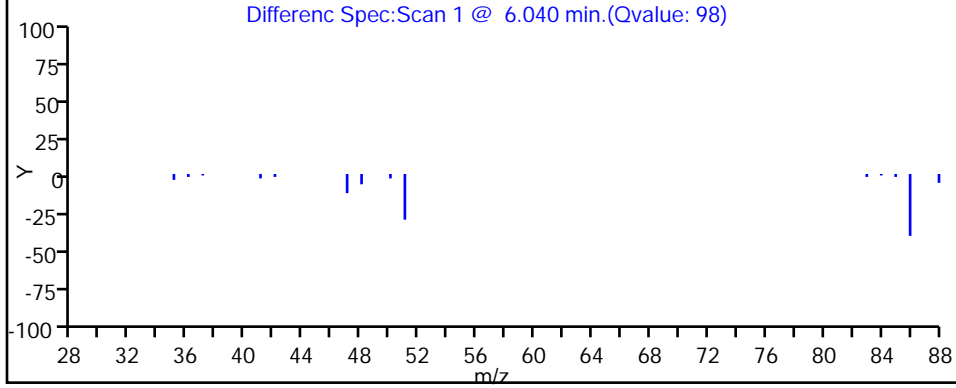
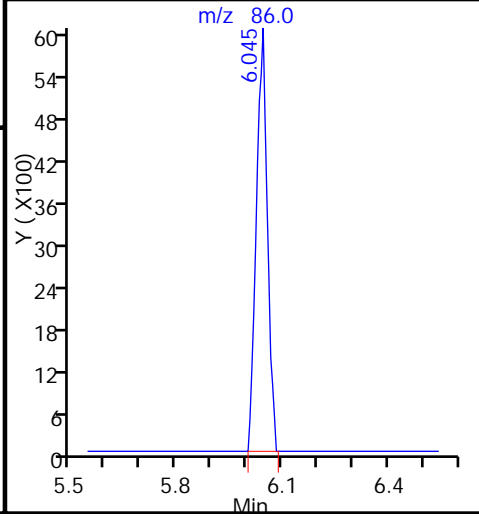
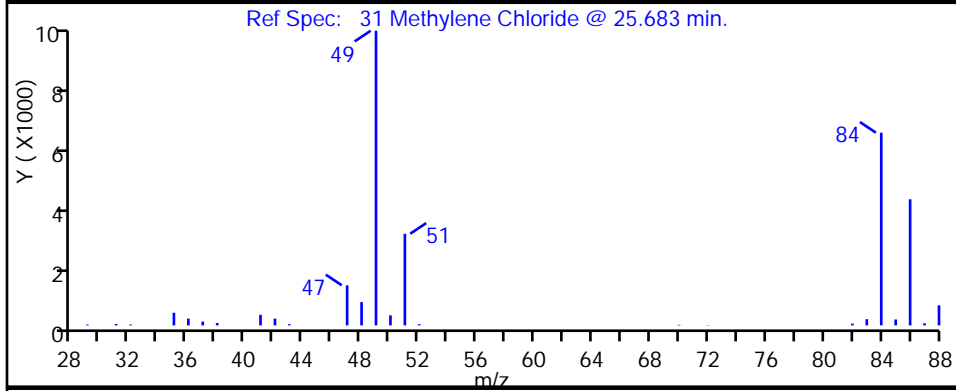
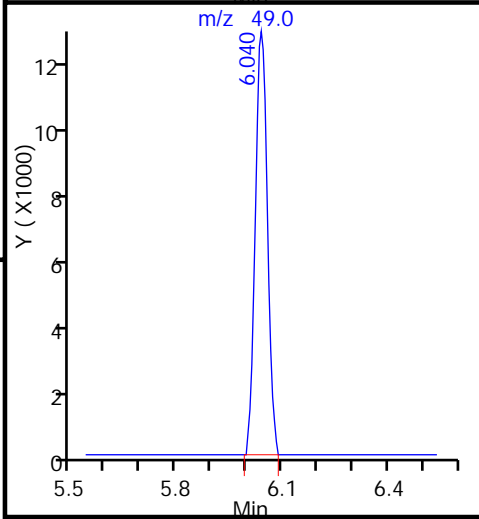
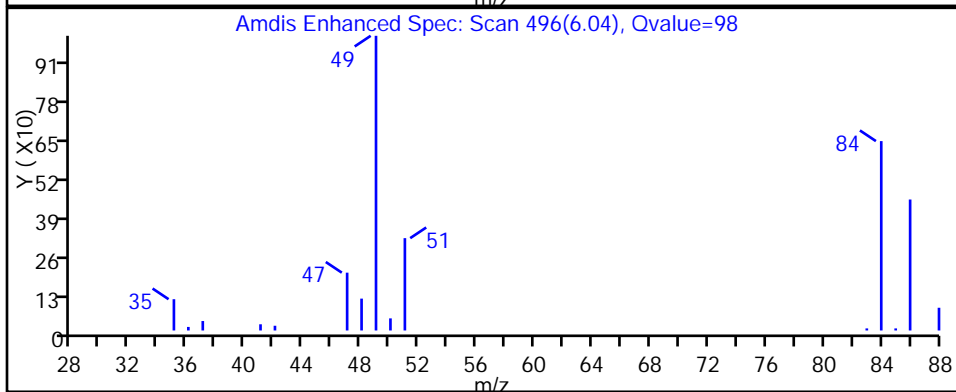
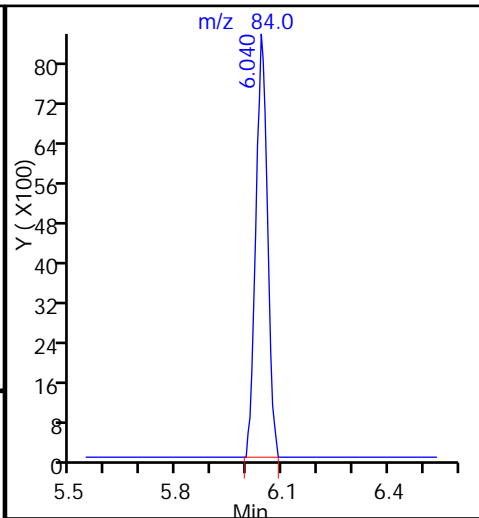
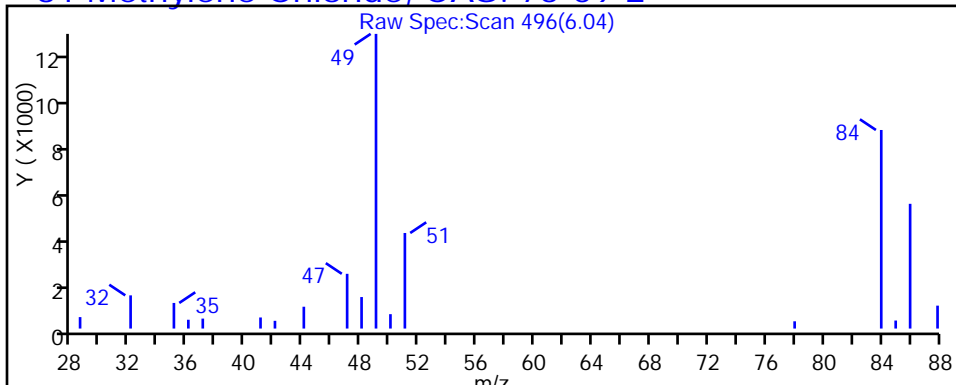
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

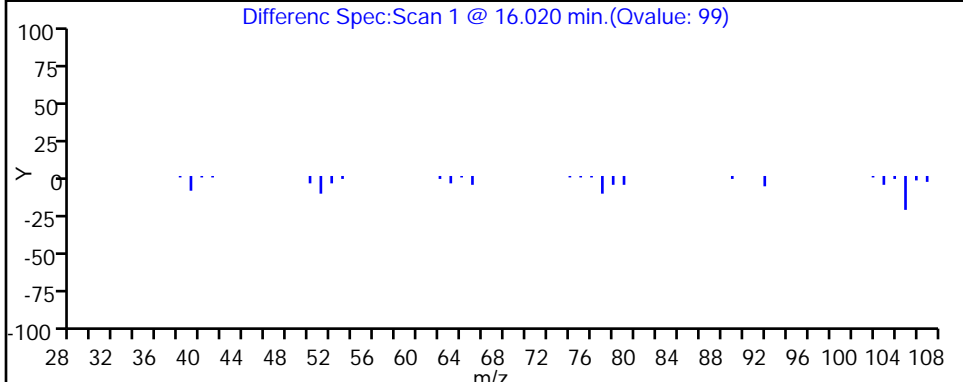
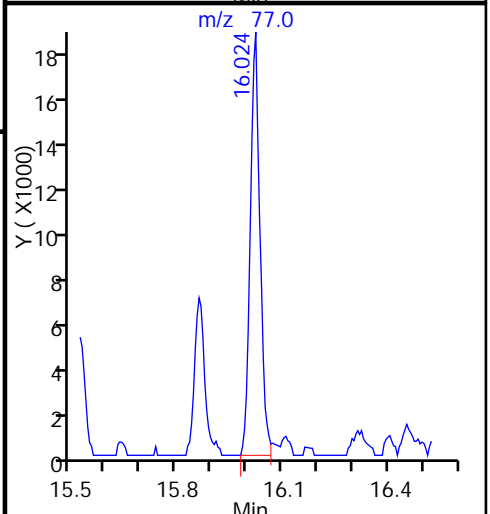
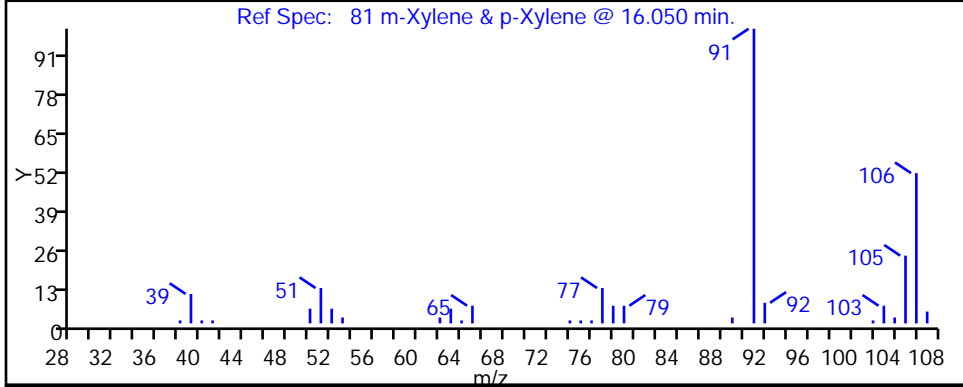
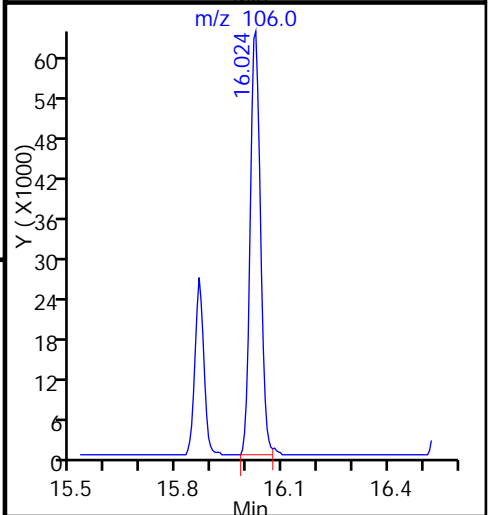
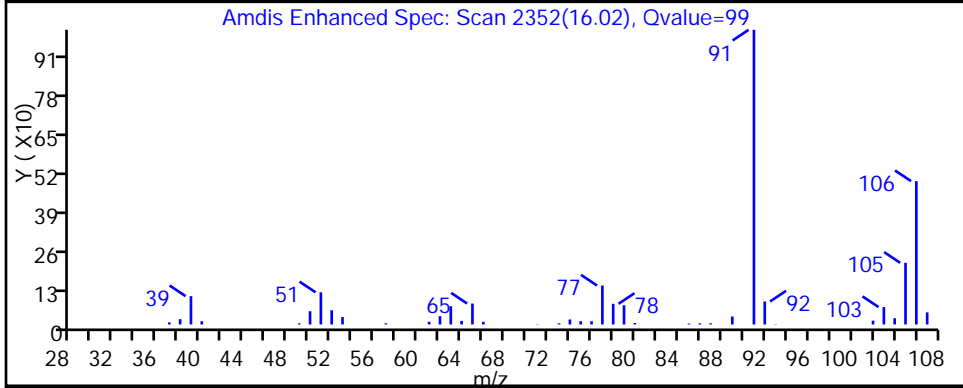
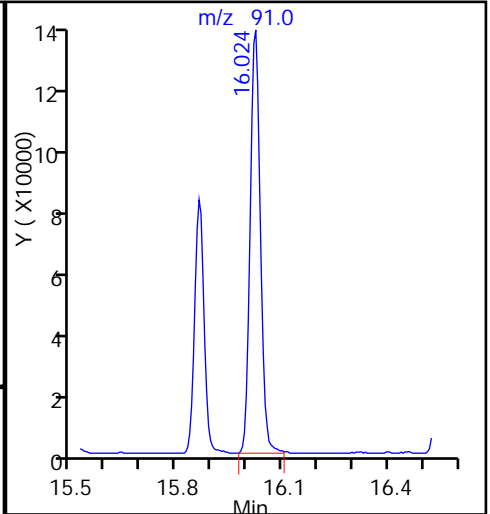
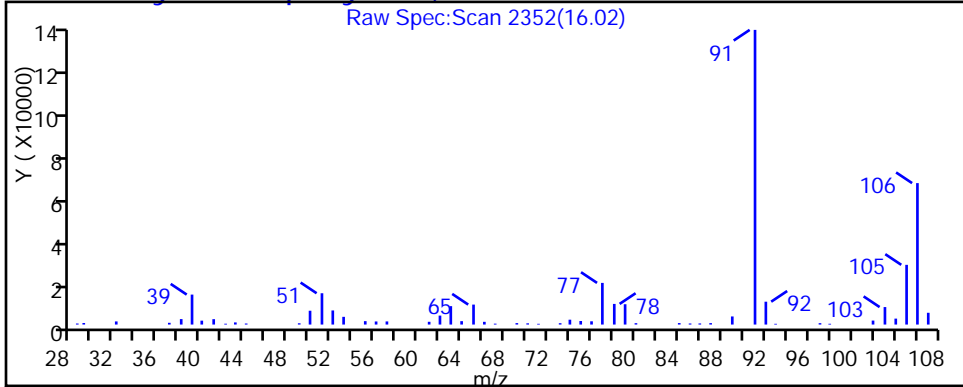
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

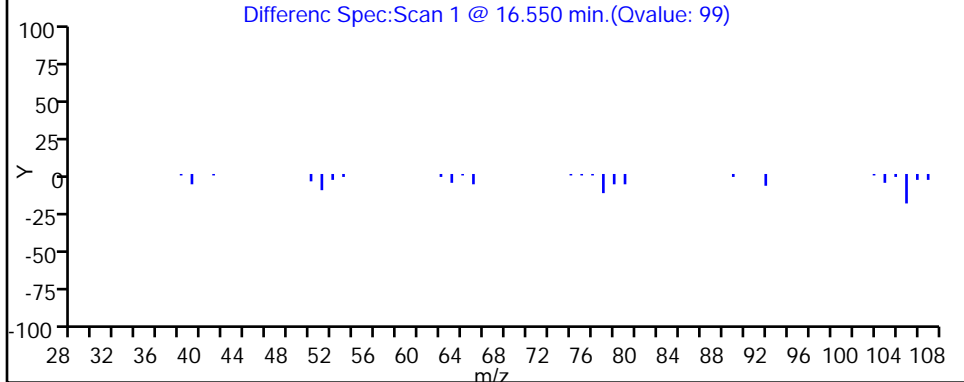
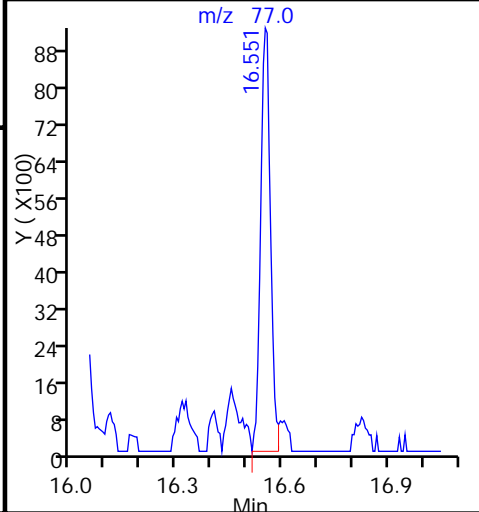
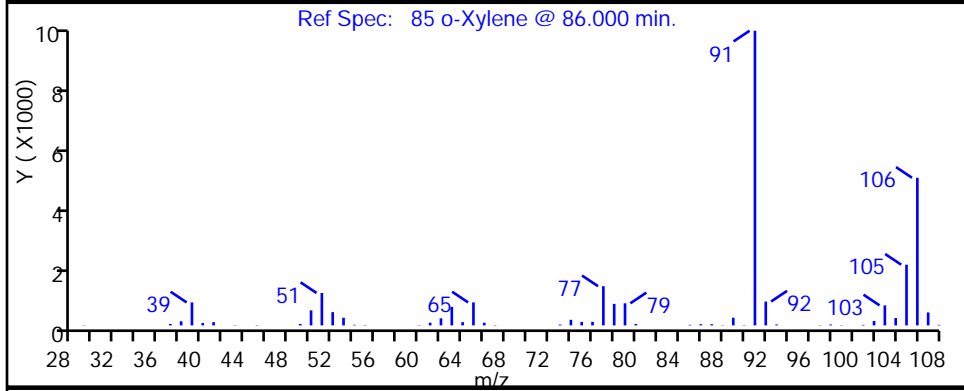
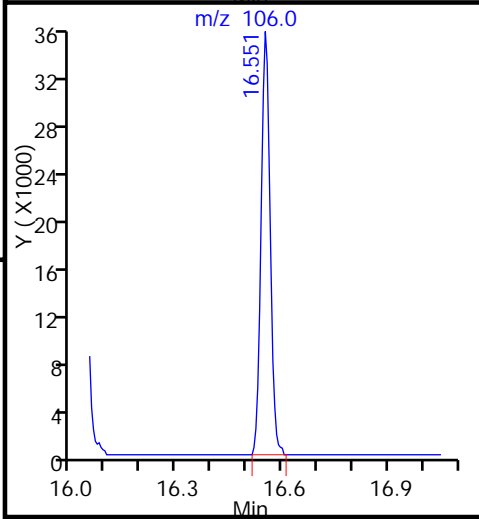
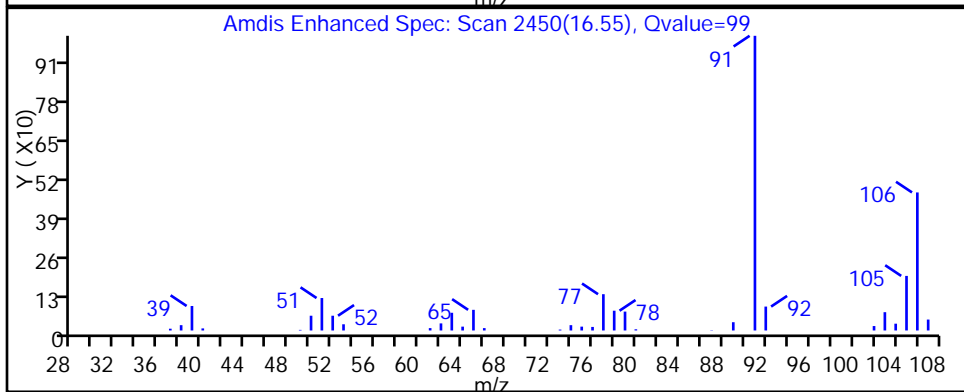
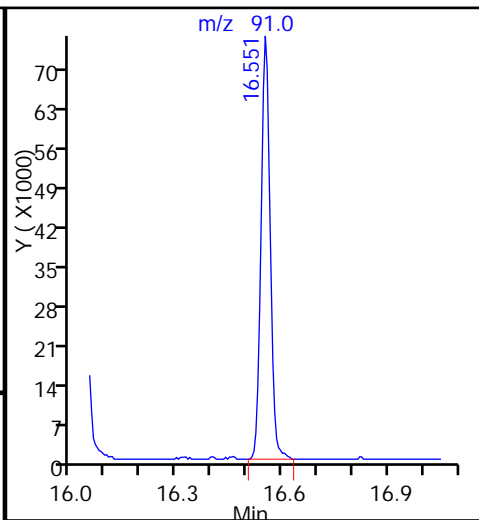
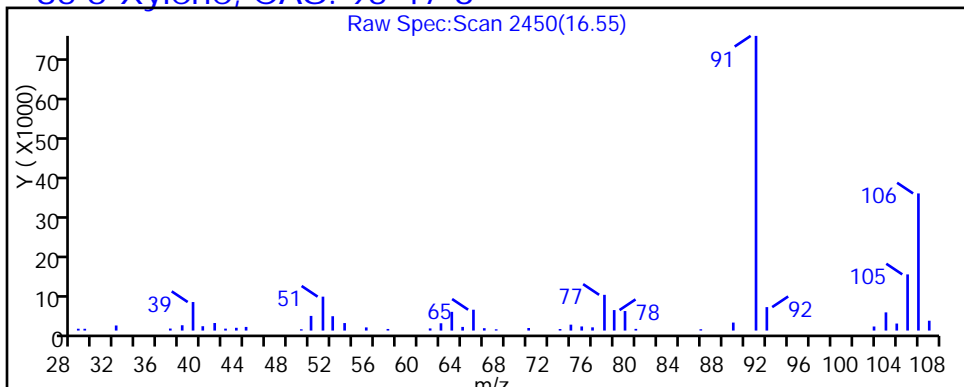
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

85 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

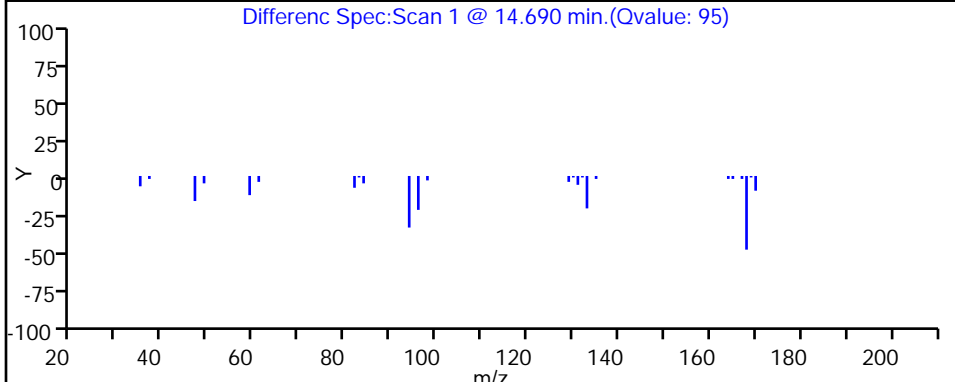
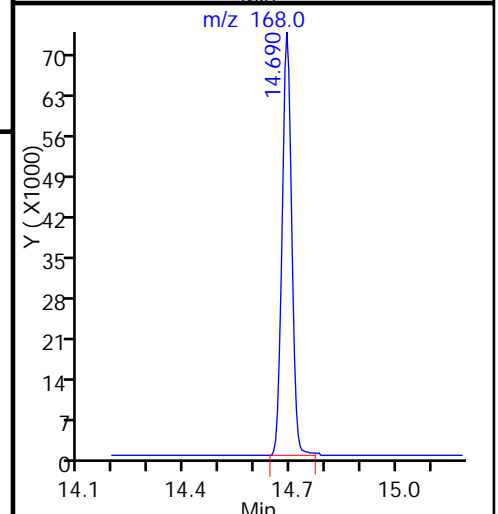
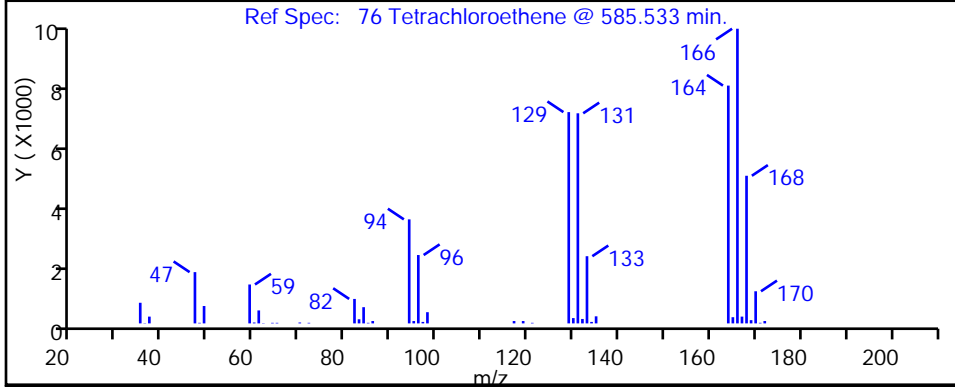
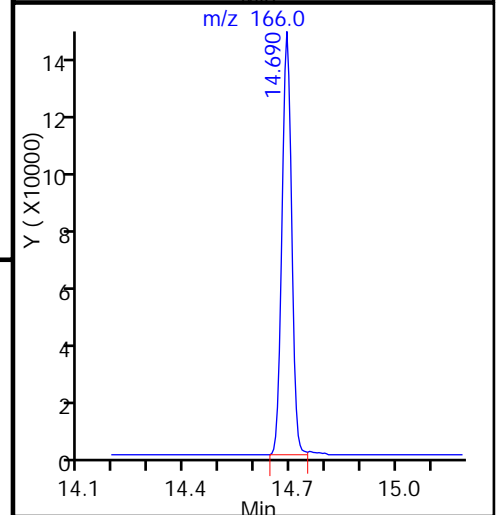
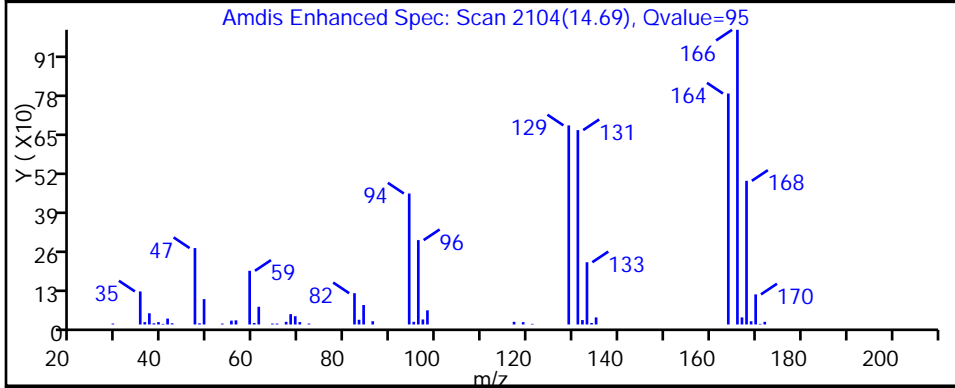
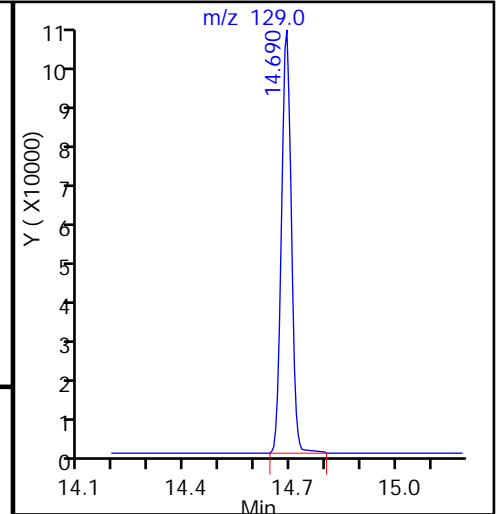
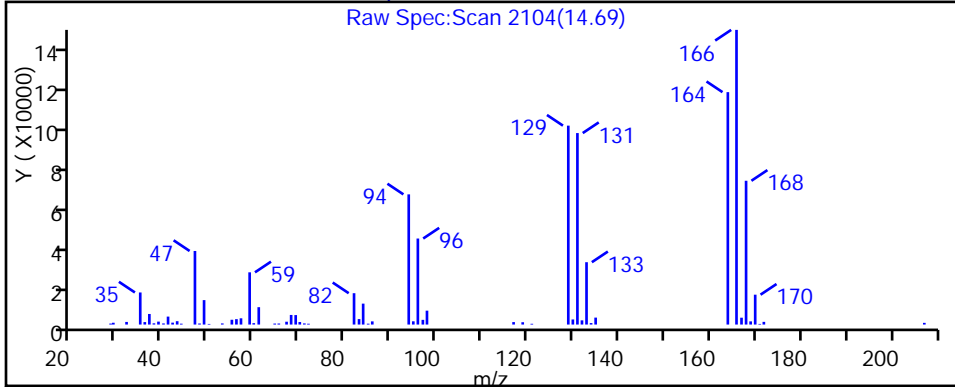
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

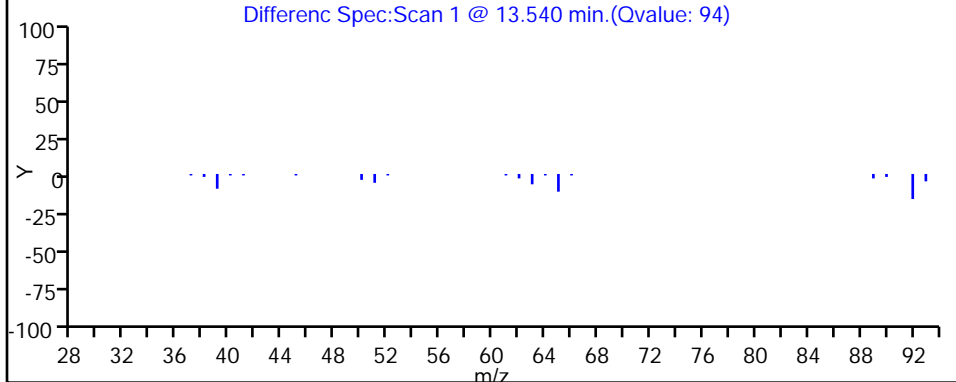
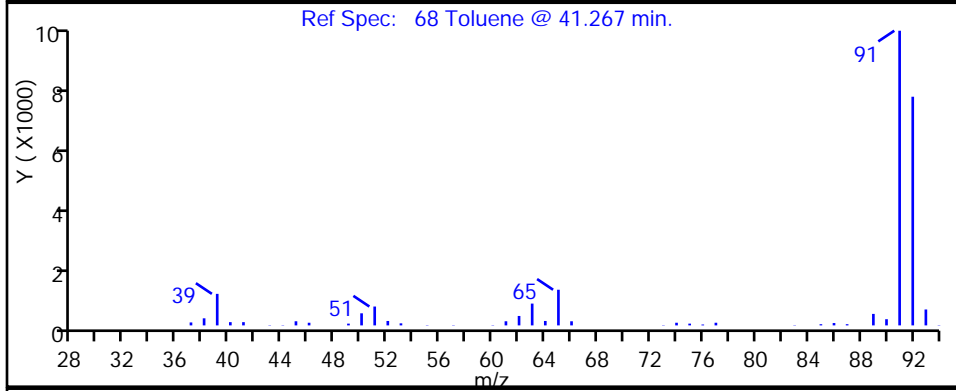
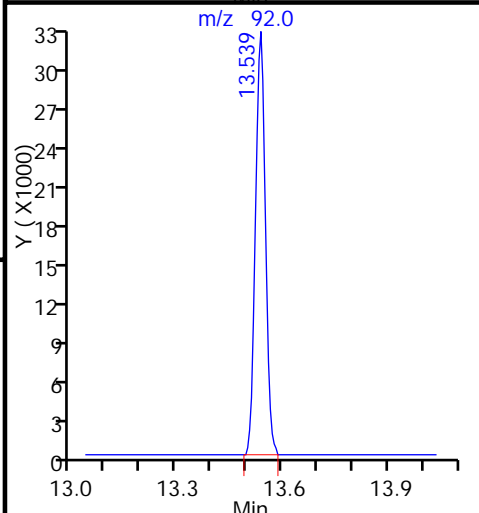
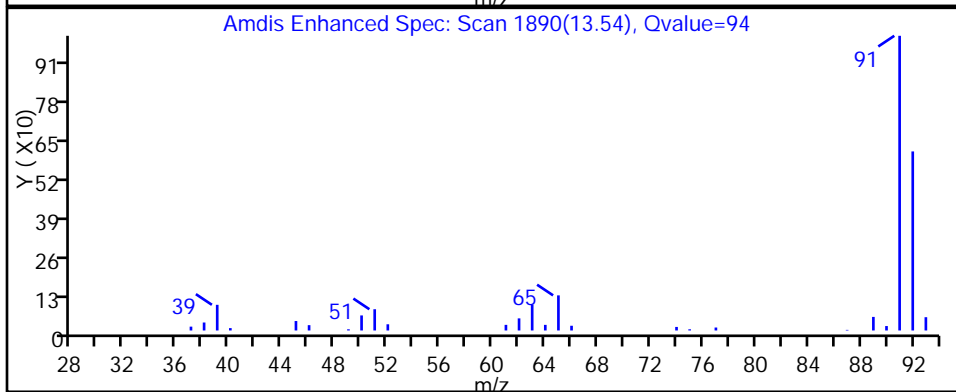
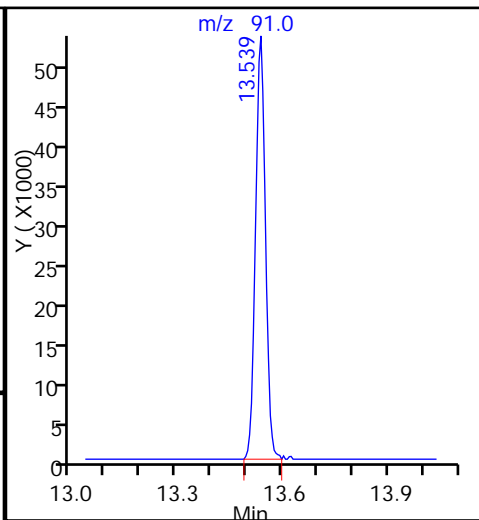
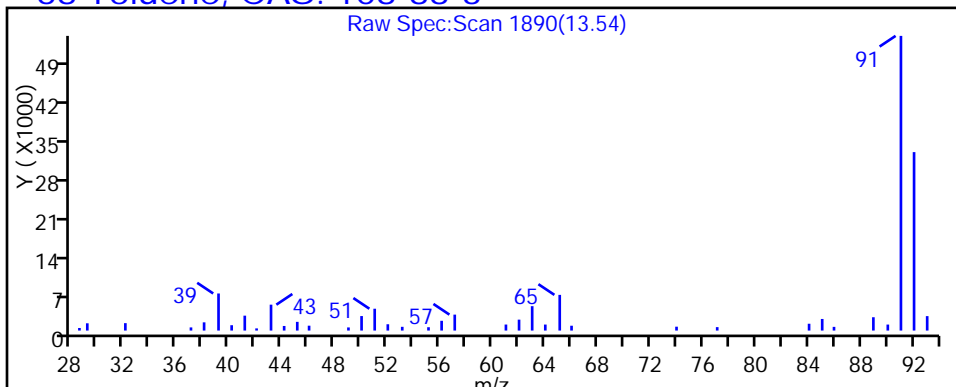
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D

Injection Date: 27-Mar-2017 01:13:30

Instrument ID: MJ

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 403648

ALS Bottle#: 4

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

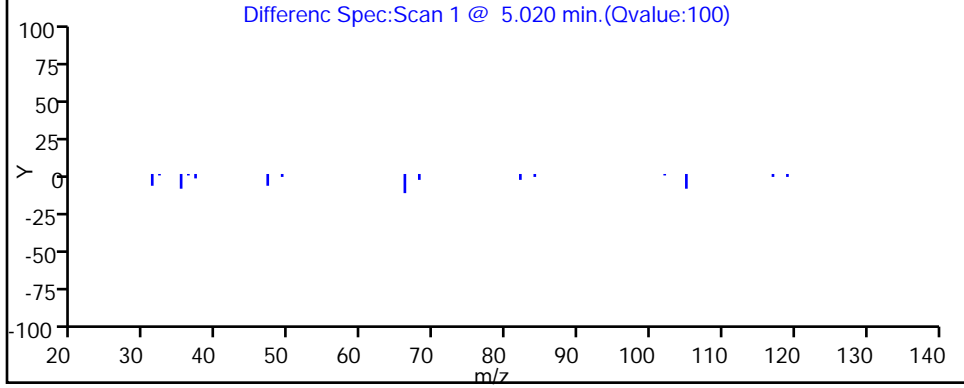
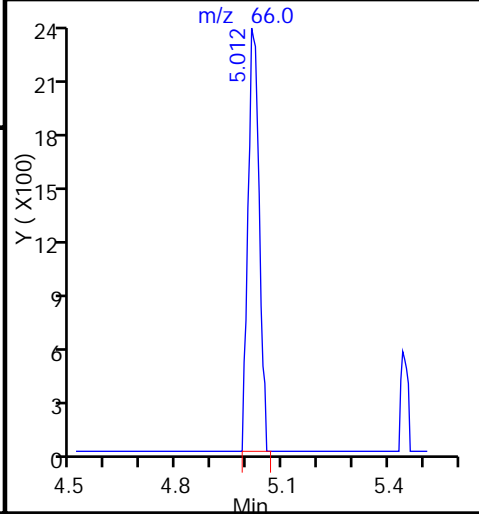
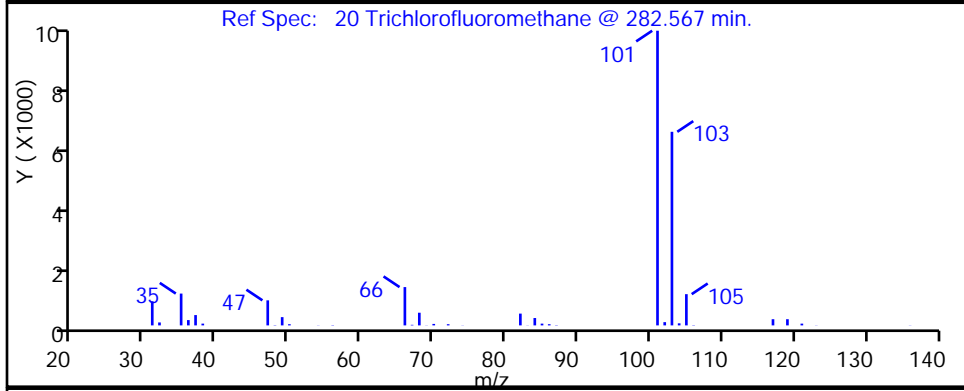
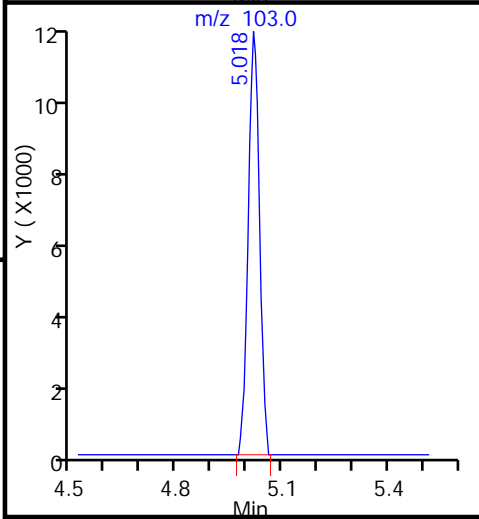
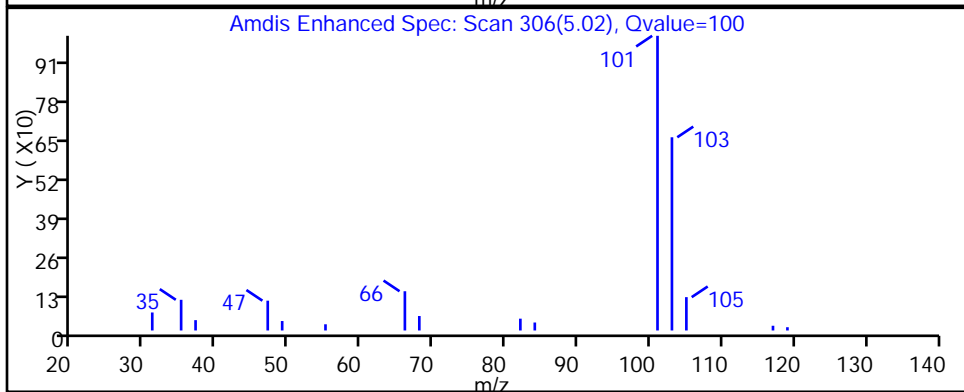
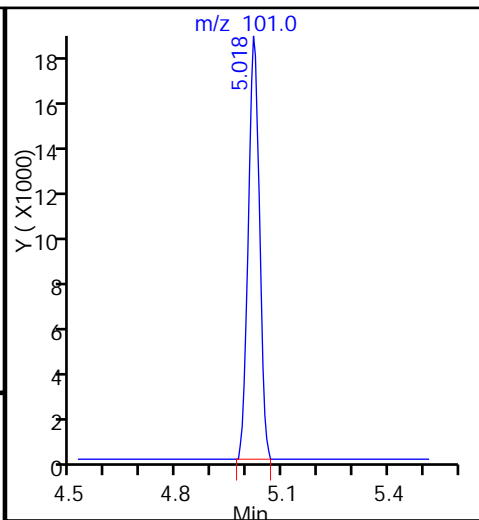
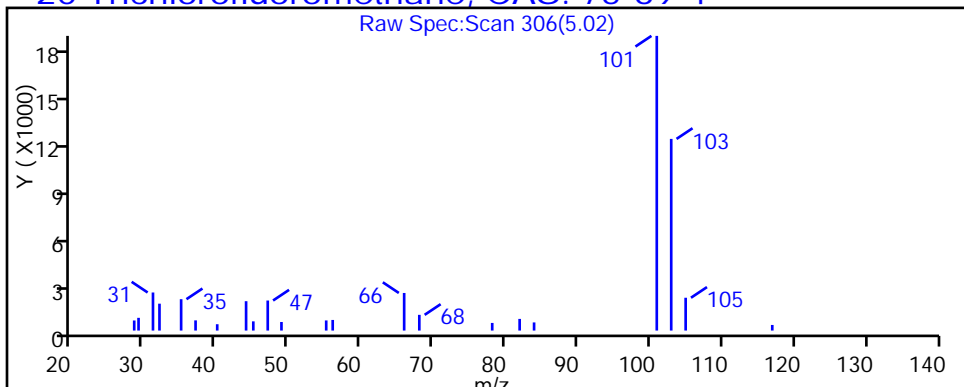
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Knoxville

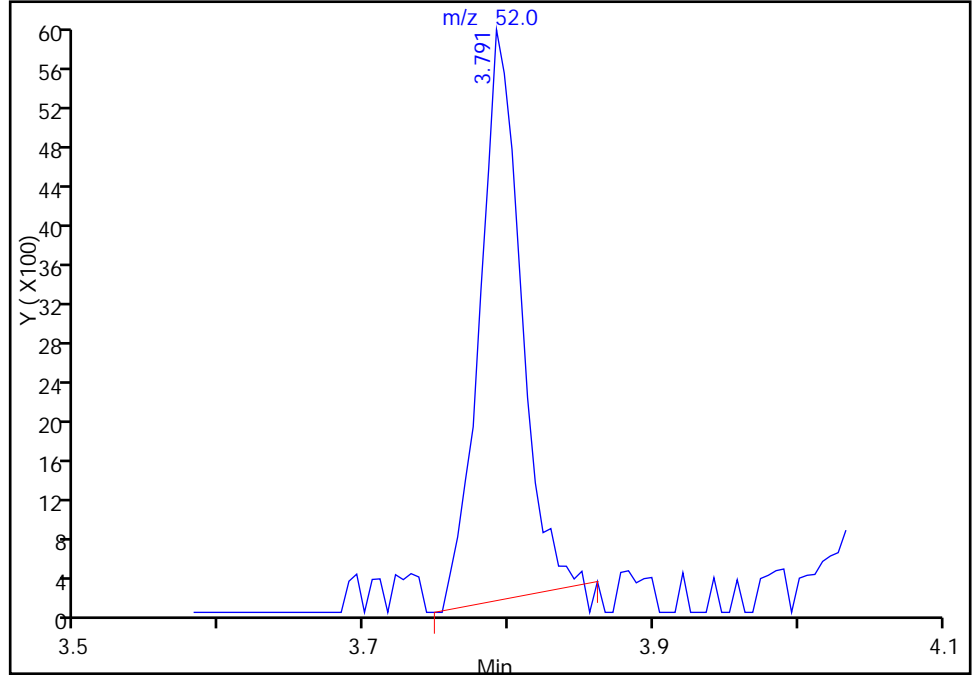
Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P104.D
Injection Date: 27-Mar-2017 01:13:30 Instrument ID: MJ
Lims ID: 140-7503-A-4 Lab Sample ID: 140-7503-4
Client ID: AMBIENT #2
Operator ID: 403648 ALS Bottle#: 4 Worklist Smp#: 19
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

Signal: 1

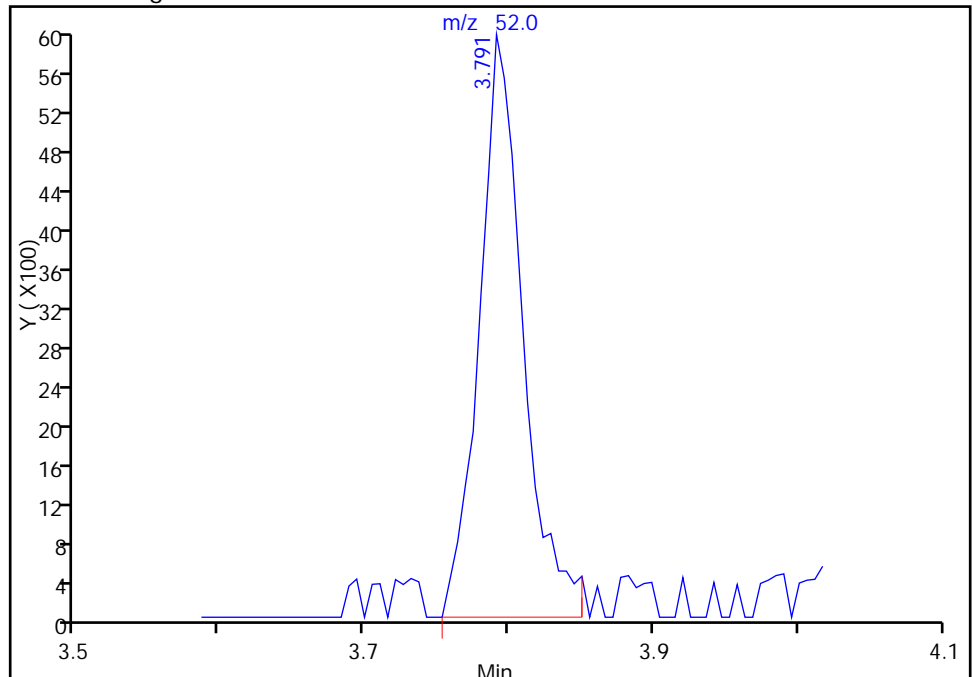
RT: 3.79
Area: 11417
Amount: 0.544620
Amount Units: ppb v/v

Processing Integration Results



RT: 3.79
Area: 12420
Amount: 0.592466
Amount Units: ppb v/v

Manual Integration Results



Reviewer: tajh, 27-Mar-2017 15:43:12
Audit Action: Manually Integrated

Audit Reason: Baseline

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 DL Lab Sample ID: 140-7503-4 DL
 Matrix: Air Lab File ID: GC28P112.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 50 (mL) Date Analyzed: 03/29/2017 03:05
 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.: 9922 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
64-17-5	Ethanol	46.07	440	D	20

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.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 DL Lab Sample ID: 140-7503-4 DL
 Matrix: Air Lab File ID: GC28P112.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 50 (mL) Date Analyzed: 03/29/2017 03:05
 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.: 9922 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
64-17-5	Ethanol	46.07	830	D	38

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

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P112.D
 Lims ID: 140-7503-A-4
 Client ID: AMBIENT #2
 Sample Type: Client
 Inject. Date: 29-Mar-2017 03:05:30 ALS Bottle#: 12 Worklist Smp#: 25
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-025
 Misc. Info.: 140-7503-a-4
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:50:30 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh Date: 29-Mar-2017 10:04:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.985	7.996	-0.011	75	231839	4.00	
* 2 1,4-Difluorobenzene	114	10.153	10.158	-0.005	95	1032367	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.022	15.028	-0.006	89	1036889	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.694	16.699	-0.005	92	829765	4.05	
8 Dichlorodifluoromethane	85	3.526	3.520	0.006	99	12503	0.0510	
9 Chloromethane	52	3.677	3.671	0.006	96	1479	0.0896	
17 Ethanol	31	4.378	4.367	0.011	98	1033073	44.3	
20 Trichlorofluoromethane	101	4.755	4.750	0.005	99	6721	0.0275	
31 Methylene Chloride	84	5.661	5.661	0.000	89	5801	0.1041	
44 Chloroform	83	8.012	8.018	-0.006	92	13005	0.0800	
49 Benzene	78	9.571	9.576	-0.005	96	6981	0.0398	
68 Toluene	91	13.011	13.016	-0.005	91	12258	0.0593	
76 Tetrachloroethene	129	14.186	14.186	0.000	93	41102	0.4350	
79 Ethylbenzene	91	15.378	15.384	-0.006	98	20455	0.0709	
81 m-Xylene & p-Xylene	91	15.545	15.556	-0.011	99	38084	0.1634	
85 o-Xylene	91	16.074	16.079	-0.005	97	19831	0.0832	
92 1,3,5-Trimethylbenzene	120	17.363	17.487	-0.125	84	8669	0.0567	
96 1,2,4-Trimethylbenzene	105	17.939	17.950	-0.011	98	18072	0.0617	
99 Benzyl chloride	91	18.473	18.295	0.178	54	13712	0.0496	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P112.D

Injection Date: 29-Mar-2017 03:05:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Worklist Smp#: 25

Client ID: AMBIENT #2

Purge Vol: 500.000 mL

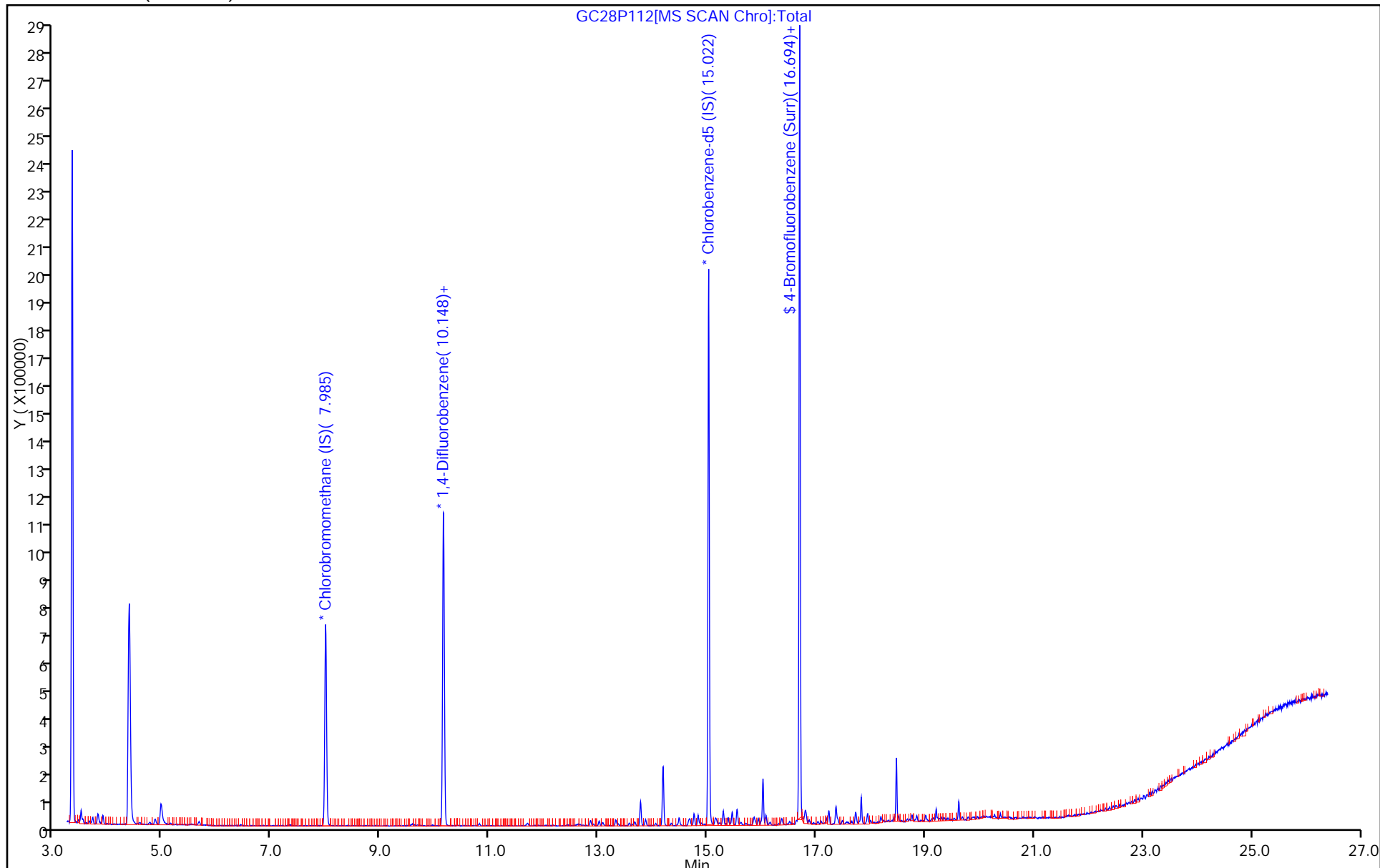
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P112.D
 Lims ID: 140-7503-A-4
 Client ID: AMBIENT #2
 Sample Type: Client
 Inject. Date: 29-Mar-2017 03:05:30 ALS Bottle#: 12 Worklist Smp#: 25
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-025
 Misc. Info.: 140-7503-a-4
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:50:30 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh Date: 29-Mar-2017 10:04:25

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.05	101.23

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P112.D

Injection Date: 29-Mar-2017 03:05:30

Instrument ID: MG

Lims ID: 140-7503-A-4

Lab Sample ID: 140-7503-4

Client ID: AMBIENT #2

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 25

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

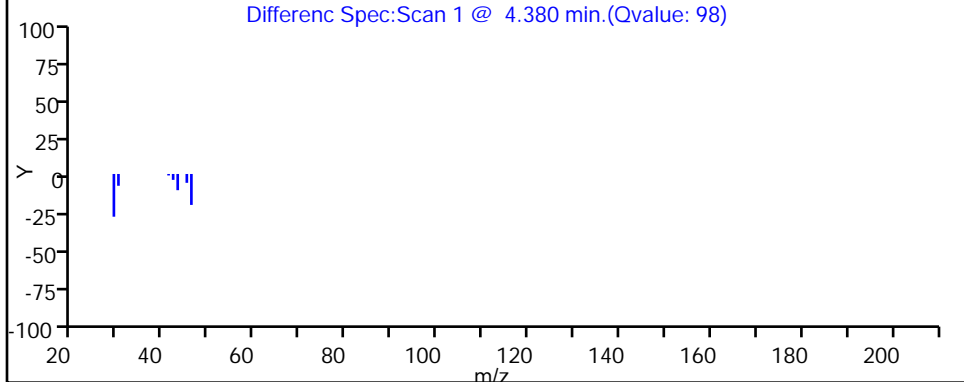
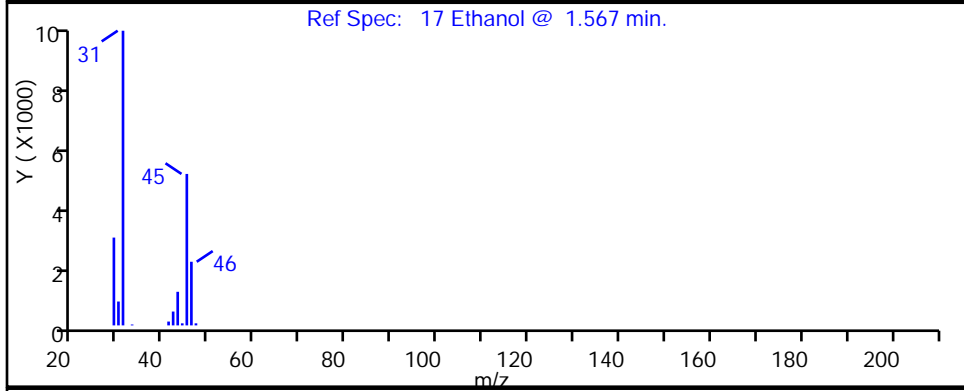
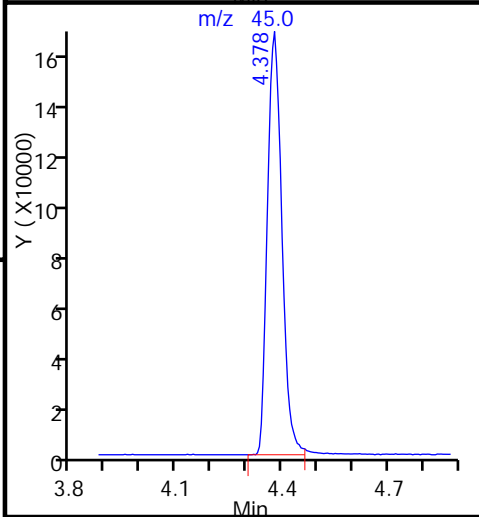
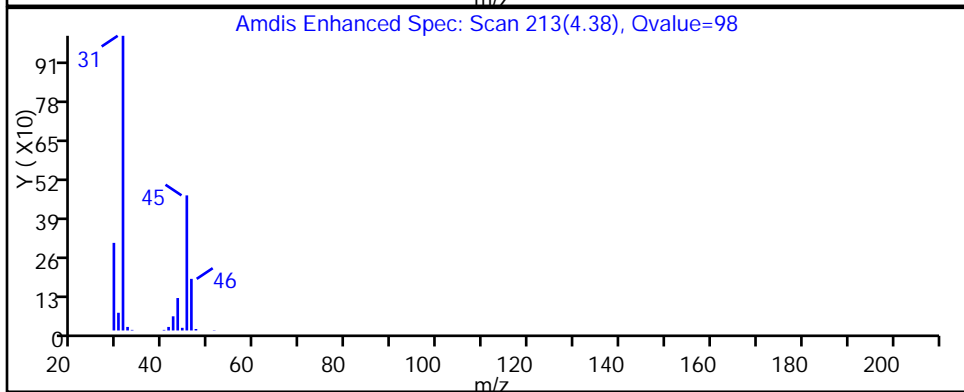
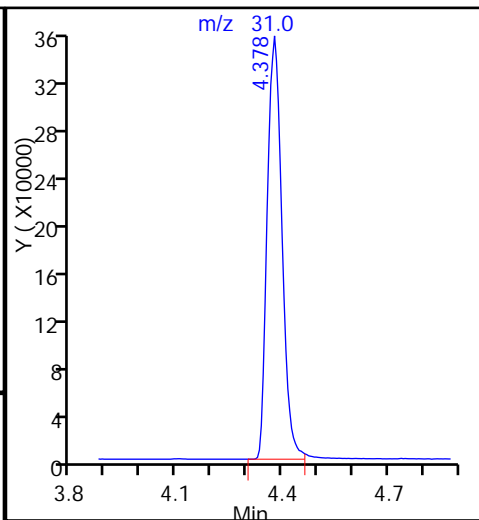
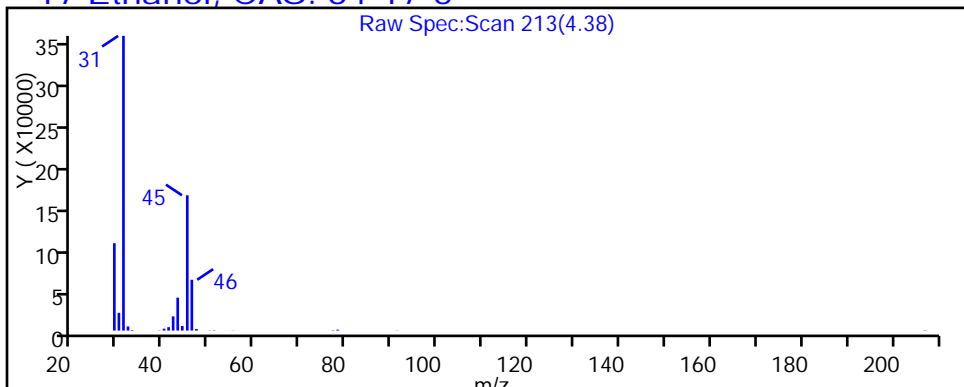
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 Lab Sample ID: 140-7503-5
 Matrix: Air Lab File ID: JC26P105.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 02:01
 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.: 9850 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
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	1.5		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	0.38		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.73		0.20
78-93-3	2-Butanone	72.11	0.53		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.93		0.20
71-43-2	Benzene	78.11	0.62		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	0.066		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	ND		0.080
67-66-3	Chloroform	119.38	0.12		0.080
74-87-3	Chloromethane	50.49	0.60		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	0.53		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 Lab Sample ID: 140-7503-5
 Matrix: Air Lab File ID: JC26P105.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 02:01
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.080	
75-71-8	Dichlorodifluoromethane	120.91	0.97		0.080	
64-17-5	<i>Ethanol</i>	46.07	480	<i>E</i>	2.0	
100-41-4	Ethylbenzene	106.17	0.49		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	1.3		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	0.29		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	1.9		0.080	
95-47-6	o-Xylene	106.17	0.76		0.080	
100-42-5	Styrene	104.15	ND		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
108-88-3	Toluene	92.14	2.1		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-69-4	Trichlorofluoromethane	137.37	0.22		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

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.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 Lab Sample ID: 140-7503-5
 Matrix: Air Lab File ID: JC26P105.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 02:01
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	7.3		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	1.9		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	3.4		0.93
78-93-3	2-Butanone	72.11	1.6		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	3.8		0.82
71-43-2	Benzene	78.11	2.0		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.41		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	0.60		0.39
74-87-3	Chloromethane	50.49	1.2		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	1.8		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 Lab Sample ID: 140-7503-5
 Matrix: Air Lab File ID: JC26P105.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 02:01
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	4.8		0.40
64-17-5	<i>Ethanol</i>	46.07	910	<i>E</i>	3.8
100-41-4	Ethylbenzene	106.17	2.1		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	4.4		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	1.0		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	8.3		0.35
95-47-6	o-Xylene	106.17	3.3		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	ND		0.54
108-88-3	Toluene	92.14	8.1		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	1.2		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

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

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D
 Lims ID: 140-7503-A-5
 Client ID: AMBIENT #3
 Sample Type: Client
 Inject. Date: 27-Mar-2017 02:01:30 ALS Bottle#: 5 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-020
 Misc. Info.: 140-7503-a-5
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa Date: 27-Mar-2017 11:15:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.546	8.547	-0.001	96	237059	4.00	
* 2 1,4-Difluorobenzene	114	10.741	10.748	-0.007	95	1109672	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.523	15.524	-0.001	88	990960	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.169	17.171	-0.002	94	677109	3.91	
8 Dichlorodifluoromethane	85	3.629	3.625	0.004	100	196122	0.9652	
9 Chloromethane	52	3.796	3.797	-0.001	99	13406	0.6016	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.806	3.803	0.003	34	1285	0.0143	
17 Ethanol	31	4.597	4.566	0.031	95	6774666	484.7	E
20 Trichlorofluoromethane	101	5.022	5.024	-0.002	99	40746	0.2184	
28 2-Methyl-2-propanol	59	5.851	5.804	0.047	88	3862	0.0439	
30 1,1,2-Trichloro-1,2,2-trif	101	5.883	5.879	0.004	97	9495	0.0629	
31 Methylene Chloride	84	6.050	6.046	0.004	99	21110	0.2882	
39 2-Butanone (MEK)	72	7.814	7.810	0.004	68	9209	0.5280	
40 Hexane	56	7.819	7.821	-0.002	91	77907	1.25	
44 Chloroform	83	8.556	8.563	-0.007	94	19116	0.1222	
50 Cyclohexane	69	10.192	10.188	0.004	68	17873	0.5334	
51 Benzene	78	10.181	10.188	-0.007	97	134331	0.6176	
52 Carbon tetrachloride	117	10.208	10.210	-0.002	50	11059	0.0659	
56 Isooctane	57	10.961	10.968	-0.007	99	275602	0.7338	
65 4-Methyl-2-pentanone (MIBK	43	12.672	12.668	0.004	98	86789	0.9315	
68 Toluene	91	13.538	13.539	-0.001	94	447643	2.14	
76 Tetrachloroethene	129	14.694	14.691	0.003	95	4923	0.0566	
79 Ethylbenzene	91	15.862	15.863	-0.001	98	116680	0.4932	
81 m-Xylene & p-Xylene	91	16.023	16.030	-0.007	99	327846	1.92	
84 Styrene	104	16.491	16.493	-0.002	95	4399	0.0344	
85 o-Xylene	91	16.550	16.552	-0.002	99	132769	0.7607	
92 1,3,5-Trimethylbenzene	120	17.922	17.918	0.004	93	34876	0.3827	
96 1,2,4-Trimethylbenzene	105	18.363	18.365	-0.002	98	234238	1.49	

[QC Flag Legend](#)

Processing Flags

E - Exceeded Maximum Amount

[Reagents:](#)

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Worklist Smp#: 20

Client ID: AMBIENT #3

Purge Vol: 500.000 mL

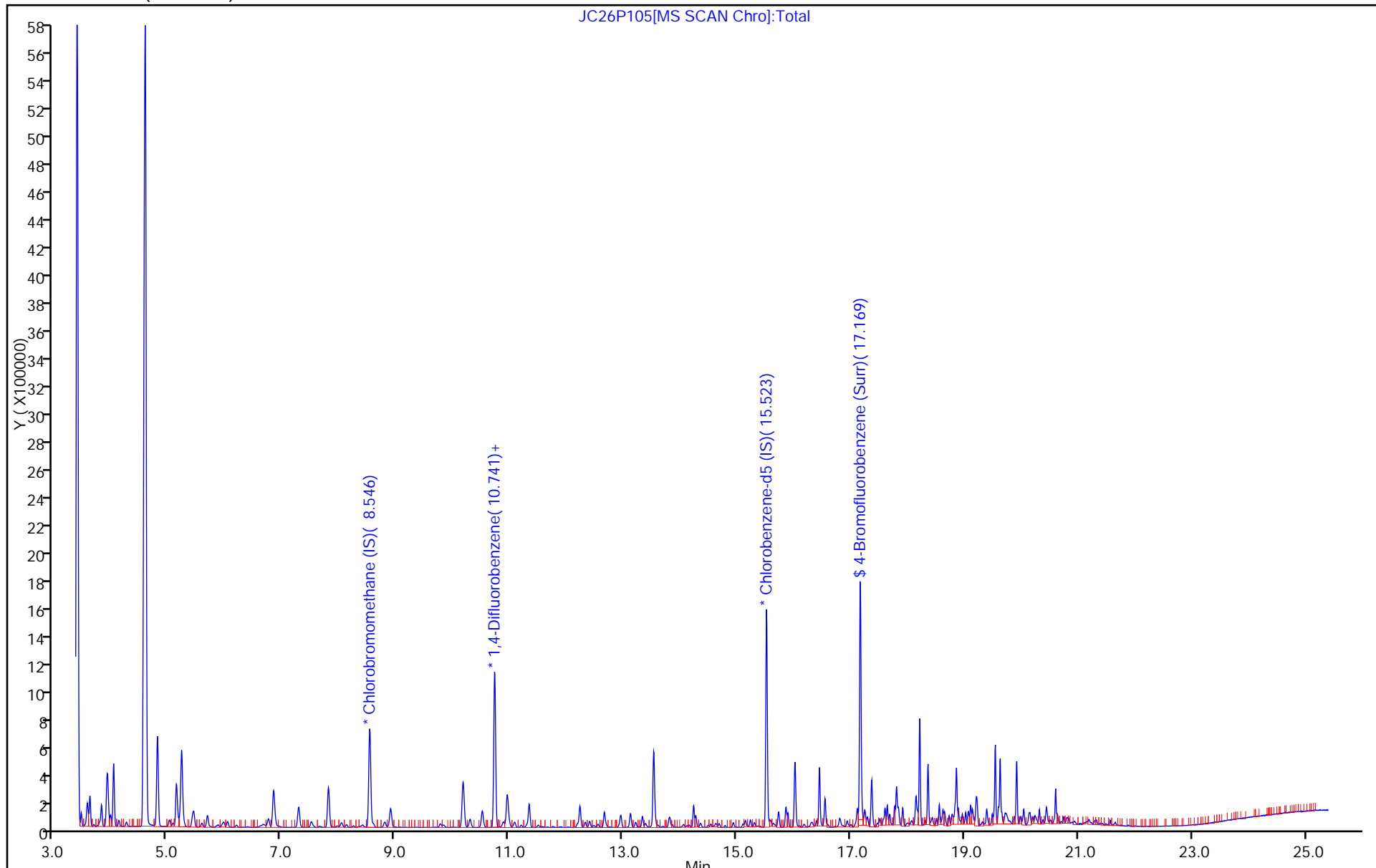
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D
 Lims ID: 140-7503-A-5
 Client ID: AMBIENT #3
 Sample Type: Client
 Inject. Date: 27-Mar-2017 02:01:30 ALS Bottle#: 5 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-020
 Misc. Info.: 140-7503-a-5
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa Date: 27-Mar-2017 11:15:08

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	3.91	97.86

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

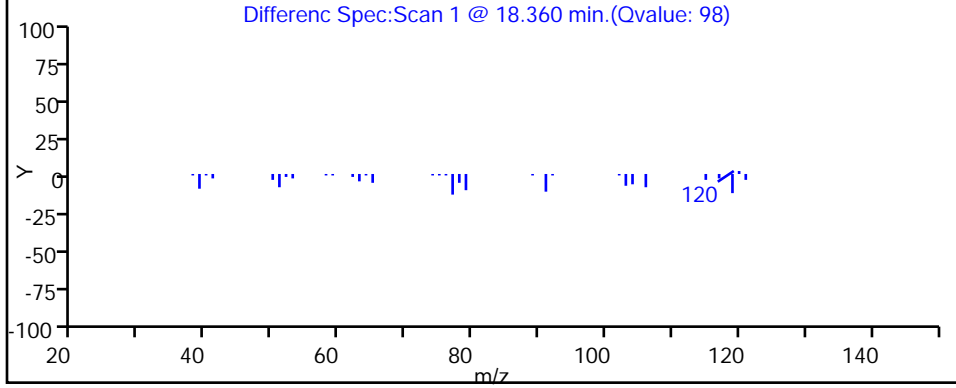
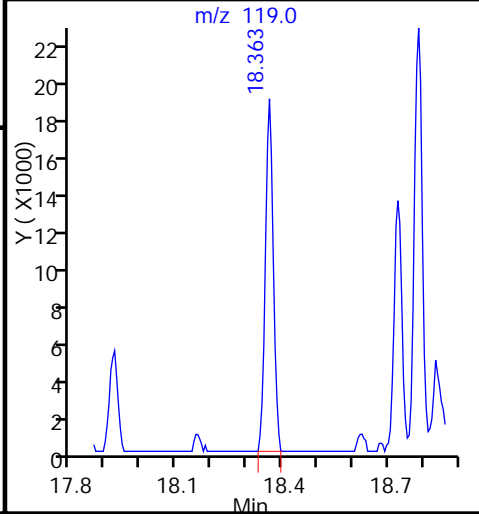
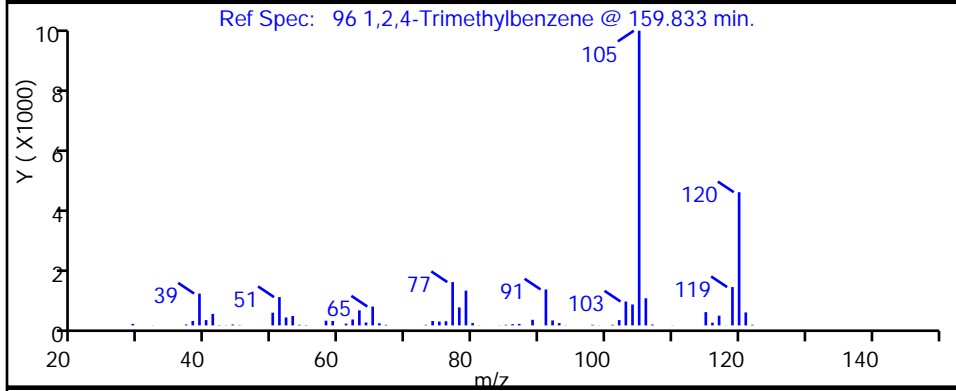
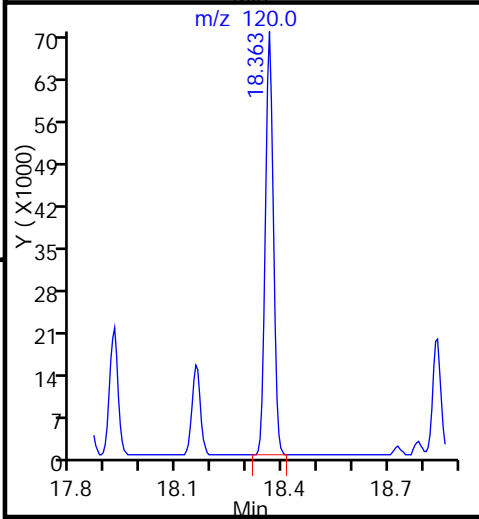
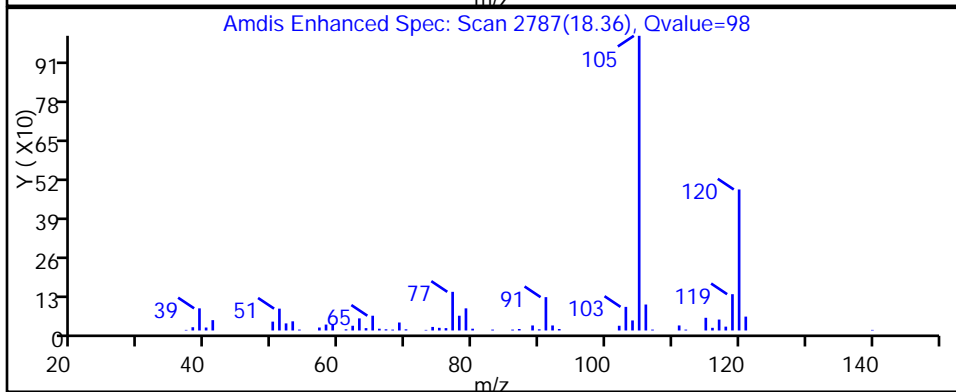
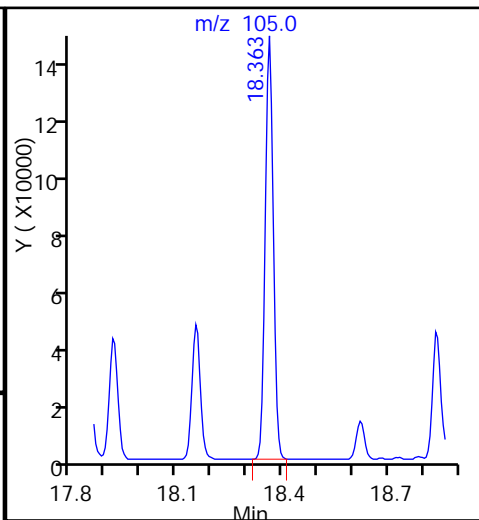
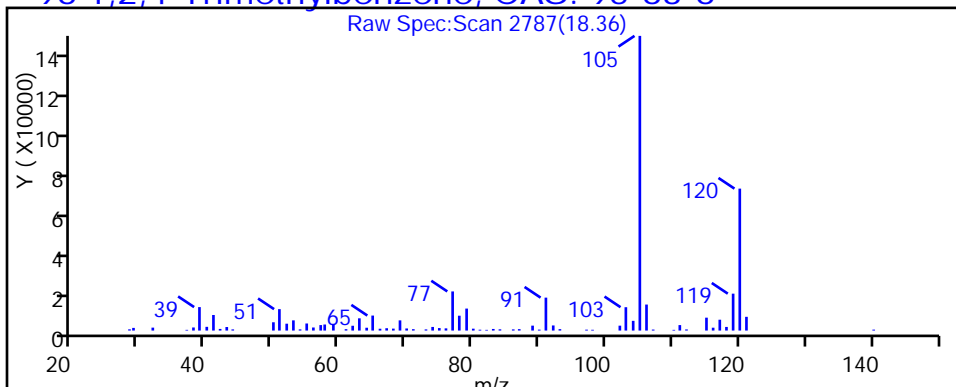
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

96 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

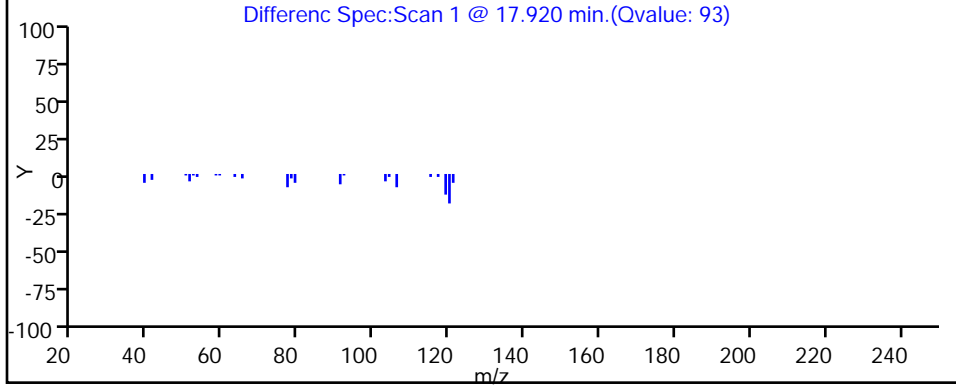
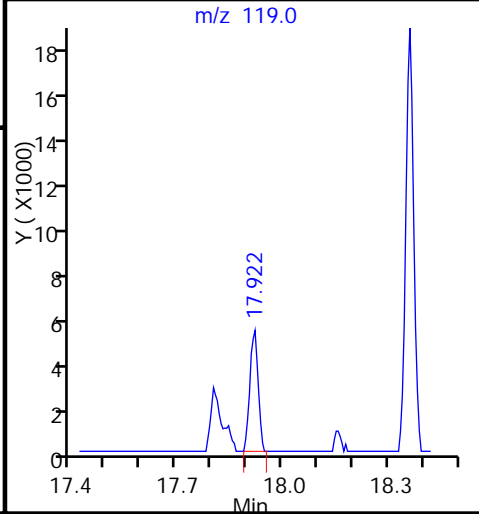
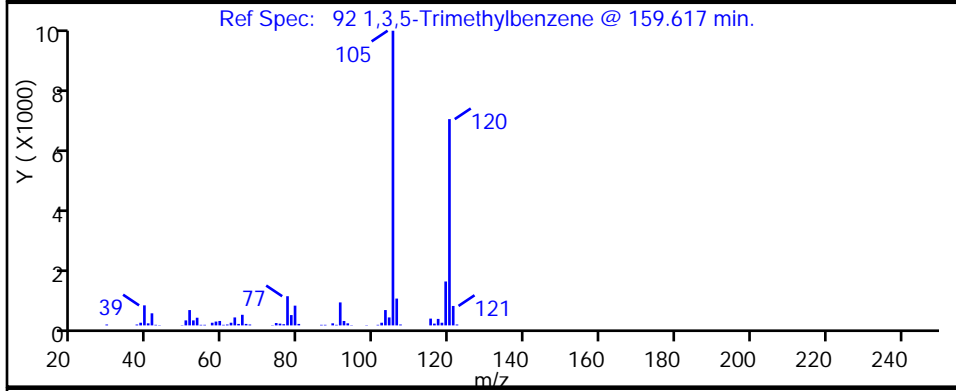
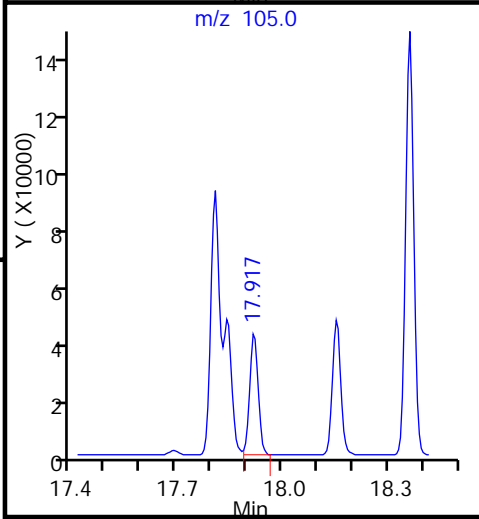
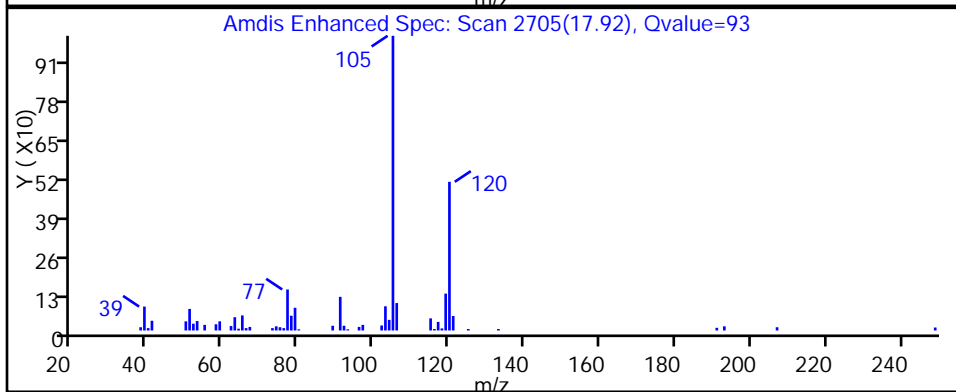
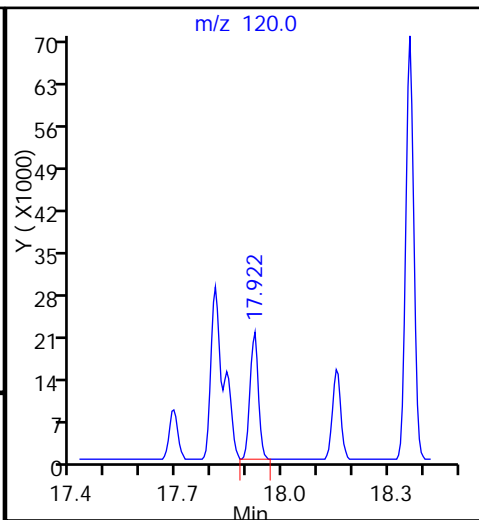
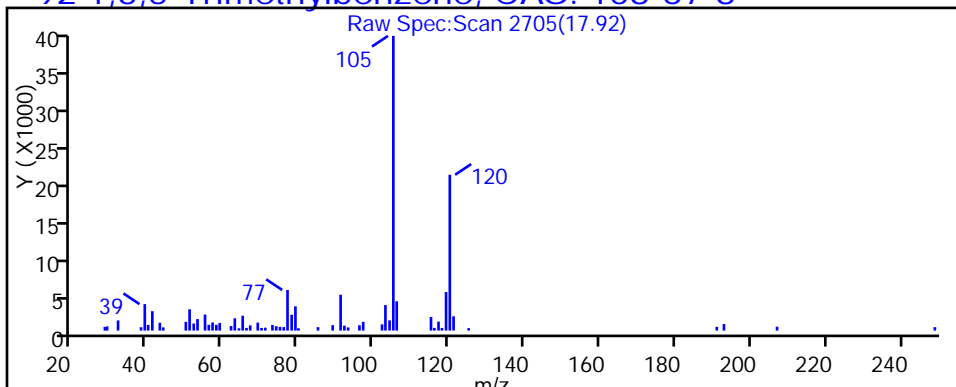
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

92 1,3,5-Trimethylbenzene, CAS: 108-67-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

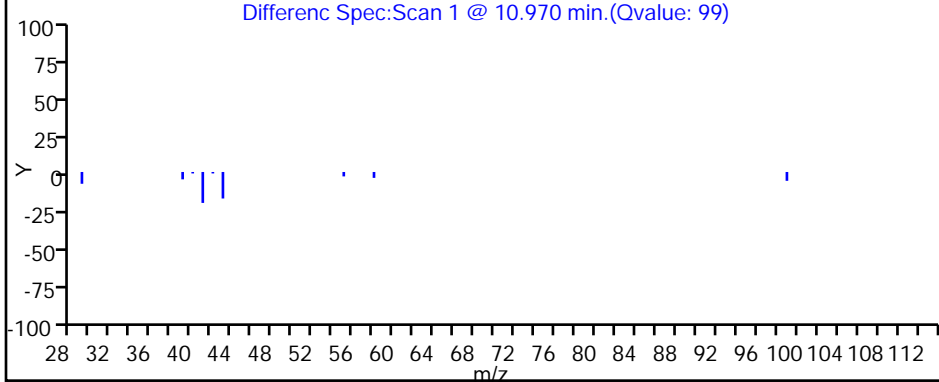
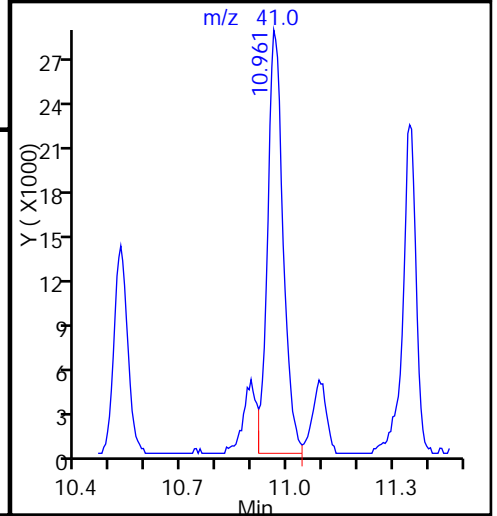
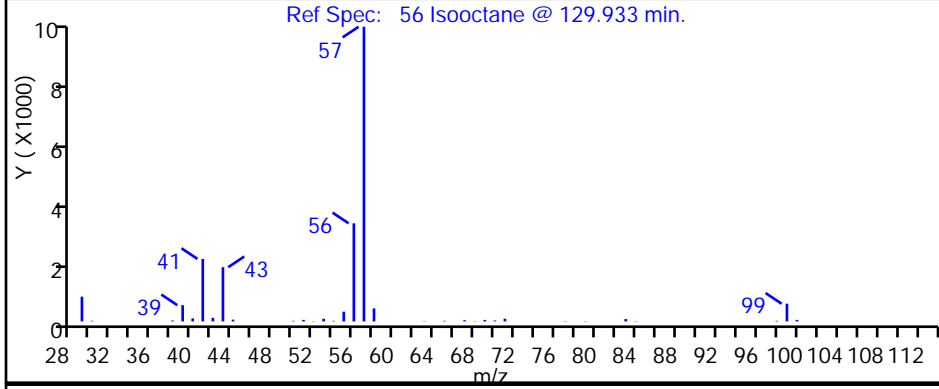
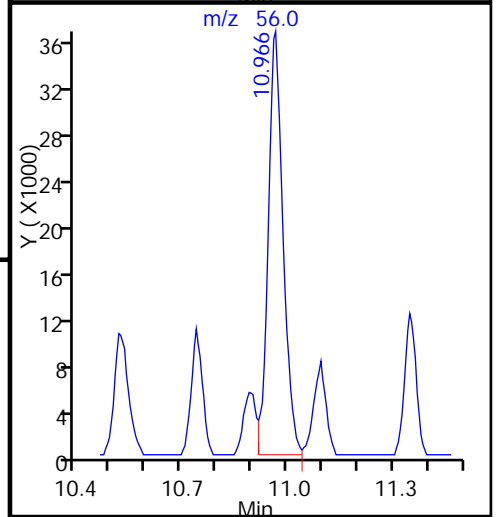
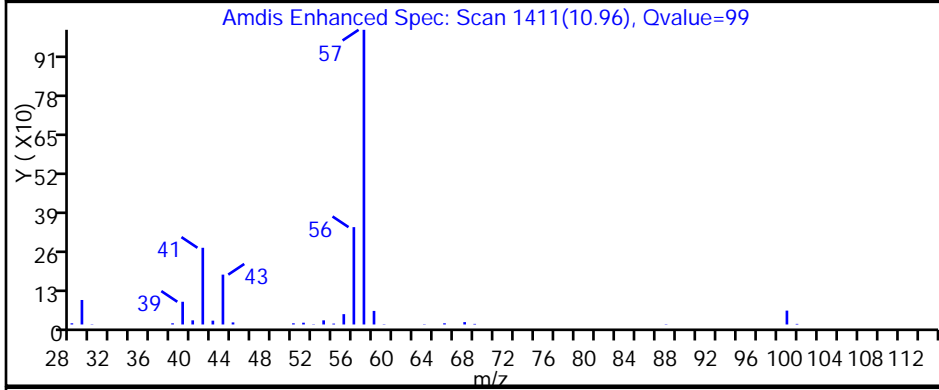
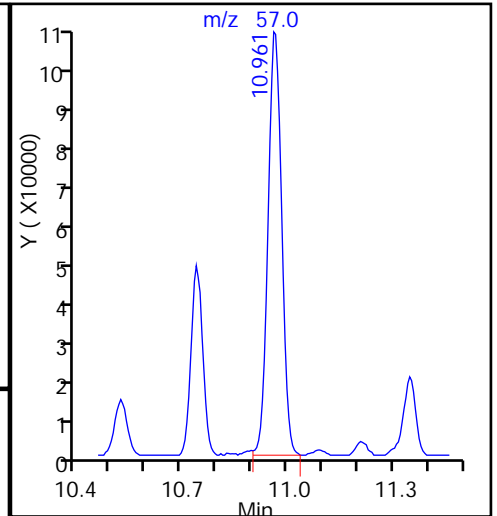
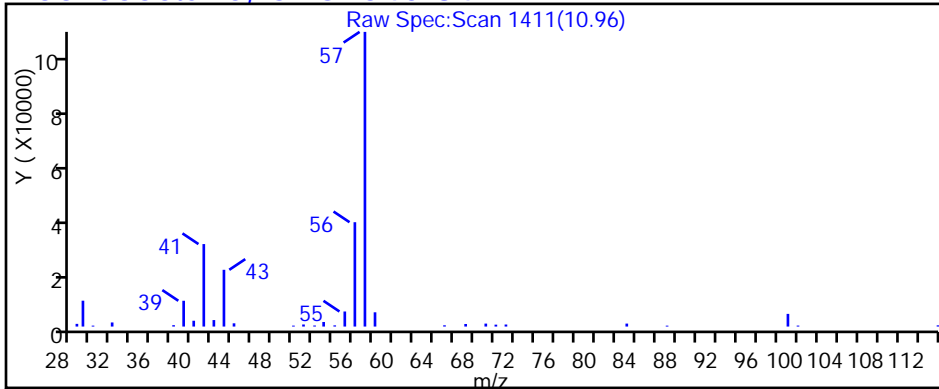
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

56 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

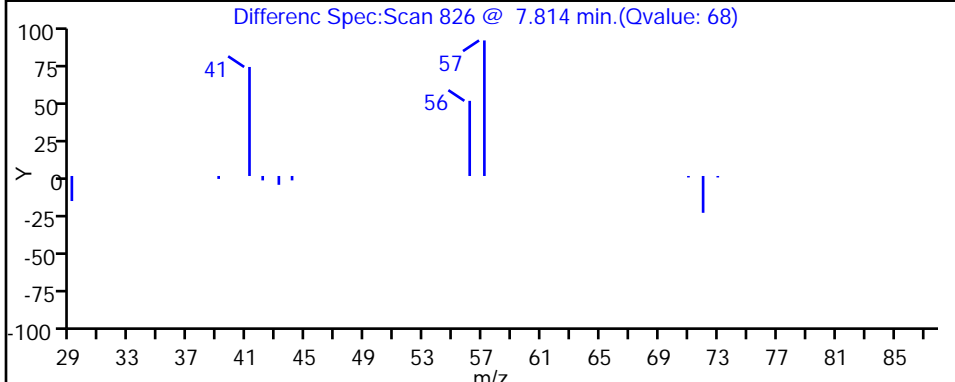
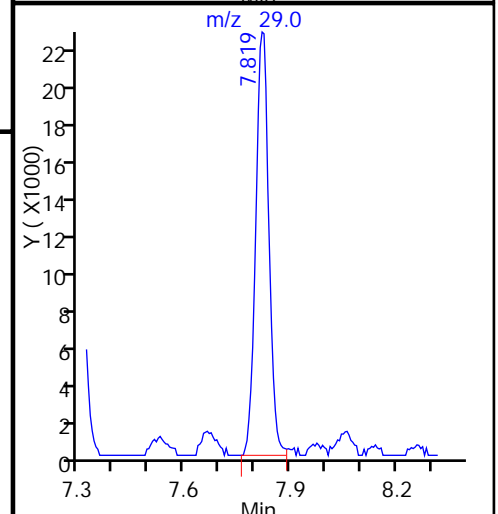
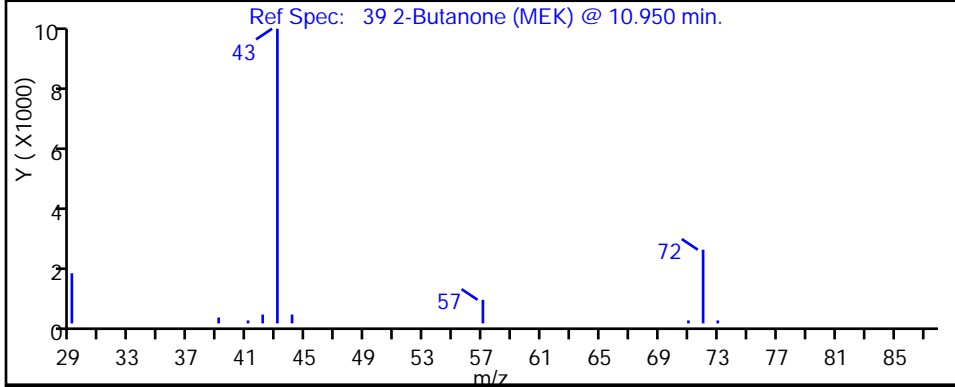
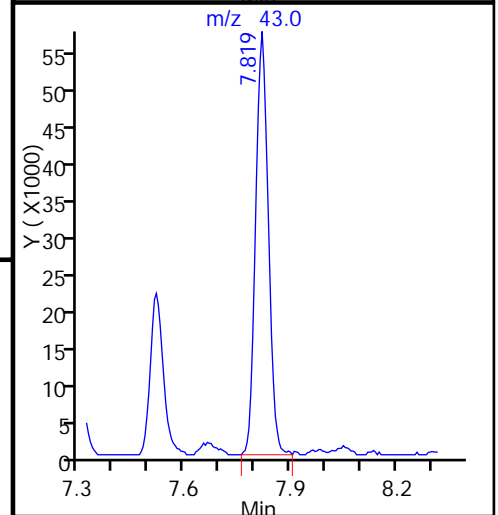
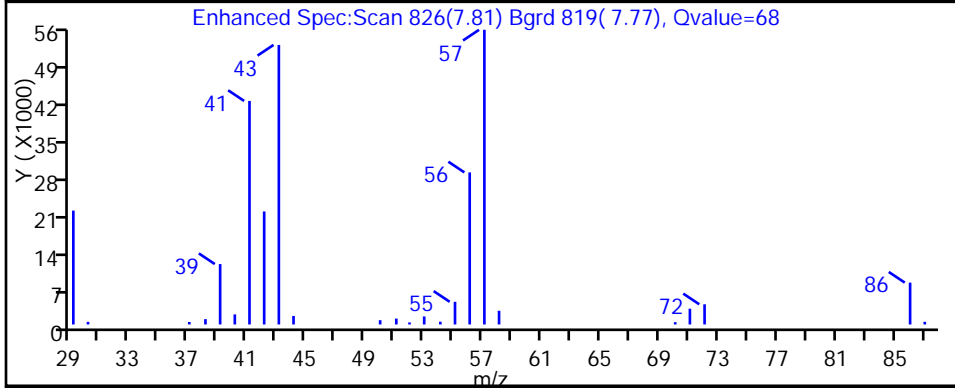
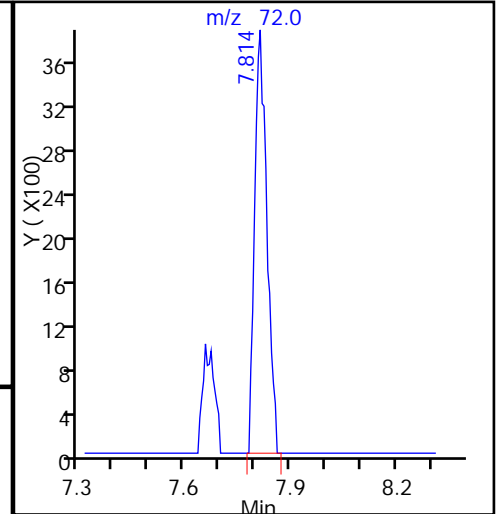
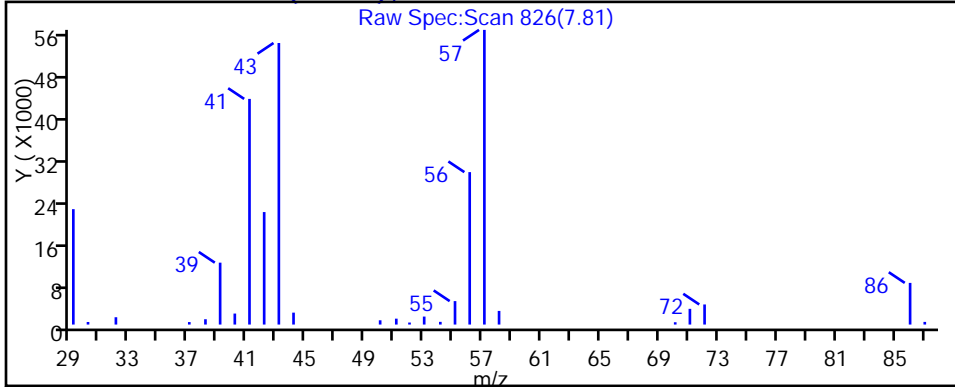
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

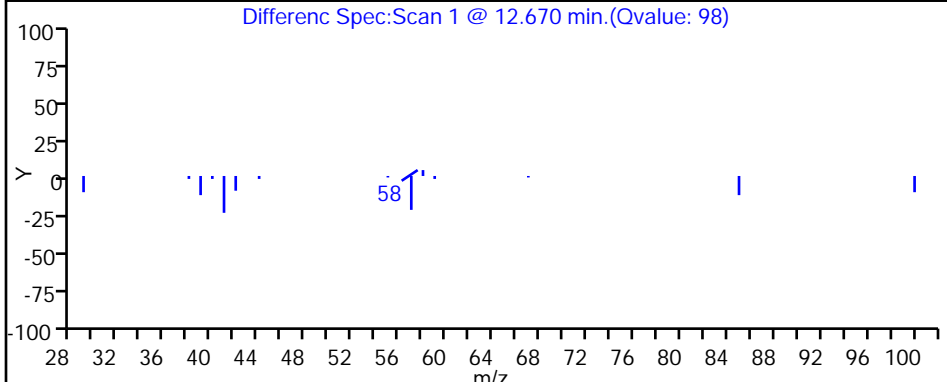
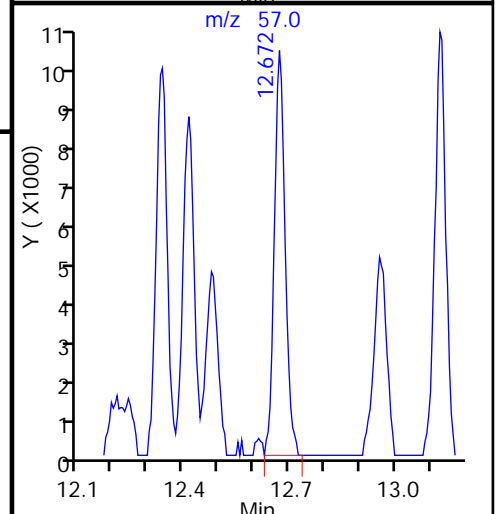
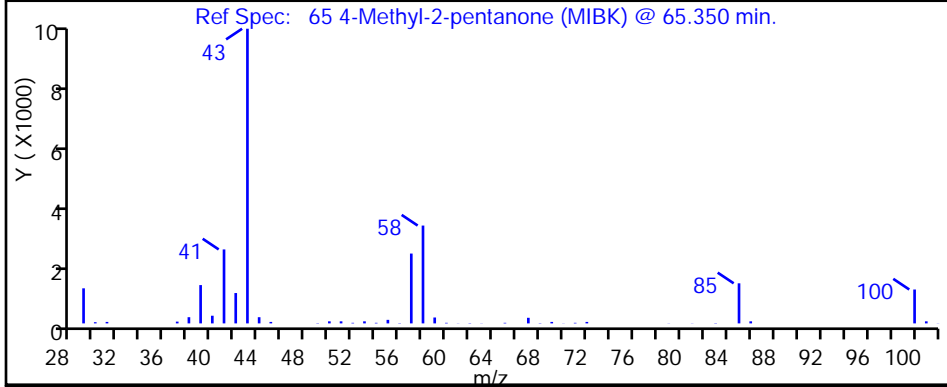
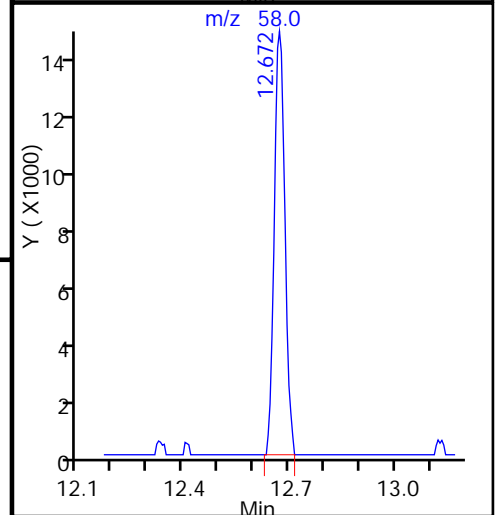
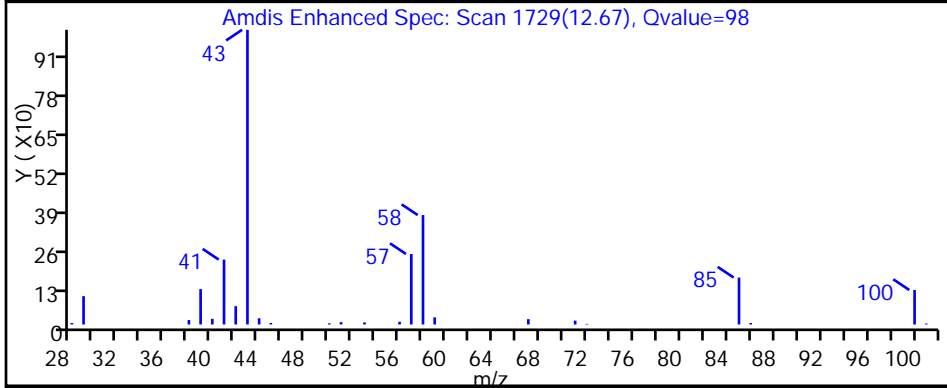
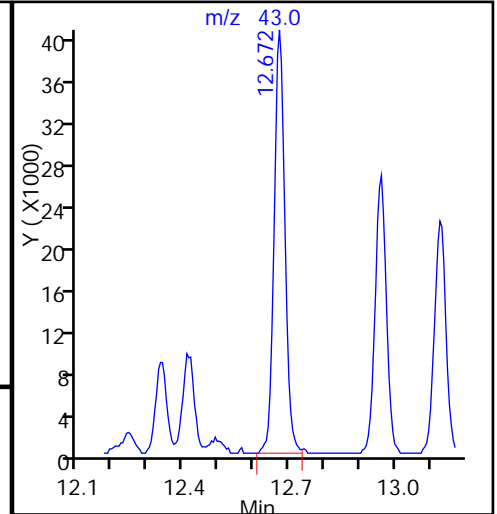
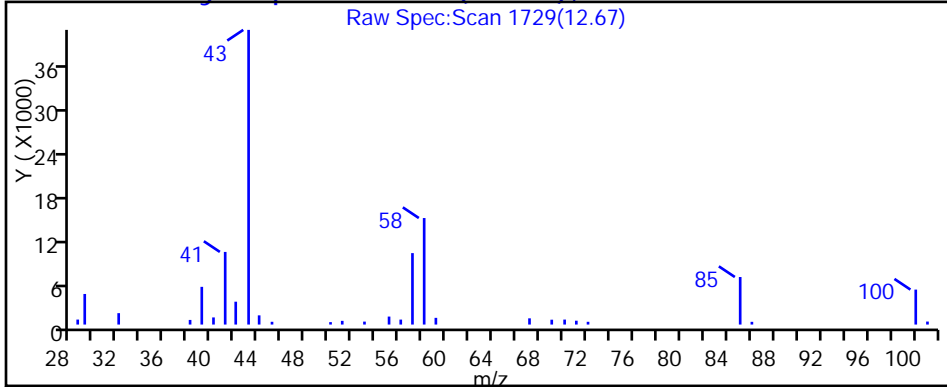
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

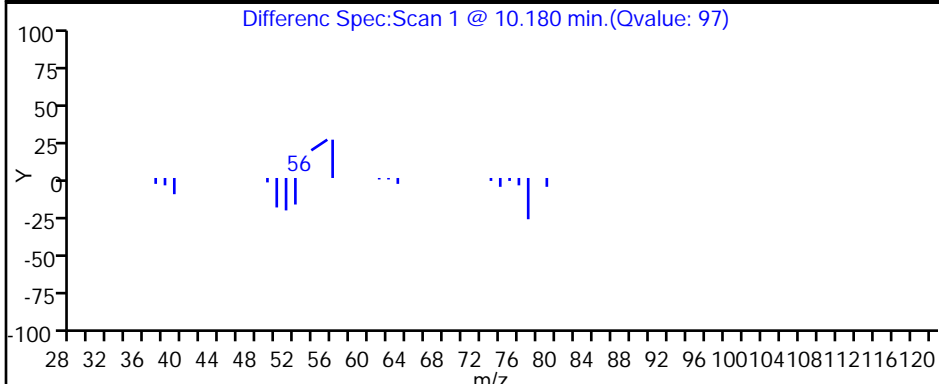
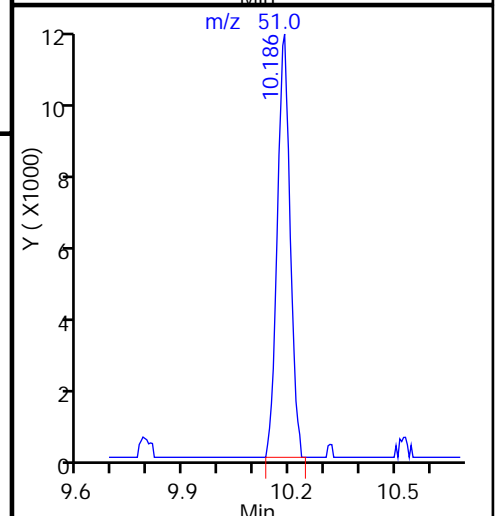
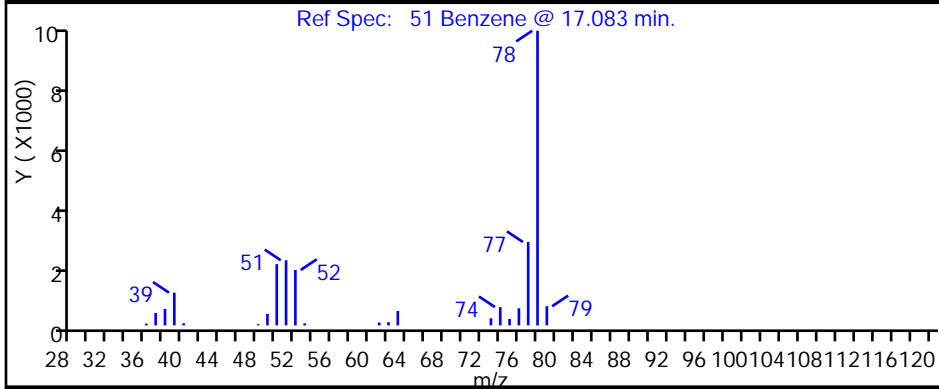
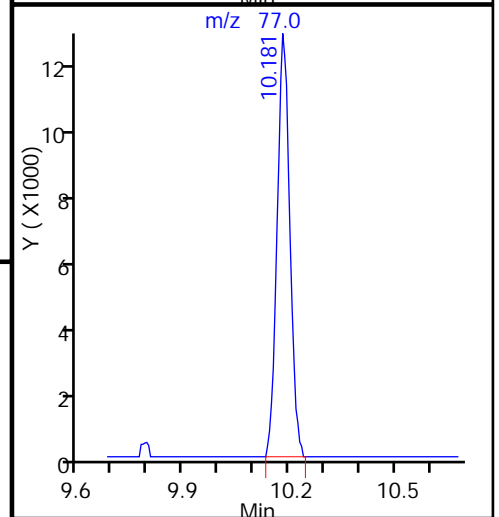
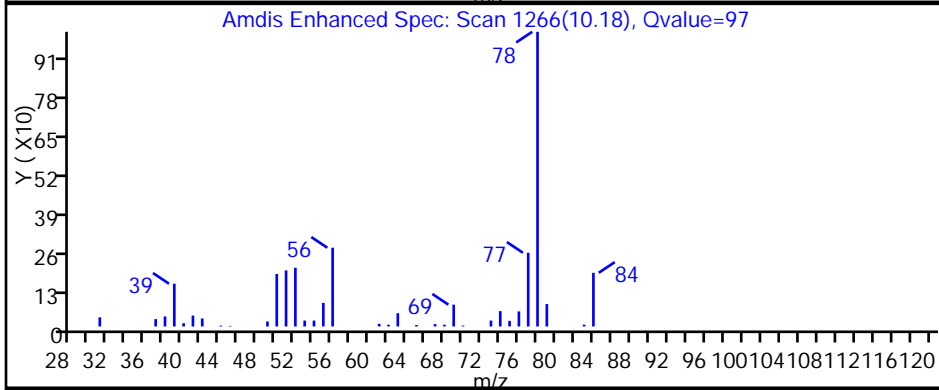
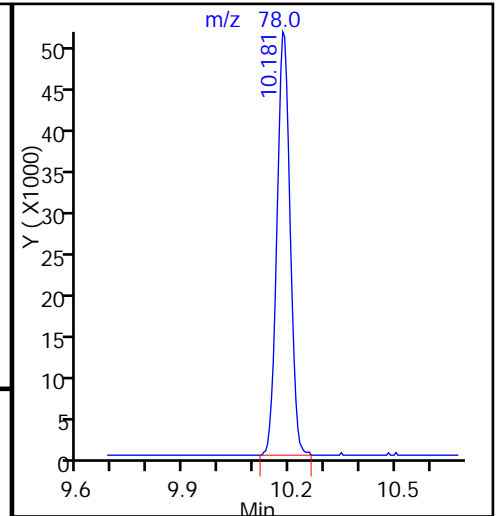
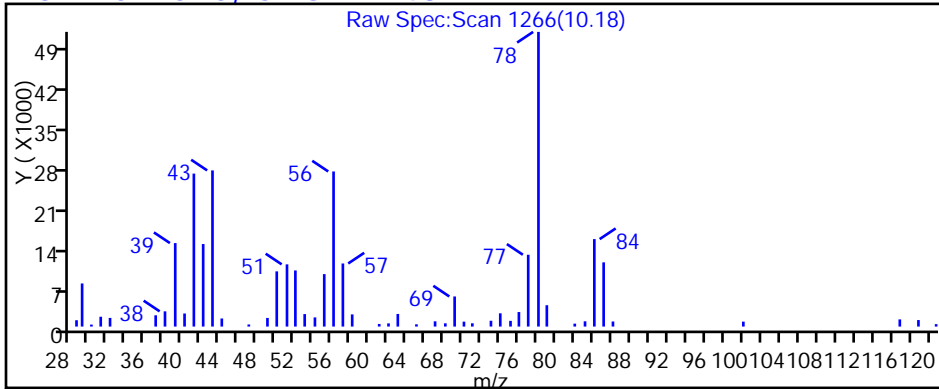
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

51 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

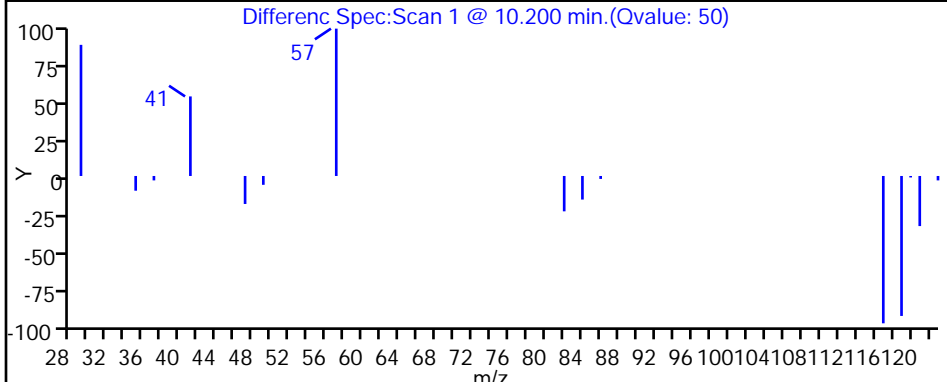
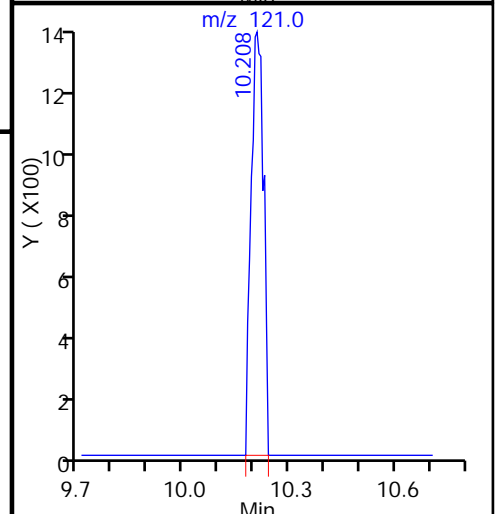
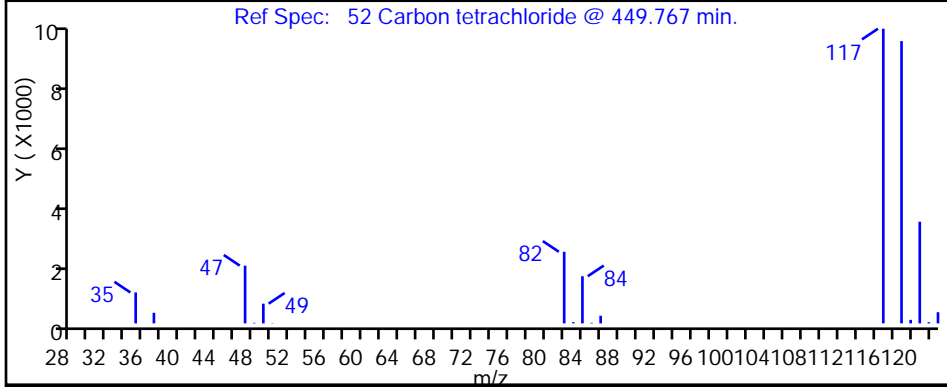
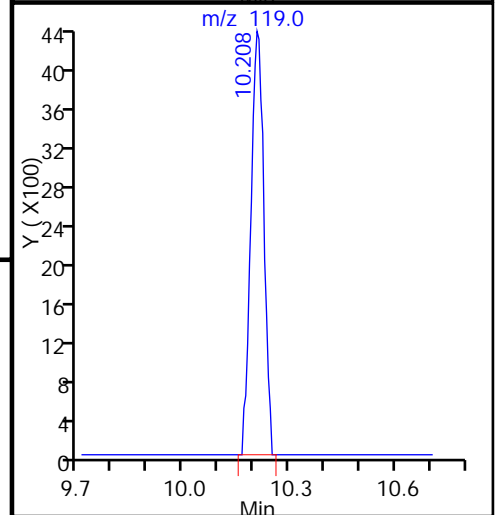
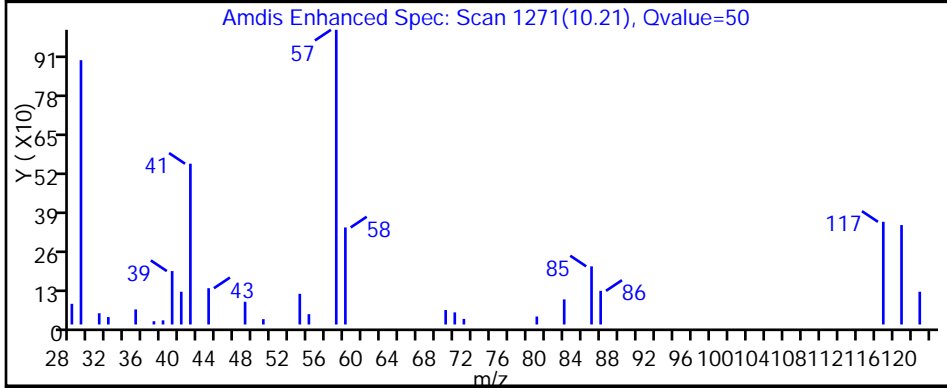
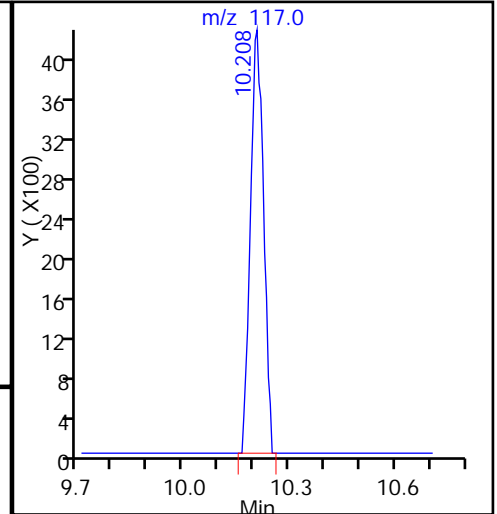
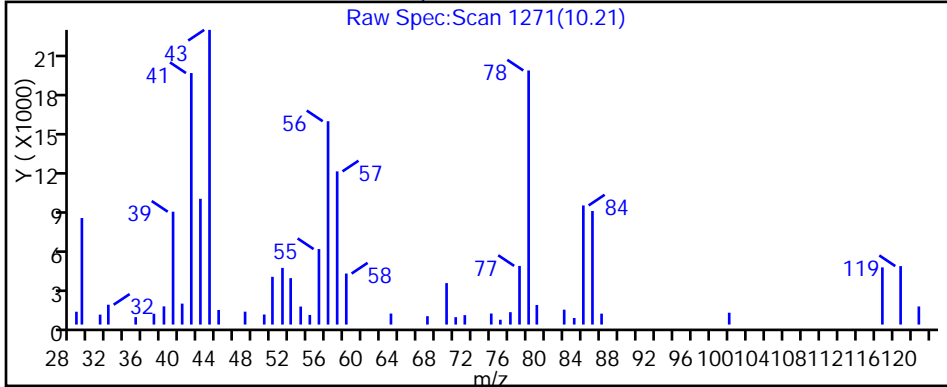
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

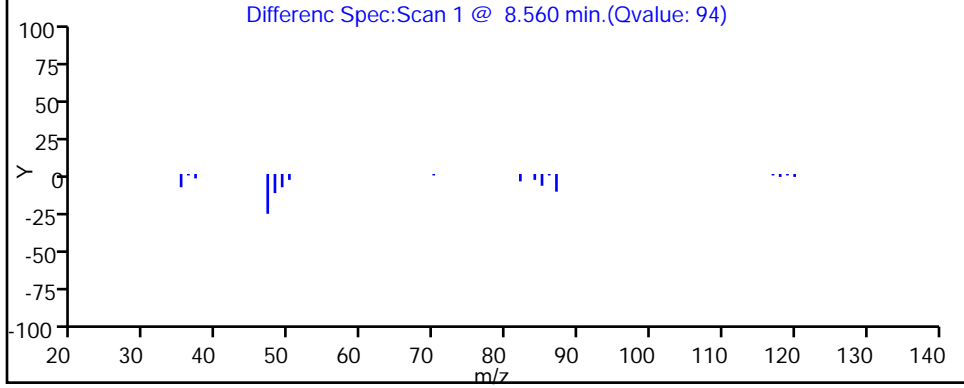
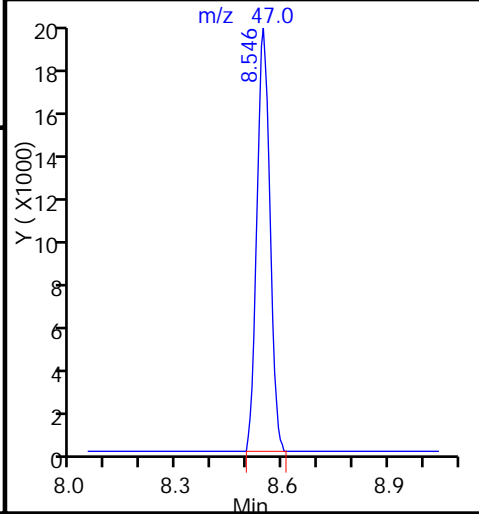
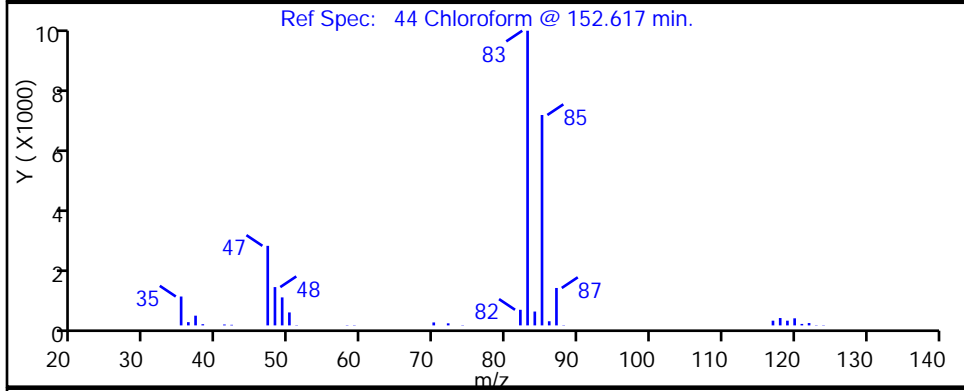
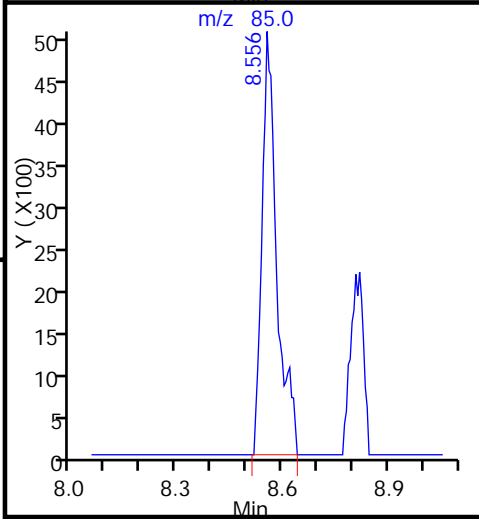
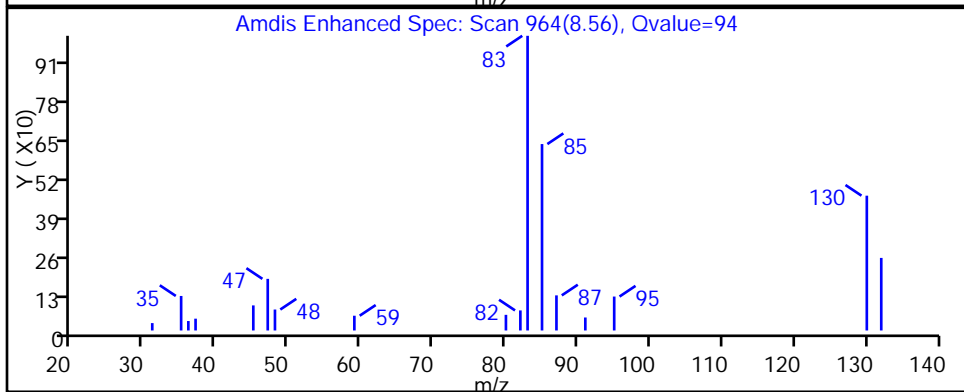
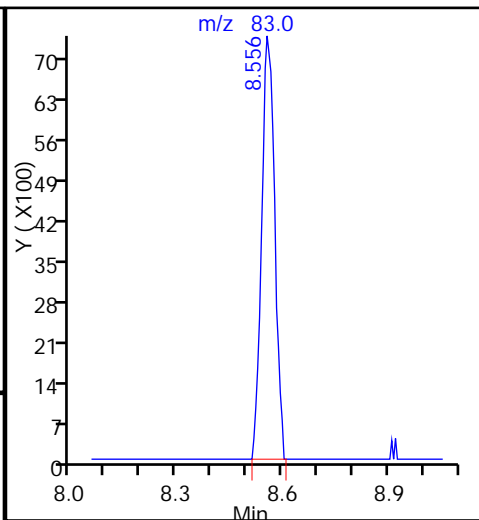
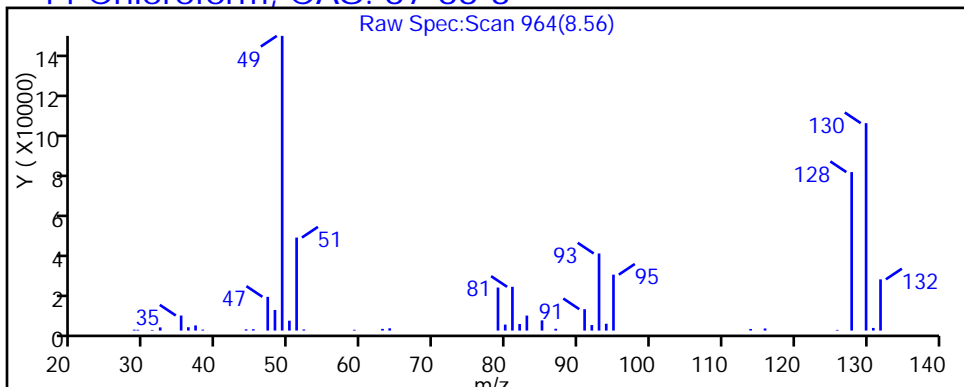
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

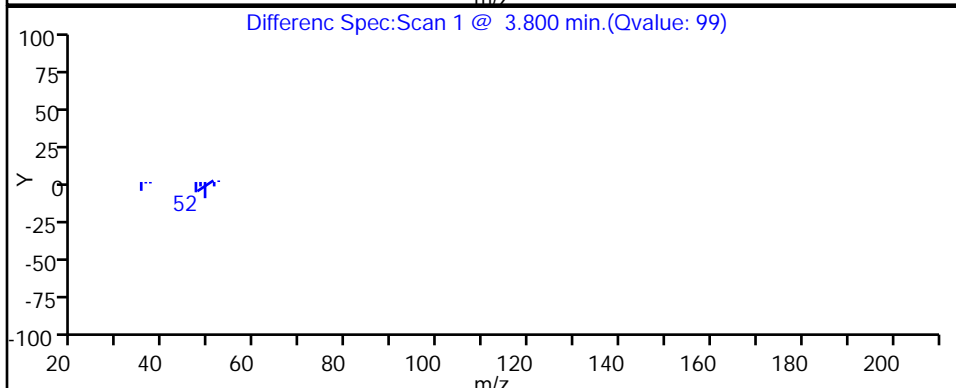
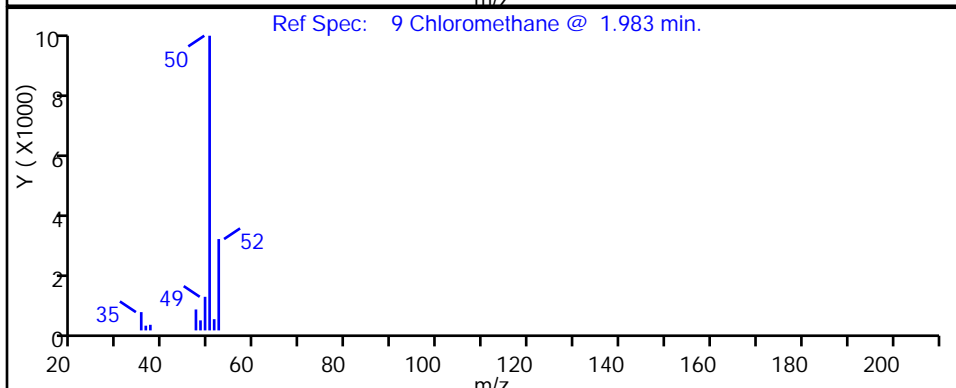
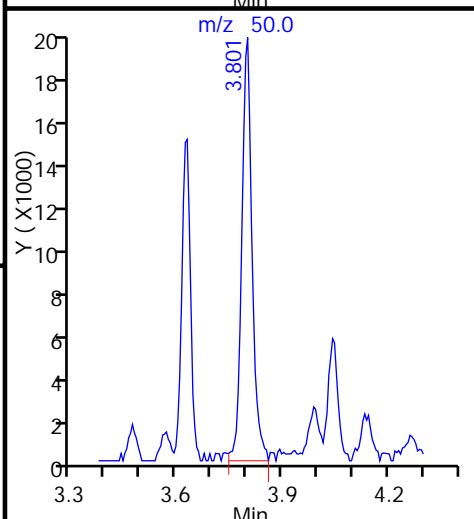
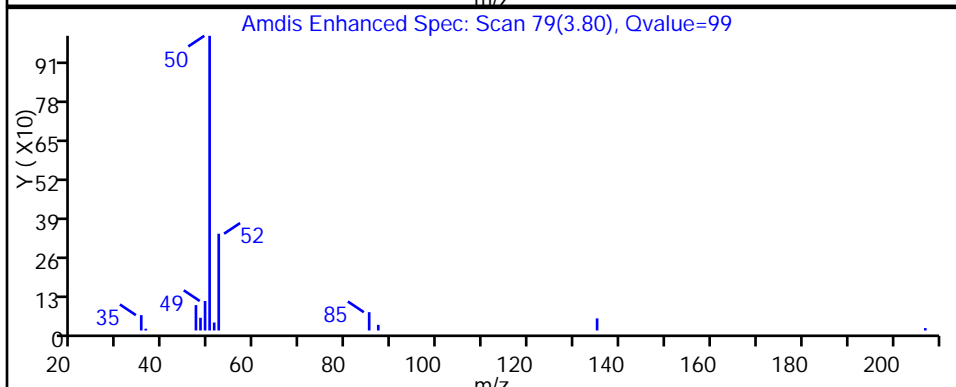
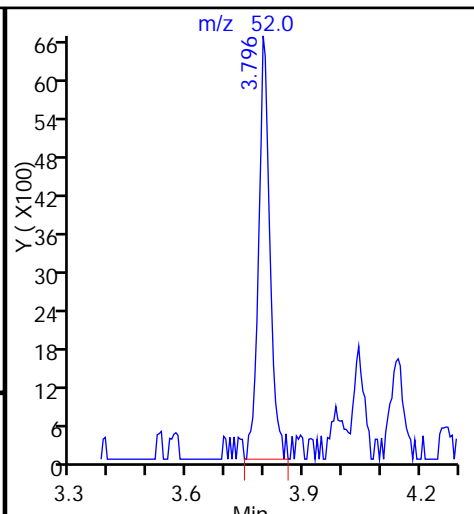
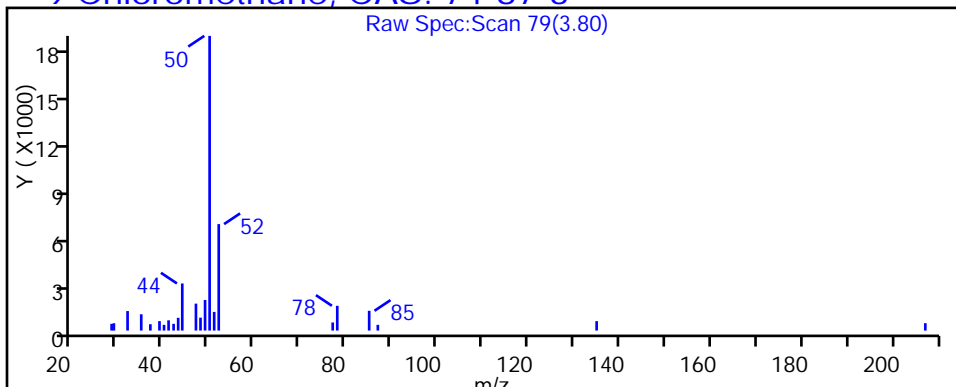
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

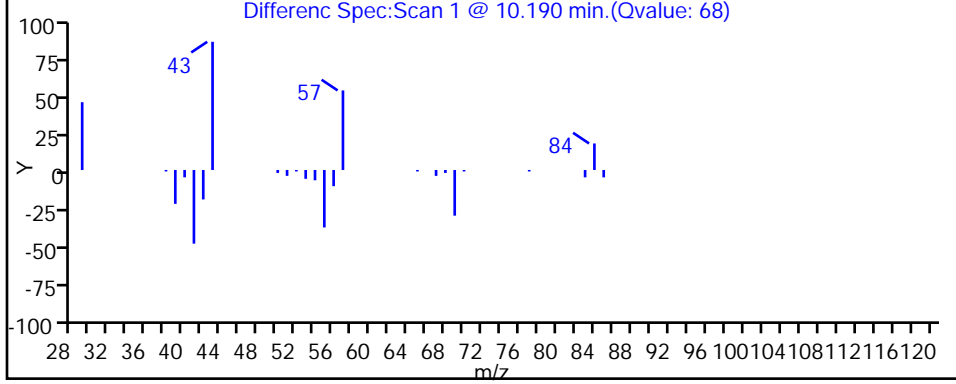
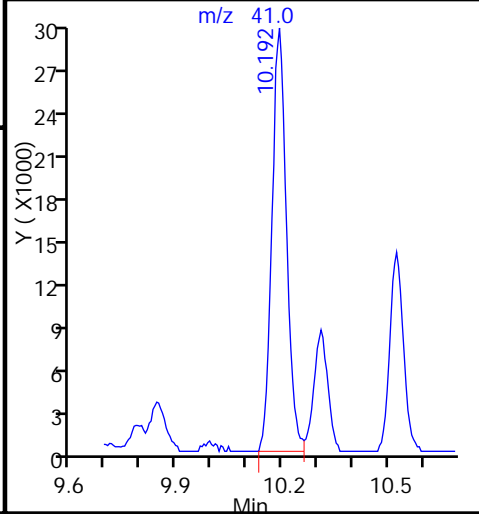
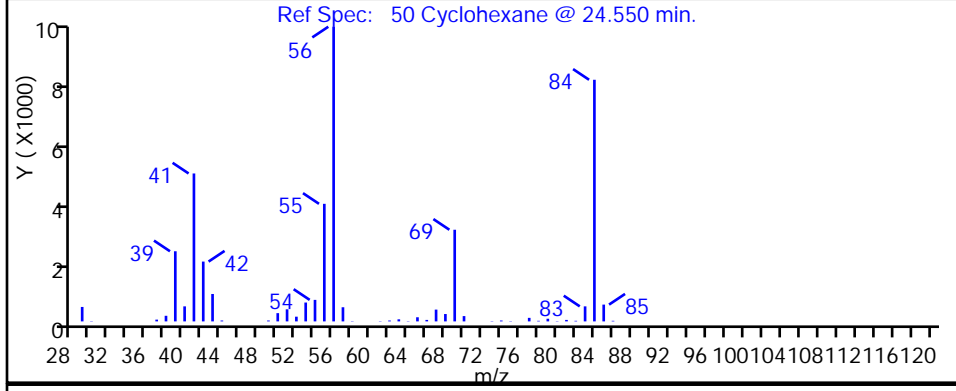
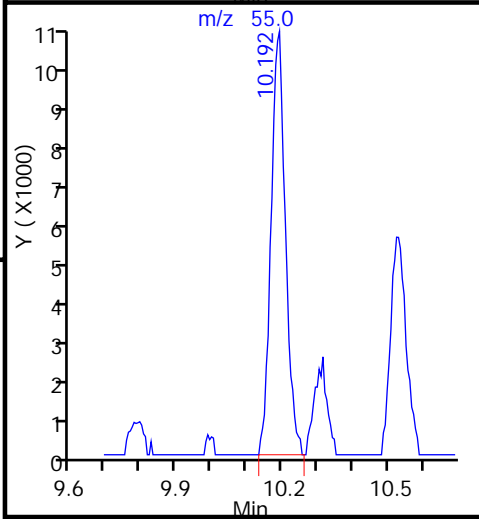
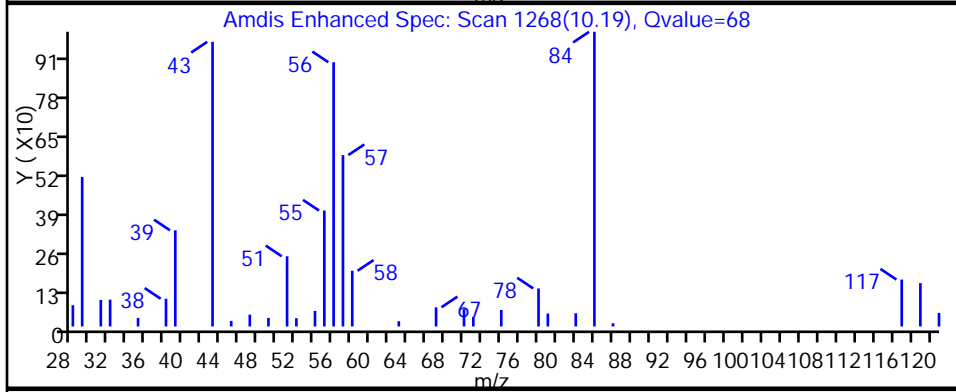
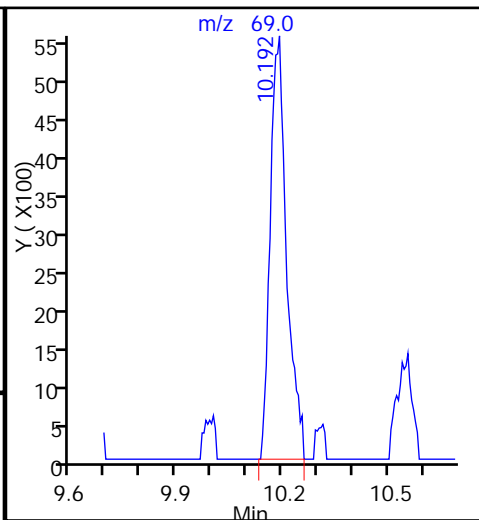
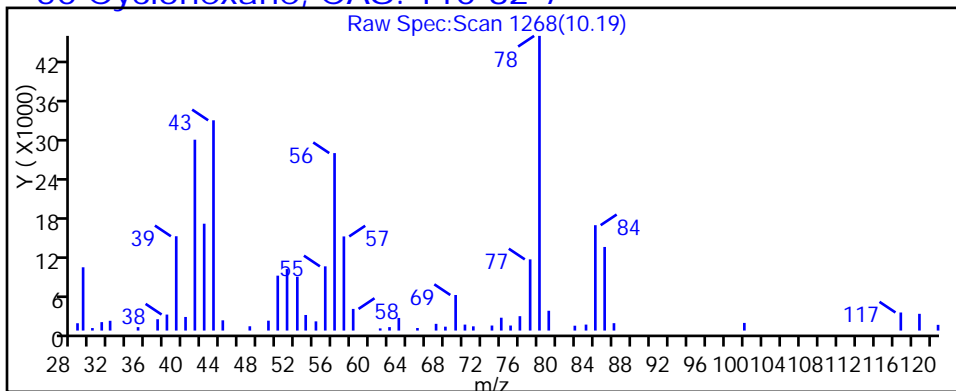
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

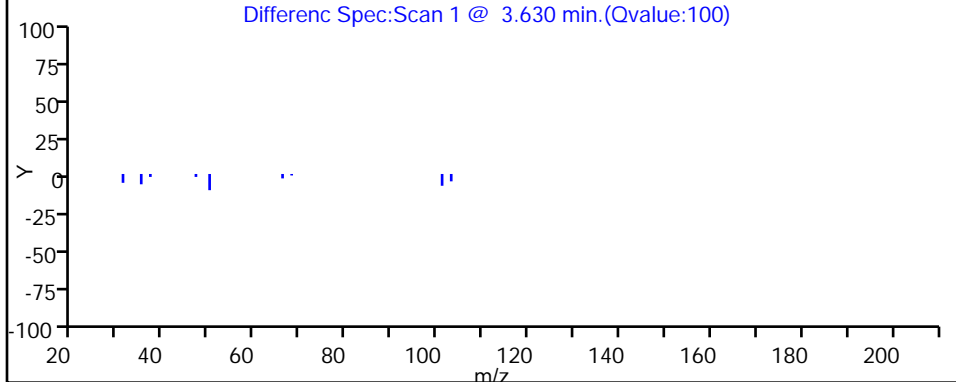
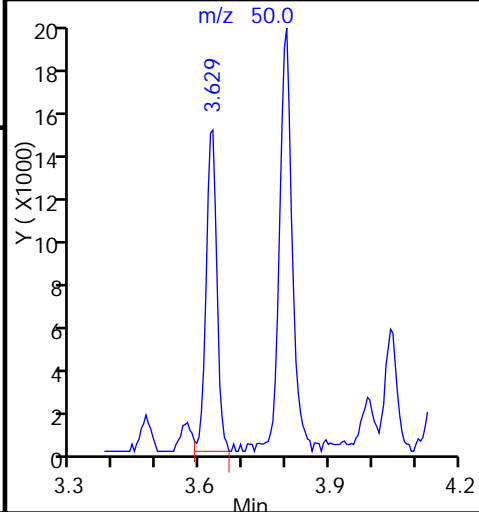
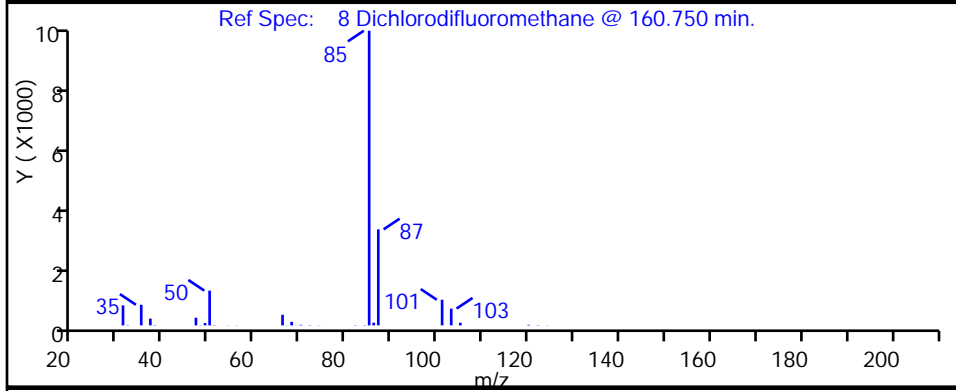
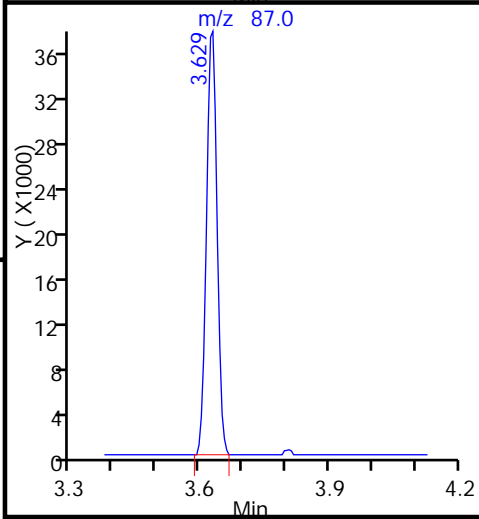
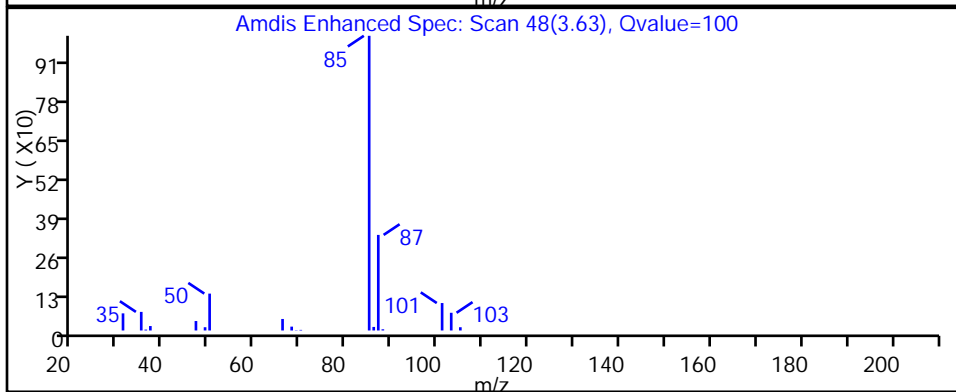
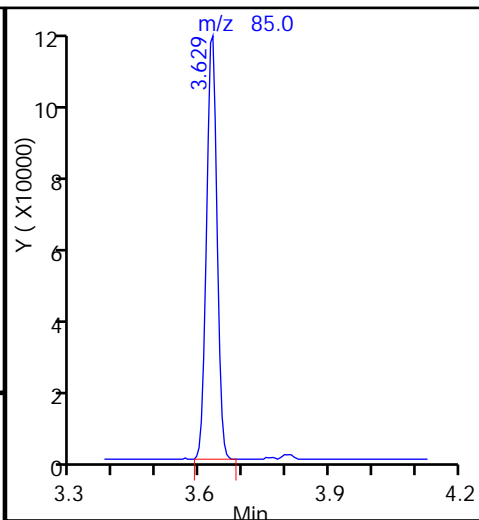
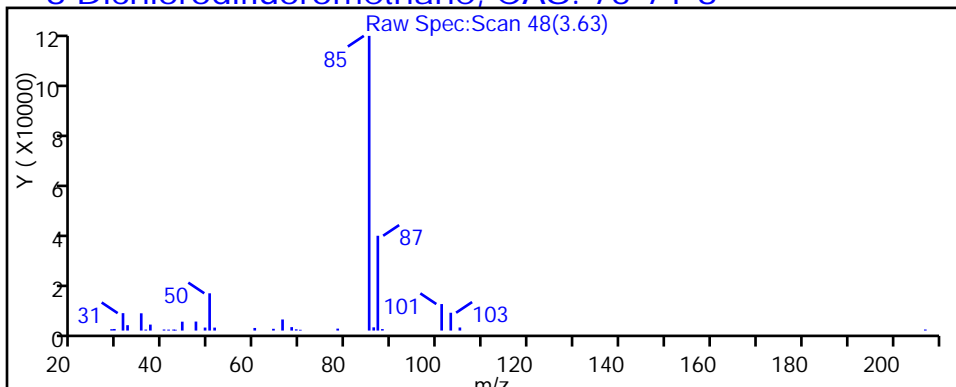
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

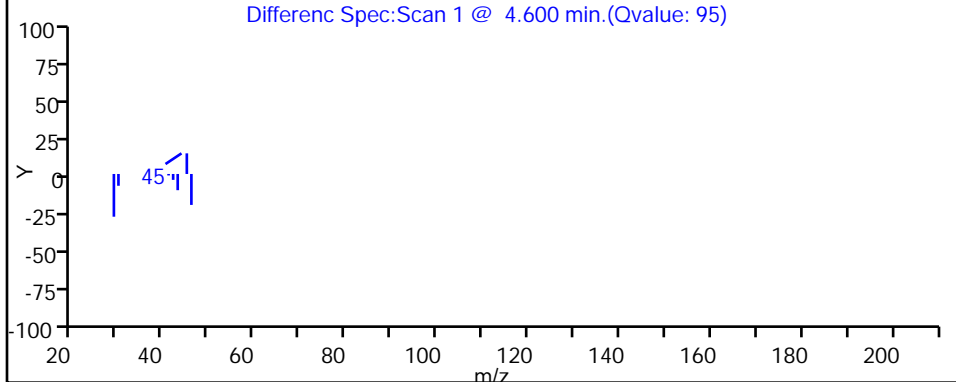
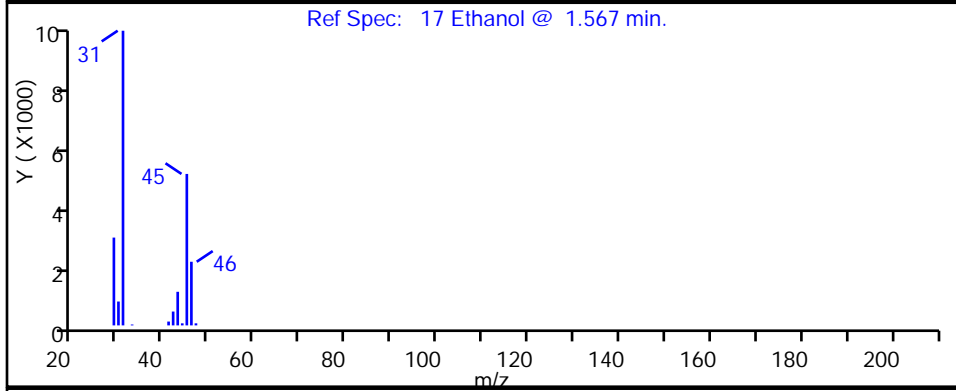
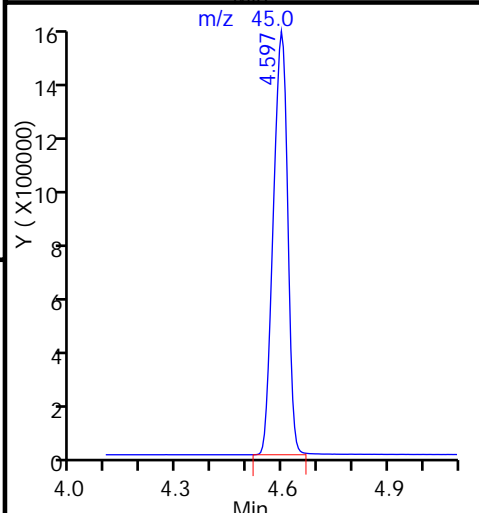
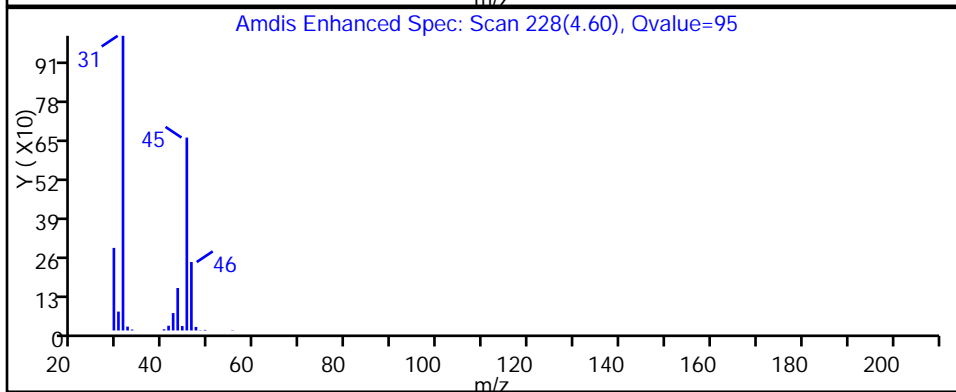
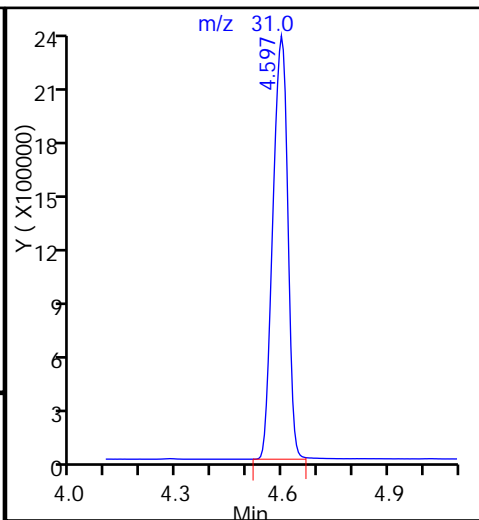
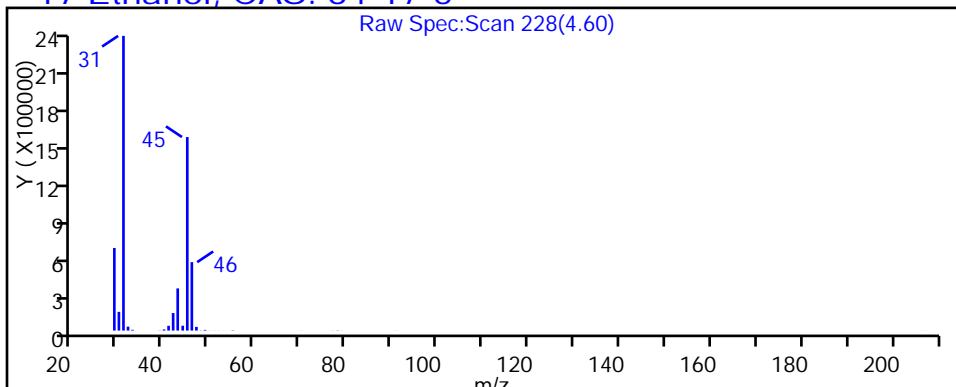
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

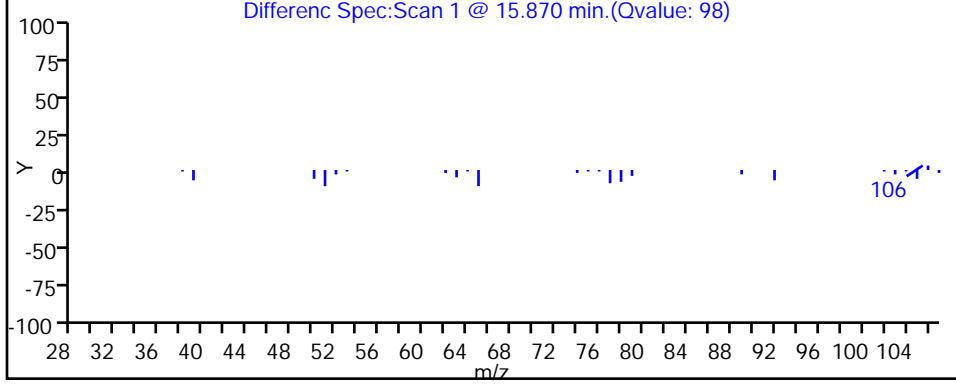
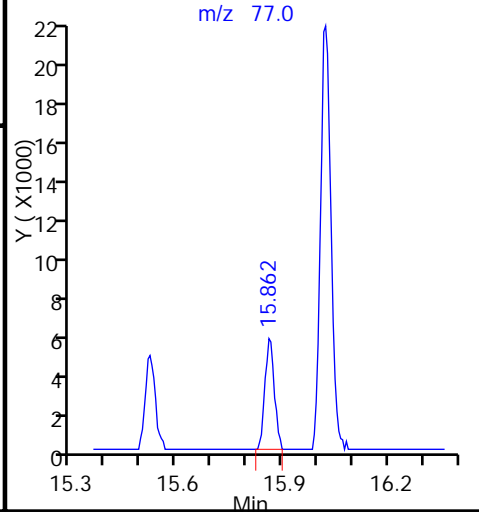
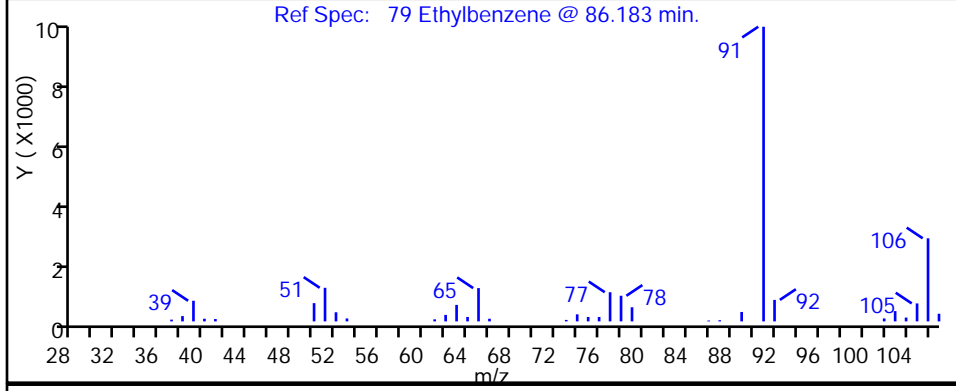
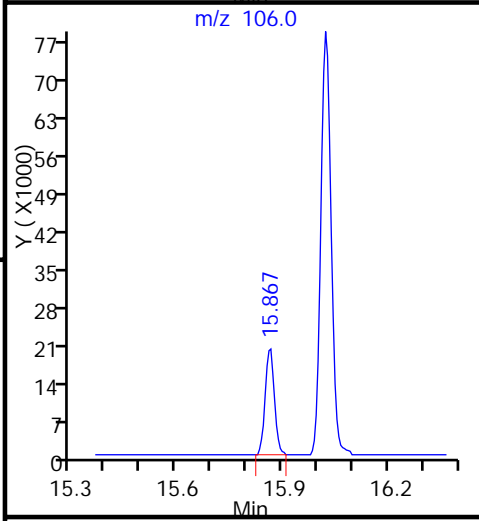
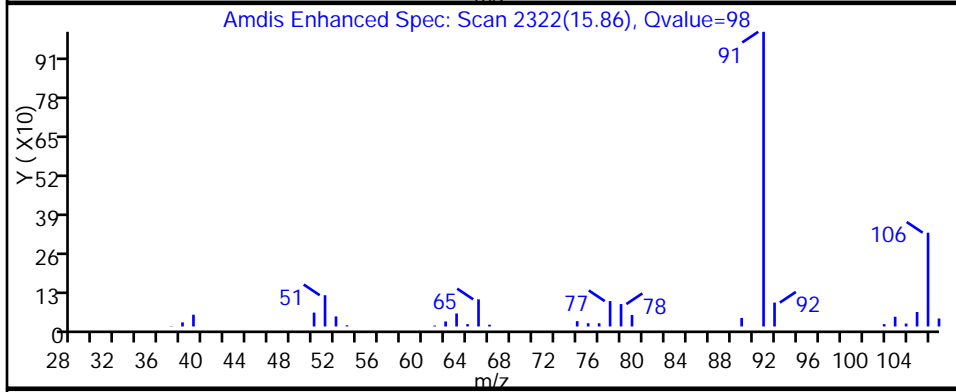
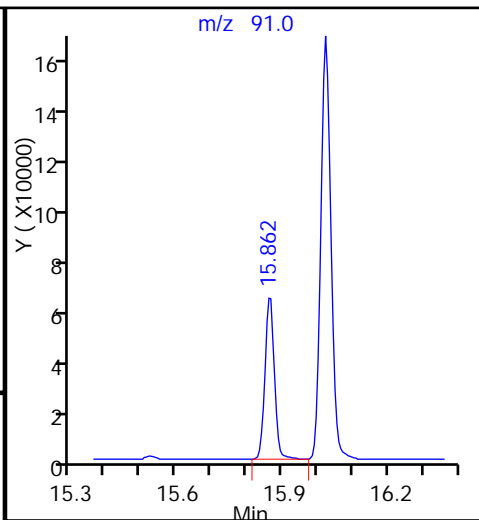
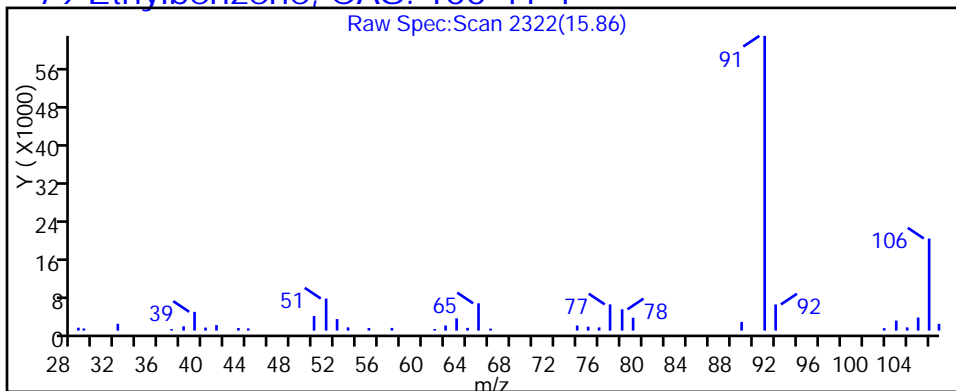
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

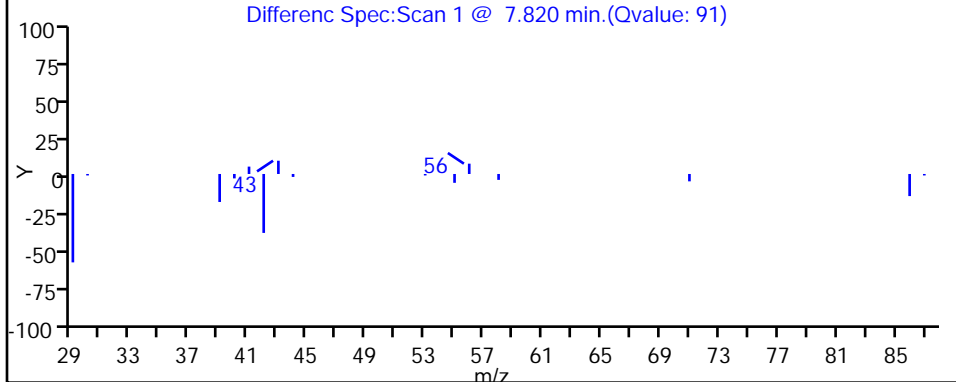
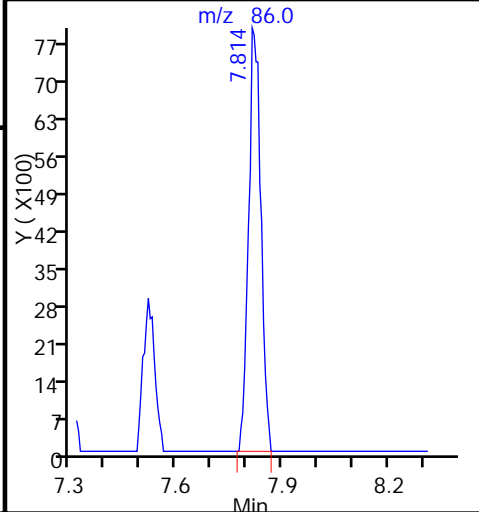
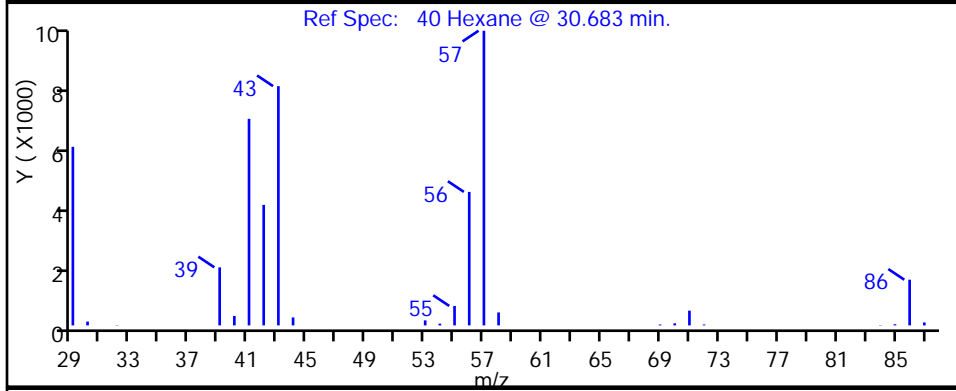
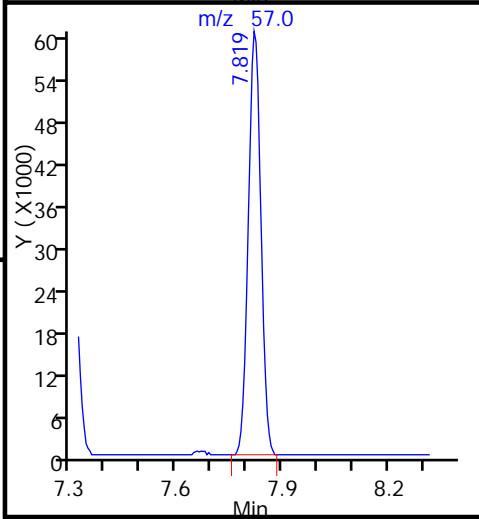
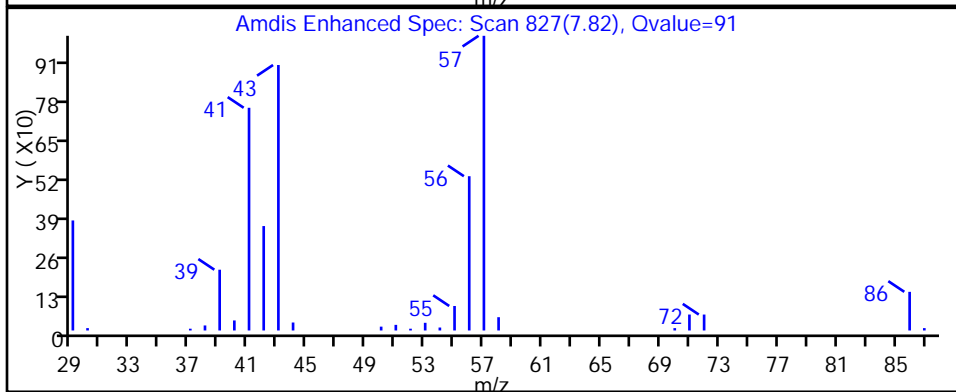
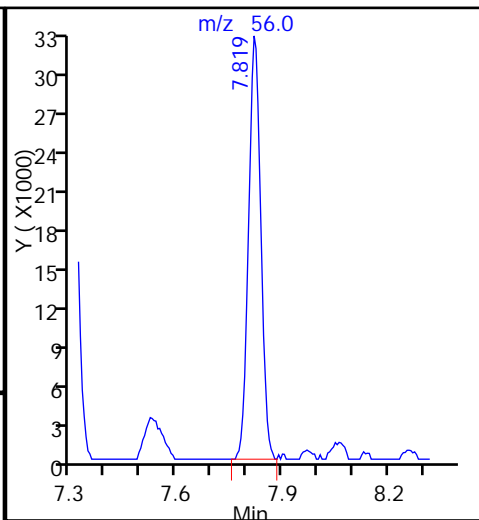
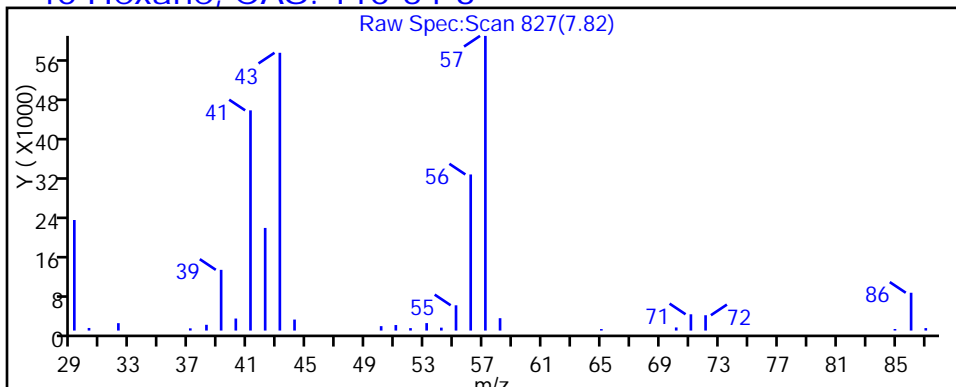
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

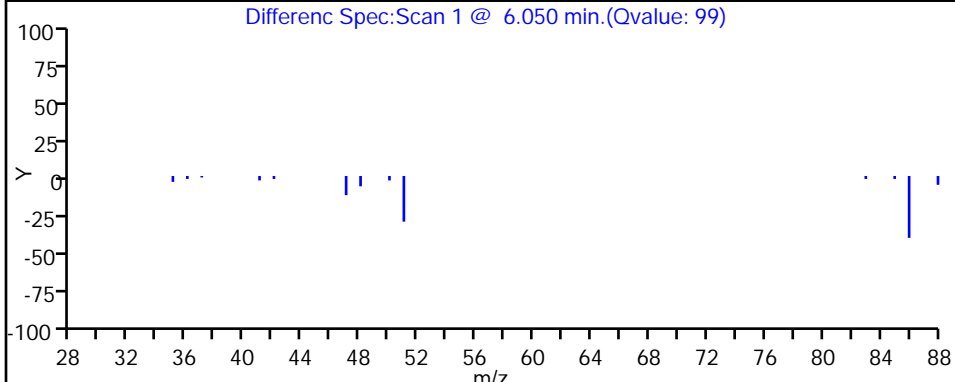
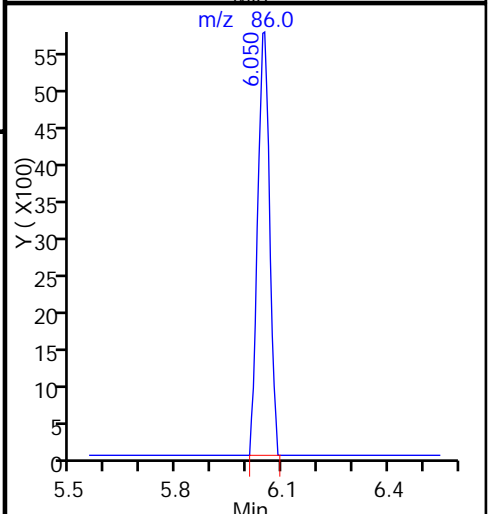
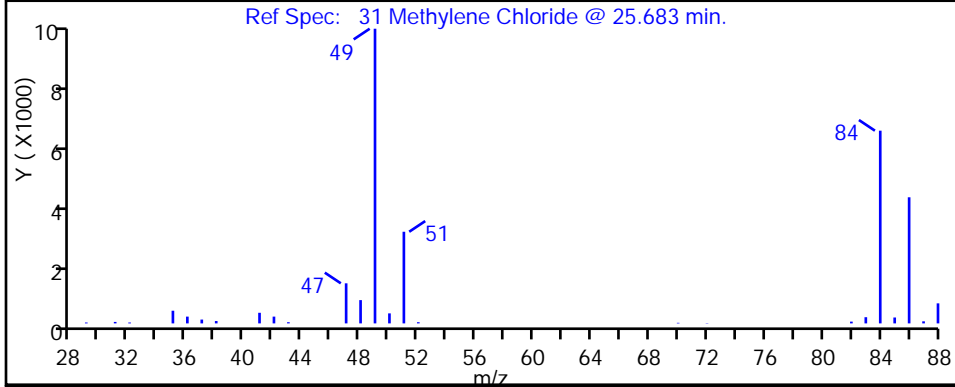
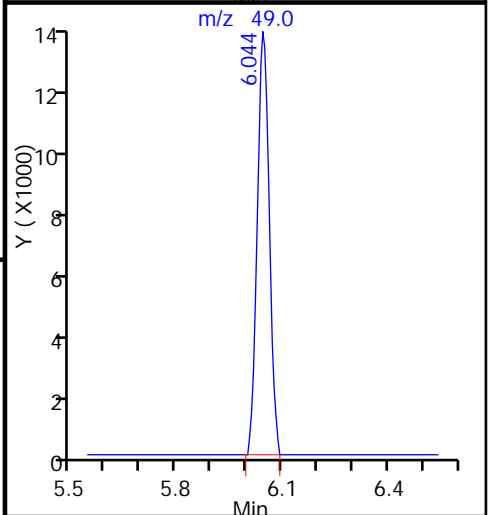
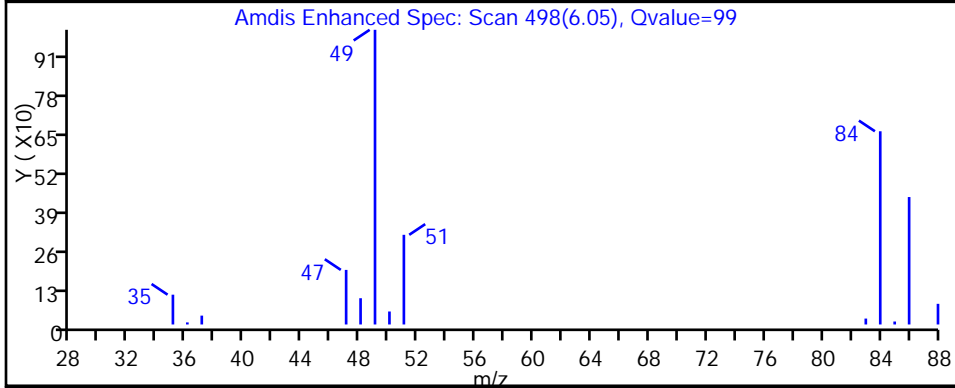
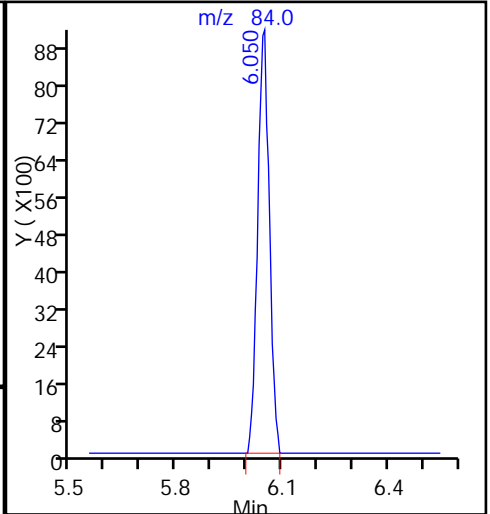
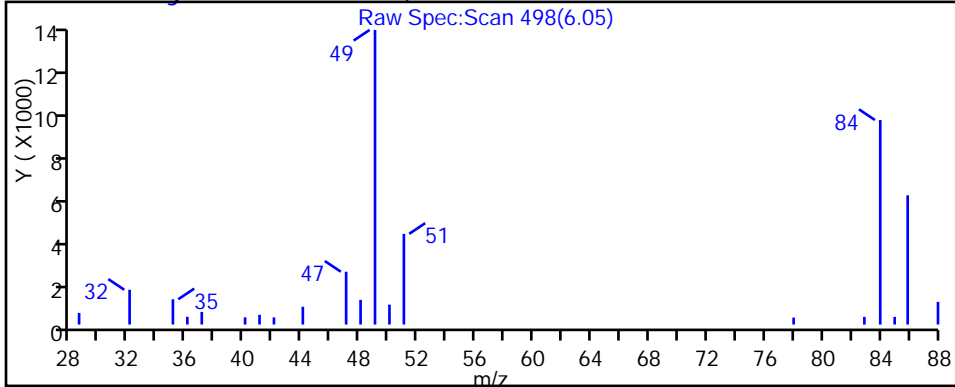
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5

Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

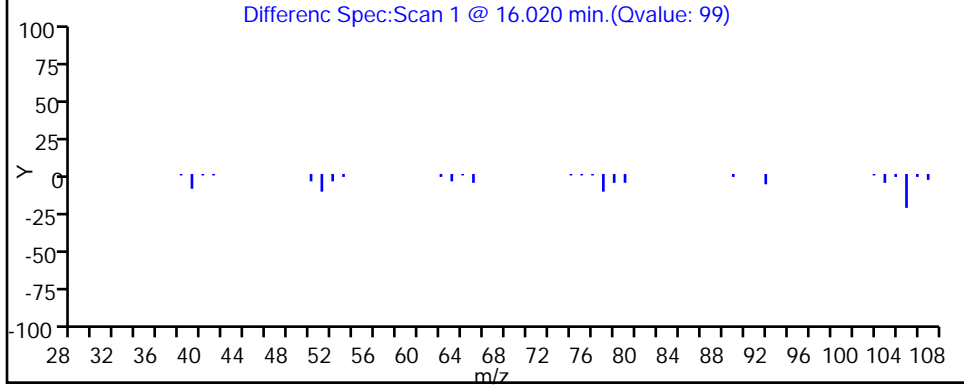
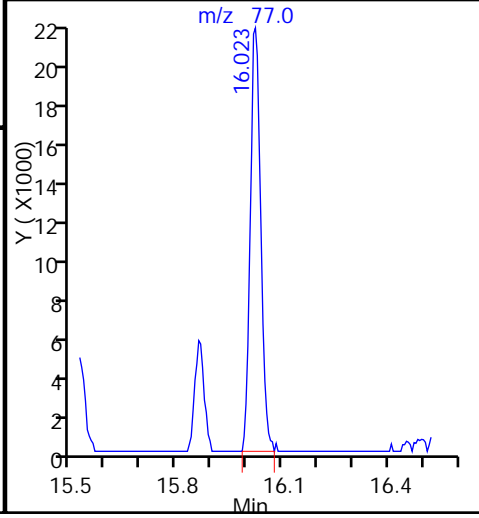
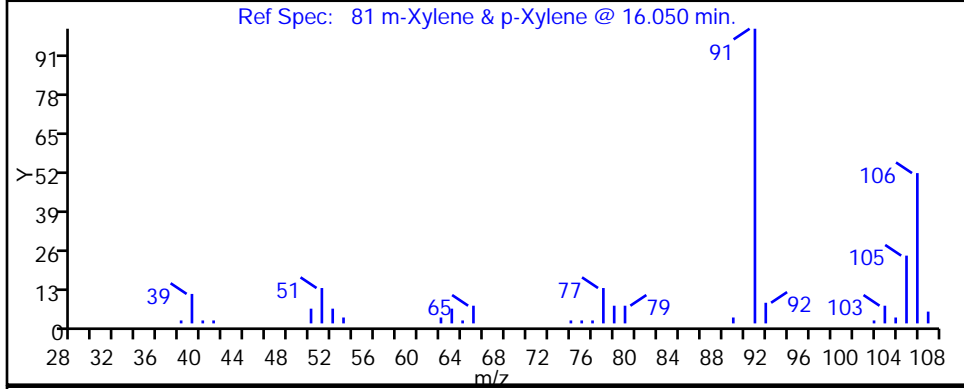
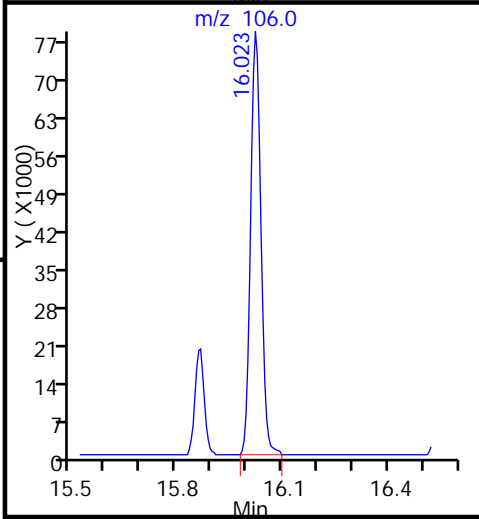
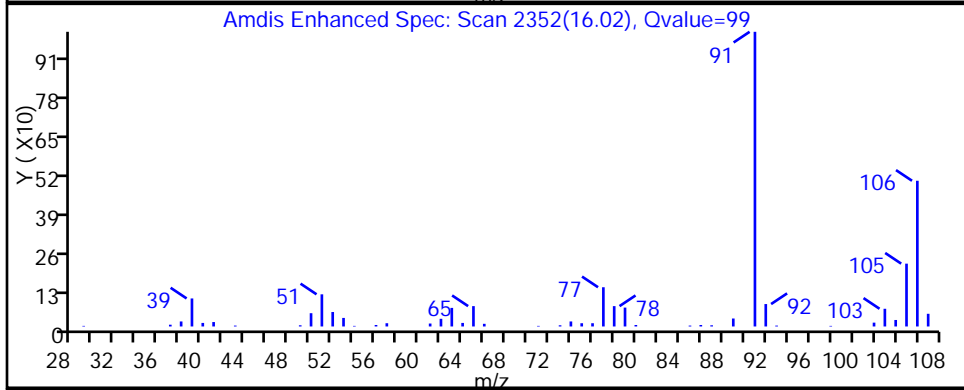
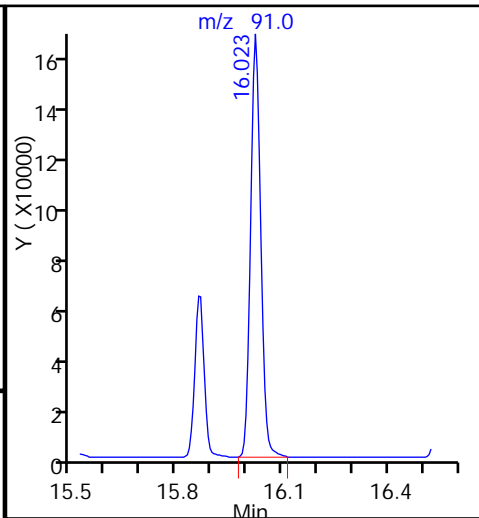
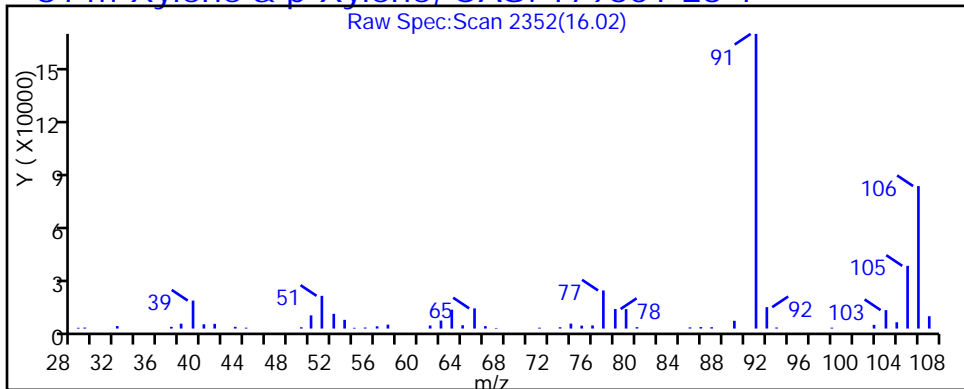
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

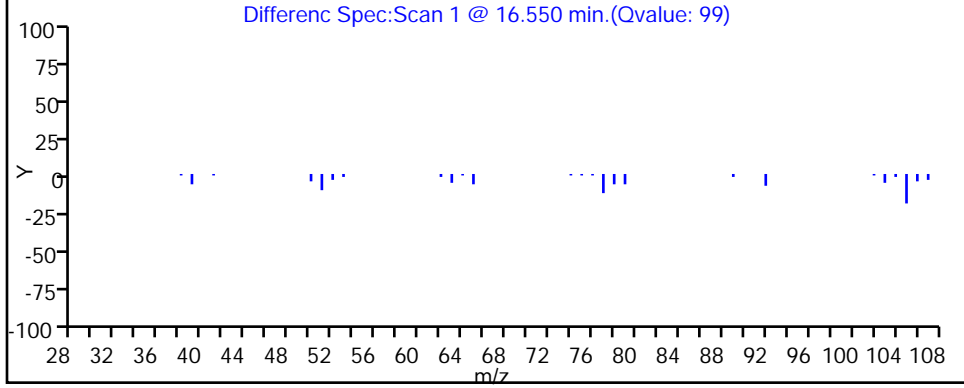
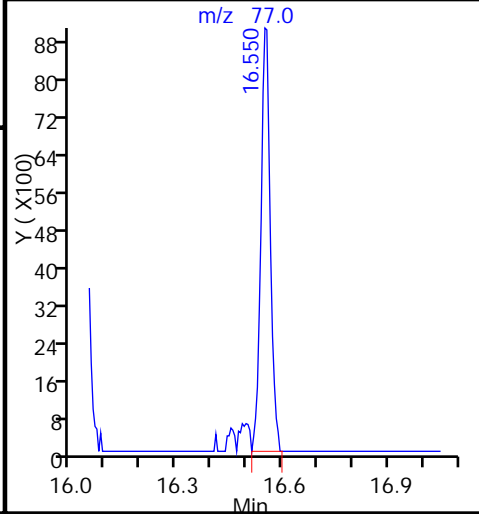
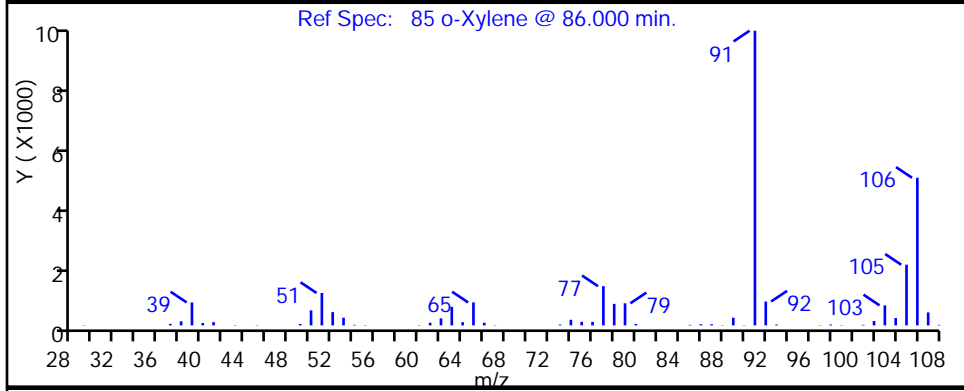
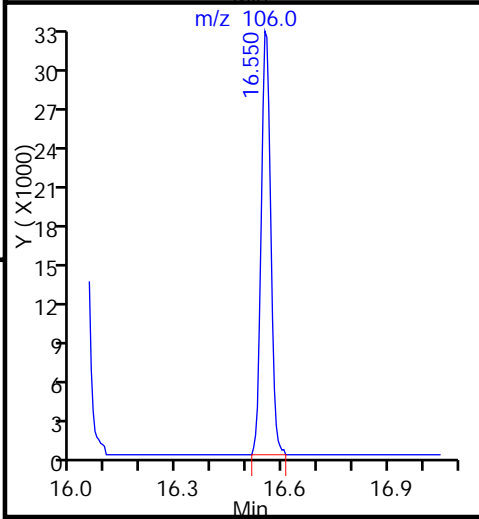
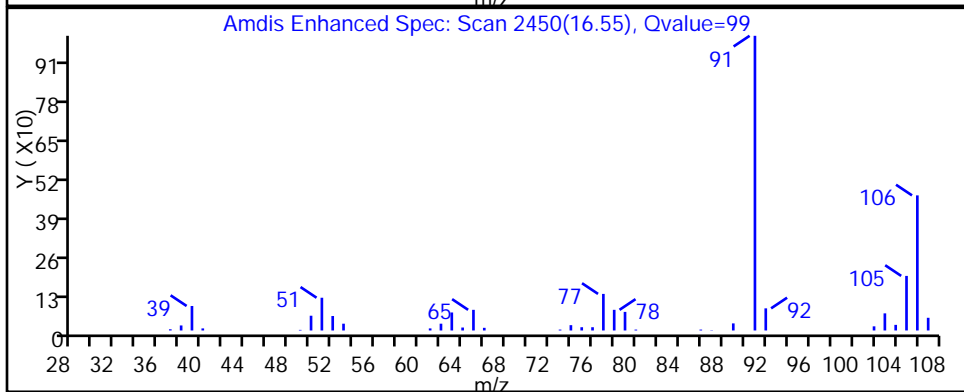
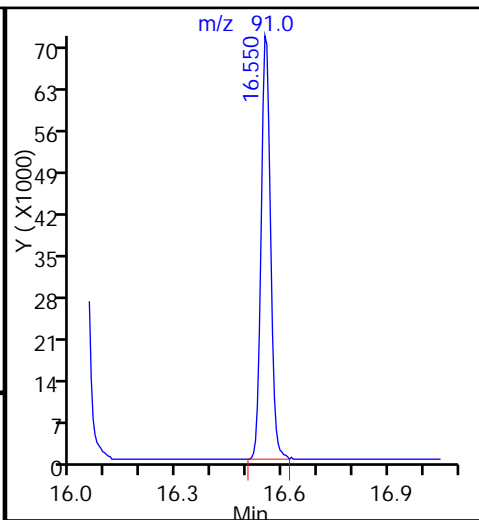
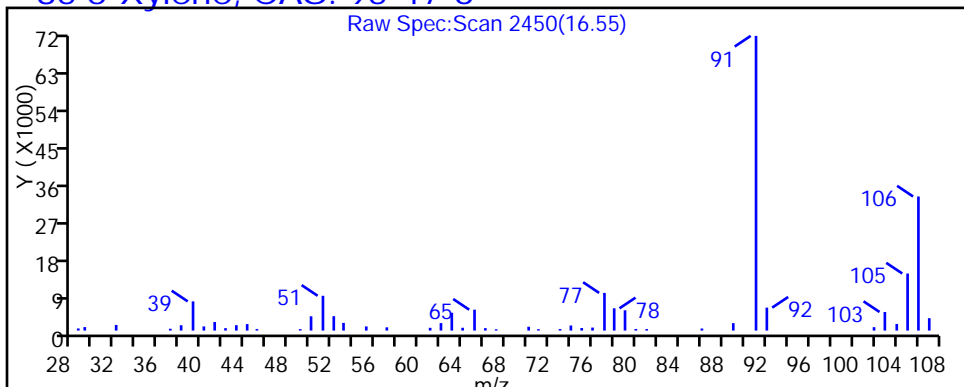
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

85 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

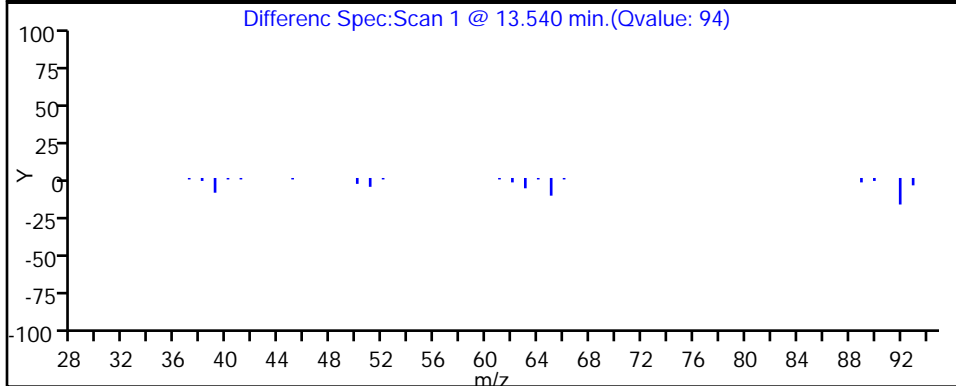
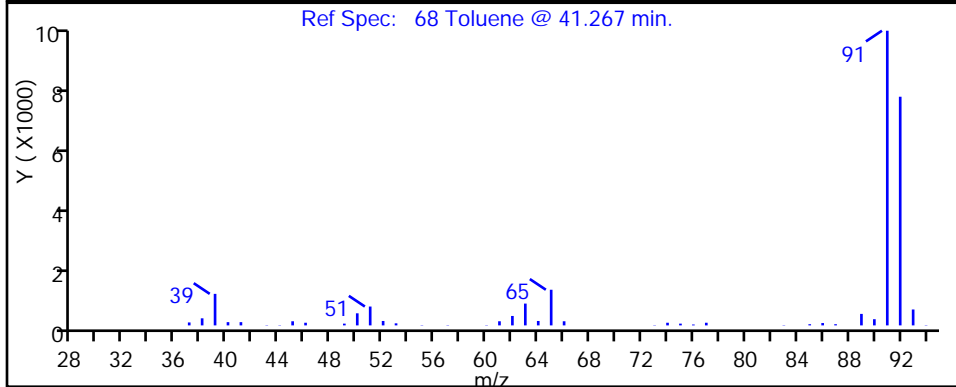
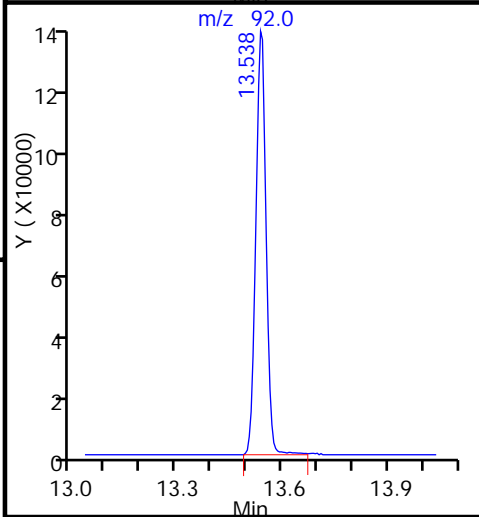
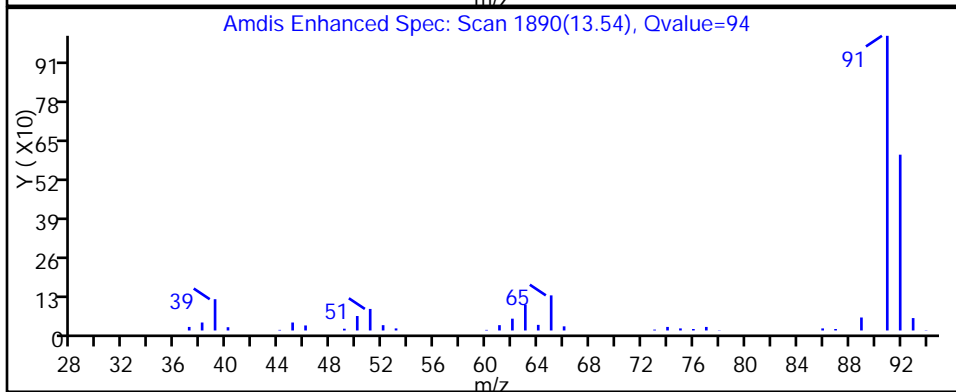
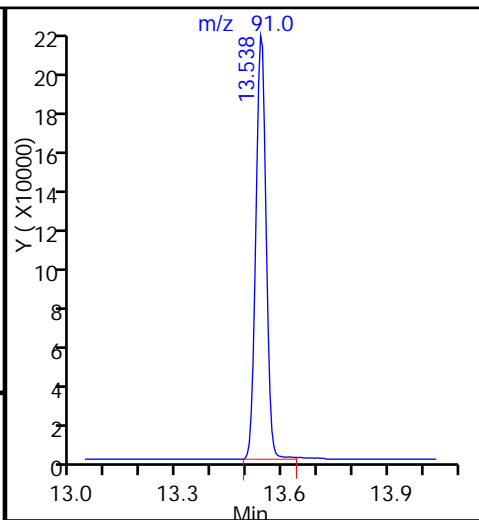
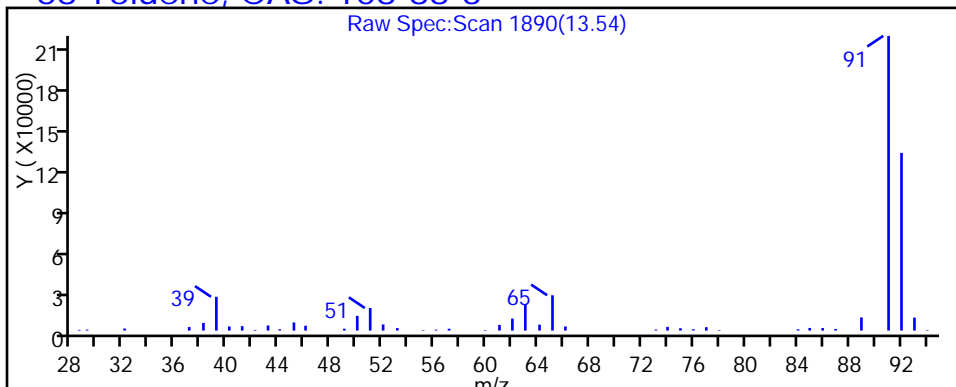
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P105.D

Injection Date: 27-Mar-2017 02:01:30

Instrument ID: MJ

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 403648

ALS Bottle#: 5 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

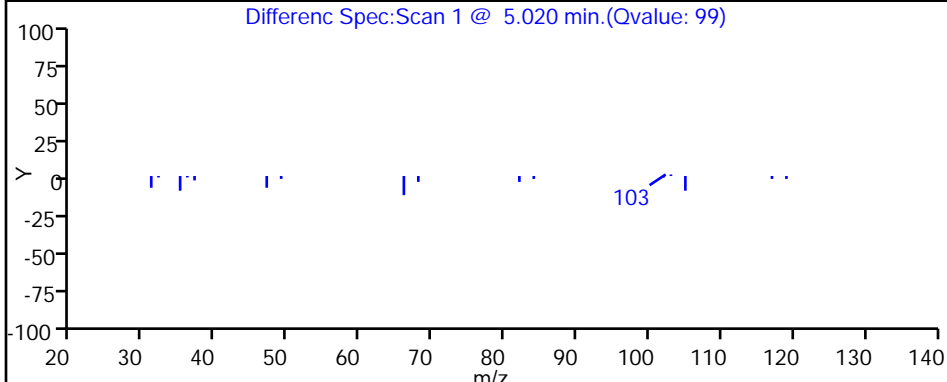
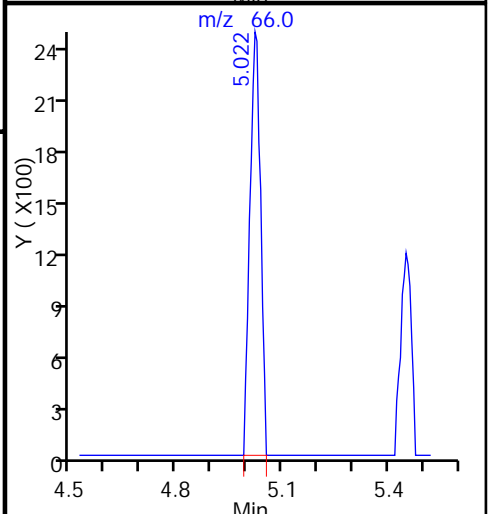
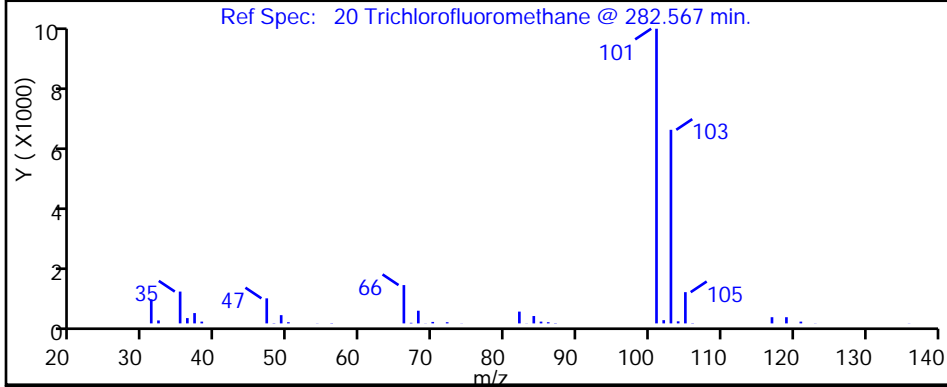
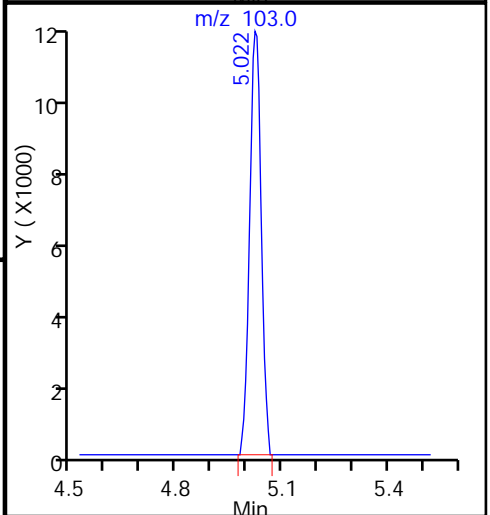
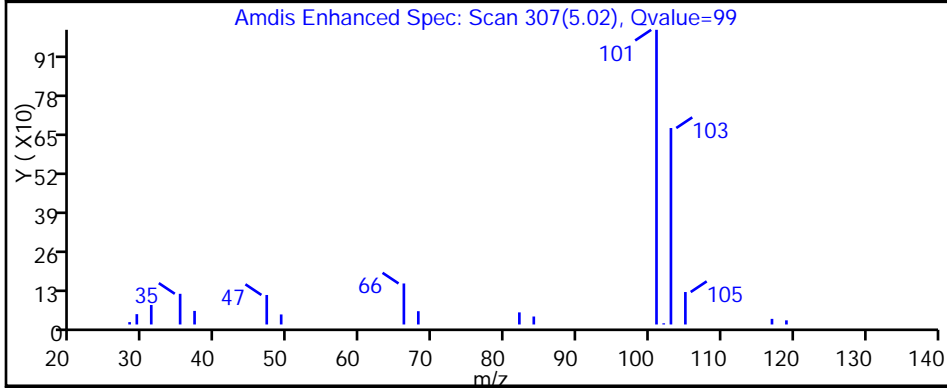
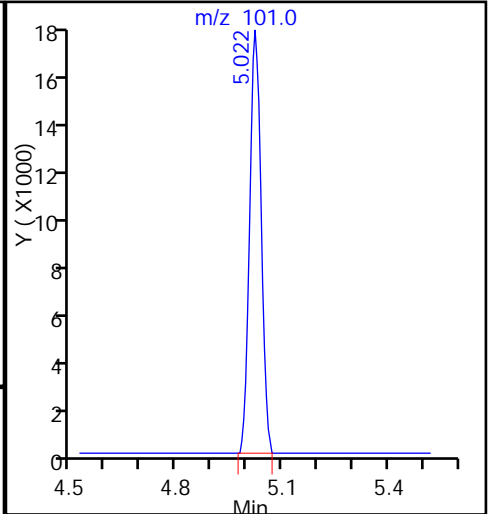
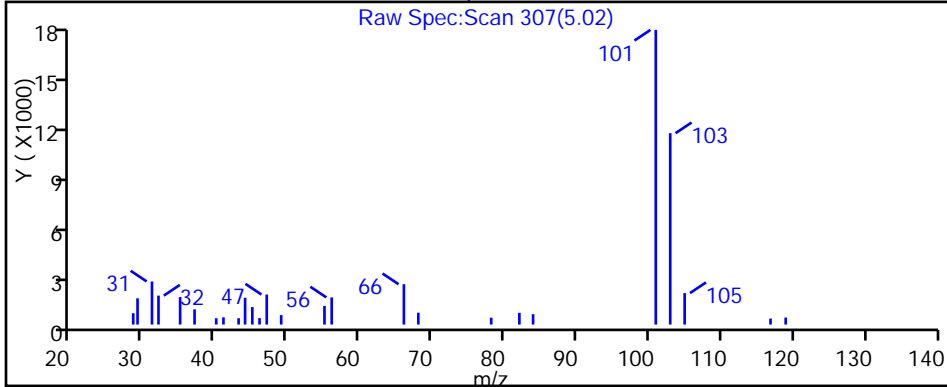
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 DL Lab Sample ID: 140-7503-5 DL
 Matrix: Air Lab File ID: GC28P113.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 40 (mL) Date Analyzed: 03/29/2017 03:47
 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.: 9922 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
64-17-5	Ethanol	46.07	590	D	25

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.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 DL Lab Sample ID: 140-7503-5 DL
 Matrix: Air Lab File ID: GC28P113.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 40 (mL) Date Analyzed: 03/29/2017 03:47
 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.: 9922 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
64-17-5	Ethanol	46.07	1100	D	47

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

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P113.D
 Lims ID: 140-7503-A-5
 Client ID: AMBIENT #3
 Sample Type: Client
 Inject. Date: 29-Mar-2017 03:47:30 ALS Bottle#: 13 Worklist Smp#: 26
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-026
 Misc. Info.: 140-7503-a-5
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:50:30 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.980	7.996	-0.016	75	227130	4.00	
* 2 1,4-Difluorobenzene	114	10.142	10.158	-0.016	95	1021851	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.022	15.028	-0.006	88	1013839	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.694	16.699	-0.005	95	813901	4.06	
8 Dichlorodifluoromethane	85	3.520	3.520	0.000	100	21838	0.0908	
9 Chloromethane	52	3.666	3.671	-0.005	97	1436	0.0888	
17 Ethanol	31	4.367	4.367	0.000	97	1087729	47.6	
20 Trichlorofluoromethane	101	4.744	4.750	-0.006	97	5058	0.0211	
31 Methylene Chloride	84	5.650	5.661	-0.011	88	5857	0.1072	
40 Hexane	56	7.333	7.338	-0.005	86	4456	0.0994	
49 Benzene	78	9.571	9.576	-0.005	96	10718	0.0617	
50 Cyclohexane	69	9.576	9.587	-0.011	62	1225	0.0419	
56 Isooctane	57	10.401	10.412	-0.011	95	17056	0.0662	
65 4-Methyl-2-pentanone (MIBK	43	12.137	12.121	0.016	97	5727	0.0574	
68 Toluene	91	13.006	13.016	-0.010	93	37444	0.1854	
79 Ethylbenzene	91	15.378	15.384	-0.006	99	11858	0.0420	
81 m-Xylene & p-Xylene	91	15.540	15.556	-0.016	99	33782	0.1483	
85 o-Xylene	91	16.074	16.079	-0.005	96	13993	0.0601	
92 1,3,5-Trimethylbenzene	120	17.357	17.487	-0.130	84	7023	0.0470	
96 1,2,4-Trimethylbenzene	105	17.940	17.950	-0.010	98	25684	0.0897	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P113.D

Injection Date: 29-Mar-2017 03:47:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Worklist Smp#: 26

Client ID: AMBIENT #3

Purge Vol: 500.000 mL

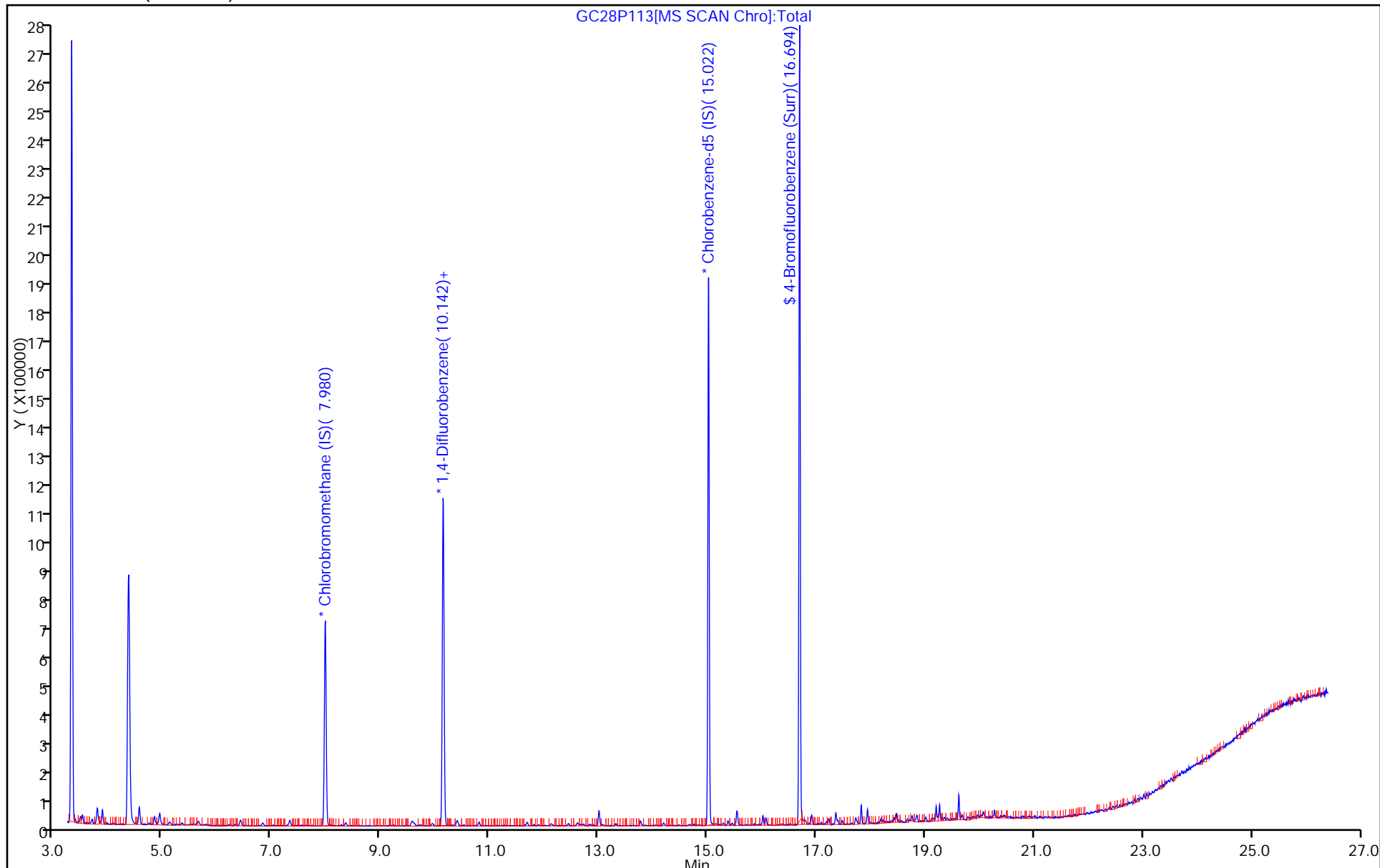
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P113.D
 Lims ID: 140-7503-A-5
 Client ID: AMBIENT #3
 Sample Type: Client
 Inject. Date: 29-Mar-2017 03:47:30 ALS Bottle#: 13 Worklist Smp#: 26
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-026
 Misc. Info.: 140-7503-a-5
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:50:30 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.06	101.56

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P113.D

Injection Date: 29-Mar-2017 03:47:30

Instrument ID: MG

Lims ID: 140-7503-A-5

Lab Sample ID: 140-7503-5

Client ID: AMBIENT #3

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 26

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

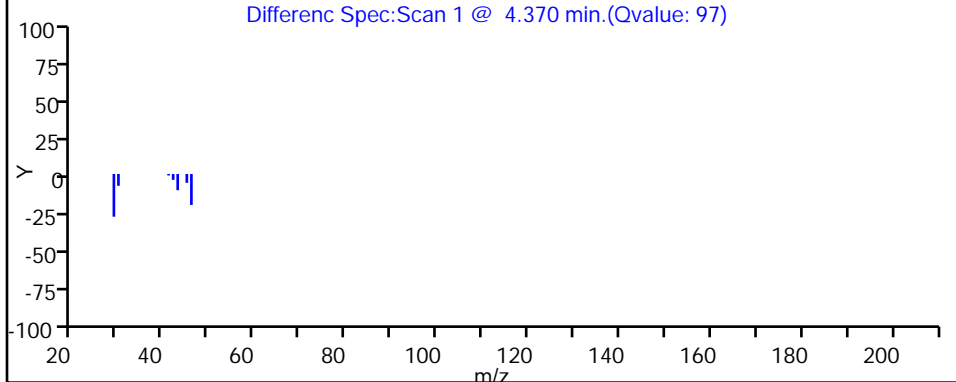
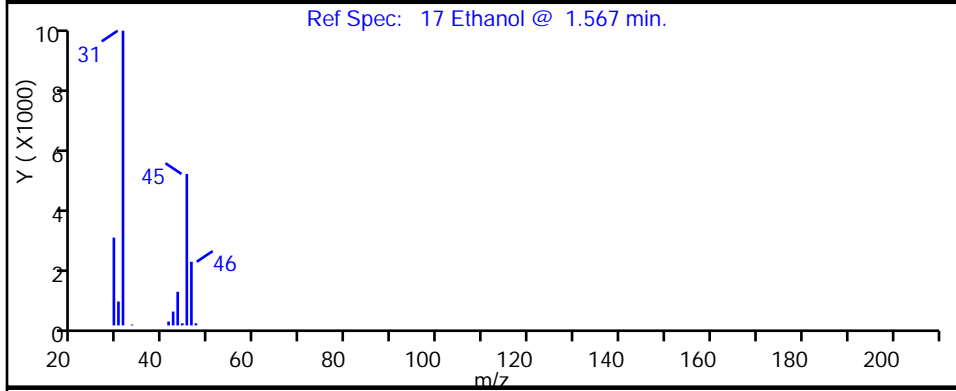
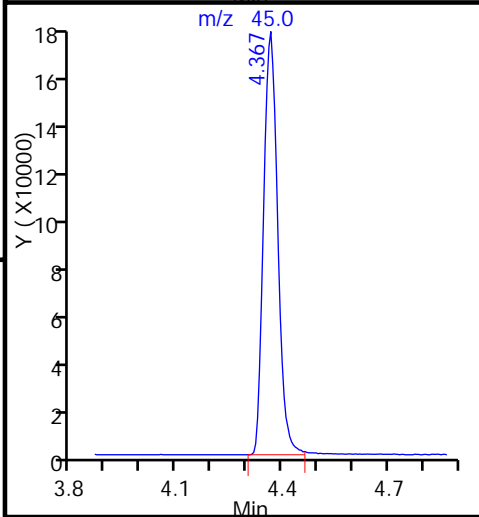
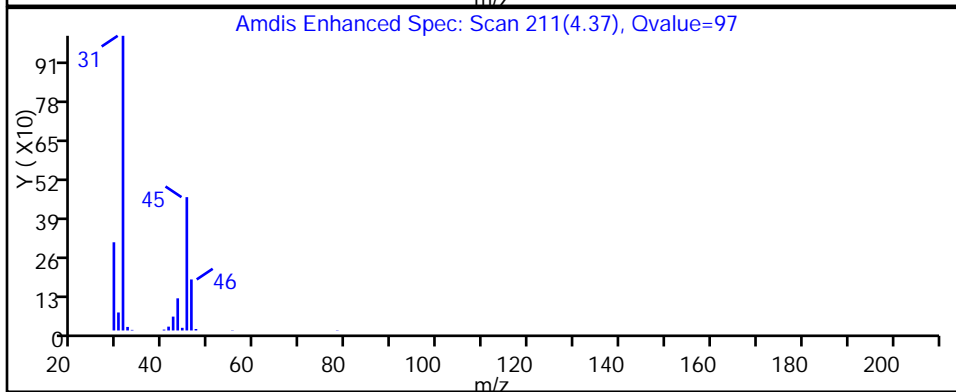
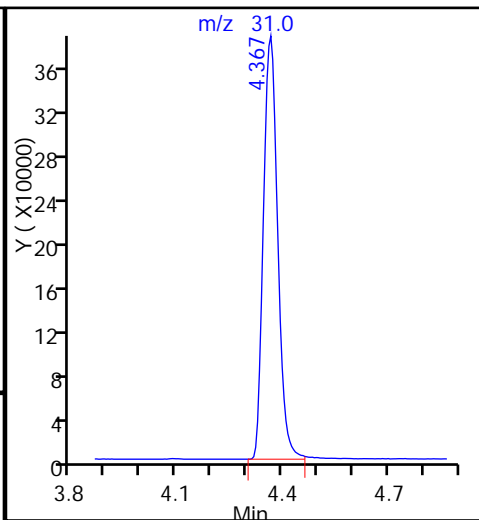
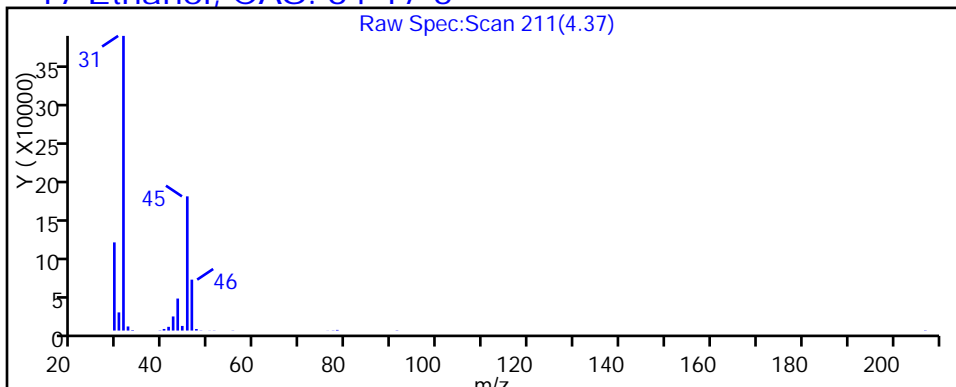
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: OUTDOOR AMBIENT #1 Lab Sample ID: 140-7503-6
 Matrix: Air Lab File ID: JC26P106.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:11
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 03:36
 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.: 9850 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
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20
78-93-3	2-Butanone	72.11	0.35		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20
71-43-2	Benzene	78.11	0.23		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	0.071		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	ND		0.080
67-66-3	Chloroform	119.38	ND		0.080
74-87-3	Chloromethane	50.49	0.65		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	ND		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: OUTDOOR AMBIENT #1 Lab Sample ID: 140-7503-6
 Matrix: Air Lab File ID: JC26P106.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:11
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 03:36
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.080	
75-71-8	Dichlorodifluoromethane	120.91	0.49		0.080	
64-17-5	Ethanol	46.07	7.6		2.0	
100-41-4	Ethylbenzene	106.17	ND		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	ND		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	0.35		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	0.24		0.080	
95-47-6	o-Xylene	106.17	0.089		0.080	
100-42-5	Styrene	104.15	ND		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
108-88-3	Toluene	92.14	0.38		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-69-4	Trichlorofluoromethane	137.37	0.24		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: OUTDOOR AMBIENT #1 Lab Sample ID: 140-7503-6
 Matrix: Air Lab File ID: JC26P106.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:11
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 03:36
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93
78-93-3	2-Butanone	72.11	1.0		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82
71-43-2	Benzene	78.11	0.72		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.45		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	ND		0.39
74-87-3	Chloromethane	50.49	1.3		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: OUTDOOR AMBIENT #1 Lab Sample ID: 140-7503-6
 Matrix: Air Lab File ID: JC26P106.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:11
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 03:36
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.40
64-17-5	Ethanol	46.07	14		3.8
100-41-4	Ethylbenzene	106.17	ND		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	ND		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	1.2		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	1.1		0.35
95-47-6	o-Xylene	106.17	0.39		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	ND		0.54
108-88-3	Toluene	92.14	1.4		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	1.3		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D
 Lims ID: 140-7503-A-6
 Client ID: OUTDOOR AMBIENT #1
 Sample Type: Client
 Inject. Date: 27-Mar-2017 03:36:30 ALS Bottle#: 6 Worklist Smp#: 22
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-022
 Misc. Info.: 140-7503-a-6
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh

Date: 27-Mar-2017 15:39:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.541	8.547	-0.006	96	219336	4.00	
* 2 1,4-Difluorobenzene	114	10.741	10.748	-0.007	95	1019898	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.524	15.524	0.000	88	924222	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.170	17.171	-0.001	94	625487	3.88	
8 Dichlorodifluoromethane	85	3.624	3.625	-0.001	100	91666	0.4876	
9 Chloromethane	52	3.796	3.797	-0.001	99	13307	0.6454	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.796	3.803	-0.007	34	1440	0.0173	
17 Ethanol	31	4.566	4.566	0.000	97	98242	7.60	
20 Trichlorofluoromethane	101	5.023	5.024	-0.001	100	40574	0.2351	
28 2-Methyl-2-propanol	59	5.824	5.804	0.020	88	4889	0.0601	
30 1,1,2-Trichloro-1,2,2-trif	101	5.878	5.879	-0.001	93	9235	0.0661	
31 Methylene Chloride	84	6.045	6.046	-0.001	99	23984	0.3539	
39 2-Butanone (MEK)	72	7.809	7.810	-0.001	85	5653	0.3503	
40 Hexane	56	7.820	7.821	-0.001	71	10378	0.1803	
44 Chloroform	83	8.557	8.563	-0.006	27	3624	0.0250	
50 Cyclohexane	69	10.176	10.188	-0.012	52	2596	0.0843	
51 Benzene	78	10.182	10.188	-0.006	98	45145	0.2258	
52 Carbon tetrachloride	117	10.203	10.210	-0.007	97	10986	0.0712	
56 Isooctane	57	10.967	10.968	-0.001	97	53757	0.1557	
65 4-Methyl-2-pentanone (MIBK	43	12.678	12.668	0.010	97	15161	0.1771	
68 Toluene	91	13.539	13.539	0.000	94	74255	0.3800	
76 Tetrachloroethene	129	14.690	14.691	-0.001	94	2619	0.0323	
79 Ethylbenzene	91	15.862	15.863	-0.001	98	14353	0.0650	
81 m-Xylene & p-Xylene	91	16.024	16.030	-0.006	99	38775	0.2429	
85 o-Xylene	91	16.551	16.552	-0.001	99	14486	0.0890	
96 1,2,4-Trimethylbenzene	105	18.359	18.365	-0.006	97	9021	0.0617	

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Worklist Smp#: 22

Client ID: OUTDOOR AMBIENT #1

Purge Vol: 500.000 mL

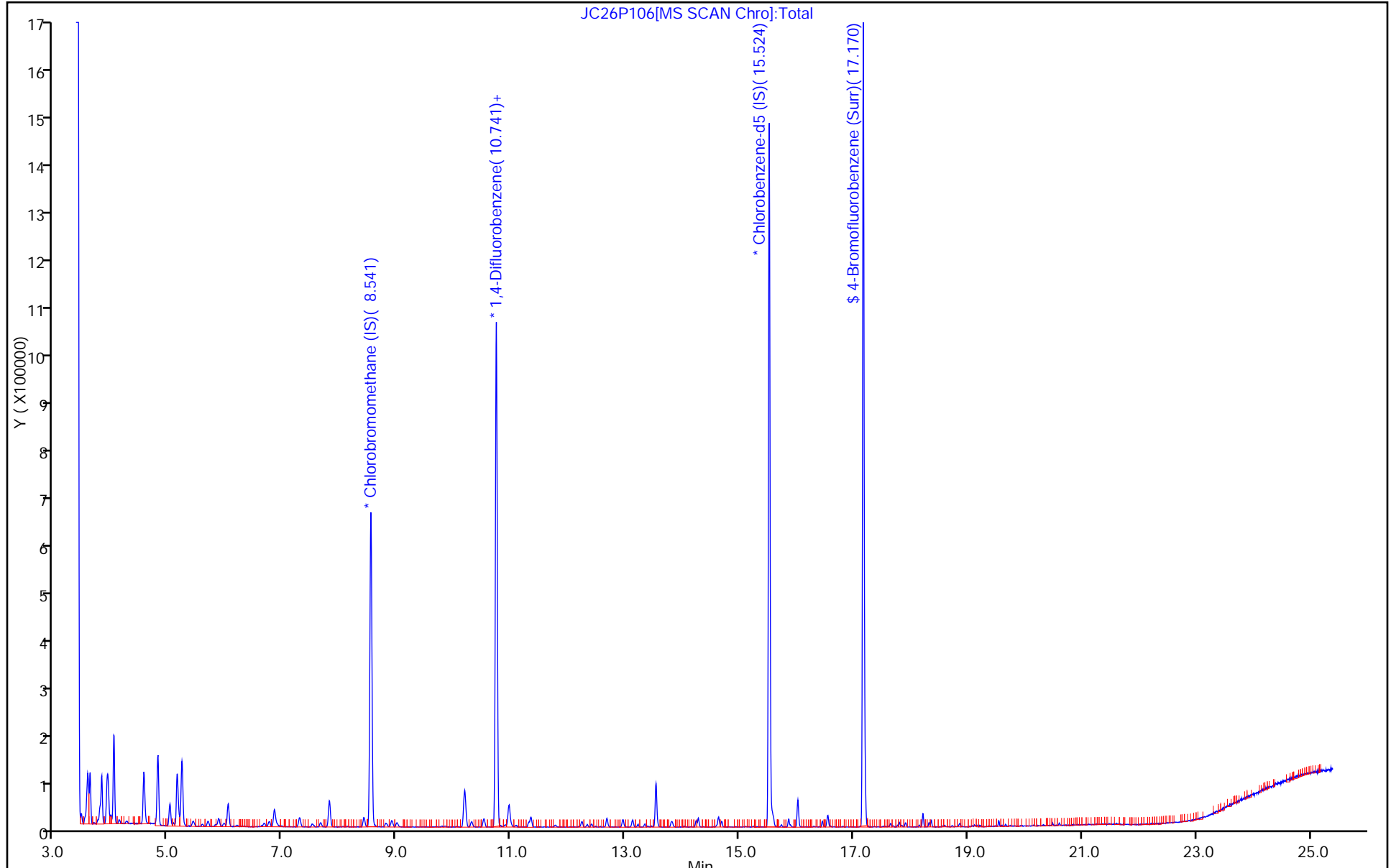
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D
 Lims ID: 140-7503-A-6
 Client ID: OUTDOOR AMBIENT #1
 Sample Type: Client
 Inject. Date: 27-Mar-2017 03:36:30 ALS Bottle#: 6 Worklist Smp#: 22
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-022
 Misc. Info.: 140-7503-a-6
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh Date: 27-Mar-2017 15:39:44

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	3.88	96.93

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Client ID: OUTDOOR AMBIENT #1

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

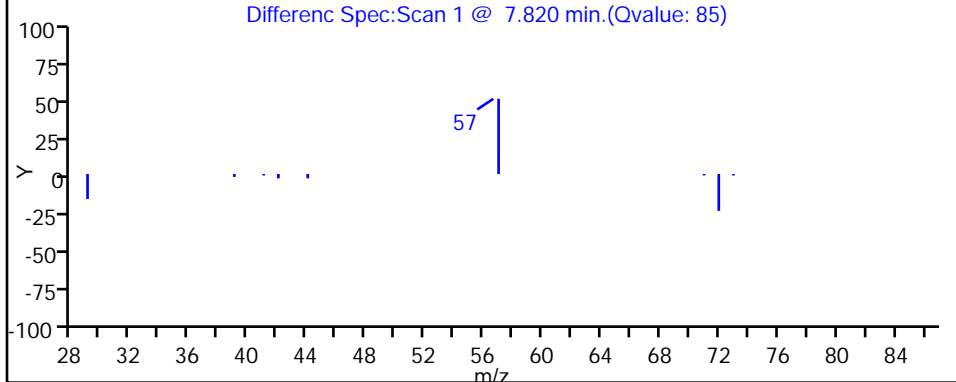
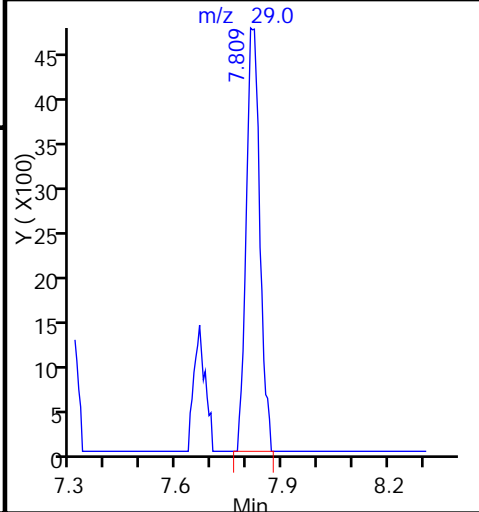
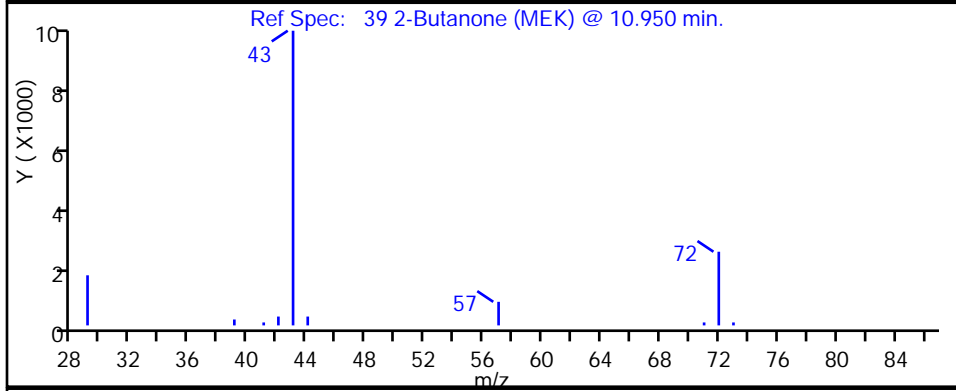
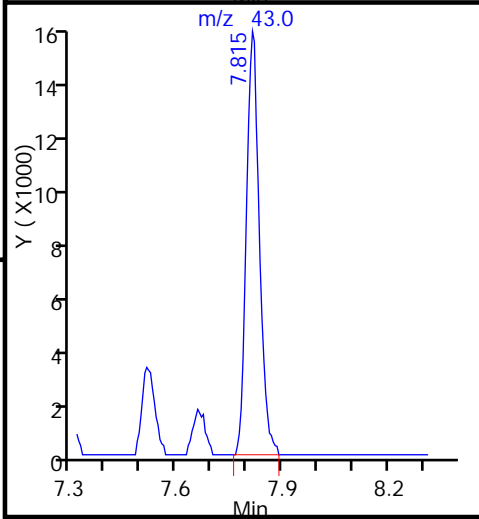
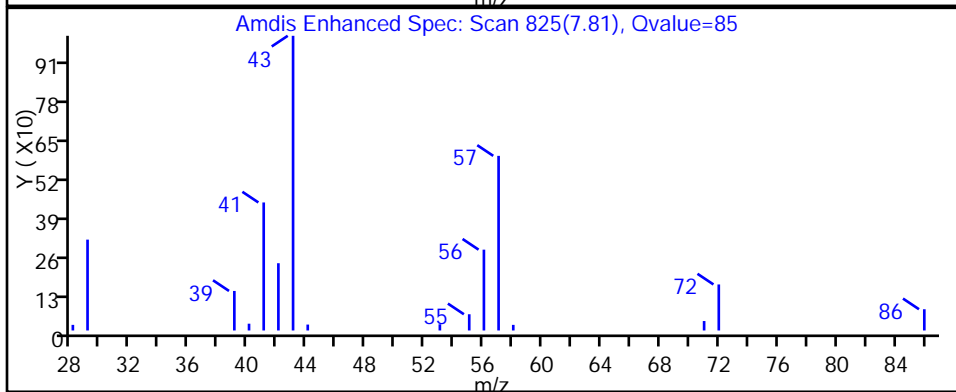
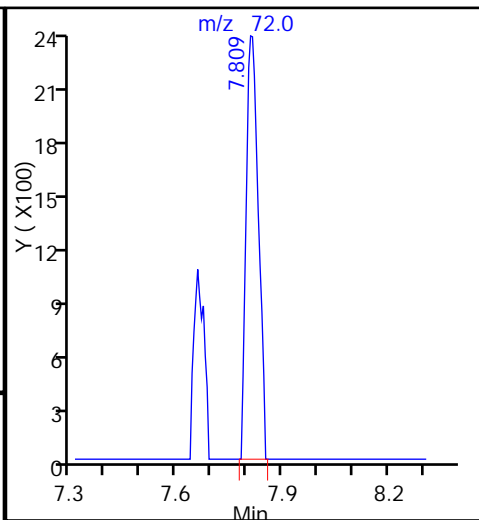
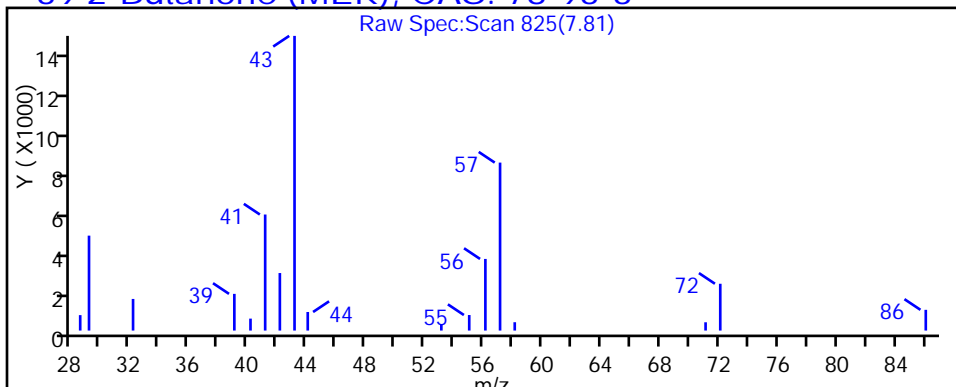
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Client ID: OUTDOOR AMBIENT #1

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

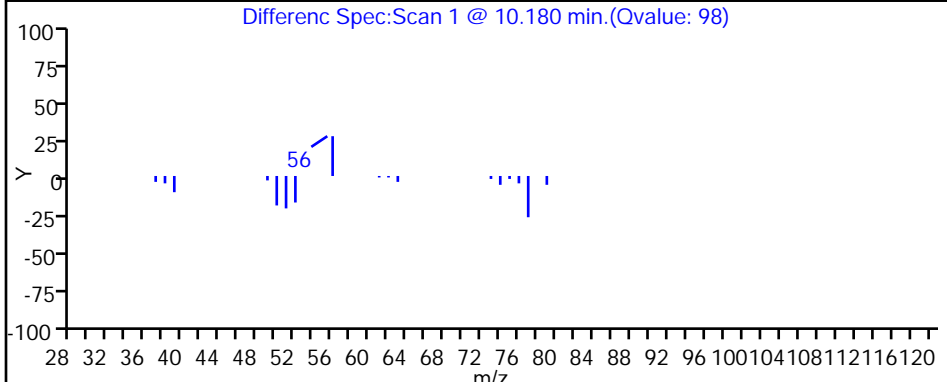
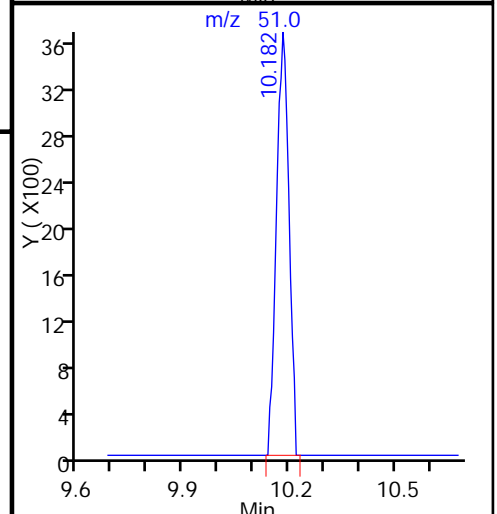
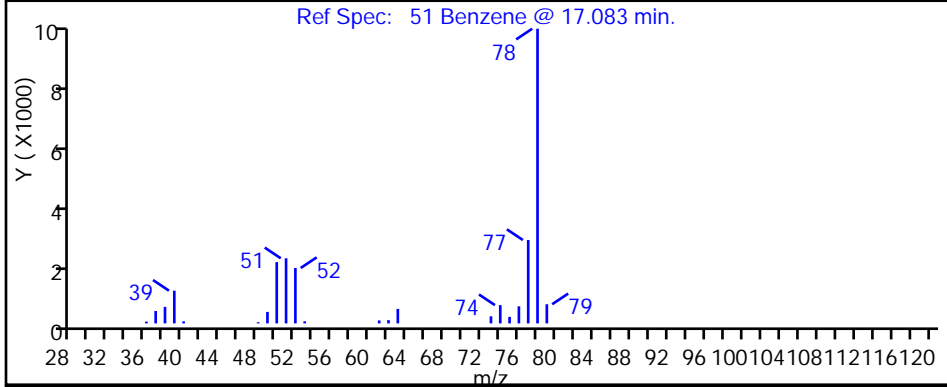
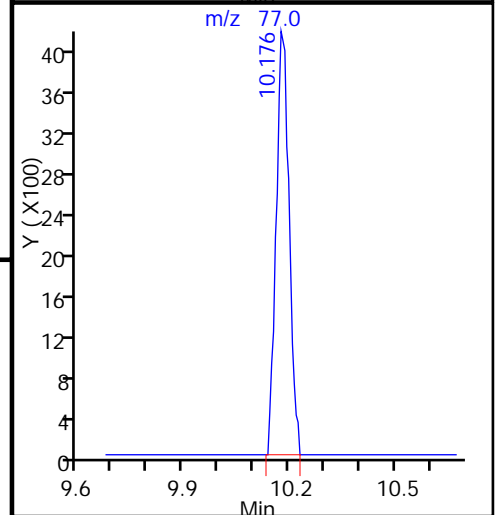
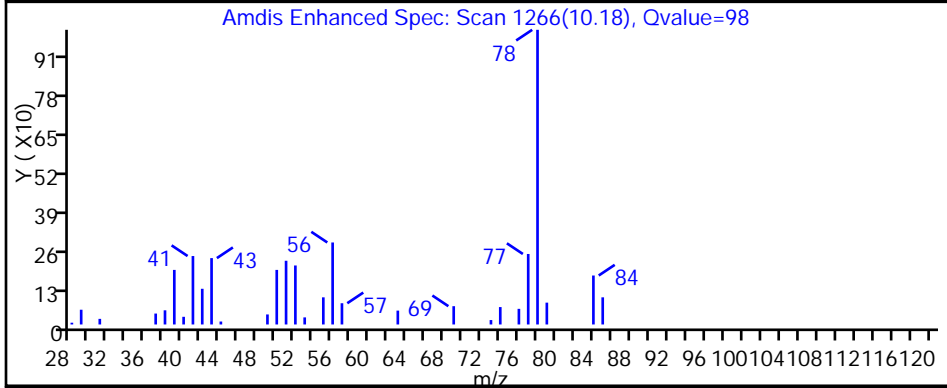
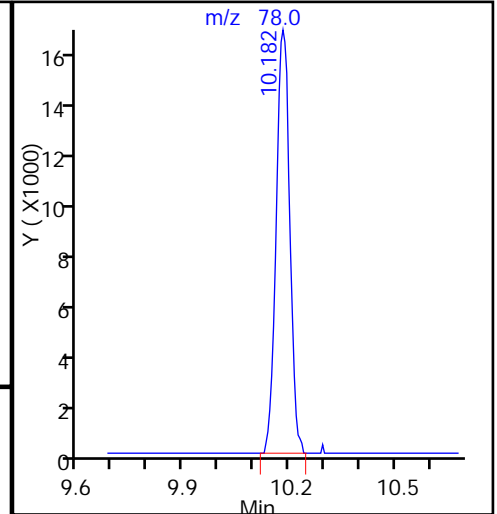
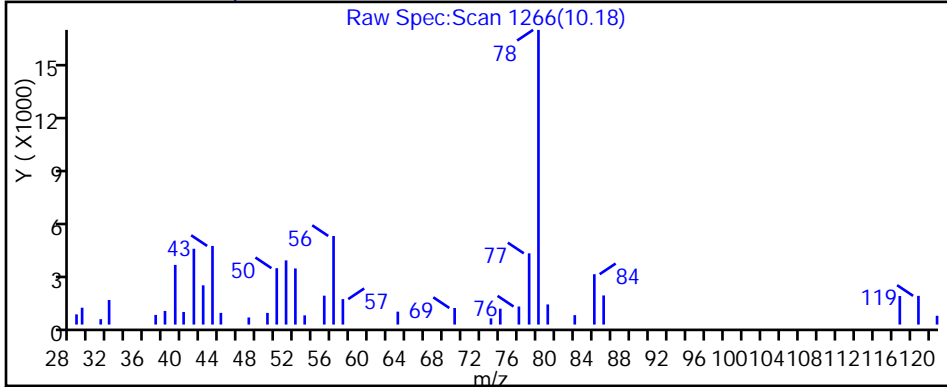
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

51 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Client ID: OUTDOOR AMBIENT #1

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

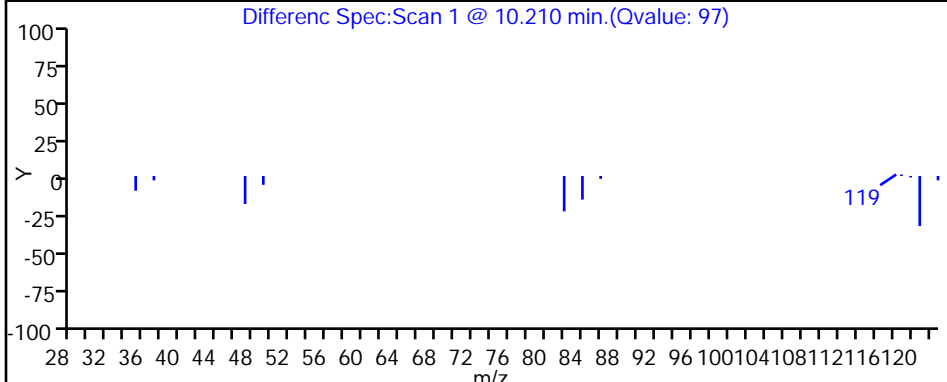
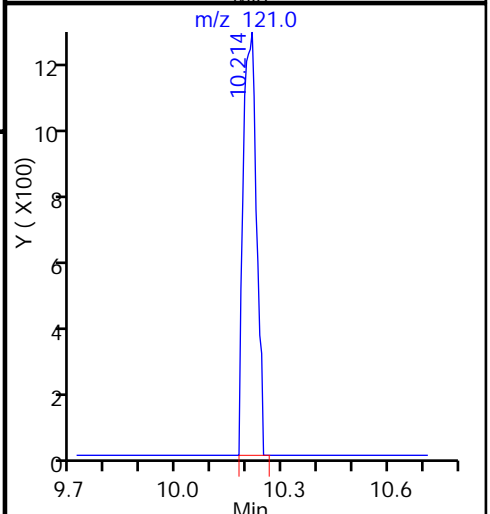
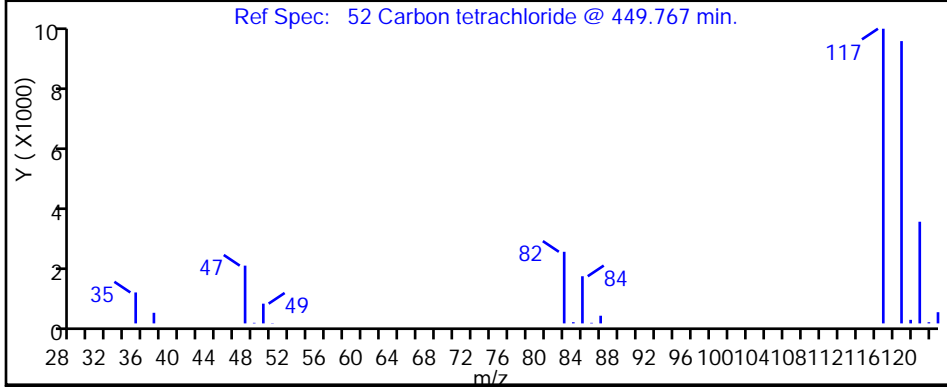
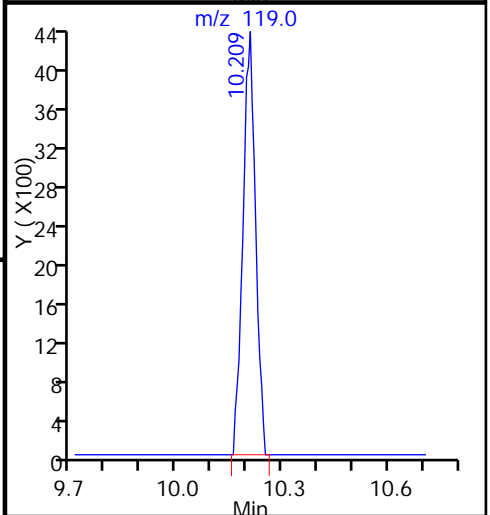
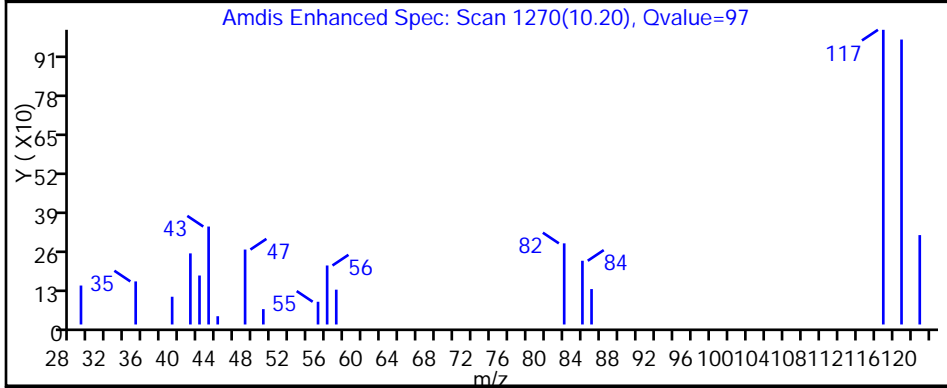
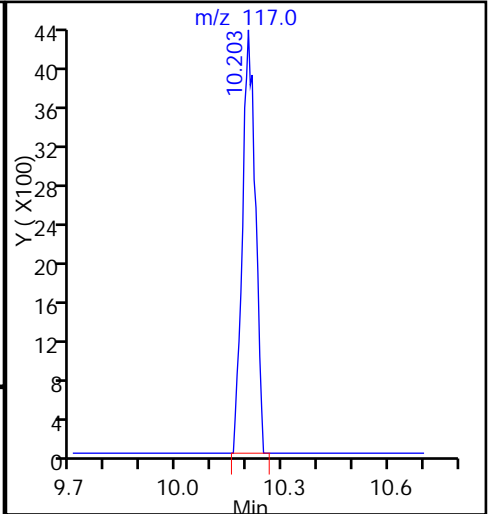
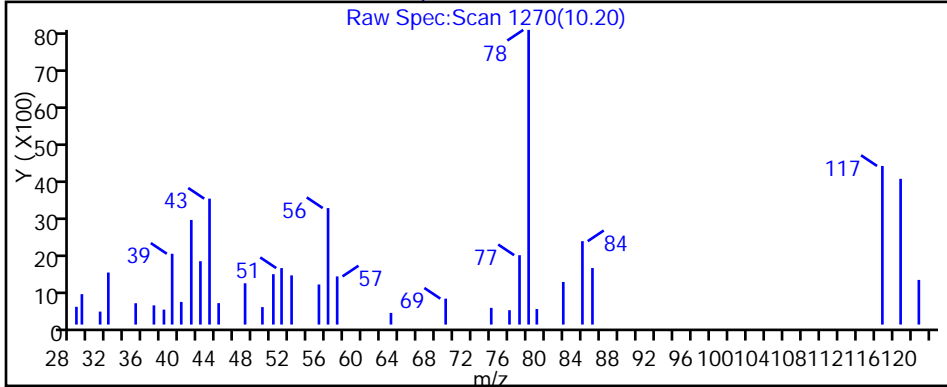
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Client ID: OUTDOOR AMBIENT #1

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

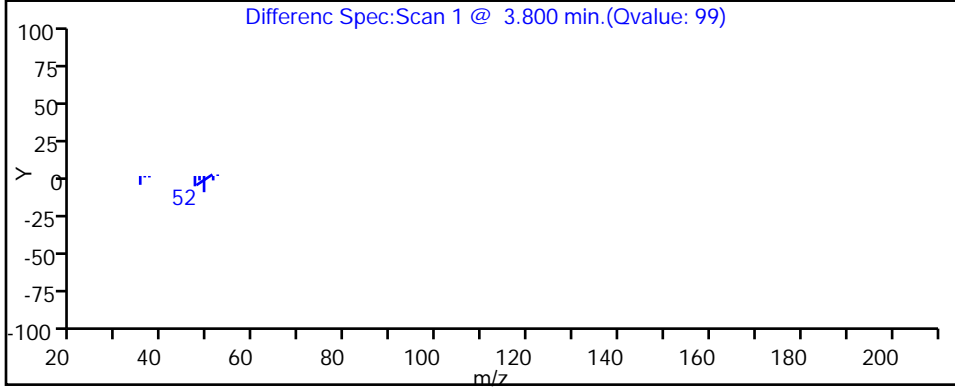
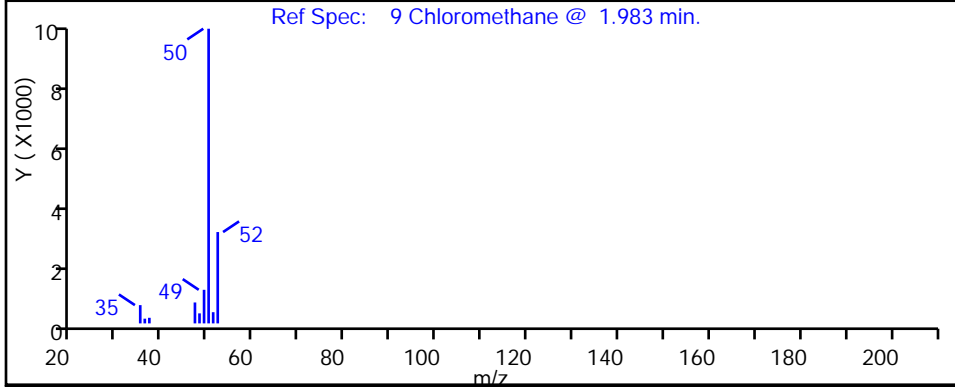
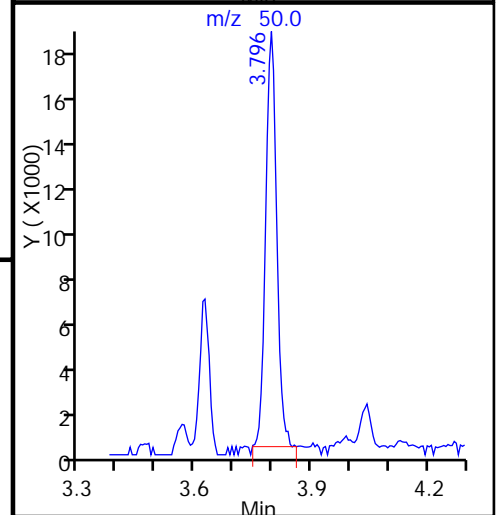
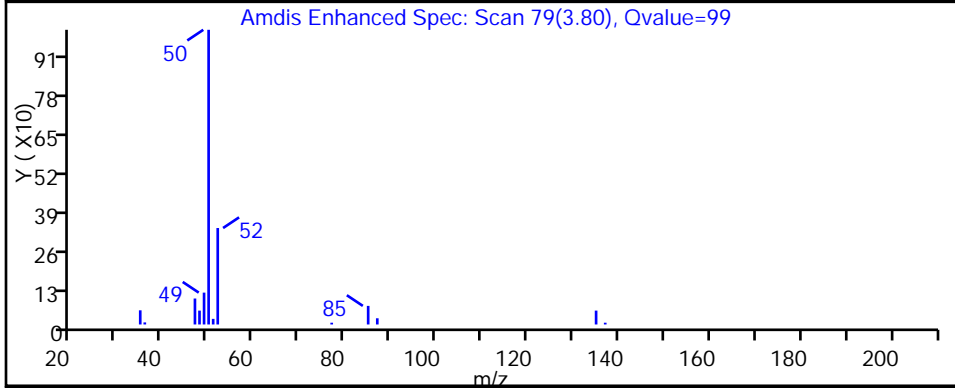
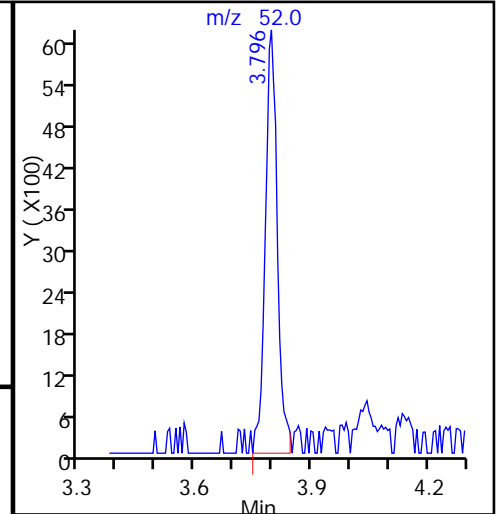
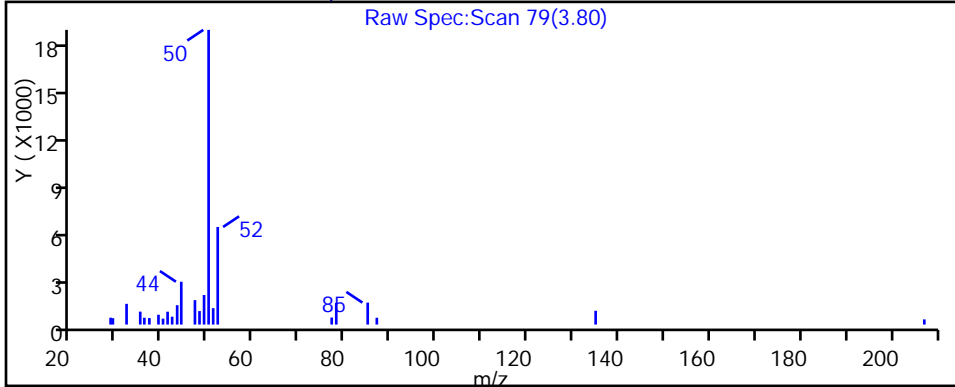
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Client ID: OUTDOOR AMBIENT #1

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

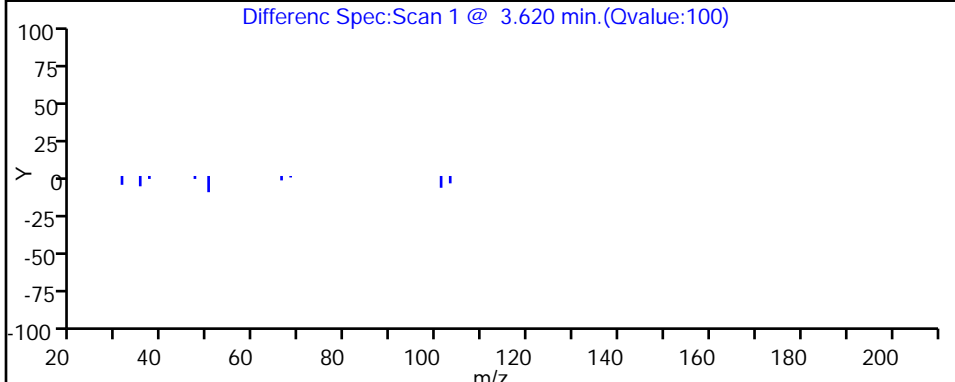
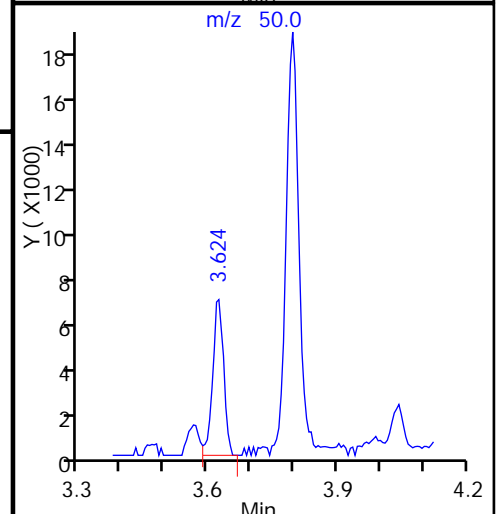
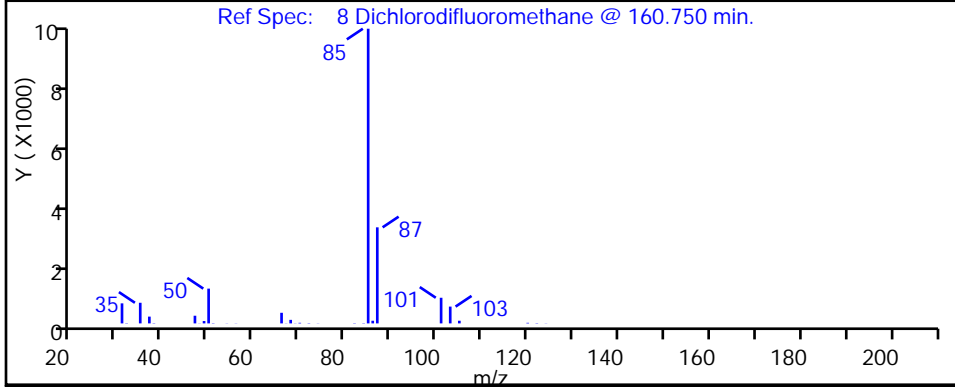
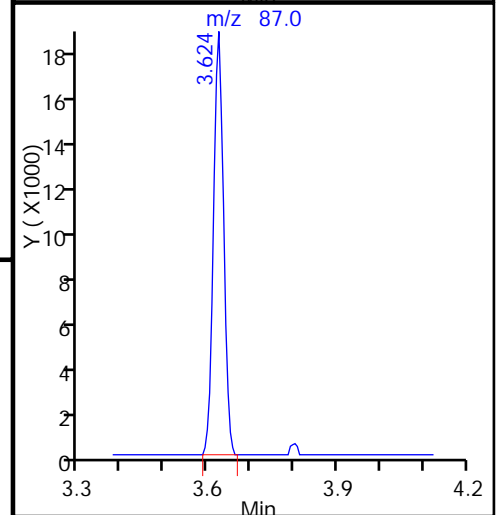
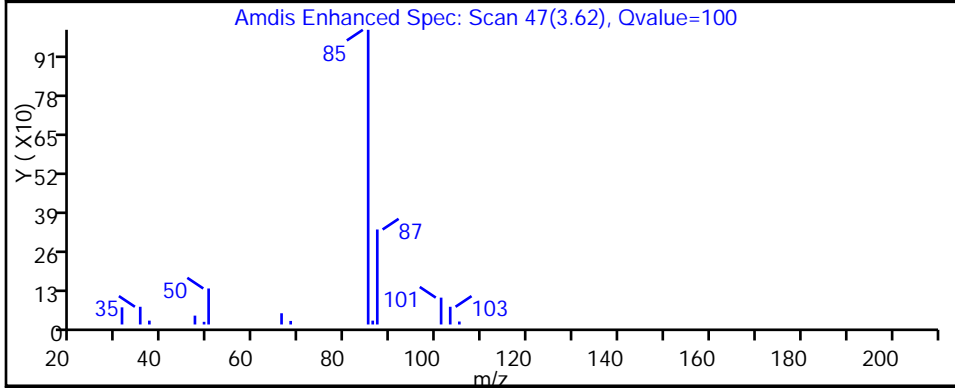
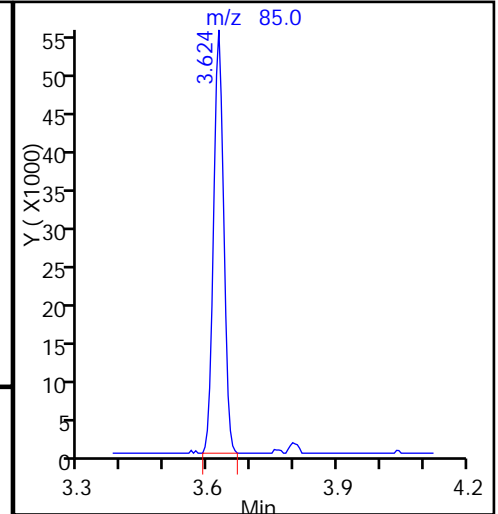
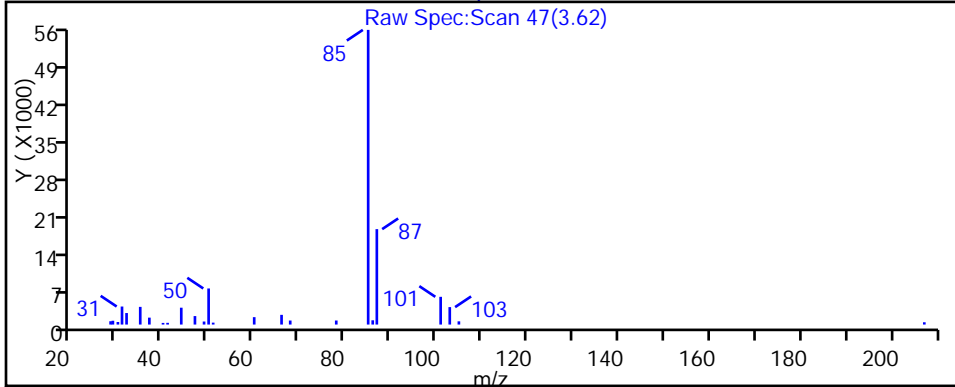
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Client ID: OUTDOOR AMBIENT #1

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

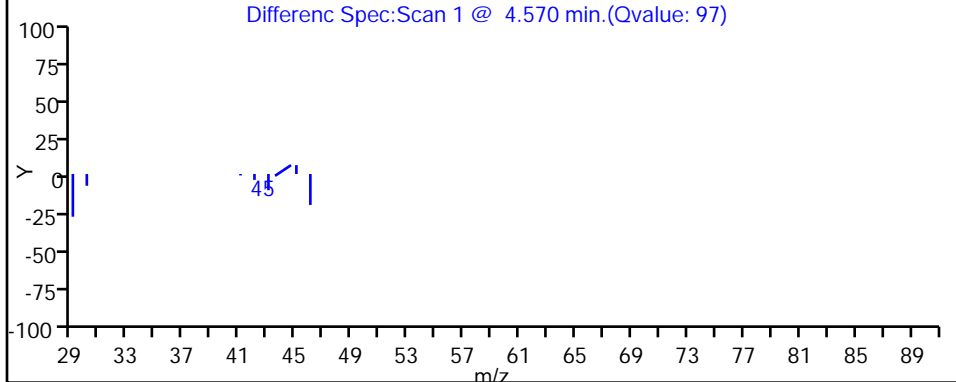
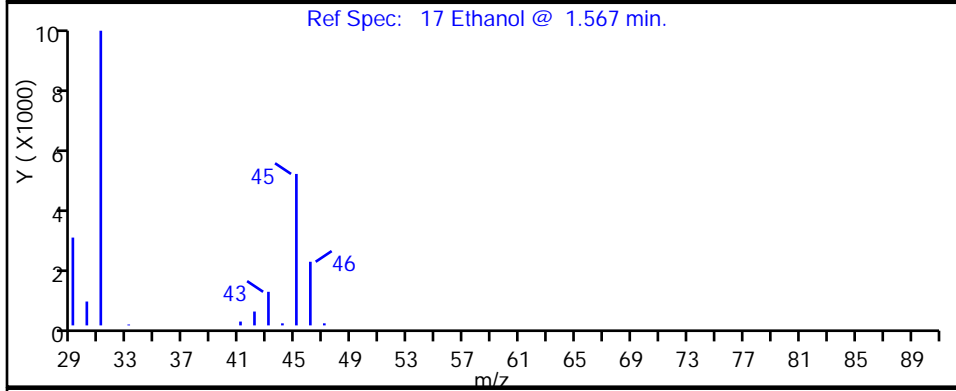
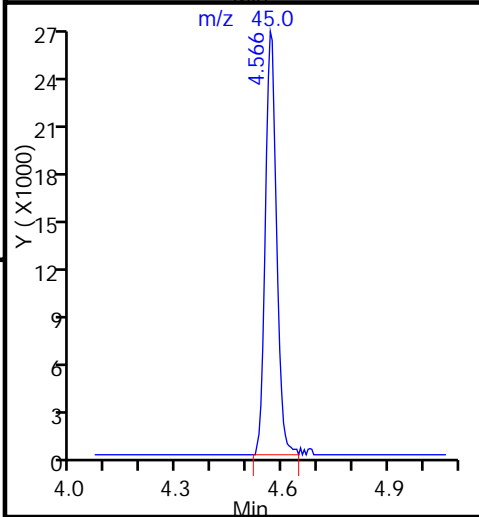
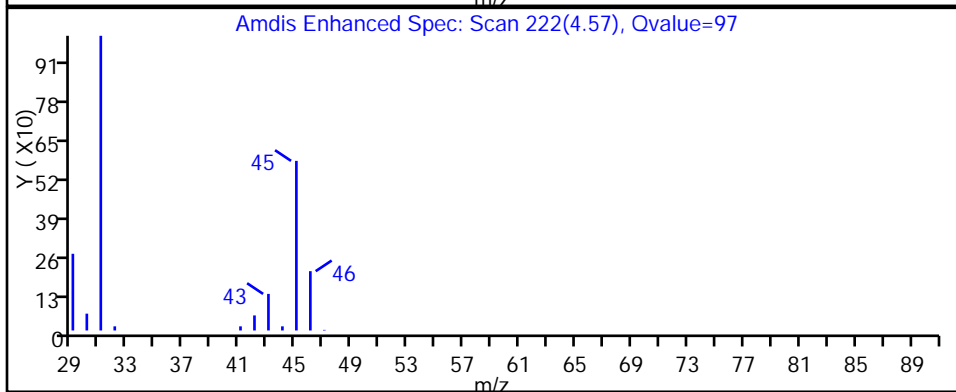
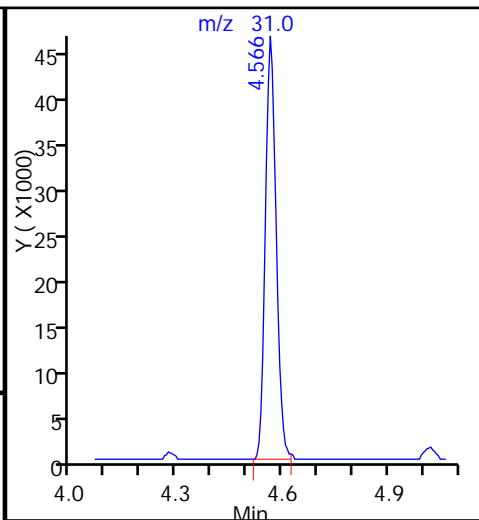
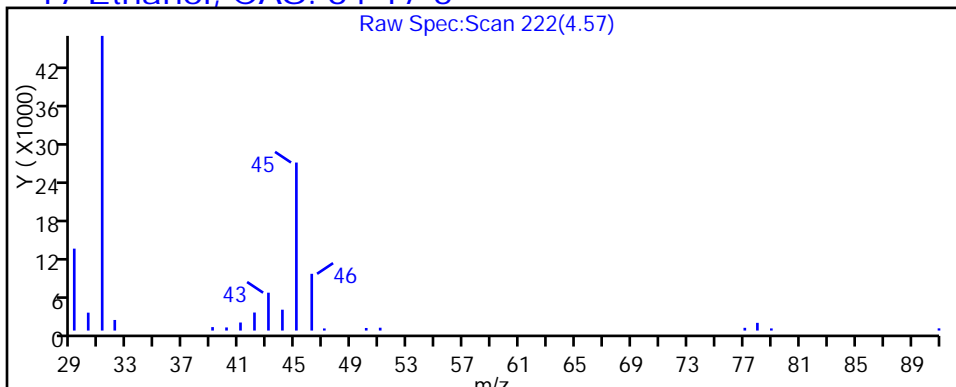
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Client ID: OUTDOOR AMBIENT #1

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

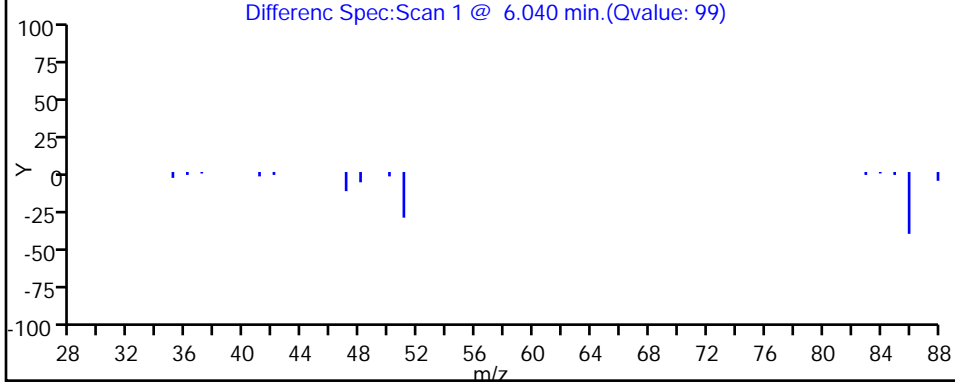
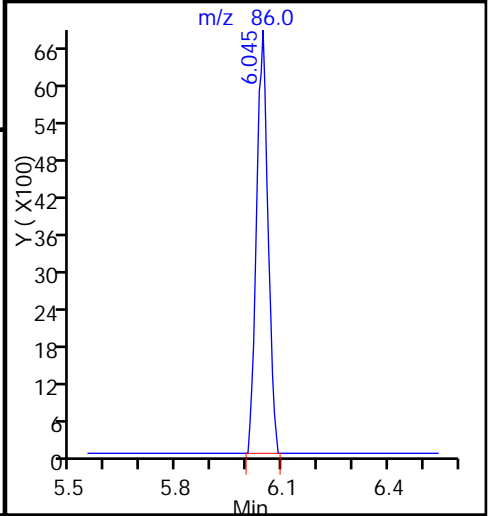
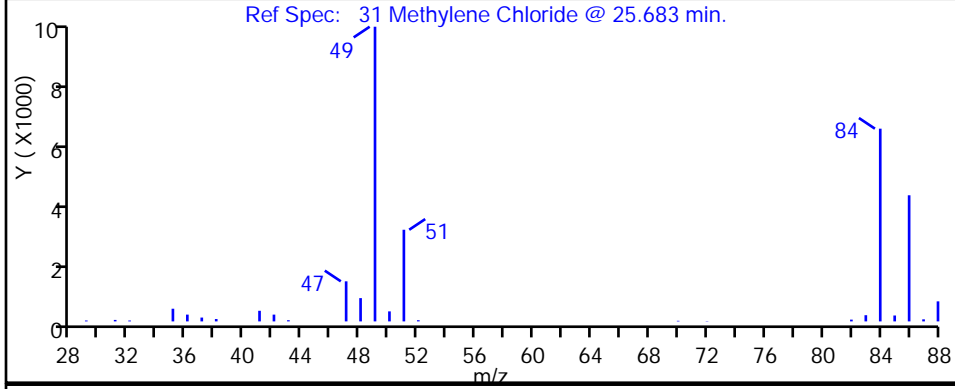
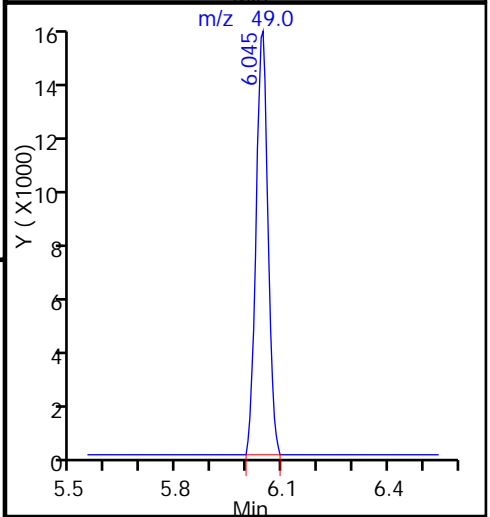
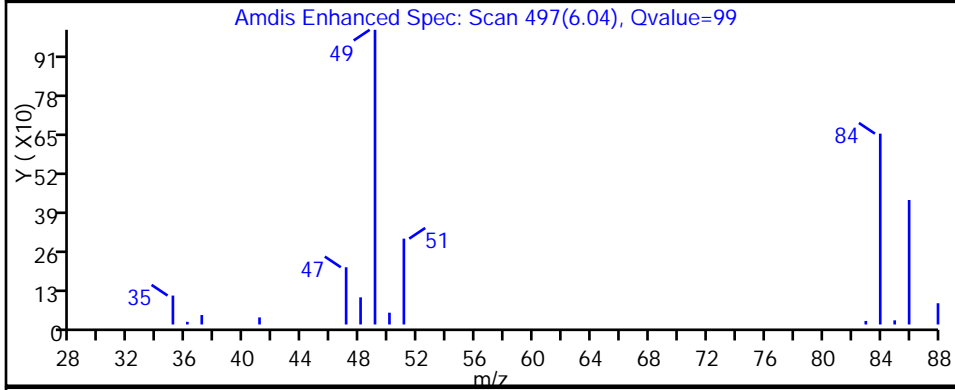
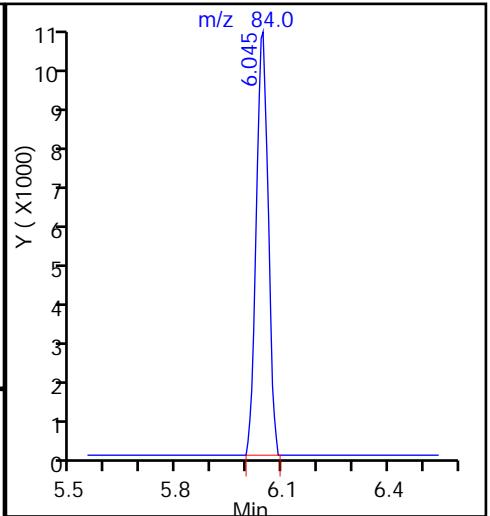
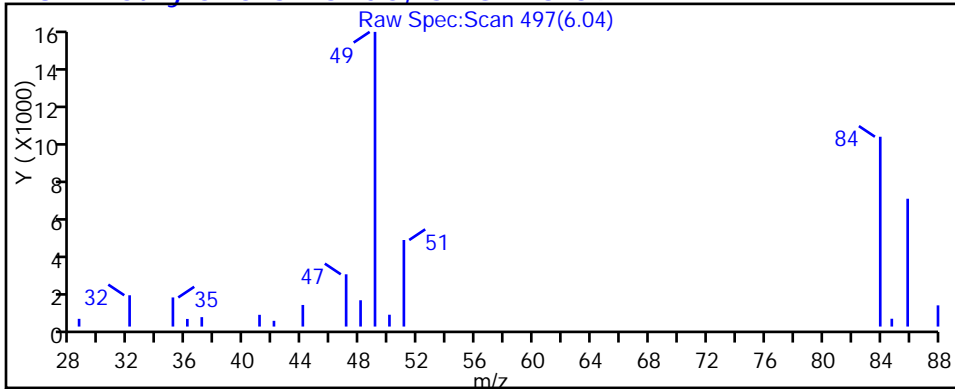
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Client ID: OUTDOOR AMBIENT #1

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

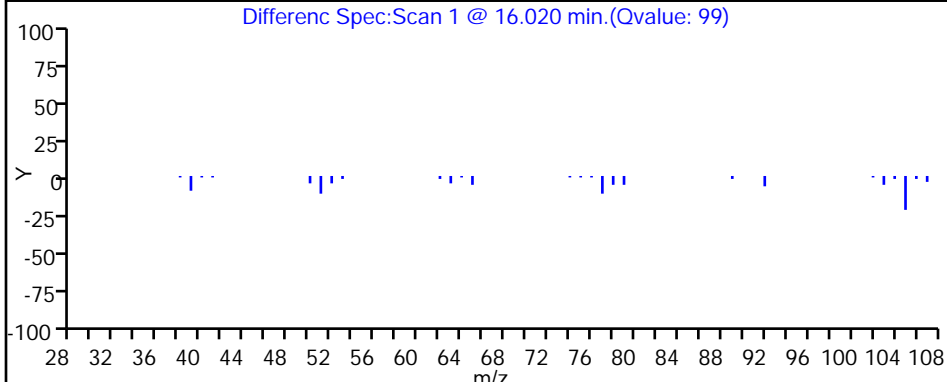
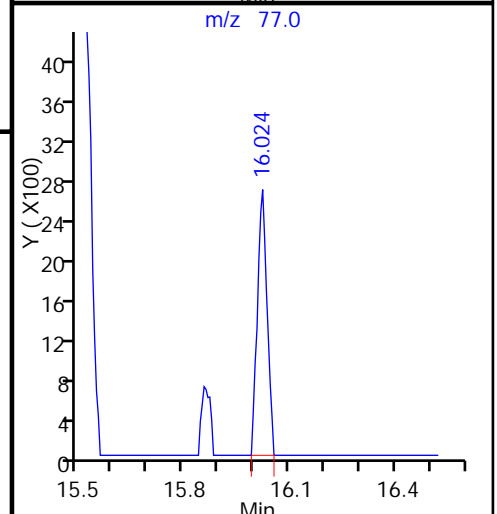
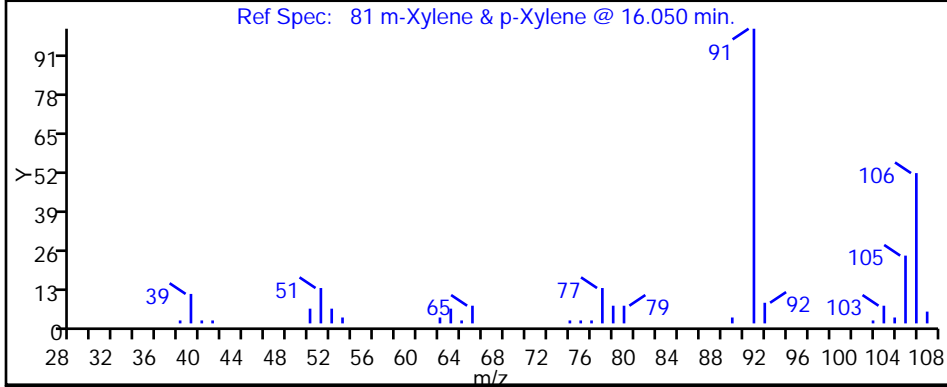
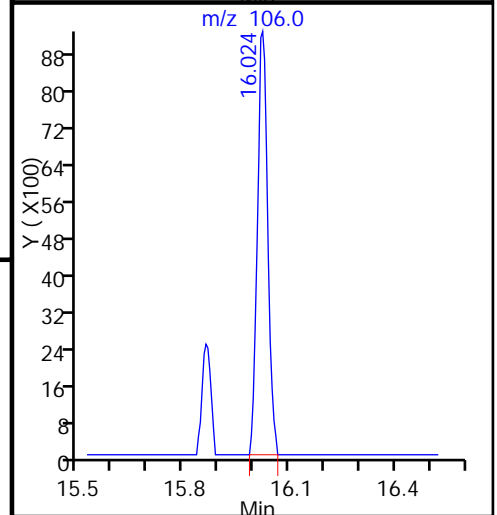
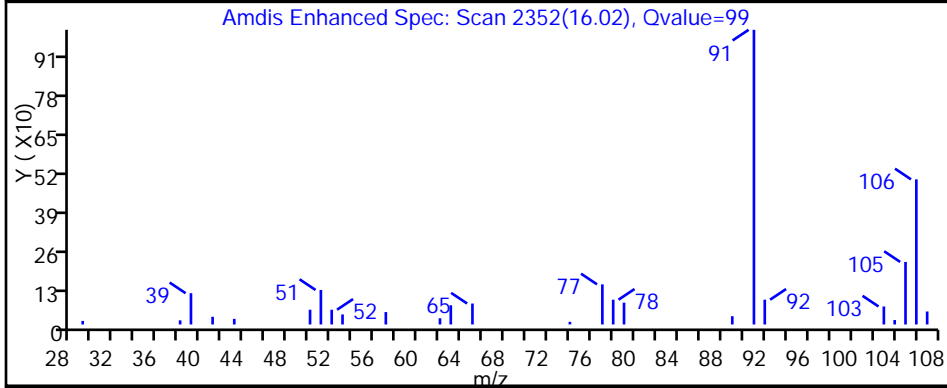
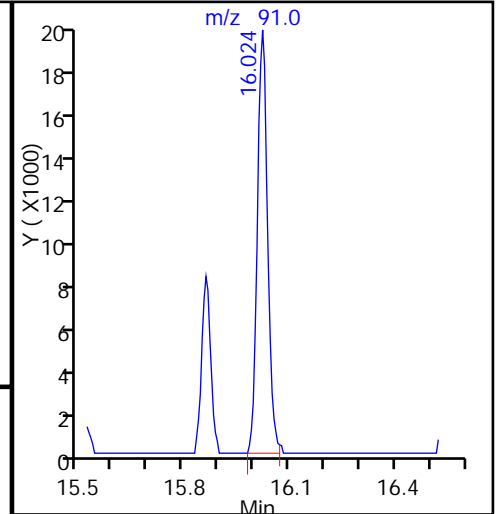
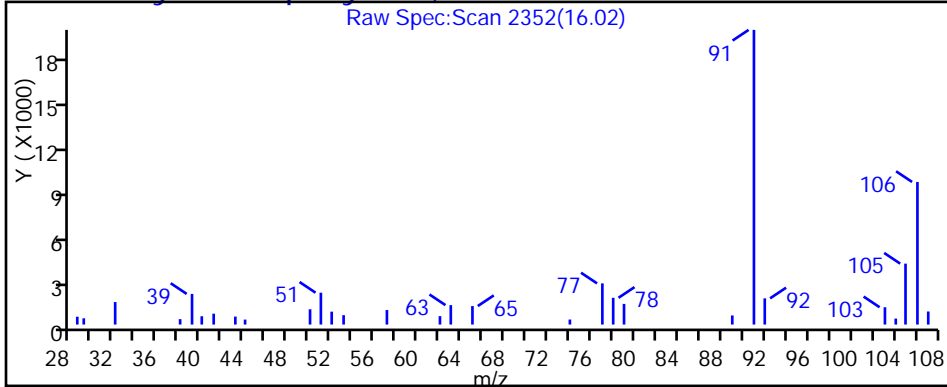
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Client ID: OUTDOOR AMBIENT #1

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

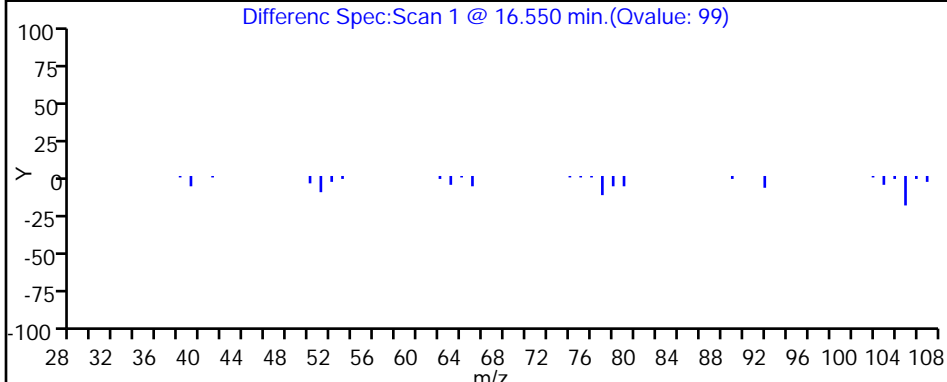
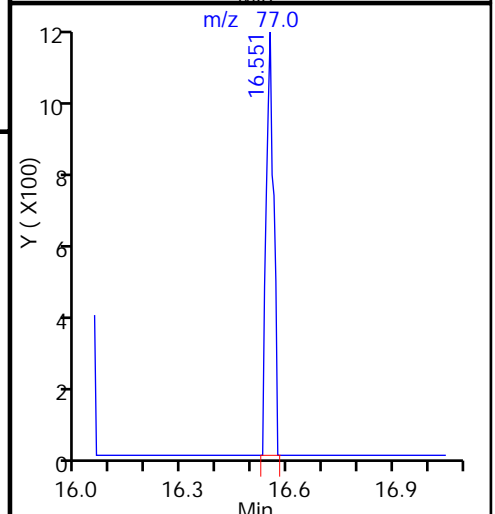
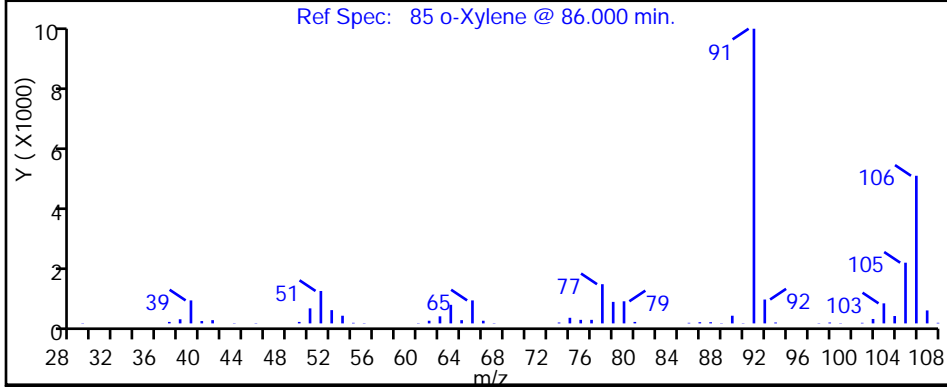
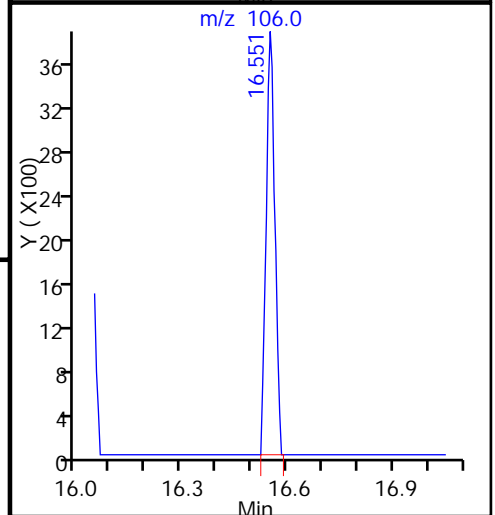
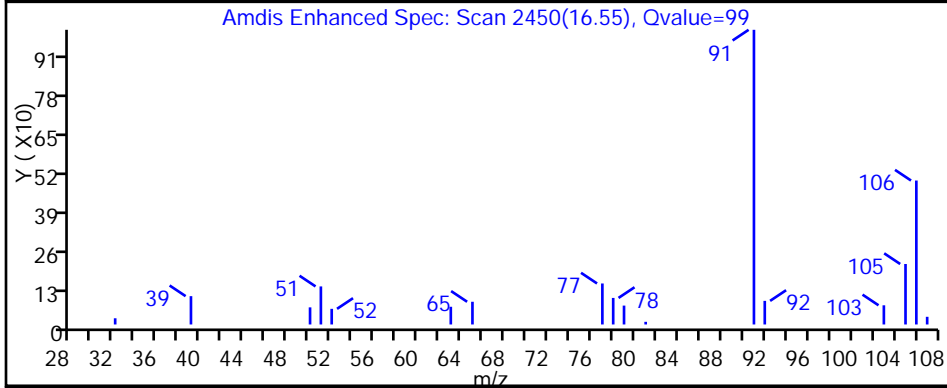
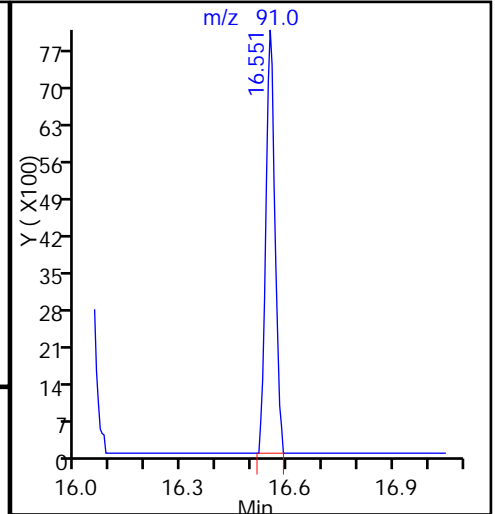
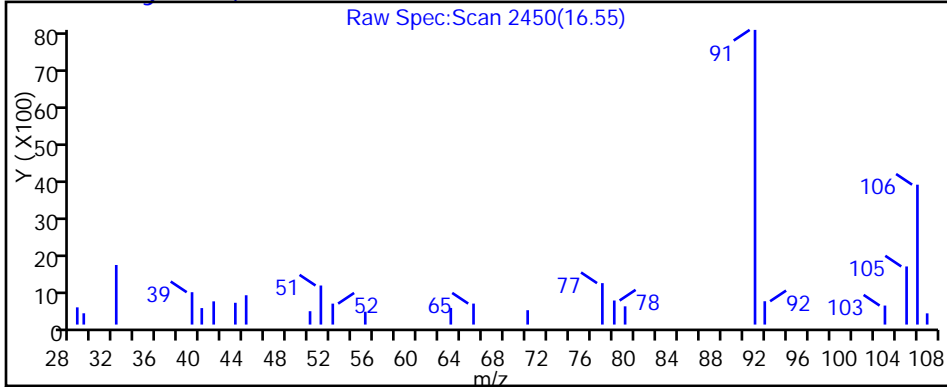
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

85 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Client ID: OUTDOOR AMBIENT #1

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

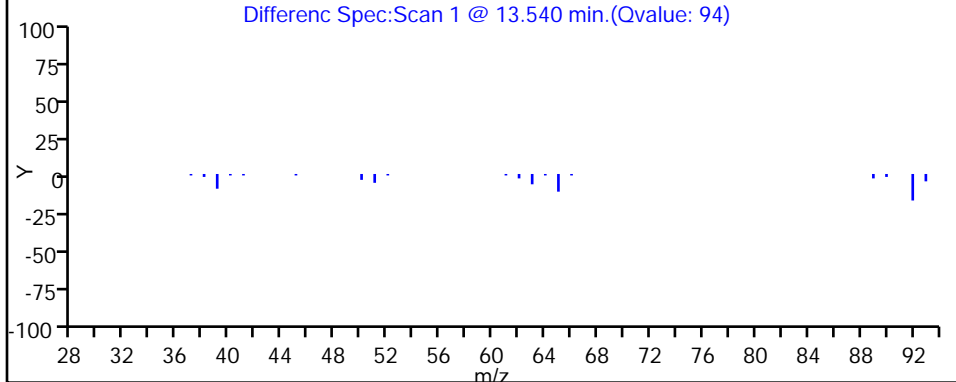
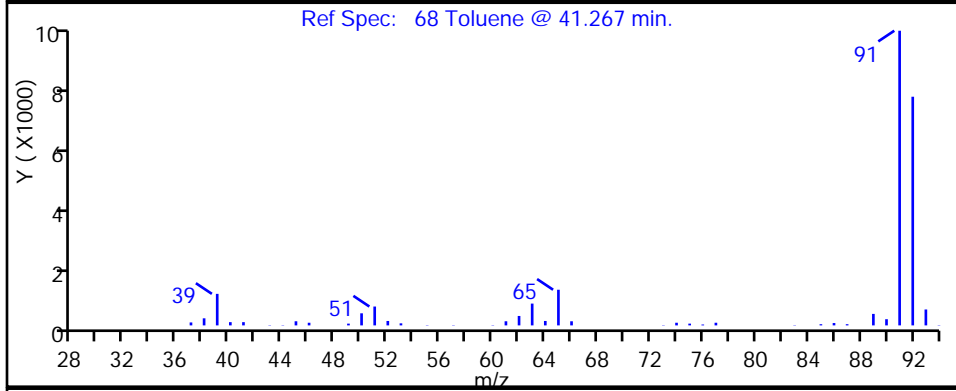
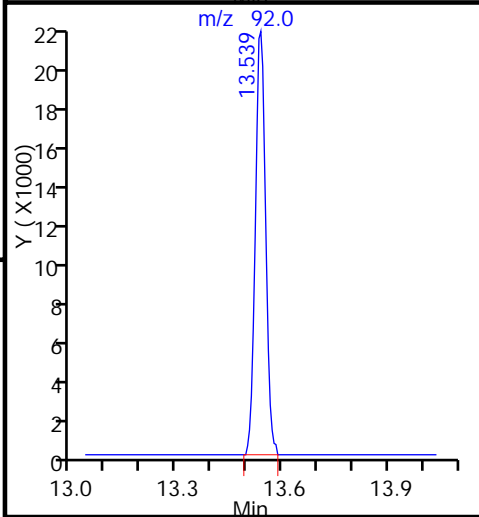
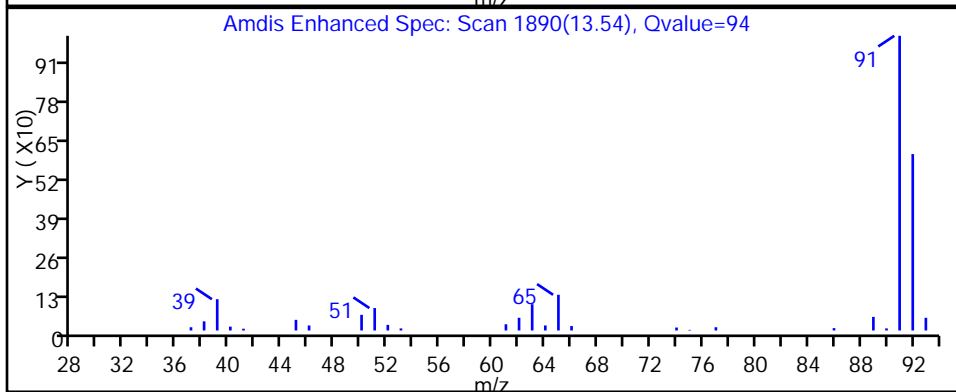
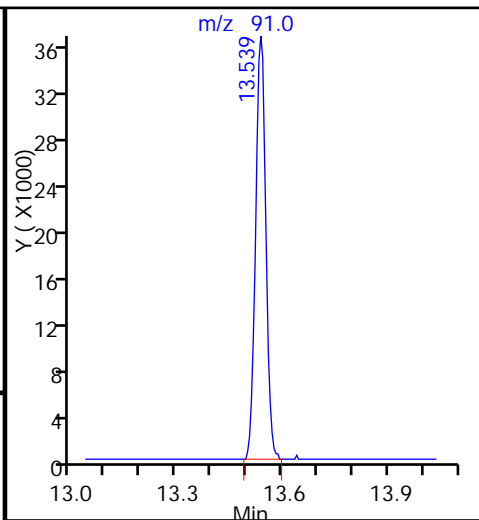
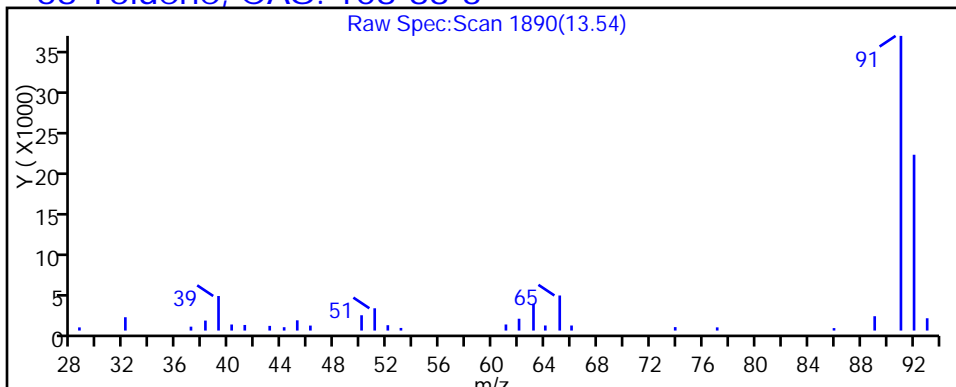
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P106.D

Injection Date: 27-Mar-2017 03:36:30

Instrument ID: MJ

Lims ID: 140-7503-A-6

Lab Sample ID: 140-7503-6

Client ID: OUTDOOR AMBIENT #1

Operator ID: 403648

ALS Bottle#: 6

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

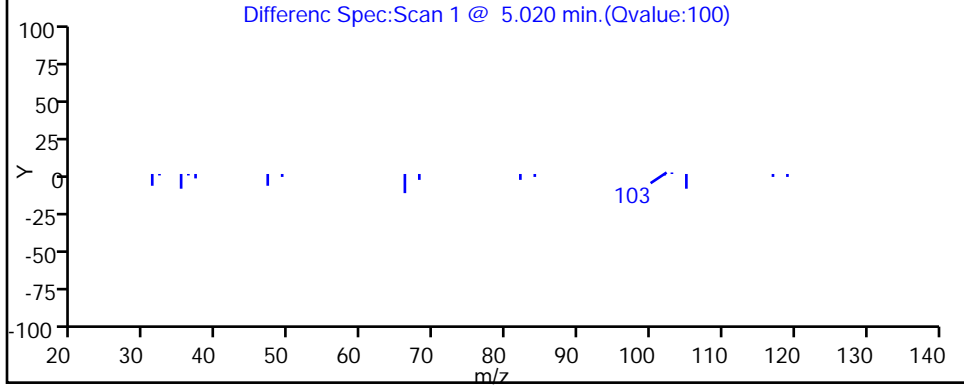
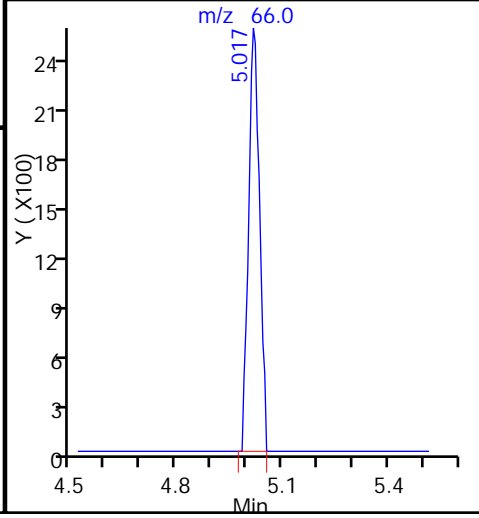
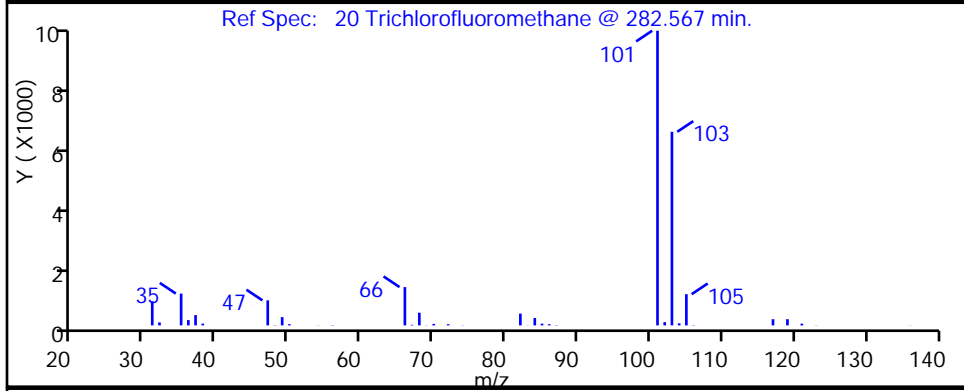
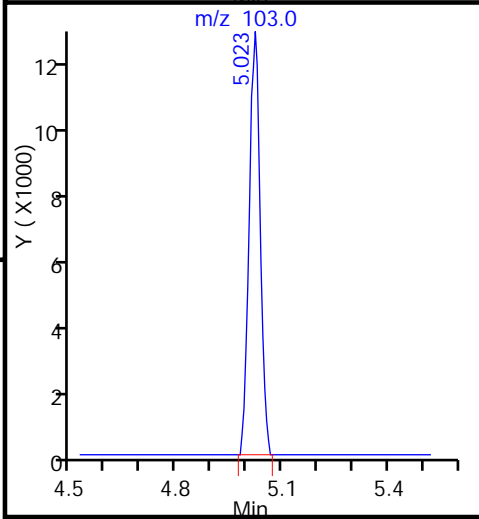
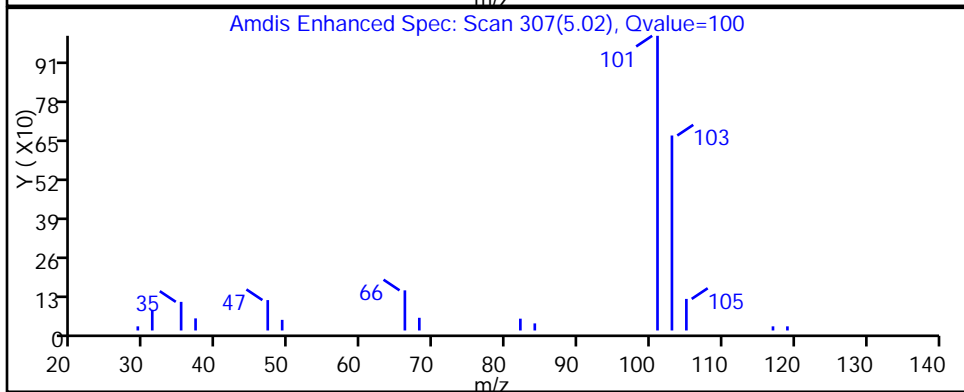
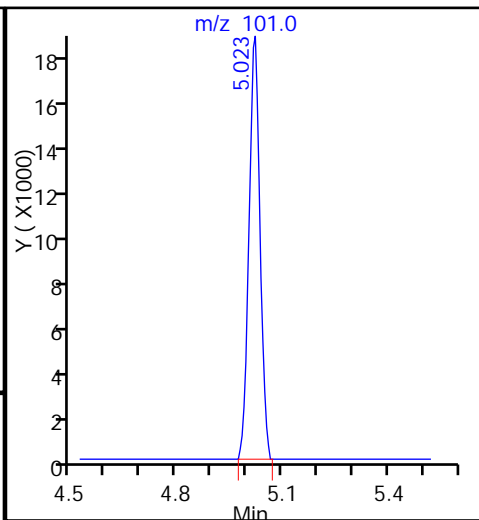
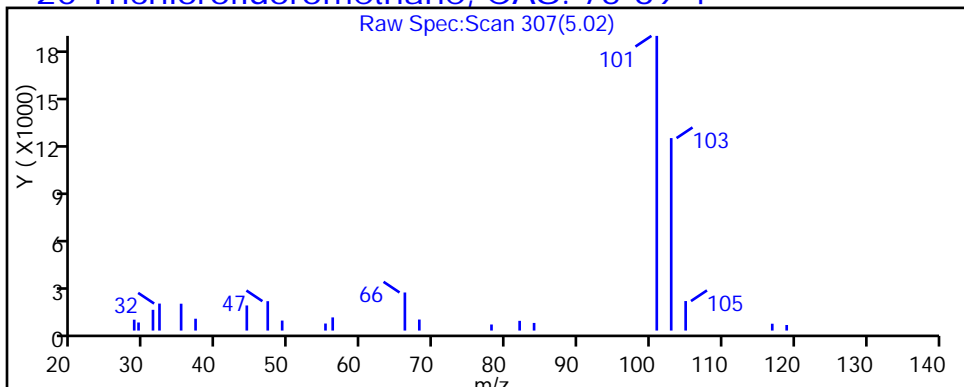
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 Lab Sample ID: 140-7503-7
 Matrix: Air Lab File ID: JC26P107.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 04:23
 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.: 9850 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	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080	
75-34-3	1,1-Dichloroethane	98.96	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0		0.080	
106-93-4	1,2-Dibromoethane	187.87	ND		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080	
107-06-2	1,2-Dichloroethane	98.96	ND		0.080	
78-87-5	1,2-Dichloropropane	112.99	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.53		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	0.091		0.080	
123-91-1	1,4-Dioxane	88.11	ND		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	0.24		0.20	
78-93-3	2-Butanone	72.11	7.9		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	56	E	0.20	
71-43-2	Benzene	78.11	0.28		0.080	
100-44-7	Benzyl chloride	126.58	ND		0.16	
75-27-4	Bromodichloromethane	163.83	ND		0.080	
75-25-2	Bromoform	252.75	ND		0.080	
74-83-9	Bromomethane	94.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	0.068		0.040	
108-90-7	Chlorobenzene	112.56	ND		0.080	
75-00-3	Chloroethane	64.52	ND		0.080	
67-66-3	Chloroform	119.38	ND		0.080	
74-87-3	Chloromethane	50.49	ND		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080	
110-82-7	Cyclohexane	84.16	ND		0.20	

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 Lab Sample ID: 140-7503-7
 Matrix: Air Lab File ID: JC26P107.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 04:23
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.080
75-71-8	Dichlorodifluoromethane	120.91	0.53		0.080
64-17-5	Ethanol	46.07	3.4		2.0
100-41-4	Ethylbenzene	106.17	0.89		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	0.26		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.26		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	4.2		0.080
95-47-6	o-Xylene	106.17	1.6		0.080
100-42-5	Styrene	104.15	0.082		0.080
75-65-0	t-Butyl alcohol	74.12	0.48		0.32
127-18-4	Tetrachloroethene	165.83	8.4		0.080
108-88-3	Toluene	92.14	3.1		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080
79-01-6	Trichloroethene	131.39	0.28		0.040
75-69-4	Trichlorofluoromethane	137.37	0.25		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

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.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 Lab Sample ID: 140-7503-7
 Matrix: Air Lab File ID: JC26P107.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 04:23
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	9.7		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	2.6		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	0.55		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	1.1		0.93
78-93-3	2-Butanone	72.11	23		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	230	E	0.82
71-43-2	Benzene	78.11	0.91		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.43		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	ND		0.39
74-87-3	Chloromethane	50.49	ND		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 Lab Sample ID: 140-7503-7
 Matrix: Air Lab File ID: JC26P107.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 500(mL) Date Analyzed: 03/27/2017 04:23
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.6		0.40
64-17-5	Ethanol	46.07	6.3		3.8
100-41-4	Ethylbenzene	106.17	3.9		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	0.93		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	0.90		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	18		0.35
95-47-6	o-Xylene	106.17	6.8		0.35
100-42-5	Styrene	104.15	0.35		0.34
75-65-0	t-Butyl alcohol	74.12	1.5		0.97
127-18-4	Tetrachloroethene	165.83	57		0.54
108-88-3	Toluene	92.14	12		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	1.5		0.21
75-69-4	Trichlorofluoromethane	137.37	1.4		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

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

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D
 Lims ID: 140-7503-A-7
 Client ID: SUBSLAB #4
 Sample Type: Client
 Inject. Date: 27-Mar-2017 04:23:30 ALS Bottle#: 7 Worklist Smp#: 23
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-023
 Misc. Info.: 140-7503-a-7
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 27-Mar-2017 11:17:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.551	8.547	0.004	96	201428	4.00	
* 2 1,4-Difluorobenzene	114	10.746	10.748	-0.002	95	920620	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.523	15.524	-0.001	88	938079	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.169	17.171	-0.002	94	661859	4.04	
8 Dichlorodifluoromethane	85	3.624	3.625	-0.001	100	91036	0.5273	
9 Chloromethane	52	3.801	3.797	0.004	99	3107	0.1641	M
10 1,2-Dichloro-1,1,2,2-tetra	135	3.801	3.803	-0.002	51	1298	0.0170	
17 Ethanol	31	4.570	4.566	0.004	97	39927	3.36	
20 Trichlorofluoromethane	101	5.022	5.024	-0.002	99	39295	0.2479	
28 2-Methyl-2-propanol	59	5.808	5.804	0.004	95	36169	0.4843	
30 1,1,2-Trichloro-1,2,2-trif	101	5.878	5.879	-0.001	95	8915	0.0695	
31 Methylene Chloride	84	6.050	6.046	0.004	99	16101	0.2587	
39 2-Butanone (MEK)	72	7.798	7.810	-0.012	99	116485	7.86	
40 Hexane	56	7.820	7.821	-0.001	45	13899	0.2629	
42 cis-1,2-Dichloroethene	96	8.218	8.225	-0.007	89	2244	0.0347	
44 Chloroform	83	8.562	8.563	-0.001	43	8291	0.0624	
50 Cyclohexane	69	10.187	10.188	-0.001	62	3473	0.1249	
51 Benzene	78	10.187	10.188	-0.001	97	51189	0.2837	
52 Carbon tetrachloride	117	10.208	10.210	-0.002	53	9408	0.0676	
56 Isooctane	57	10.967	10.968	-0.001	95	75007	0.2407	
59 Trichloroethene	130	11.467	11.468	-0.001	96	27008	0.2771	
65 4-Methyl-2-pentanone (MIBK	43	12.667	12.668	-0.001	98	4343702	56.2	E
68 Toluene	91	13.538	13.539	-0.001	94	606360	3.06	
76 Tetrachloroethene	129	14.689	14.691	-0.002	95	694394	8.43	
79 Ethylbenzene	91	15.867	15.863	0.004	99	200337	0.8945	
81 m-Xylene & p-Xylene	91	16.023	16.030	-0.007	99	682227	4.21	
84 Styrene	104	16.491	16.493	-0.002	97	9967	0.0823	
85 o-Xylene	91	16.556	16.552	0.004	99	258923	1.57	
92 1,3,5-Trimethylbenzene	120	17.917	17.918	-0.001	93	45658	0.5293	
96 1,2,4-Trimethylbenzene	105	18.363	18.365	-0.002	98	292984	1.98	
100 1,4-Dichlorobenzene	146	18.724	18.725	-0.001	93	12512	0.0910	

[QC Flag Legend](#)

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

[Reagents:](#)

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Worklist Smp#: 23

Client ID: SUBSLAB #4

Purge Vol: 500.000 mL

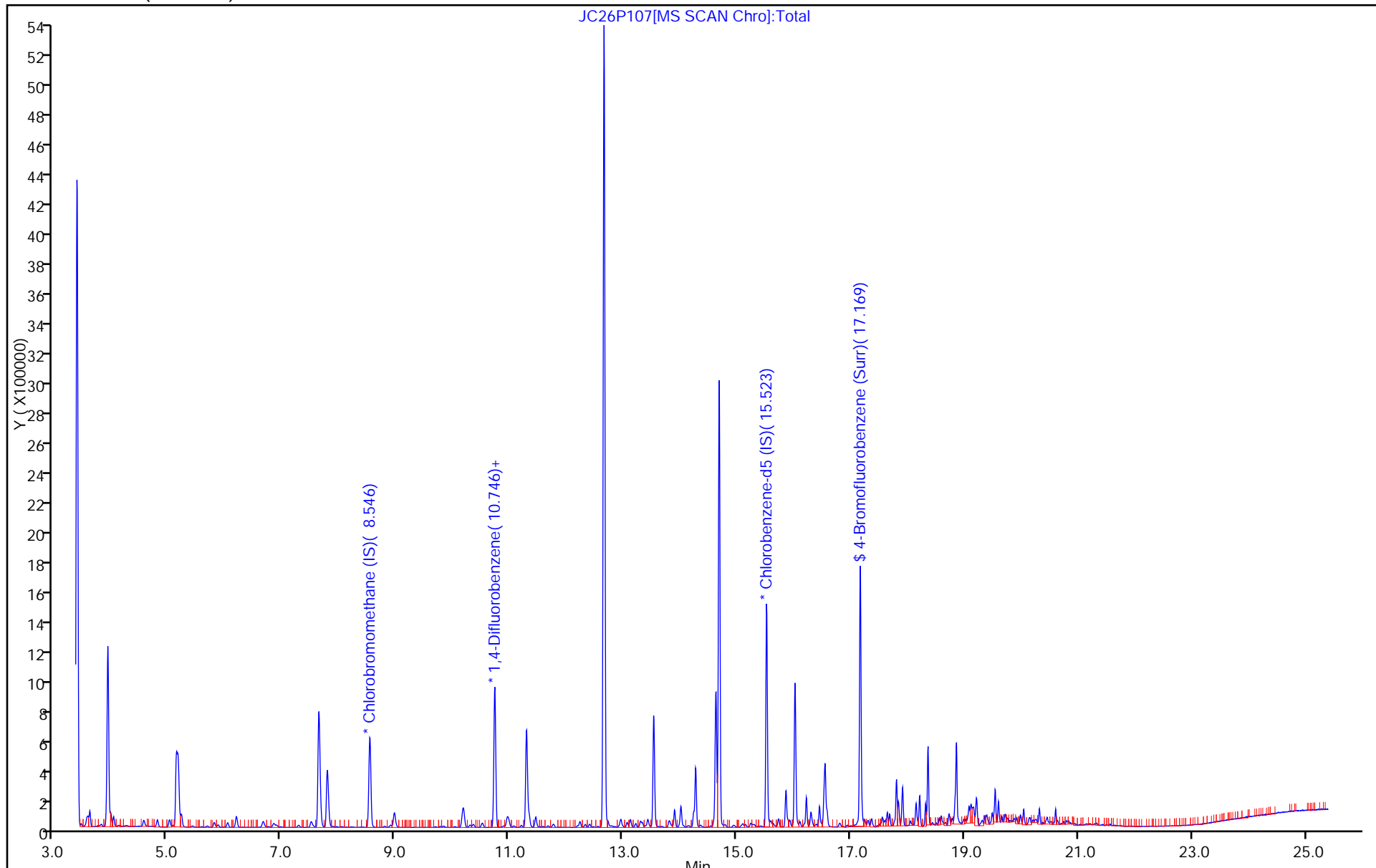
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D
 Lims ID: 140-7503-A-7
 Client ID: SUBSLAB #4
 Sample Type: Client
 Inject. Date: 27-Mar-2017 04:23:30 ALS Bottle#: 7 Worklist Smp#: 23
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-023
 Misc. Info.: 140-7503-a-7
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa Date: 27-Mar-2017 11:17:10

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.04	101.05

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

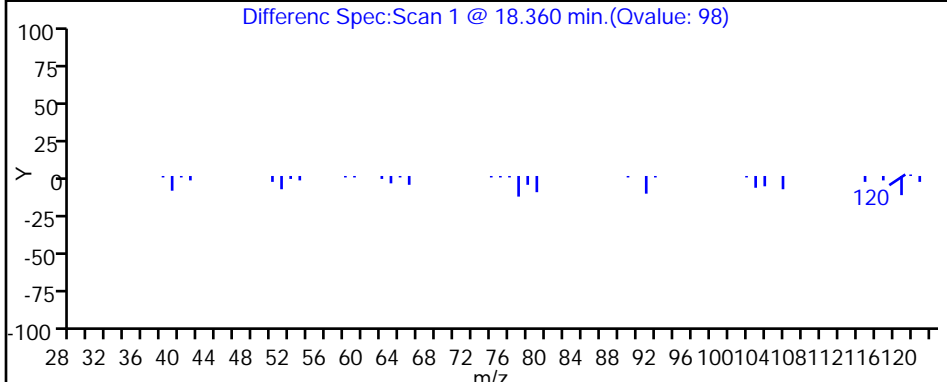
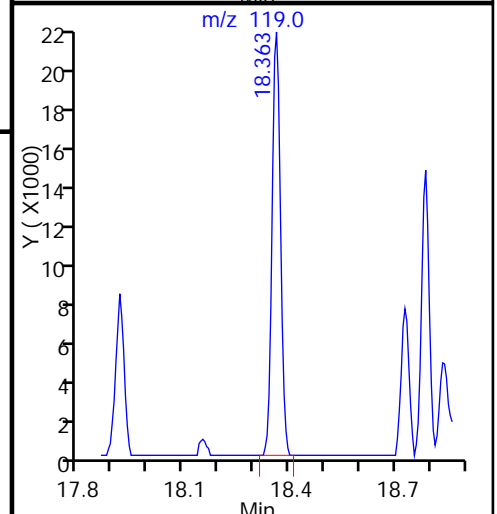
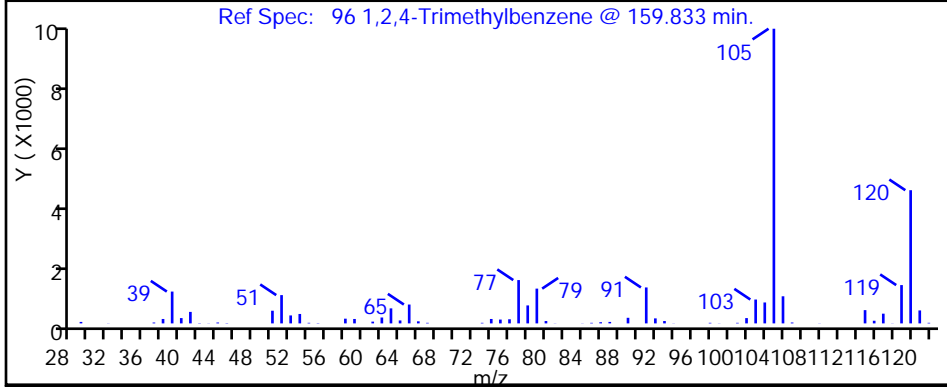
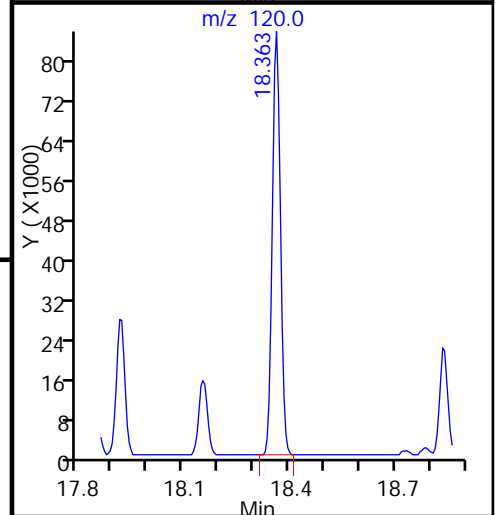
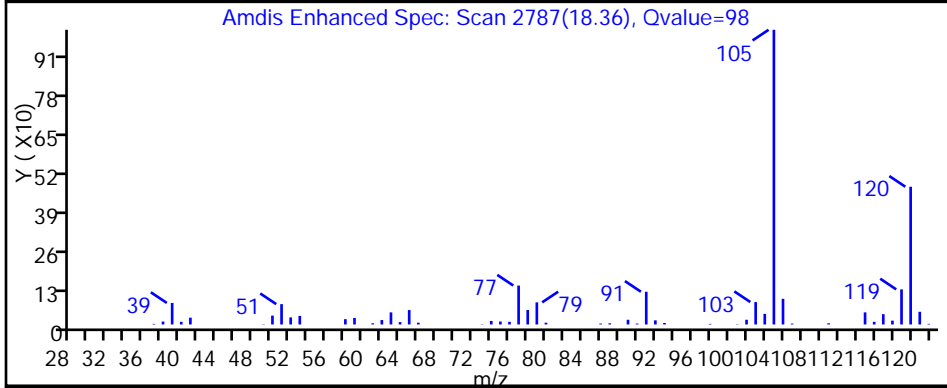
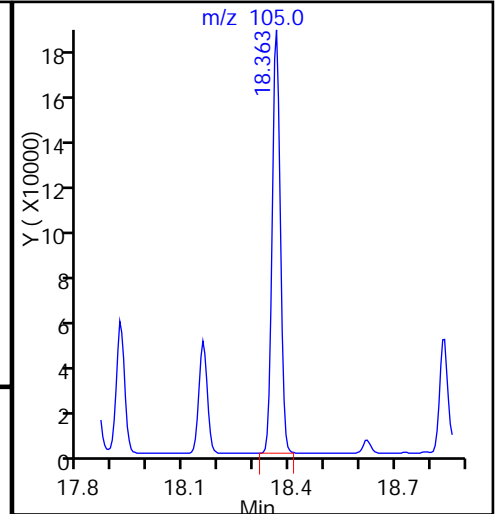
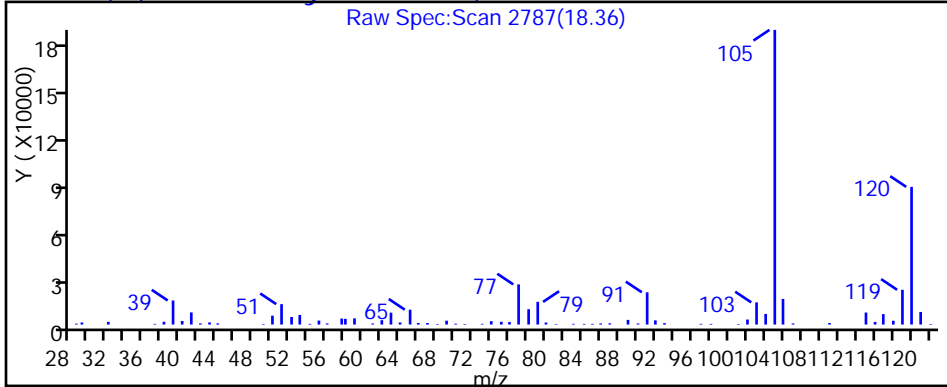
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

96 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

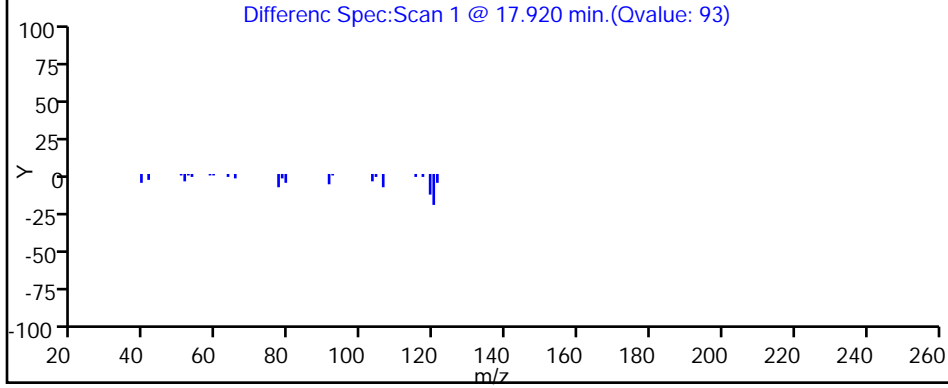
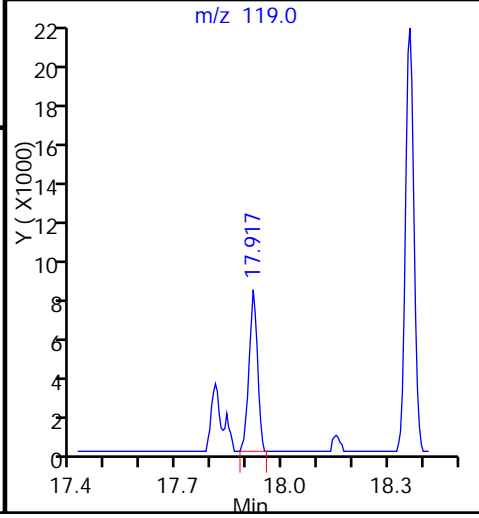
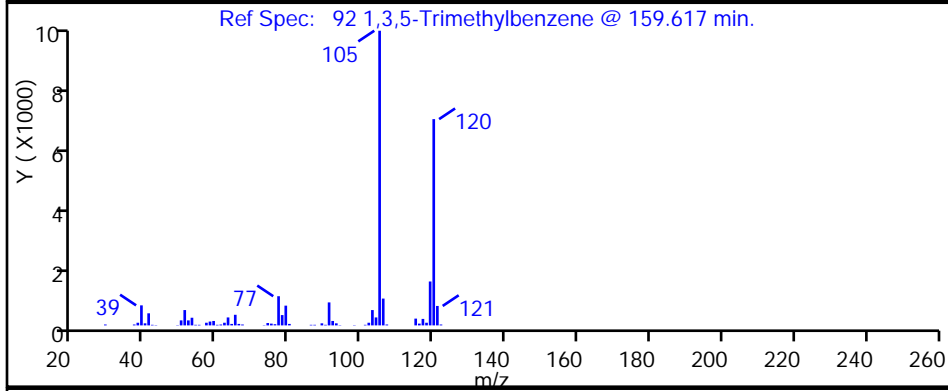
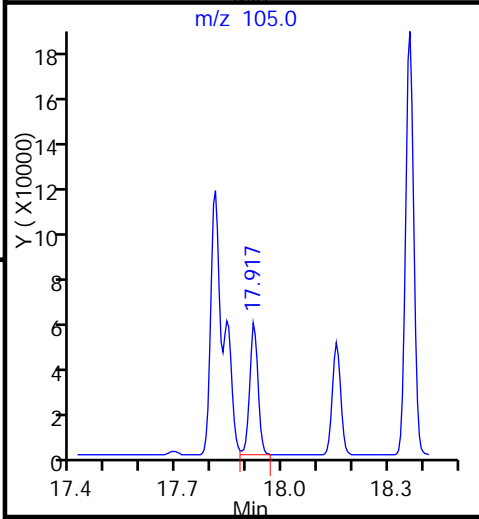
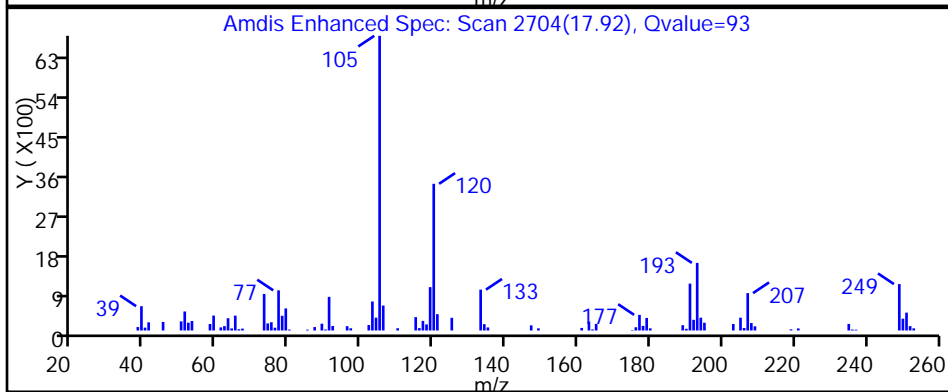
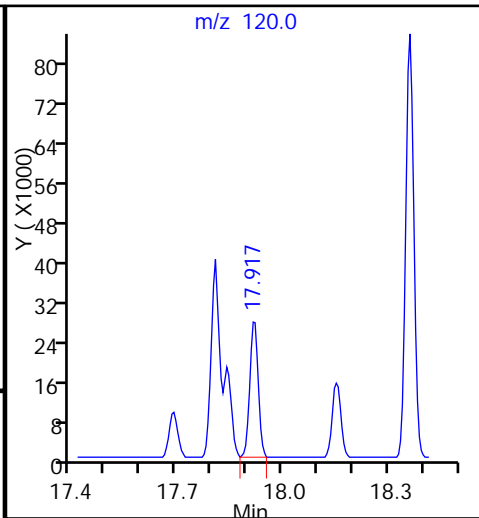
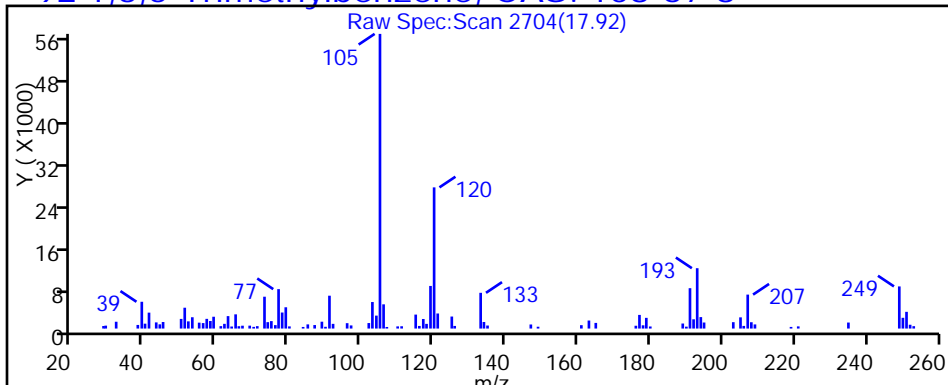
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

92 1,3,5-Trimethylbenzene, CAS: 108-67-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

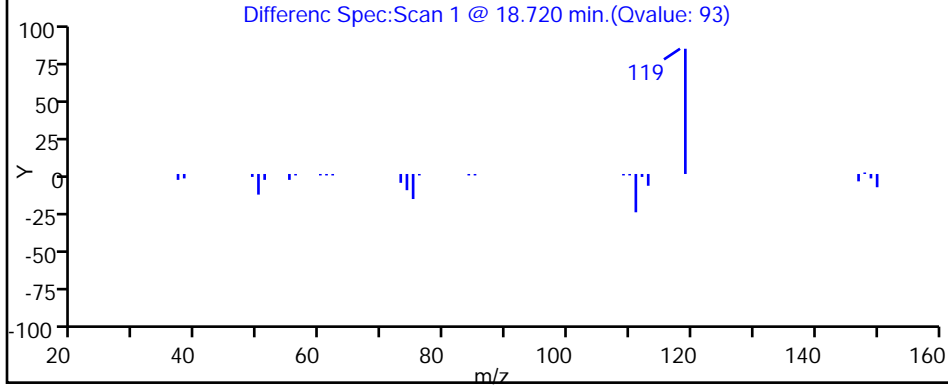
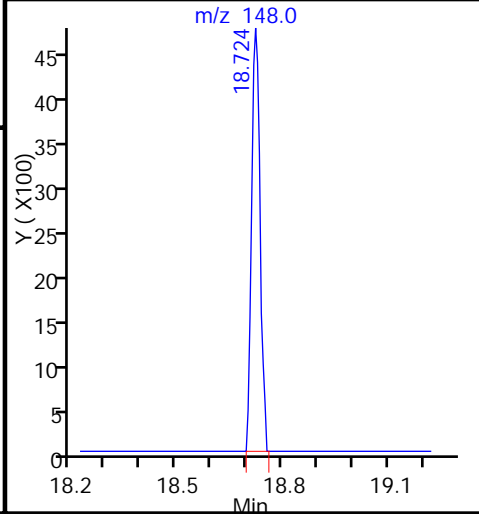
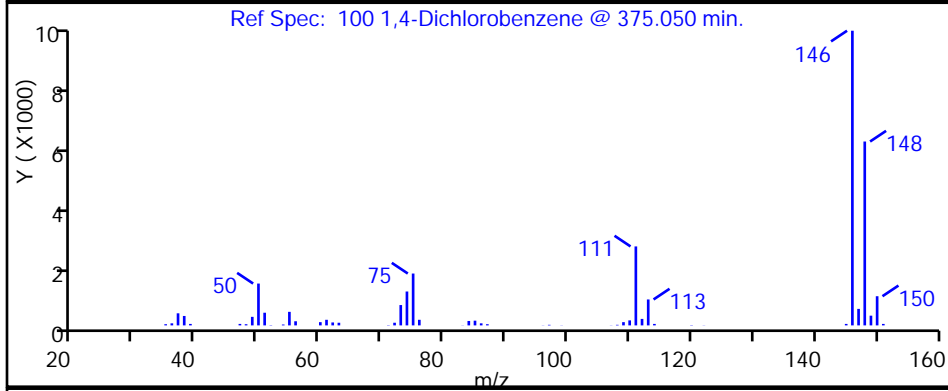
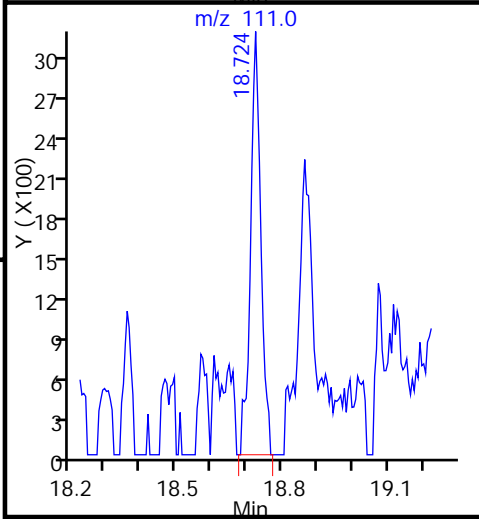
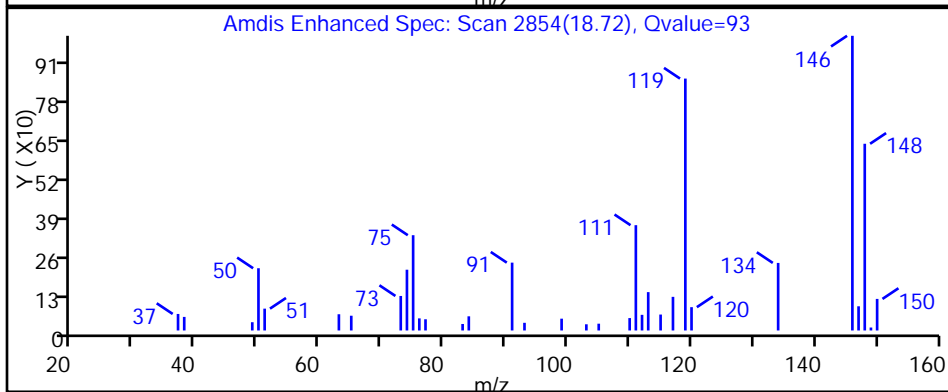
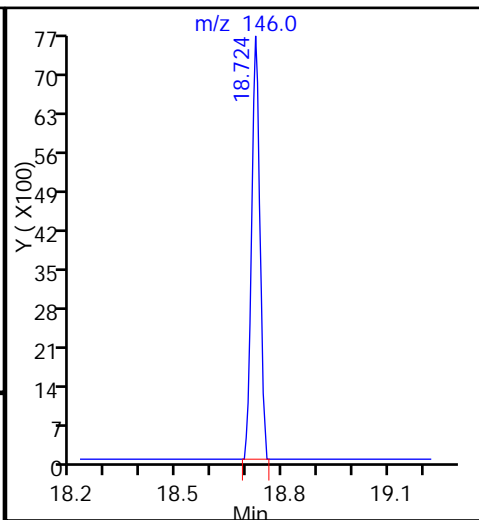
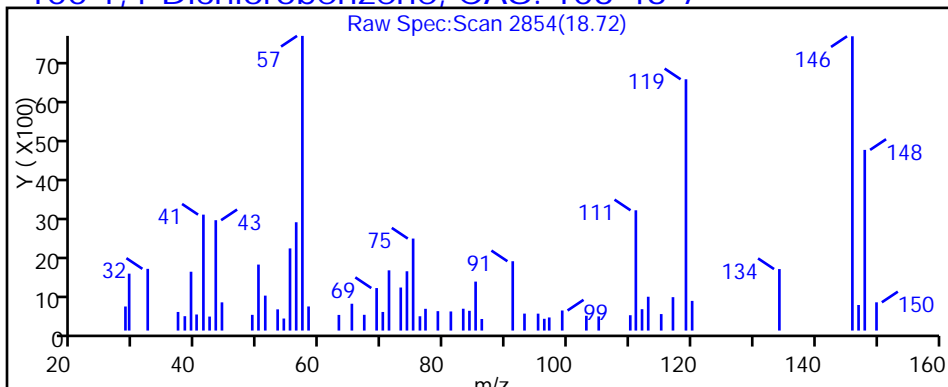
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

100 1,4-Dichlorobenzene, CAS: 106-46-7



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

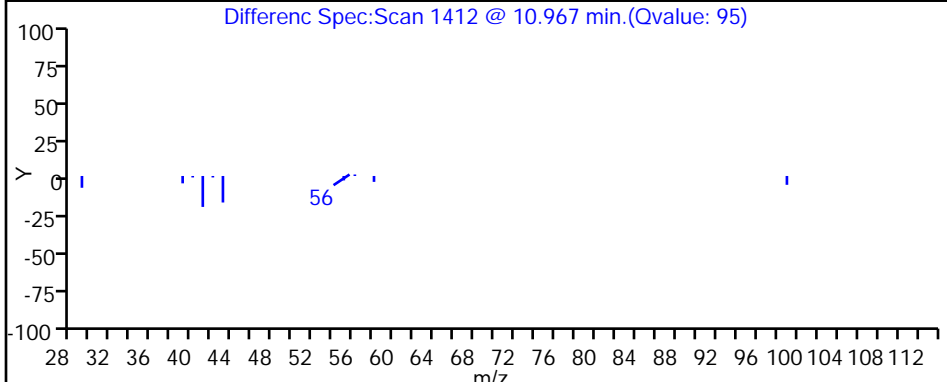
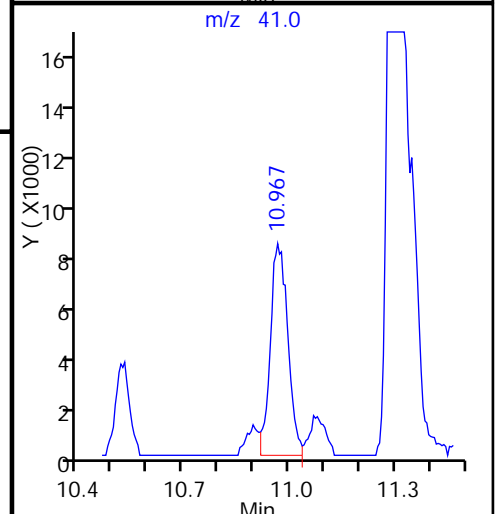
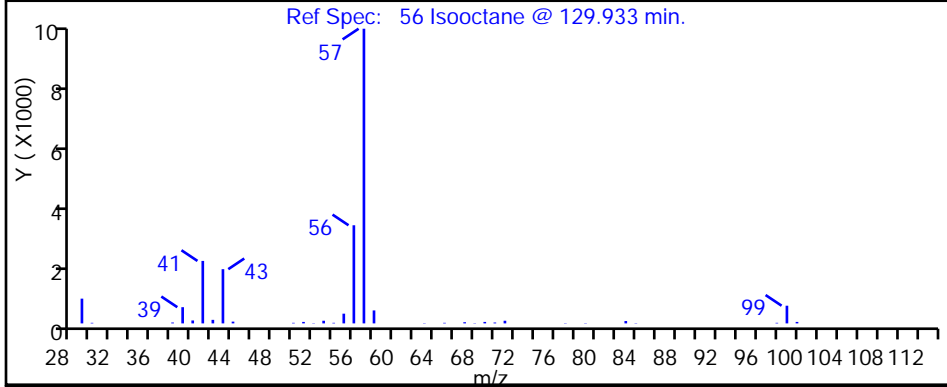
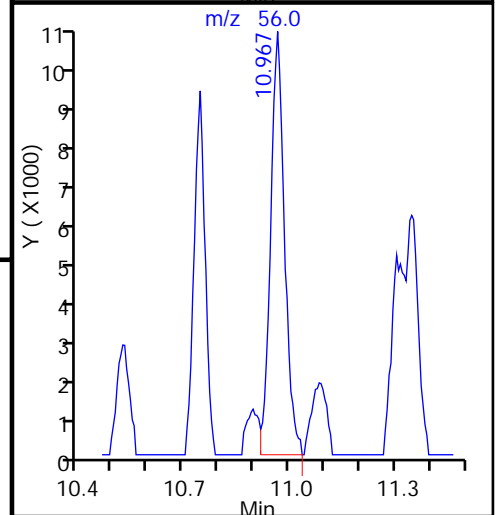
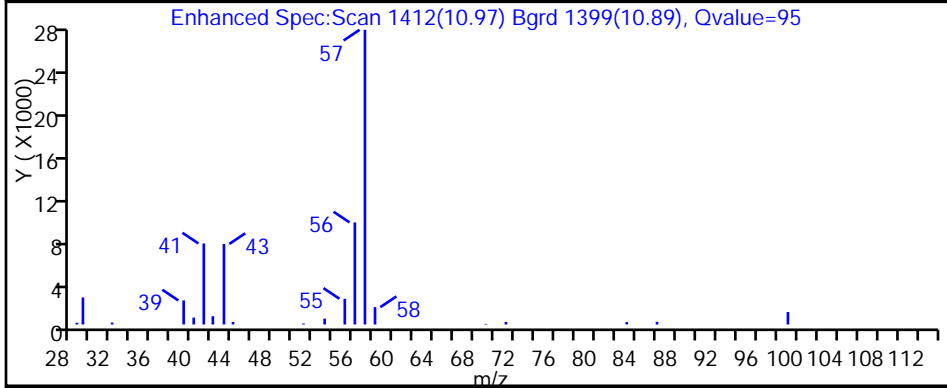
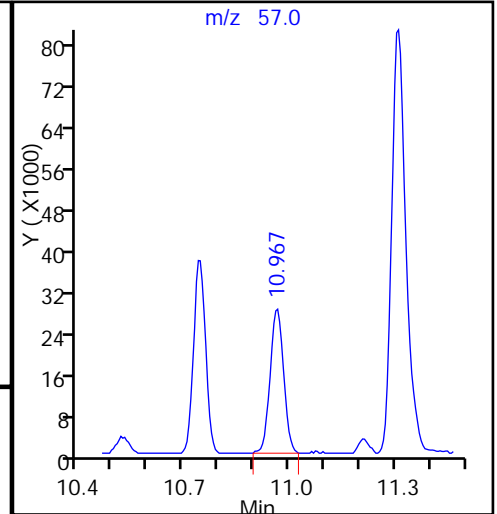
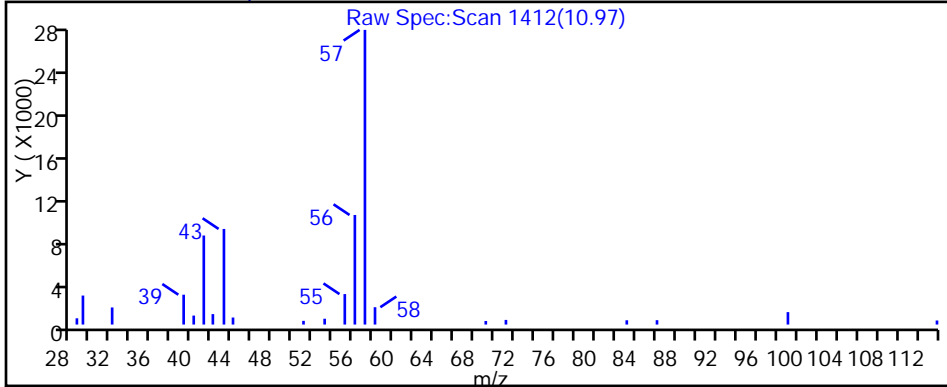
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

56 Isooctane, CAS: 540-84-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

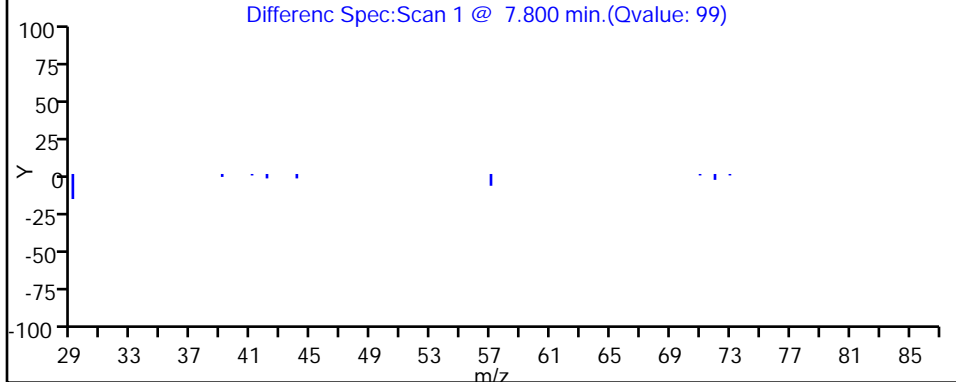
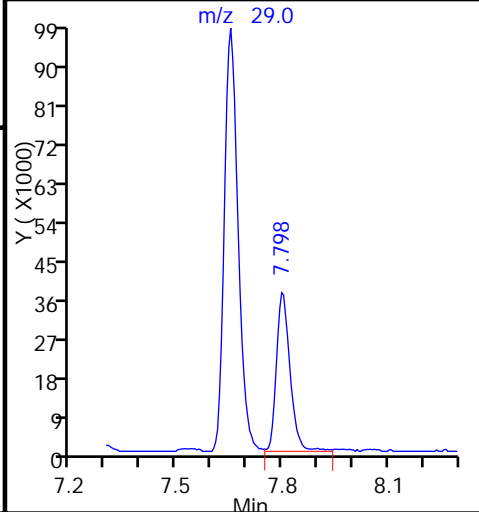
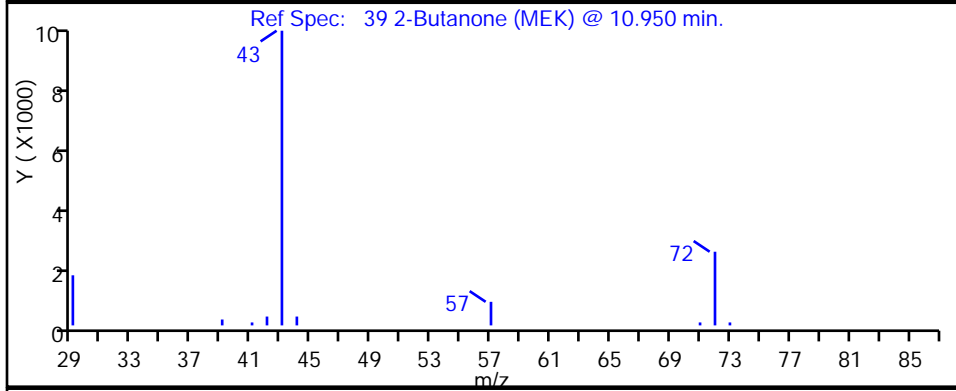
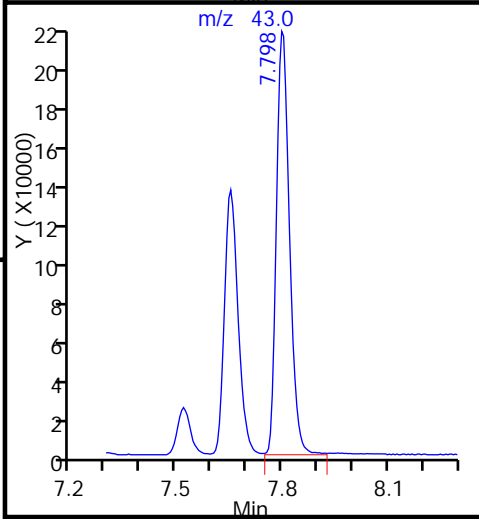
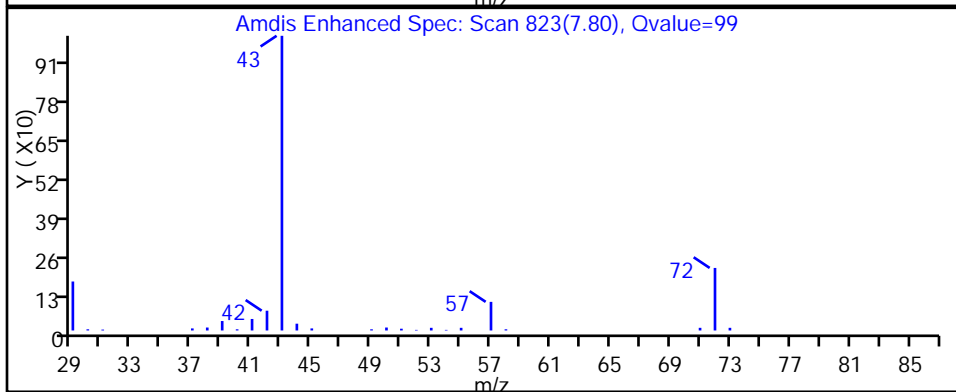
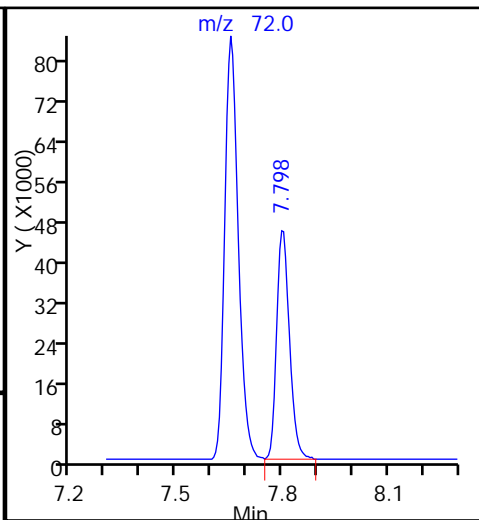
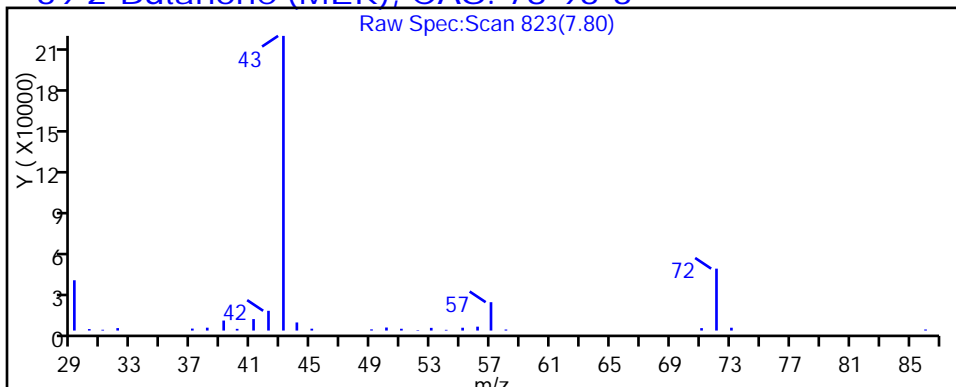
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

39 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

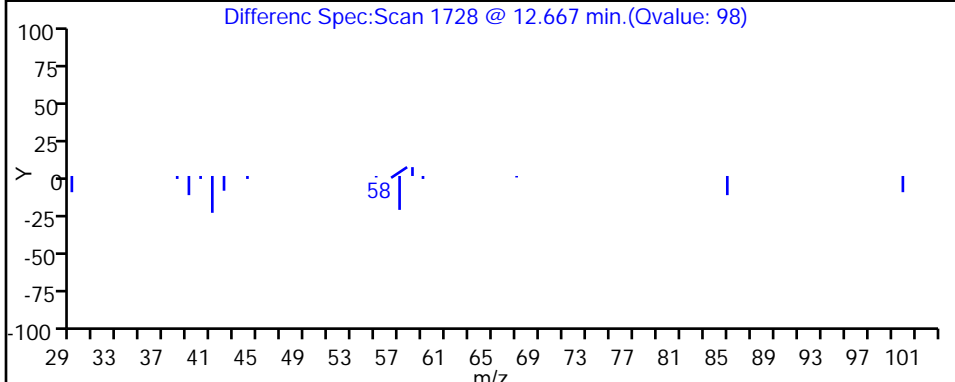
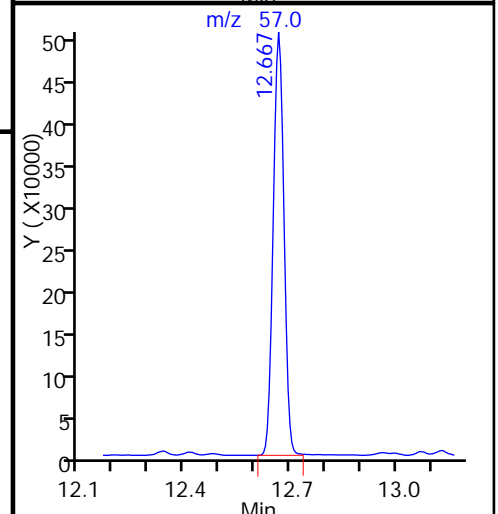
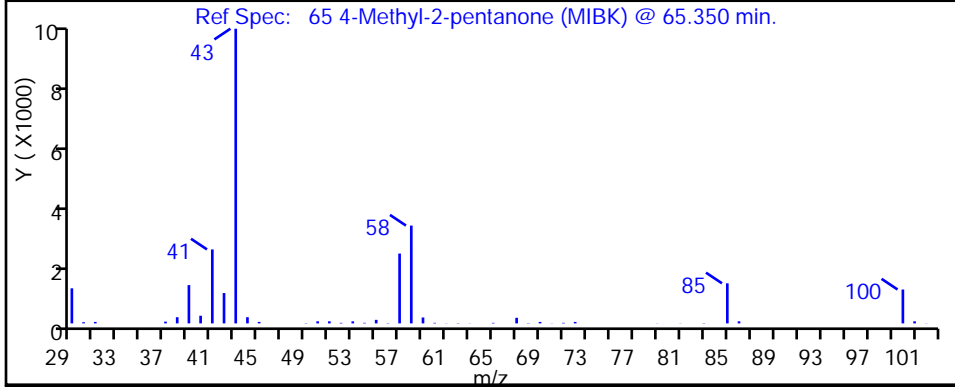
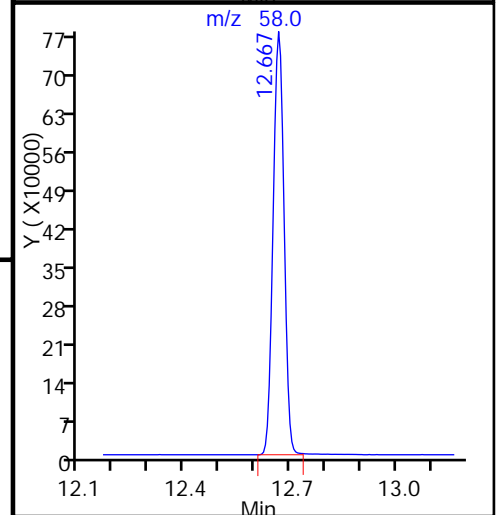
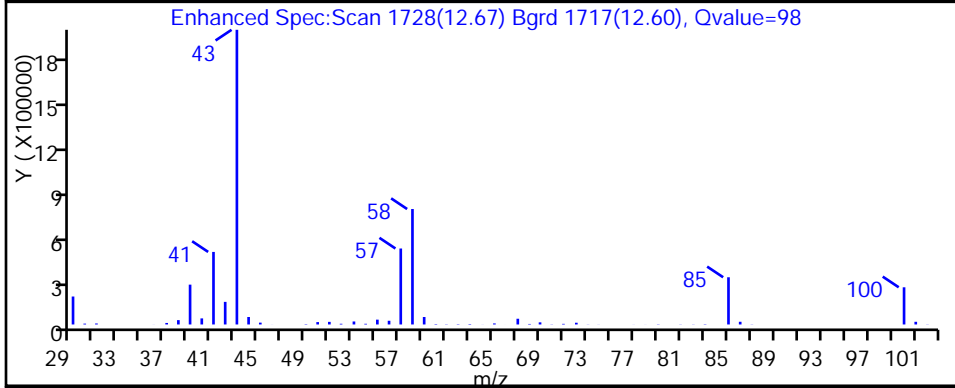
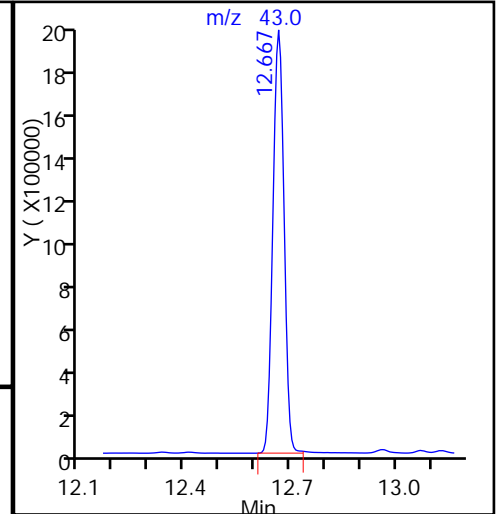
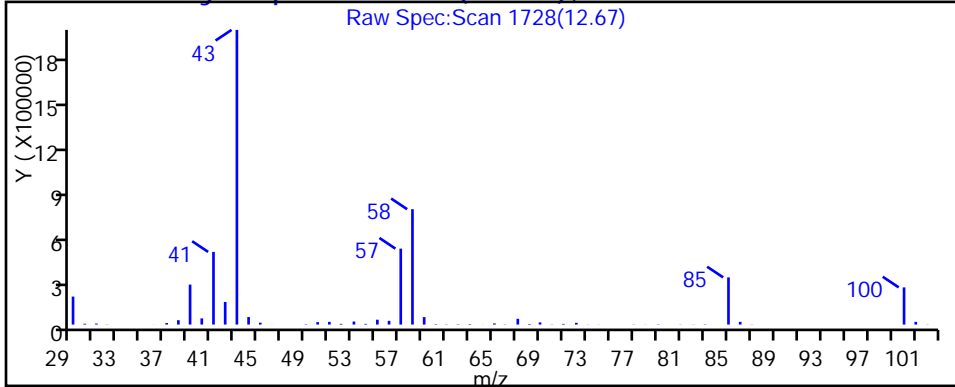
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

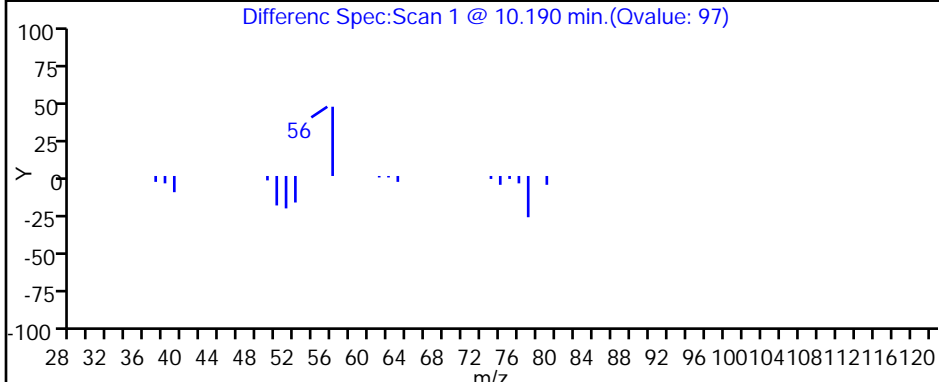
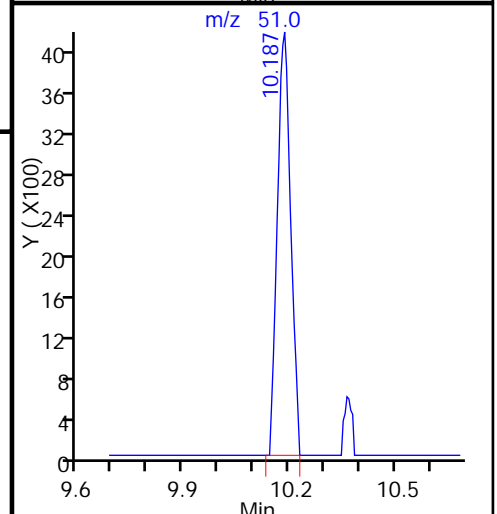
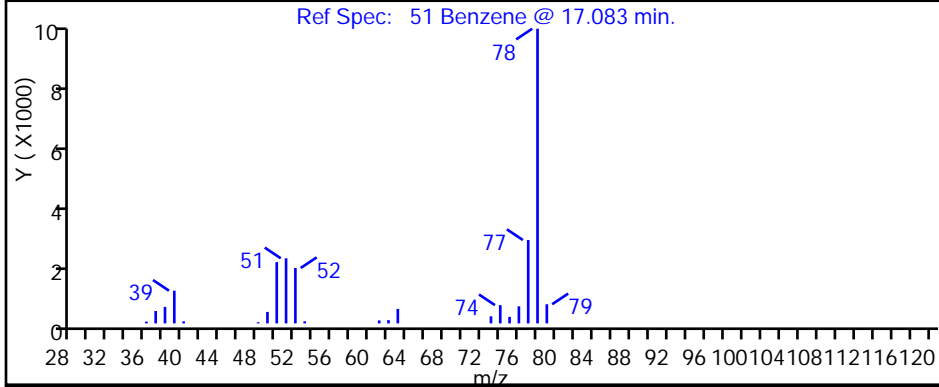
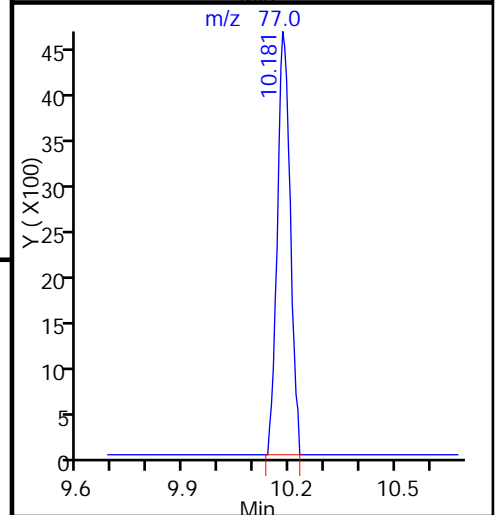
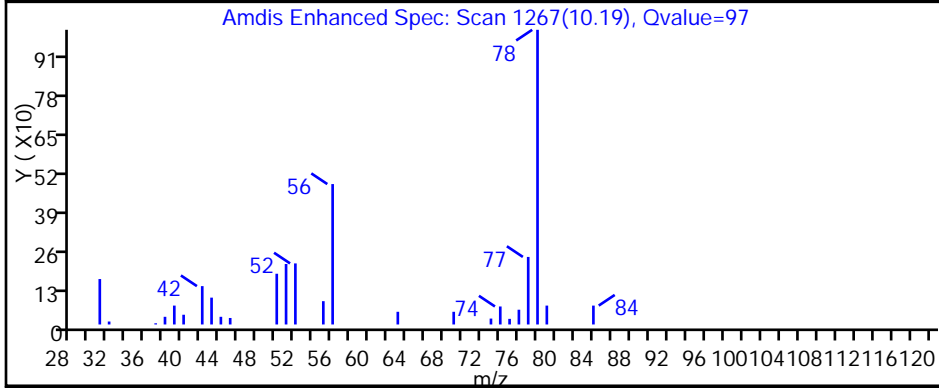
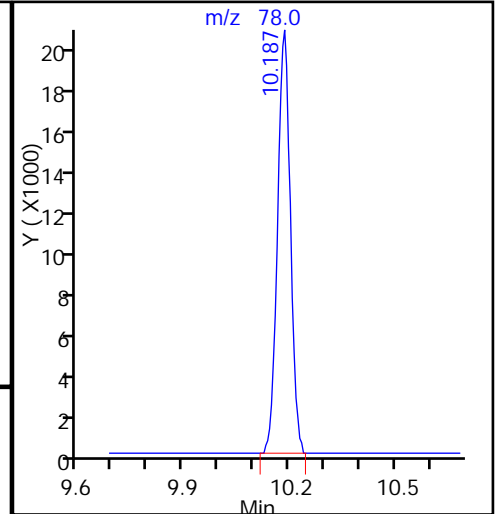
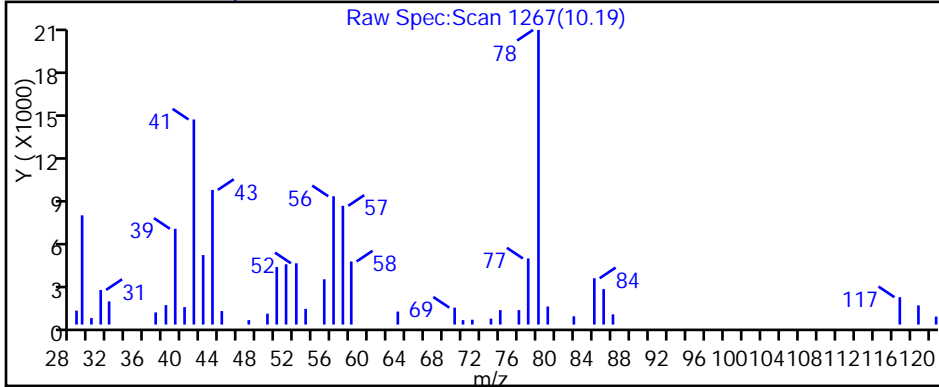
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

51 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

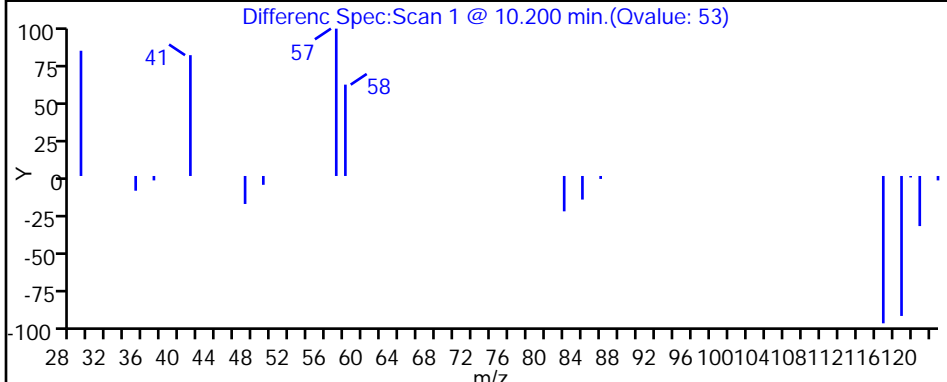
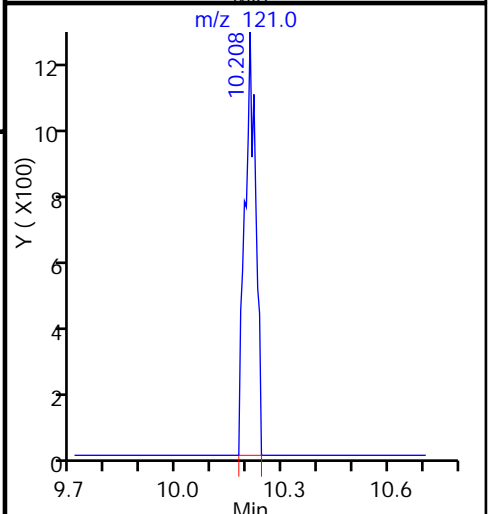
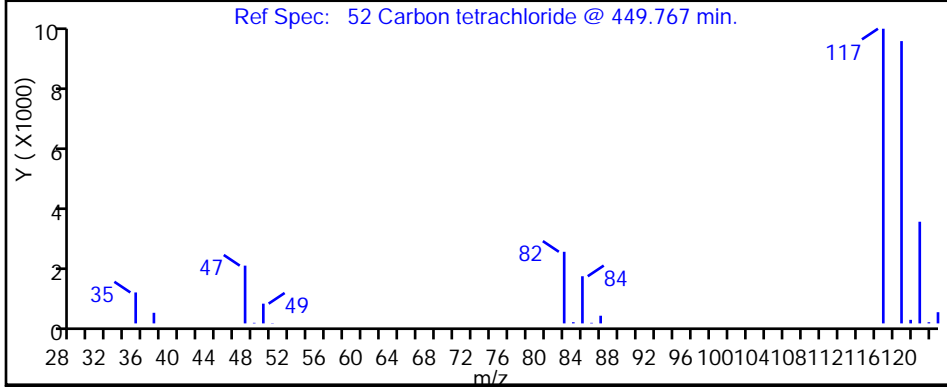
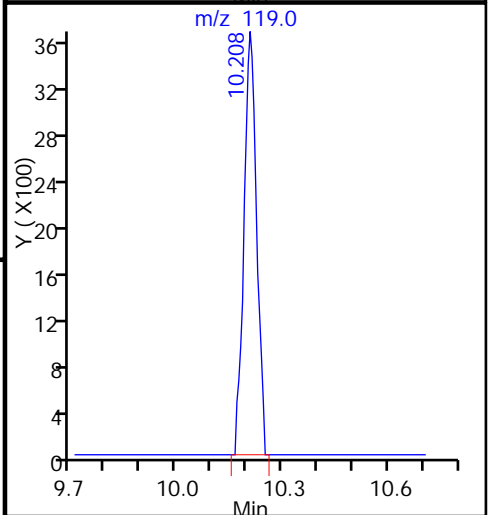
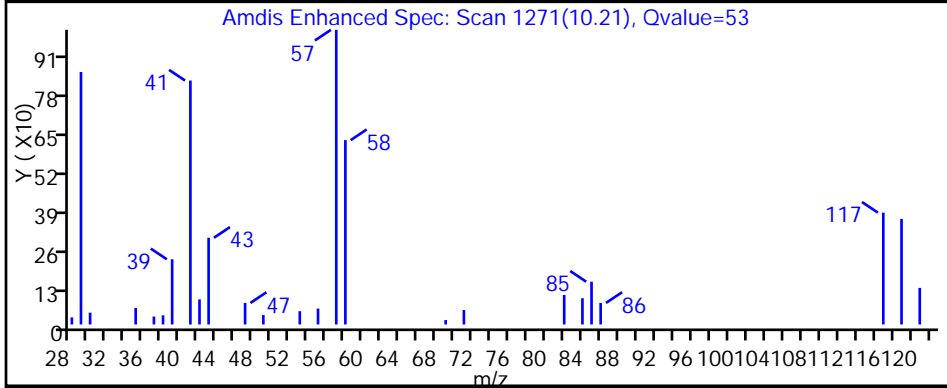
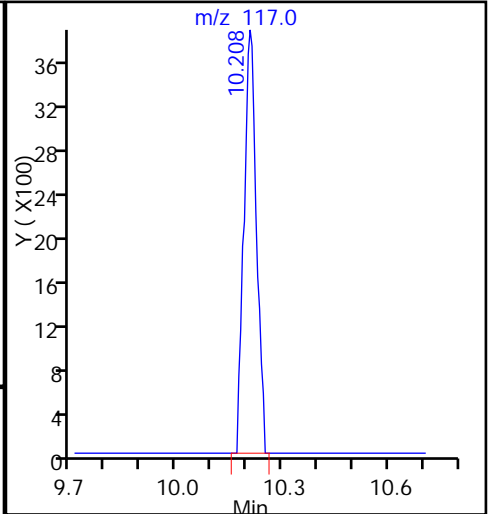
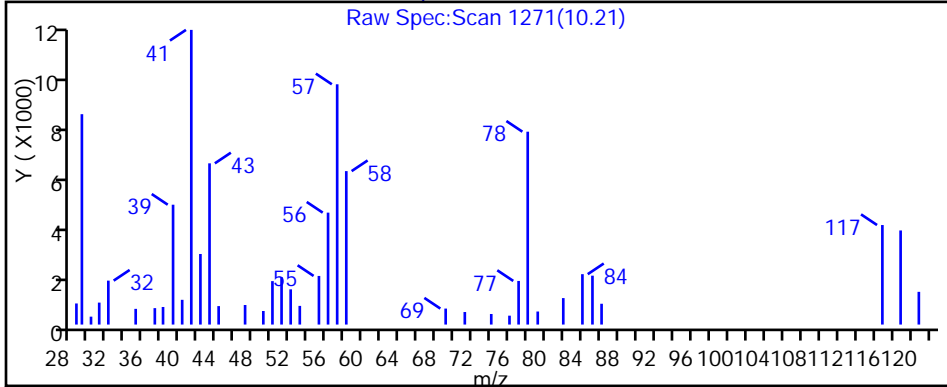
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

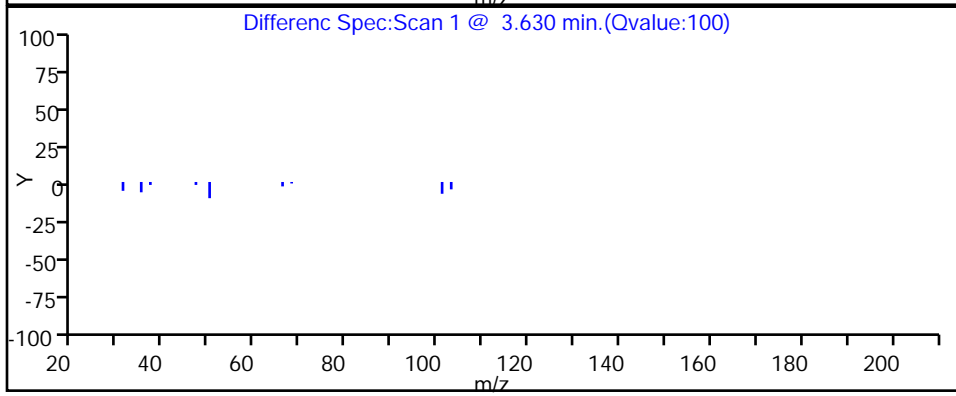
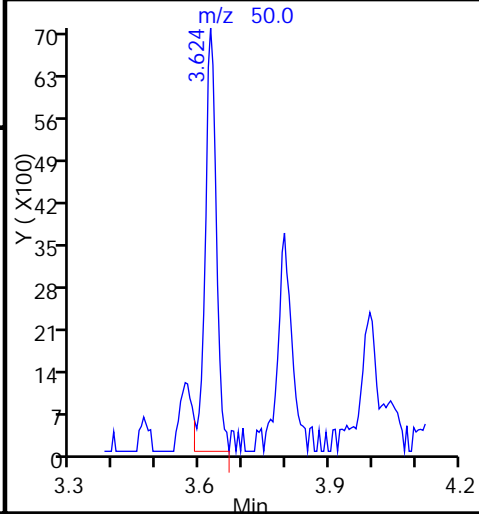
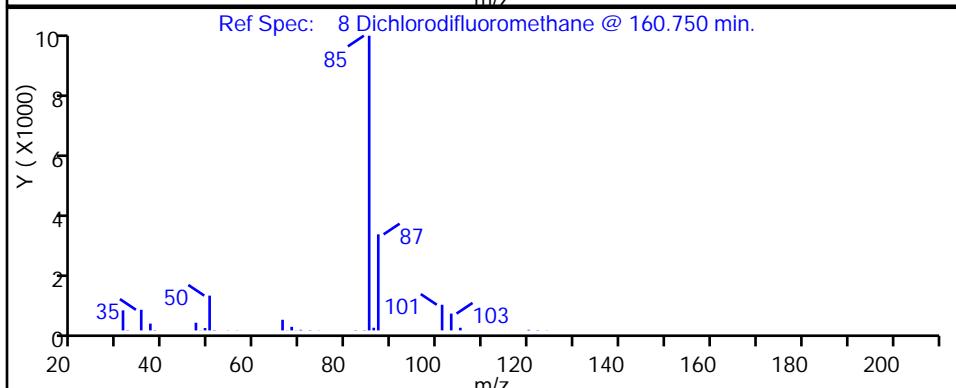
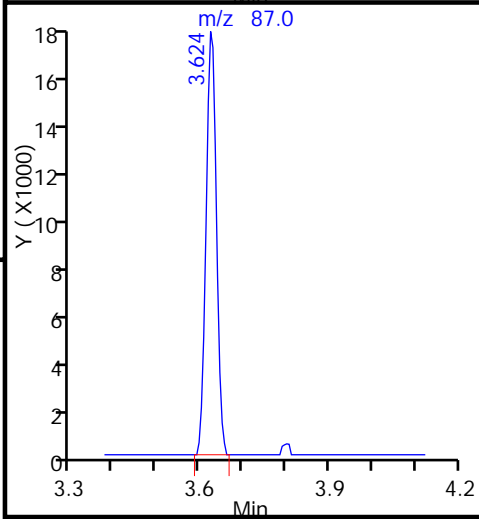
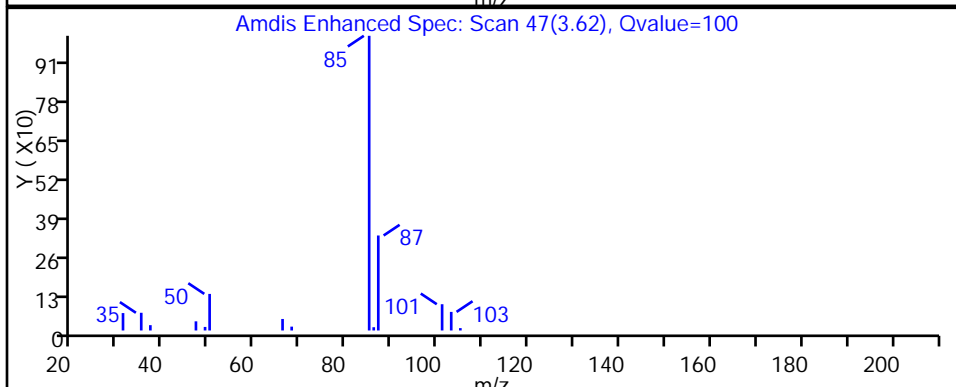
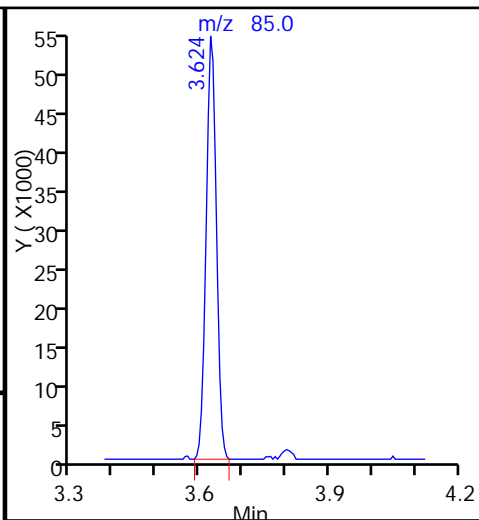
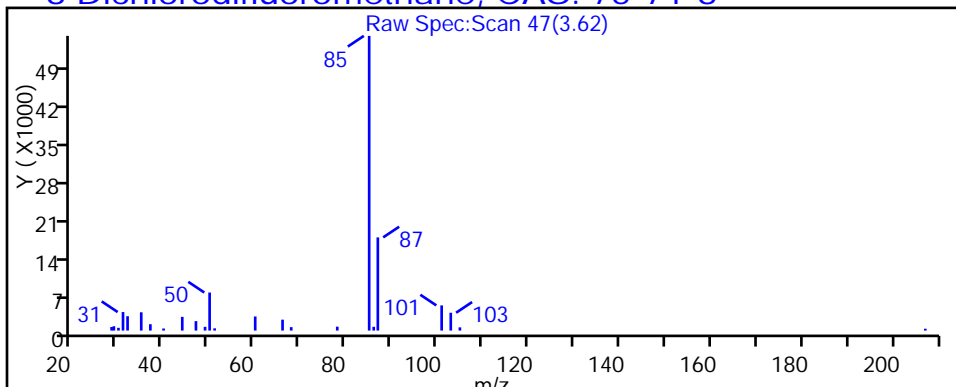
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

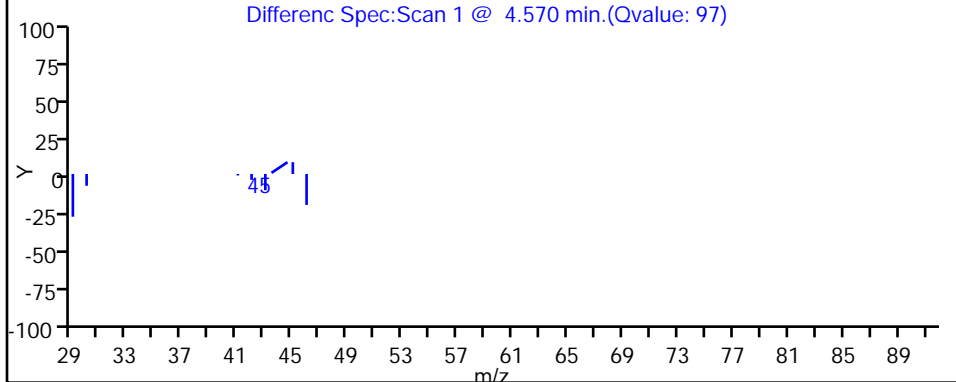
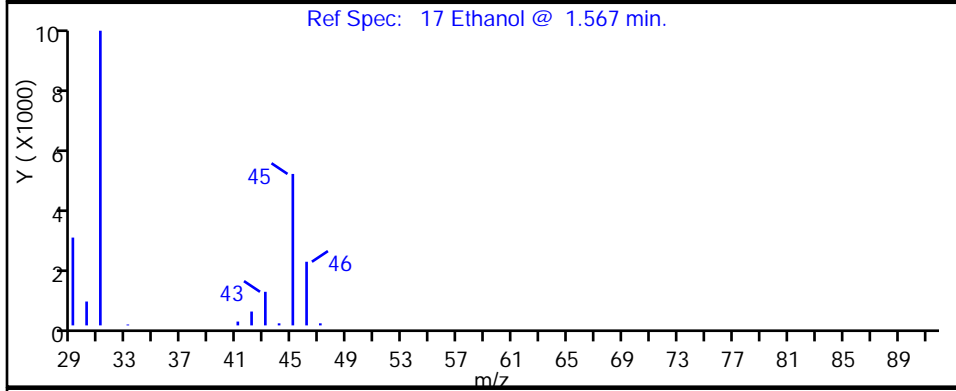
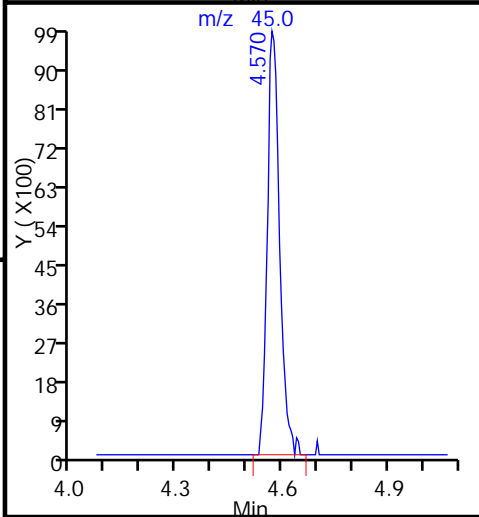
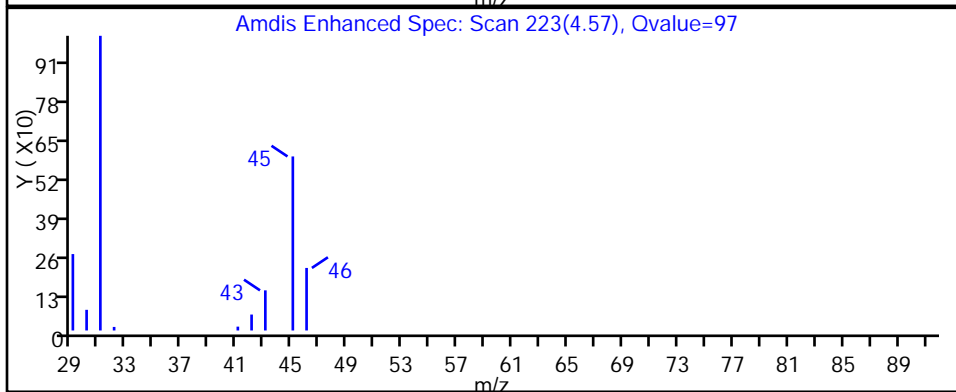
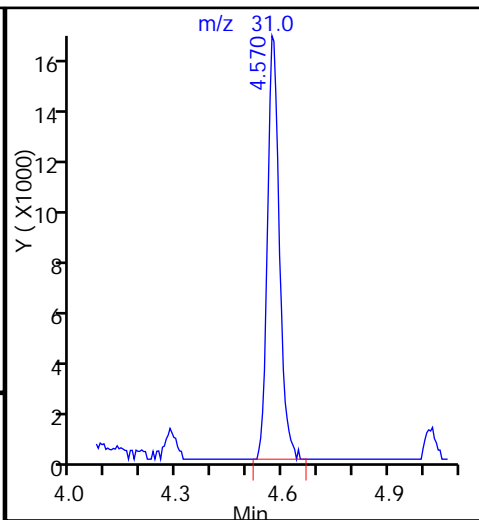
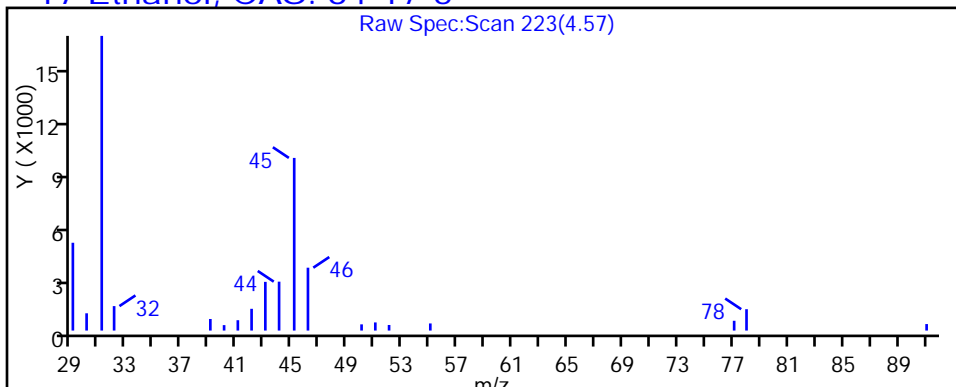
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

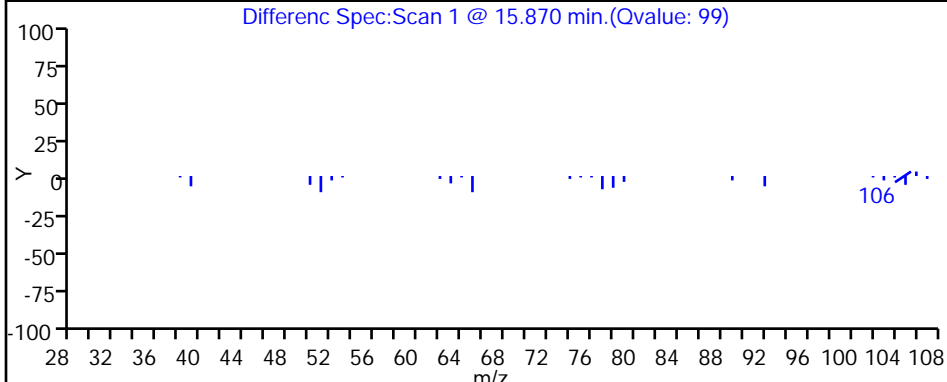
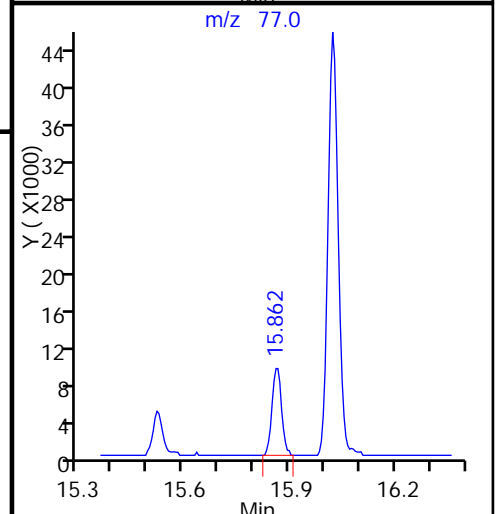
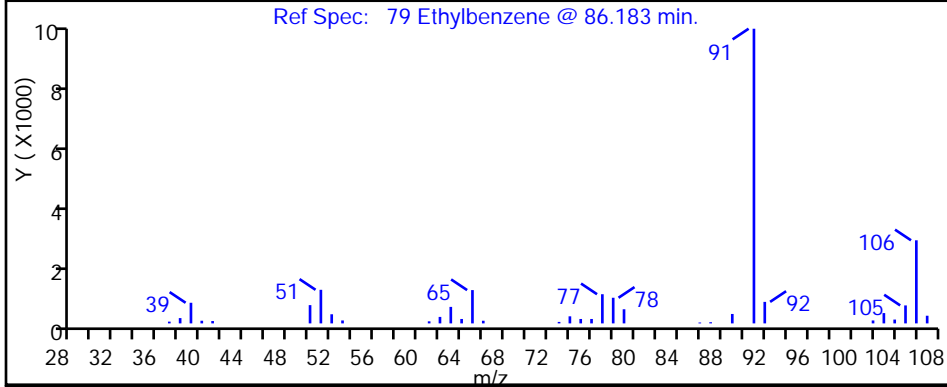
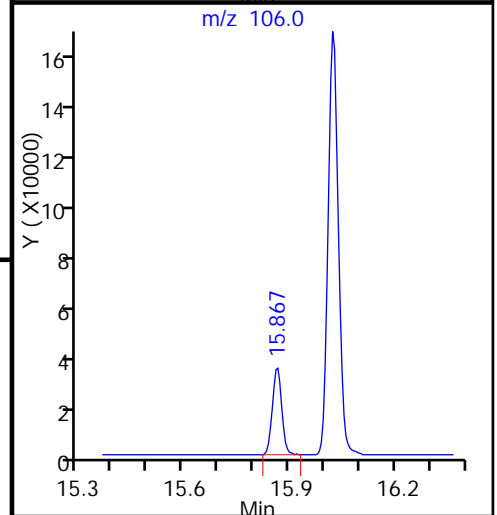
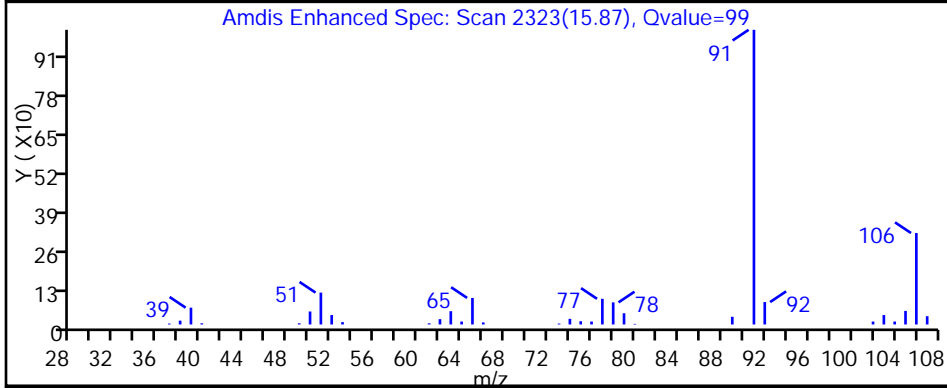
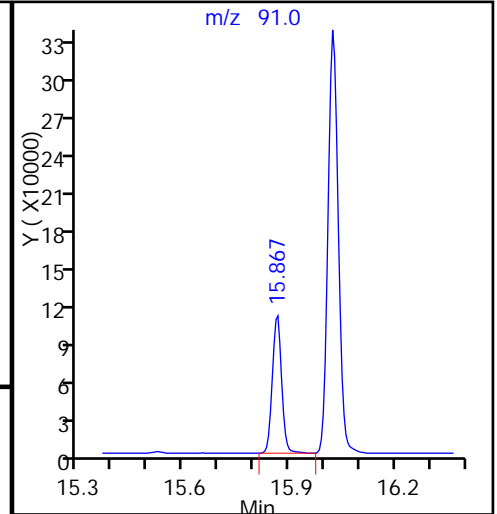
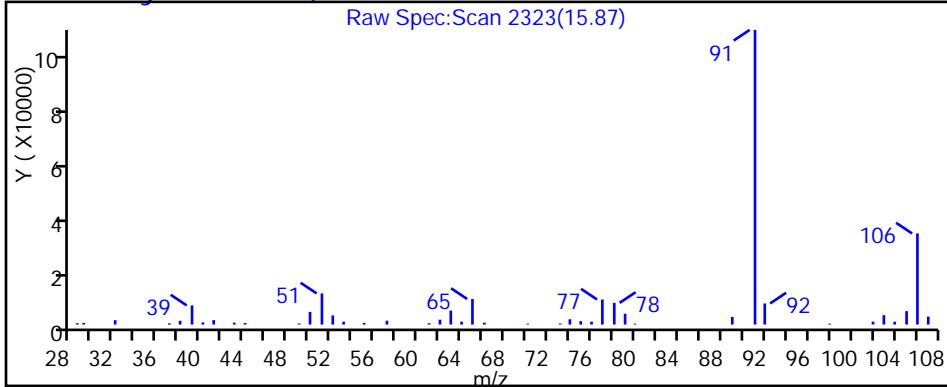
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

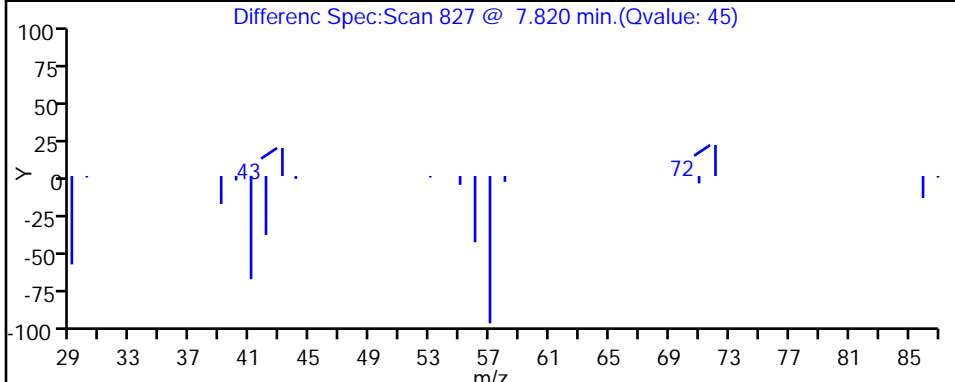
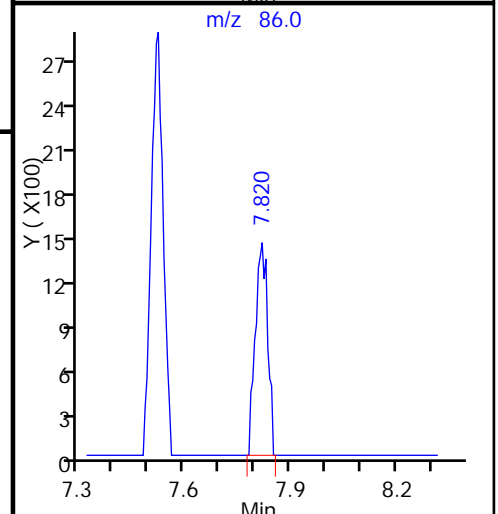
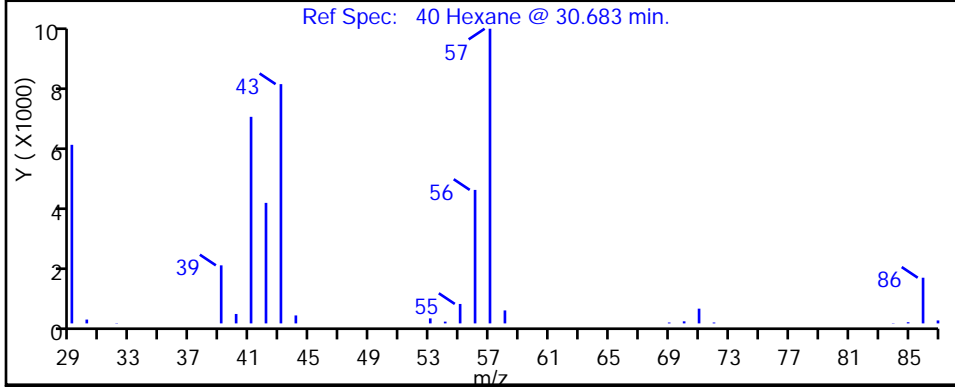
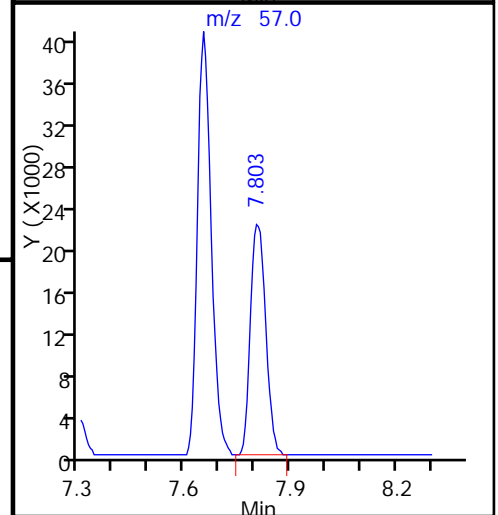
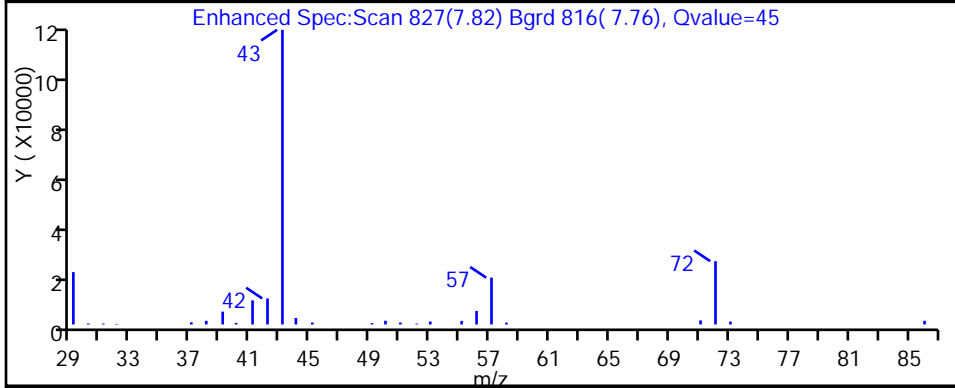
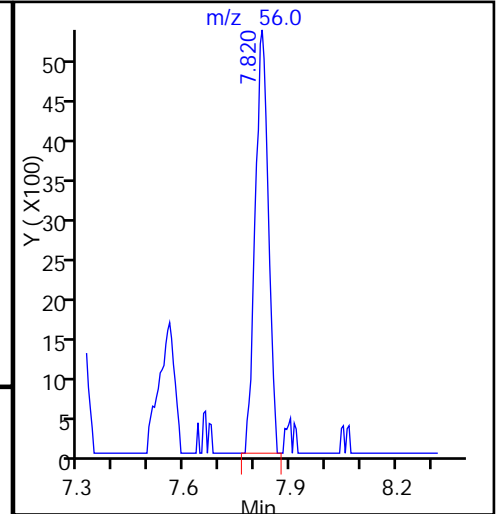
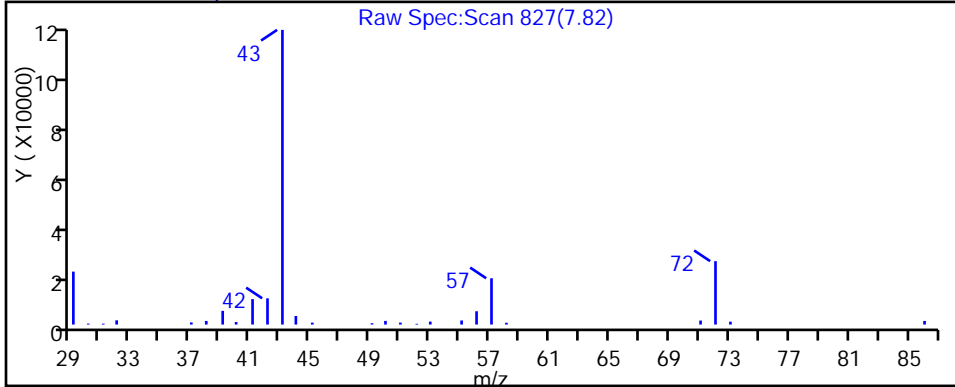
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

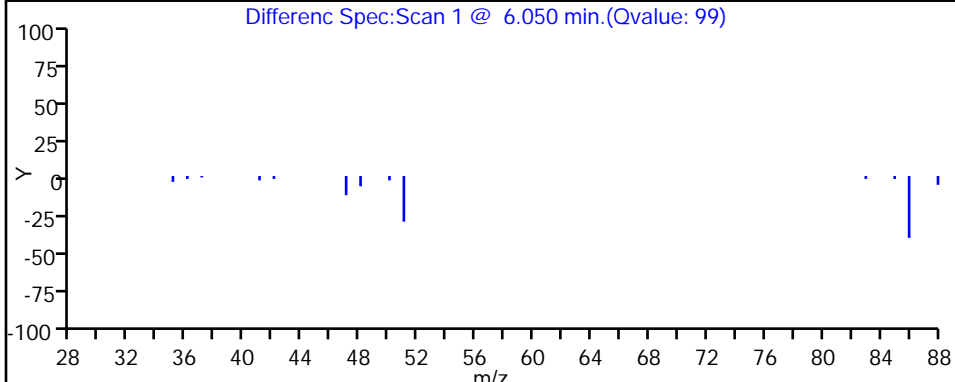
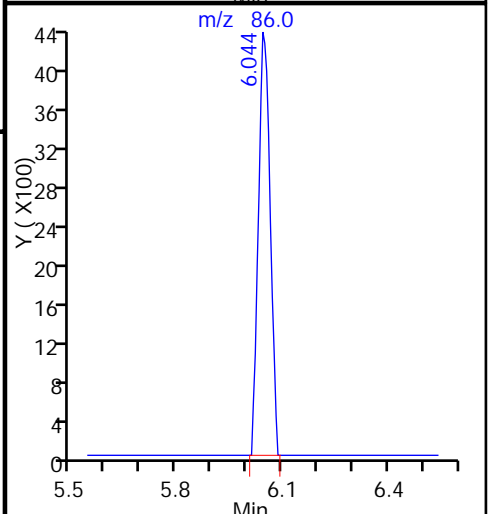
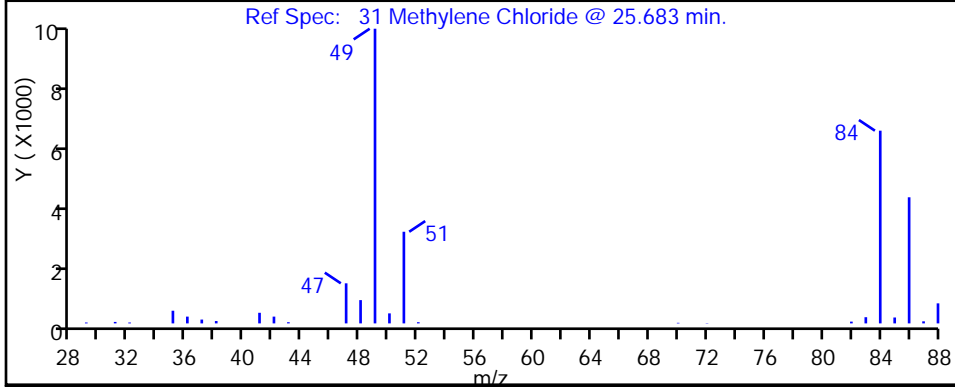
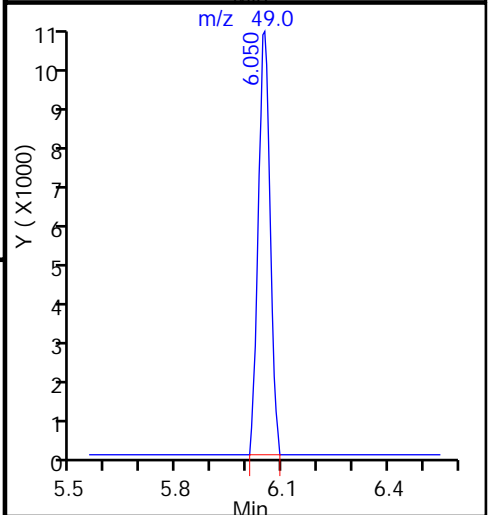
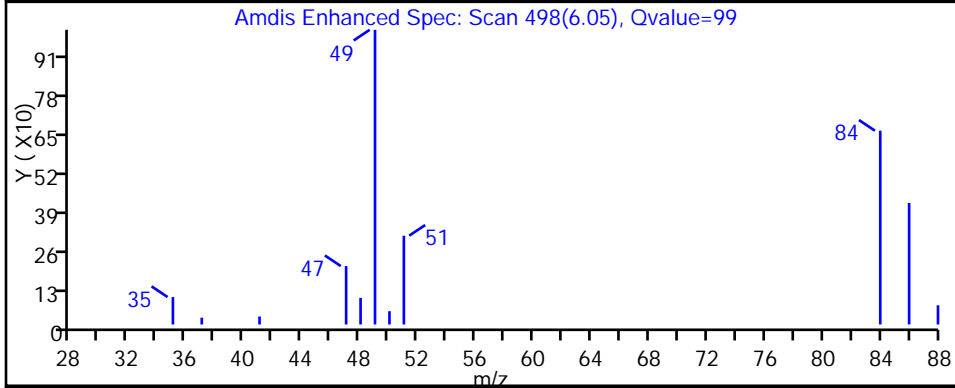
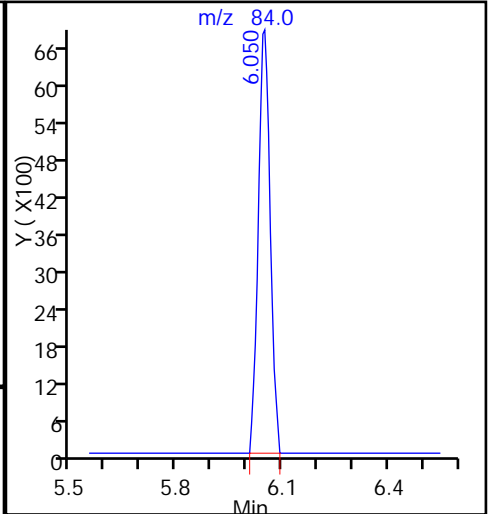
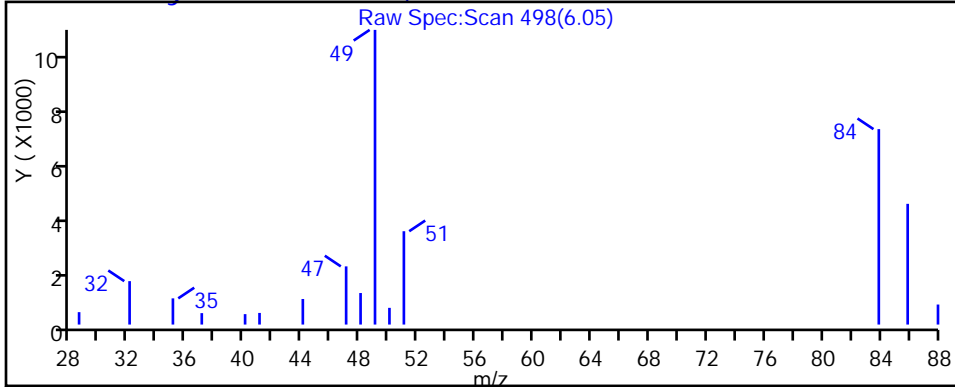
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

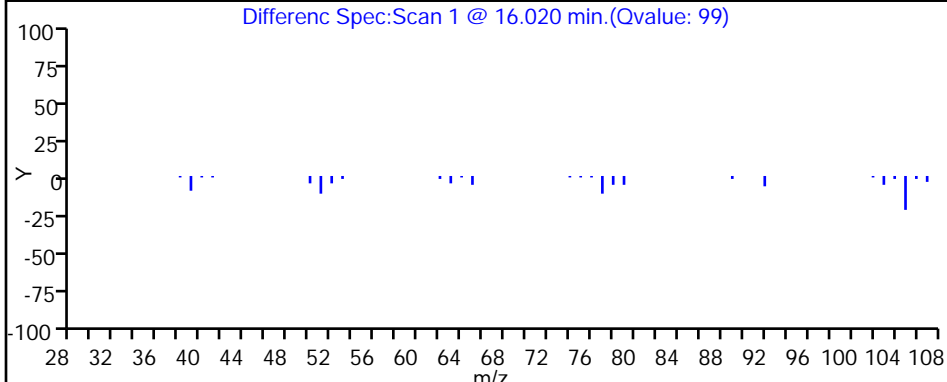
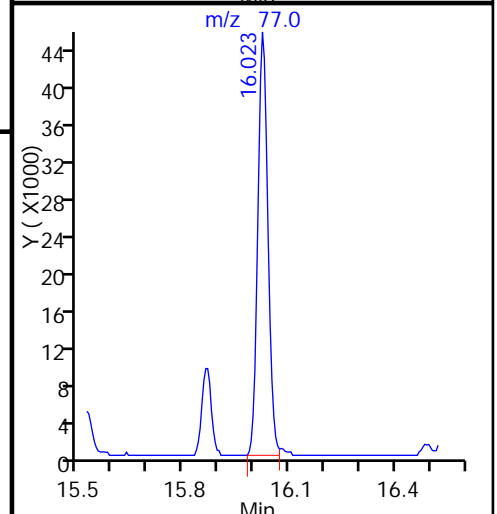
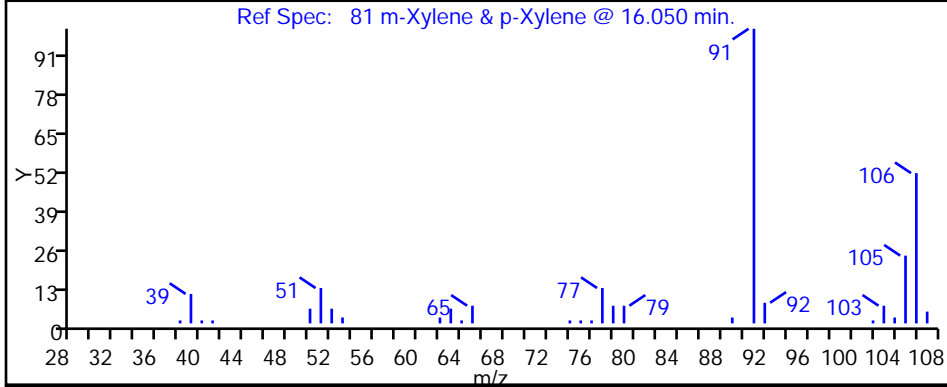
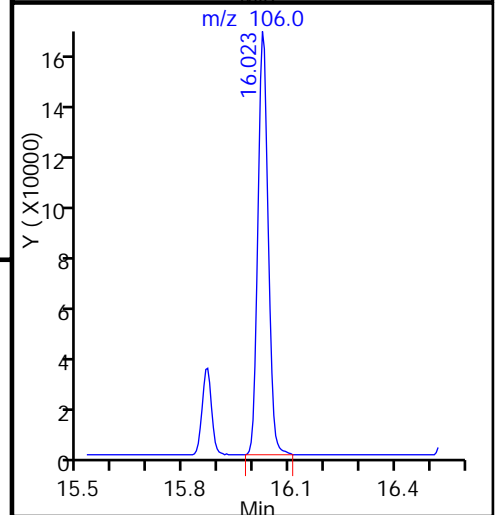
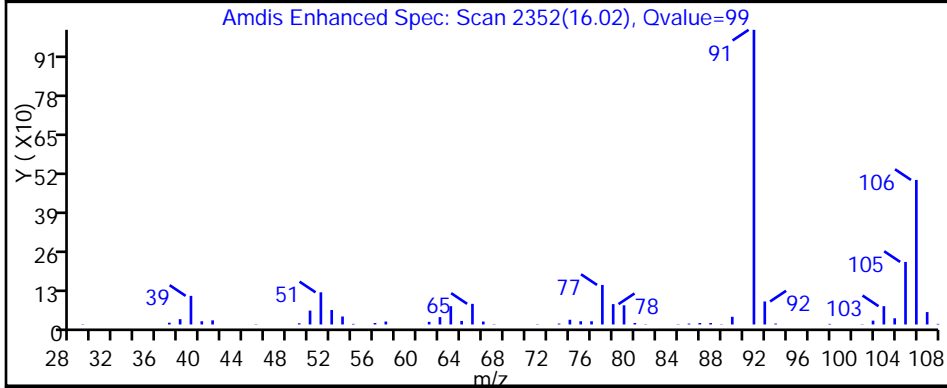
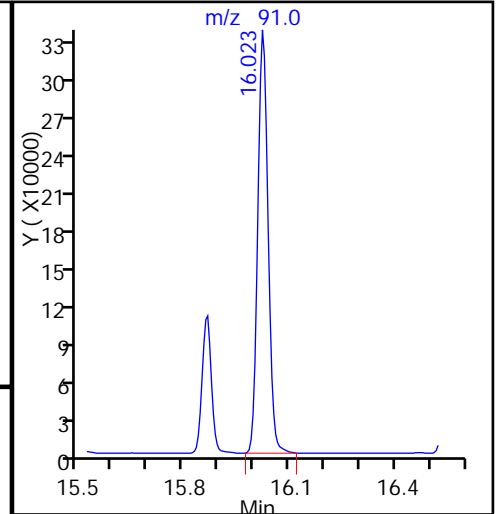
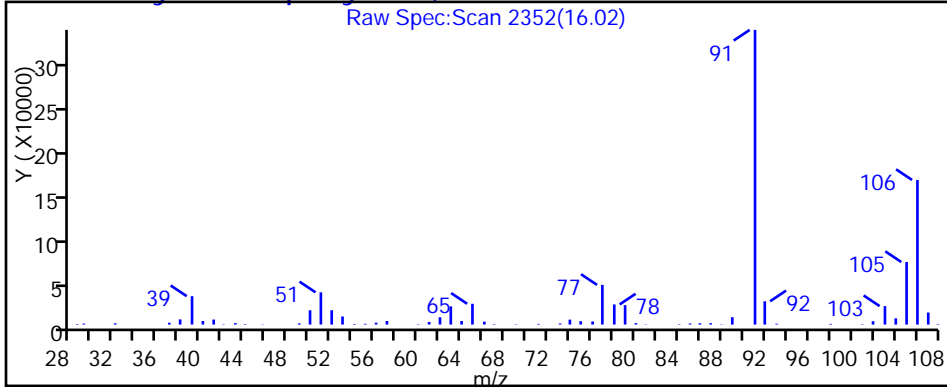
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

81 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

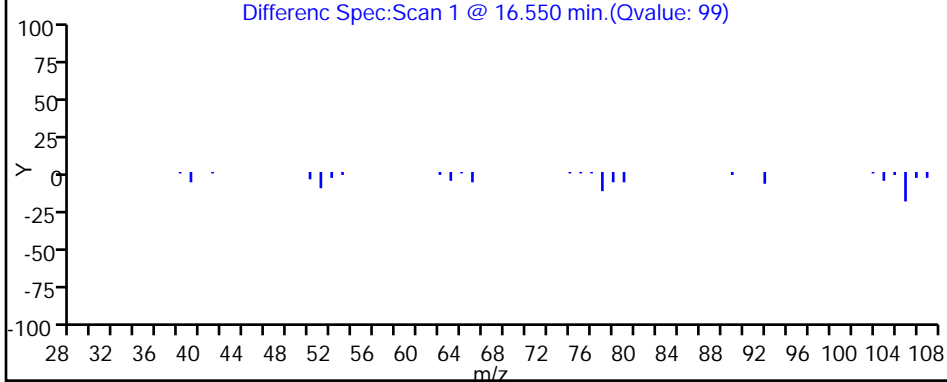
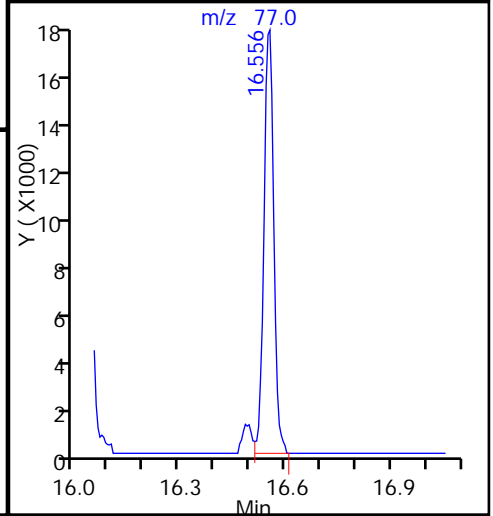
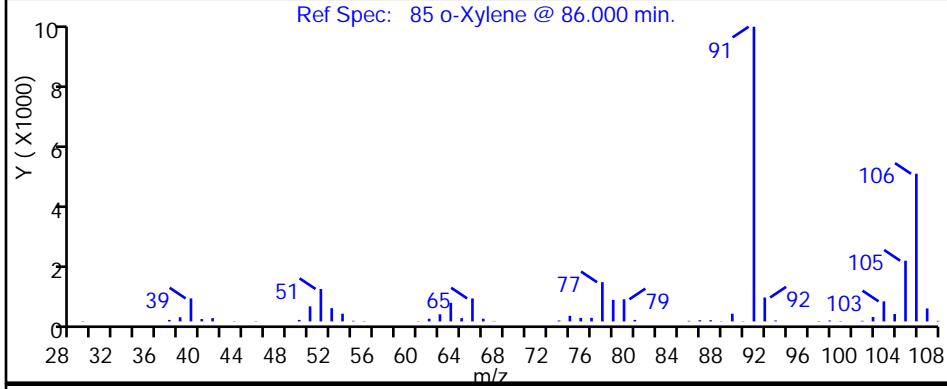
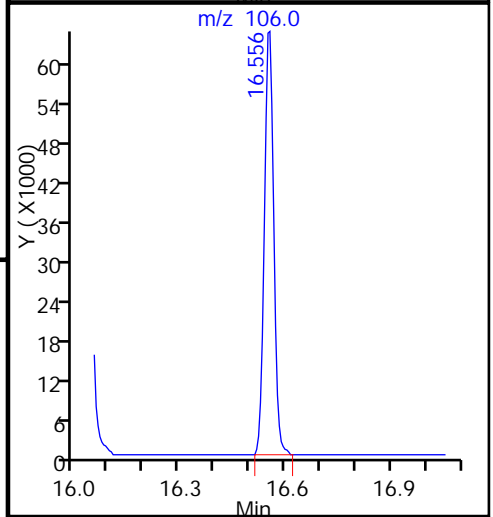
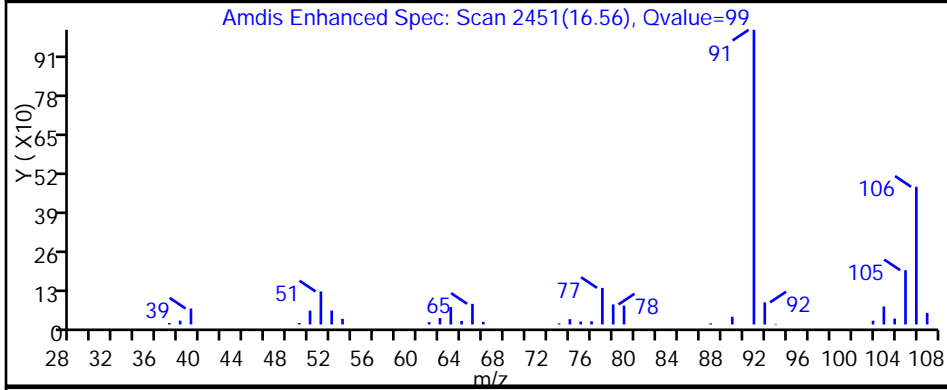
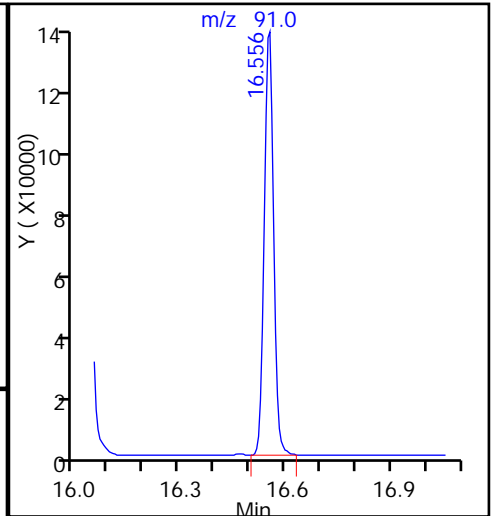
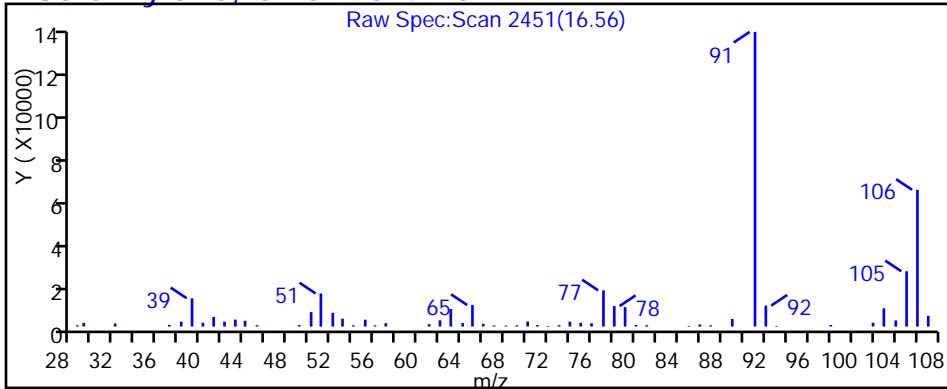
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

85 o-Xylene, CAS: 95-47-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

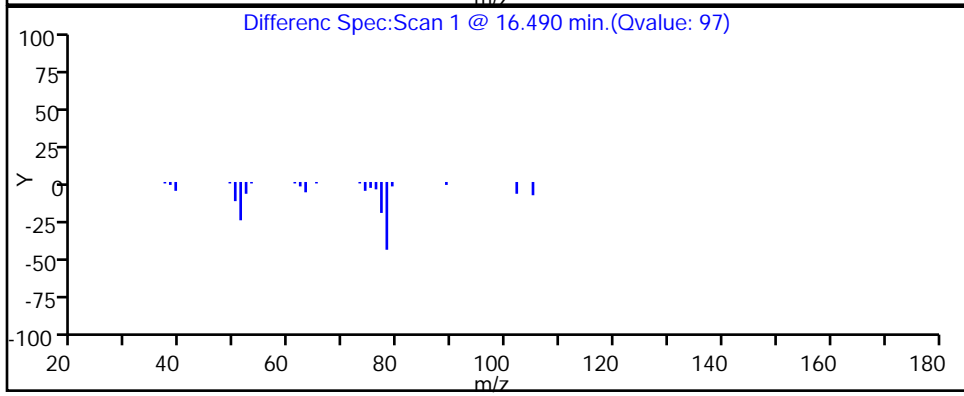
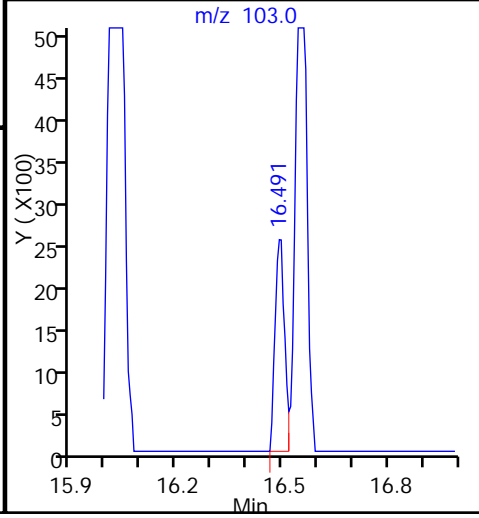
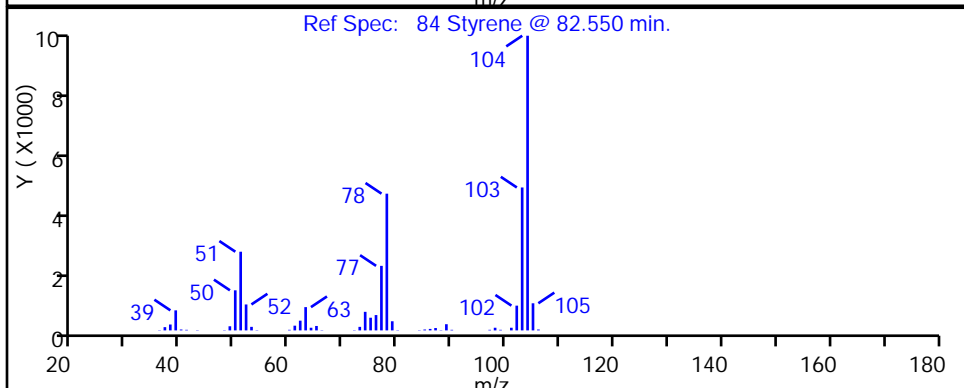
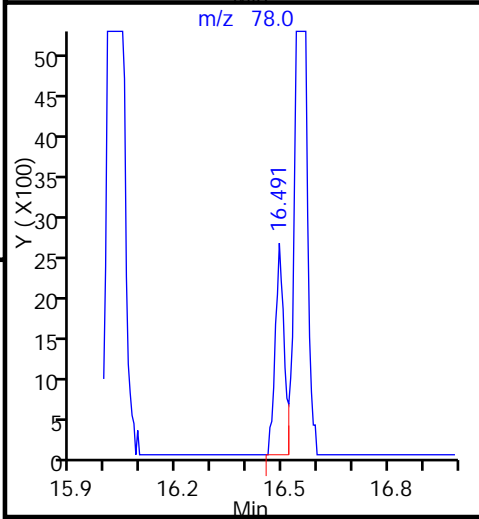
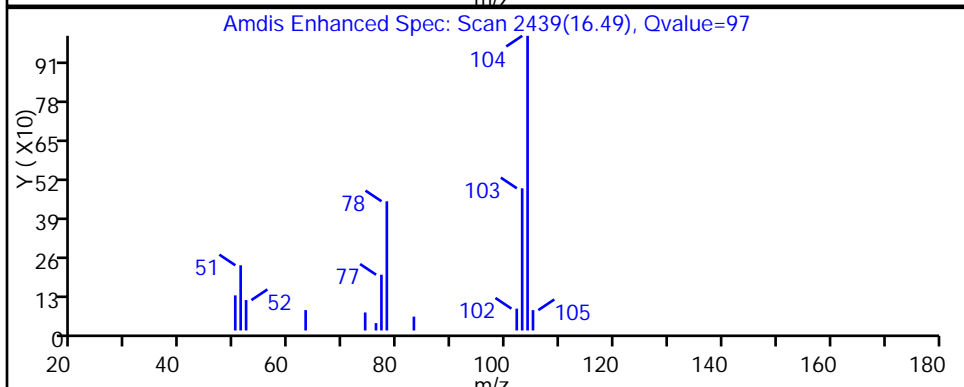
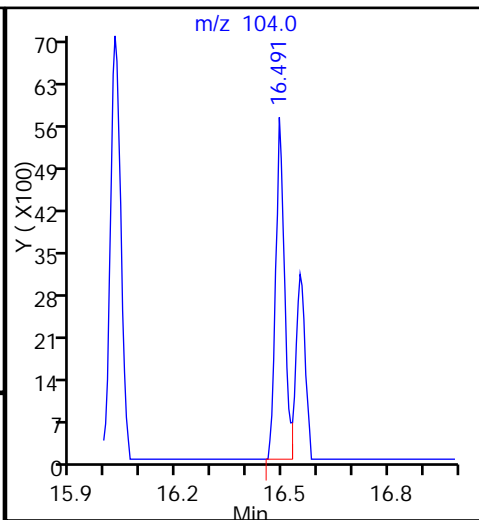
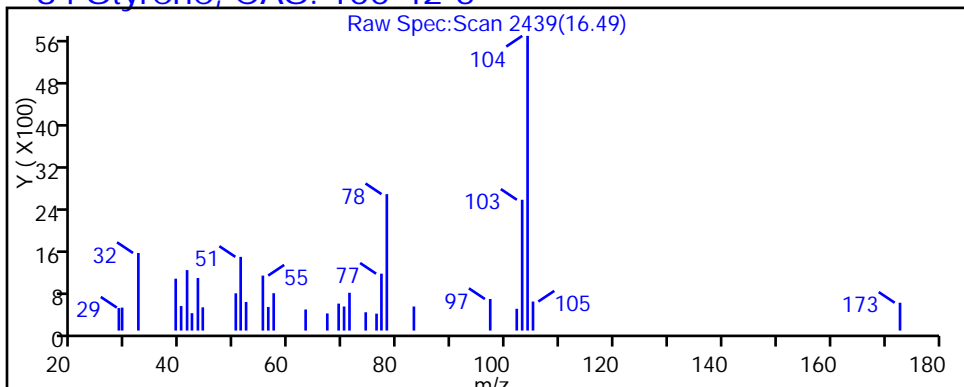
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

84 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

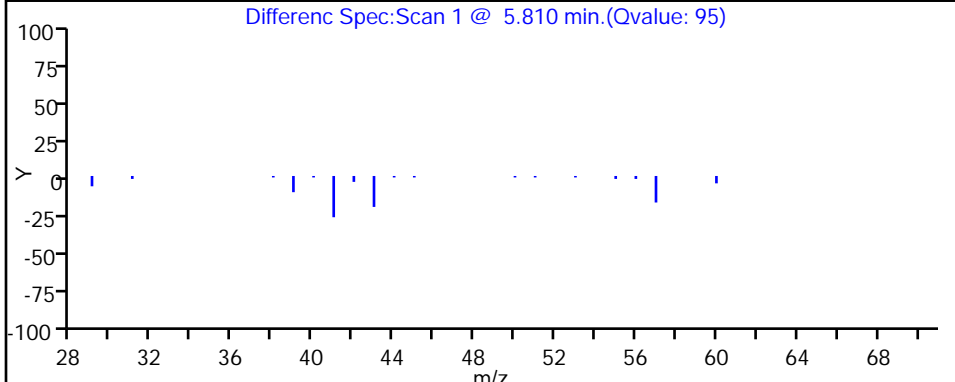
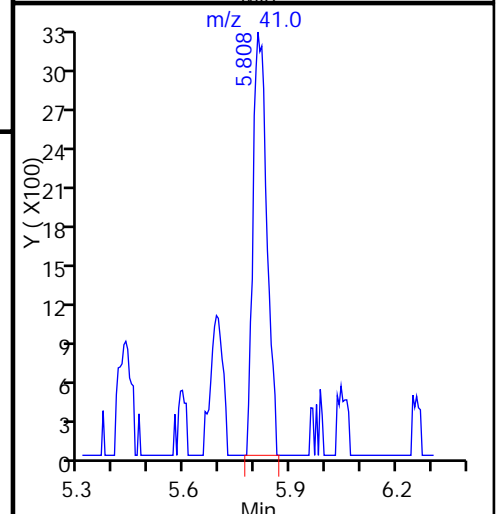
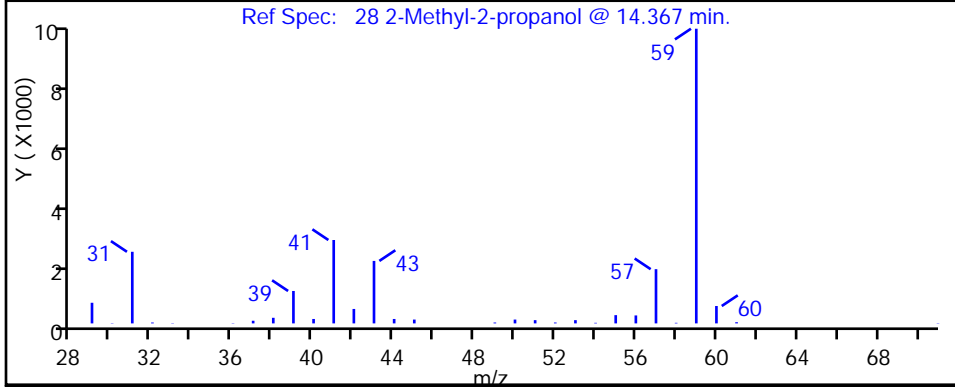
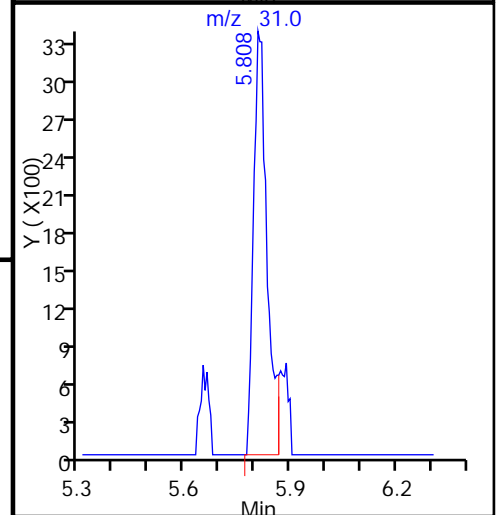
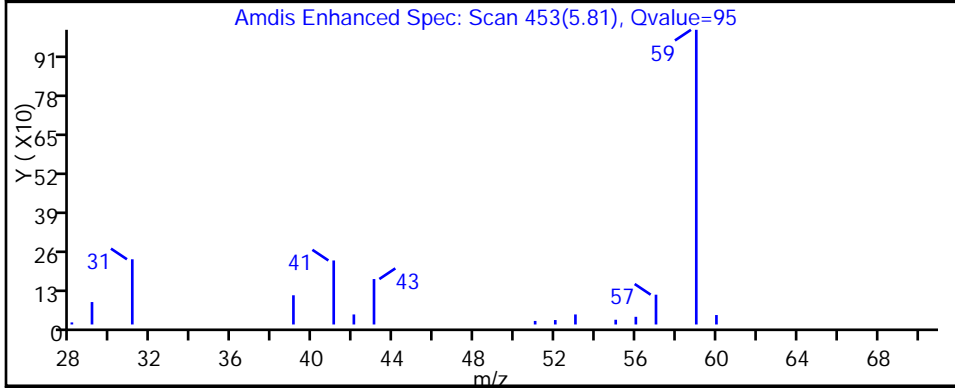
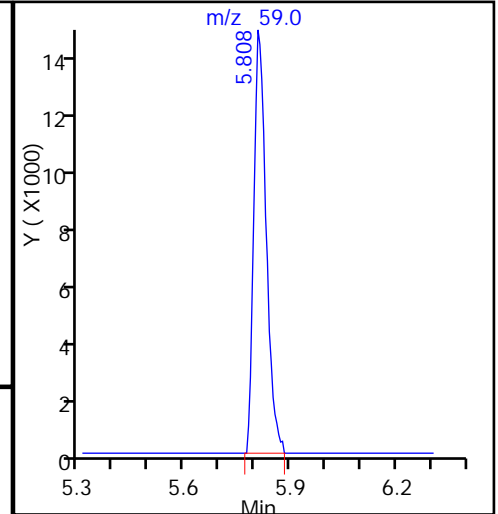
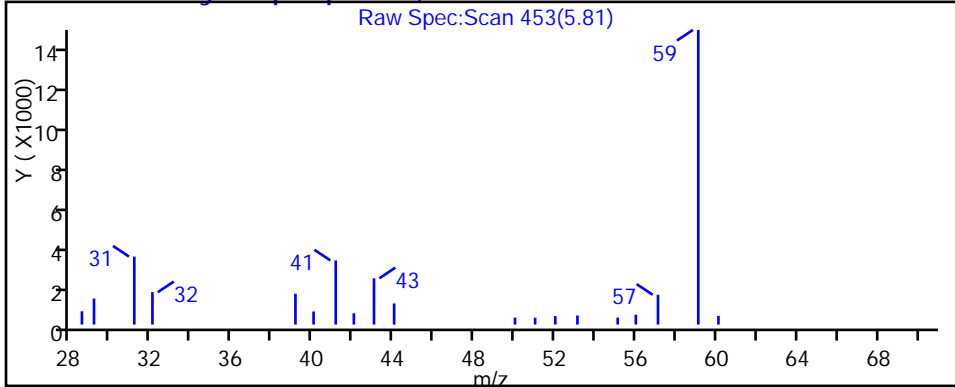
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

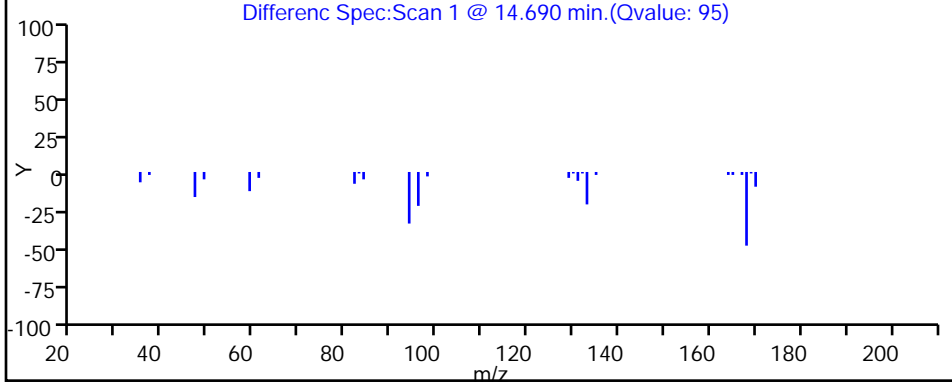
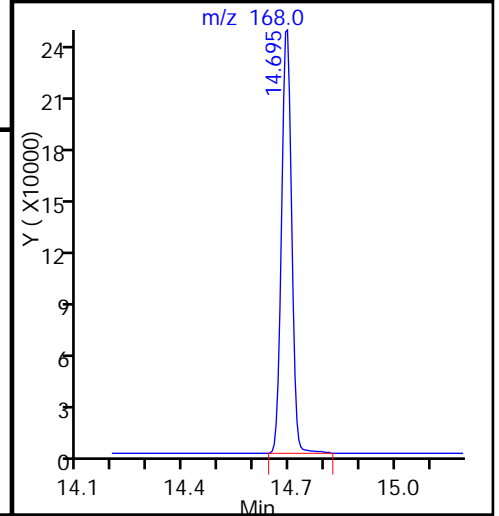
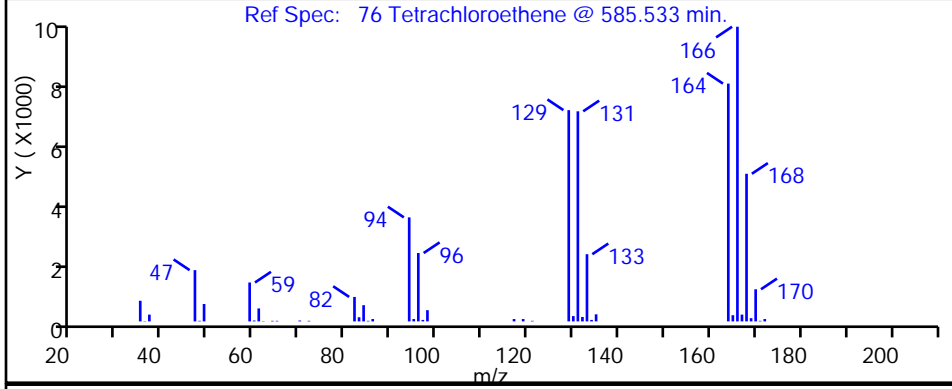
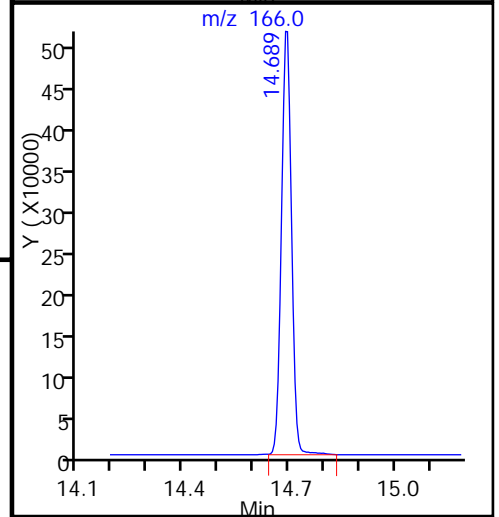
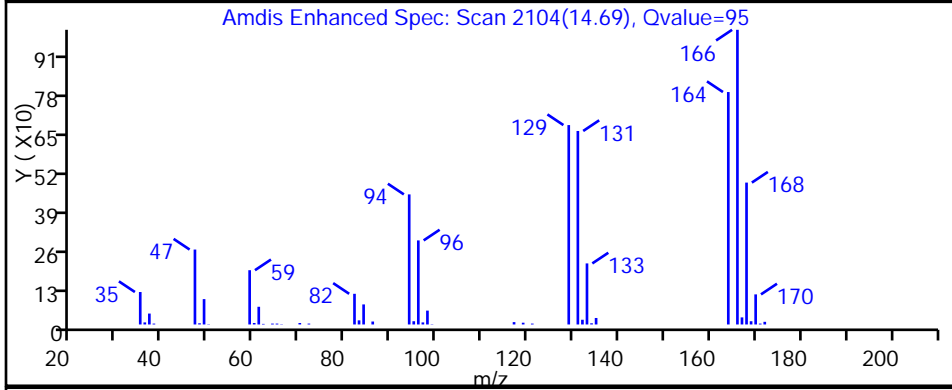
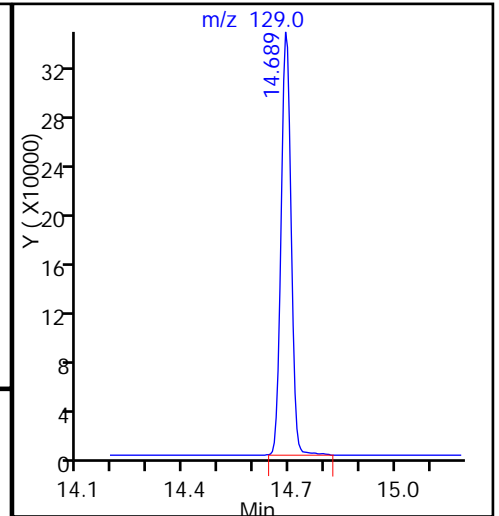
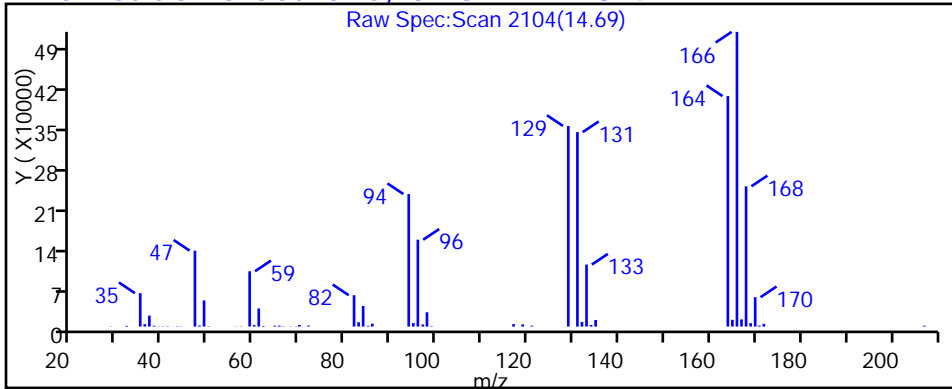
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

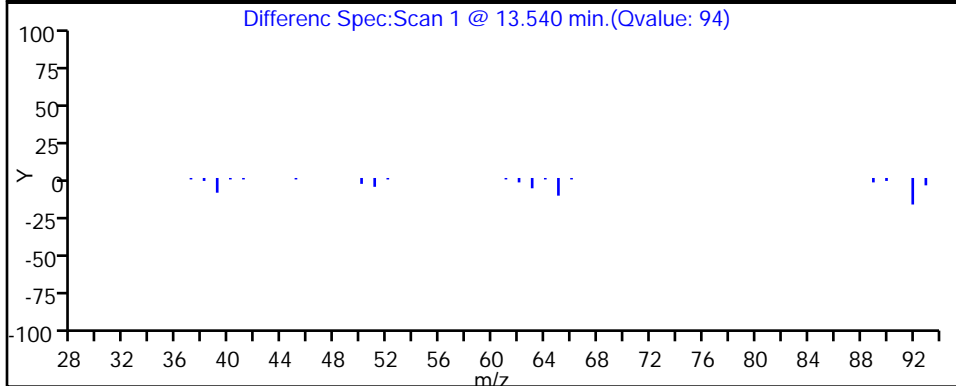
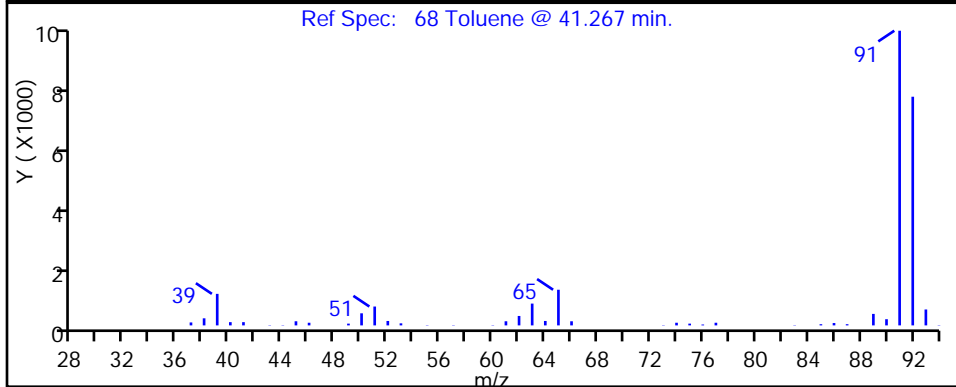
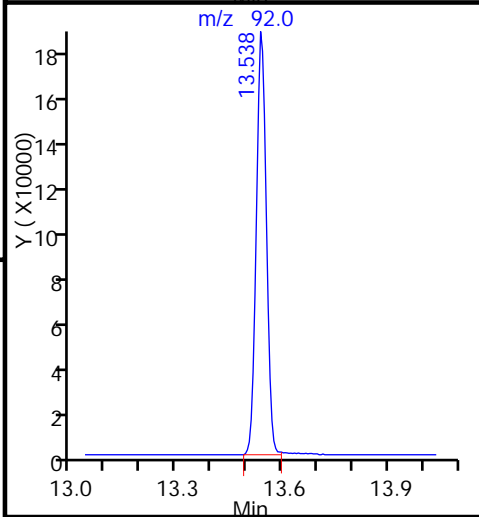
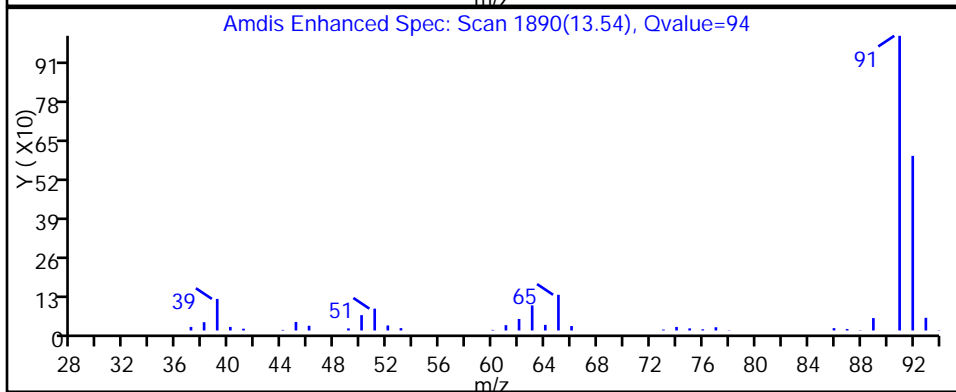
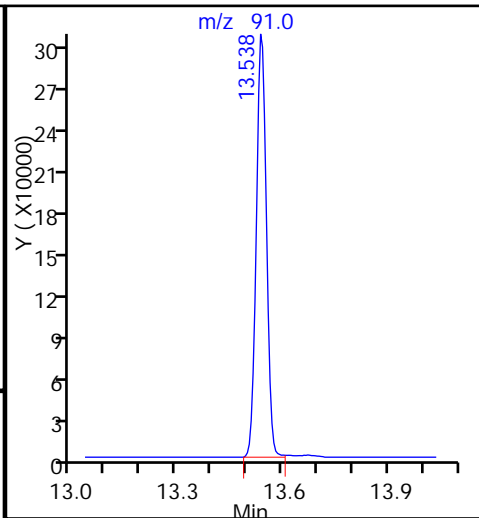
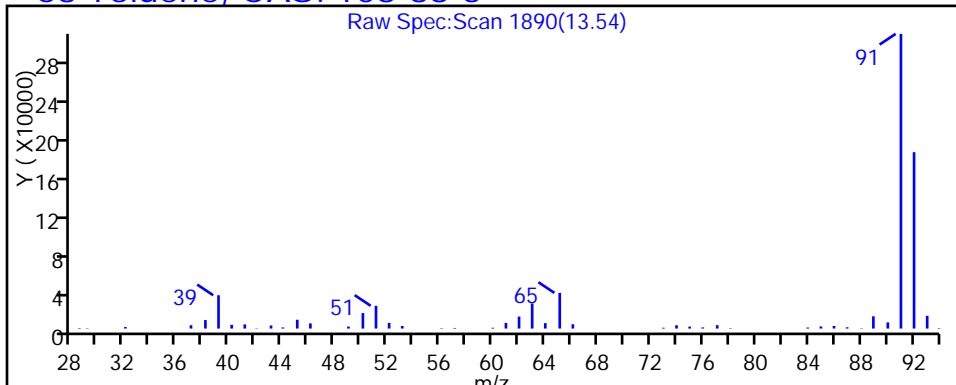
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

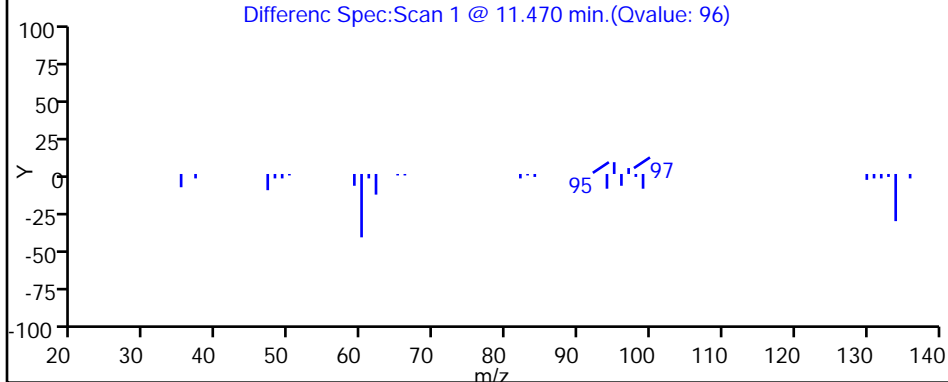
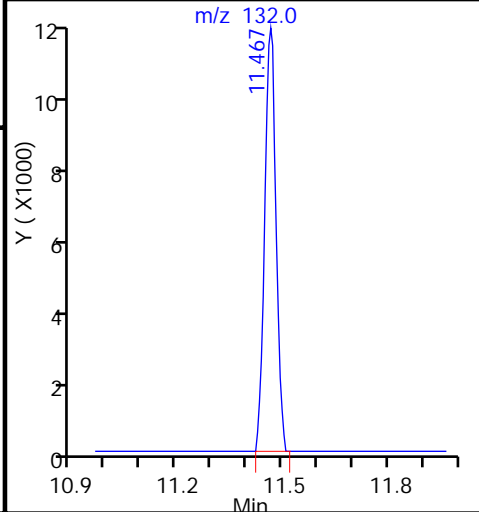
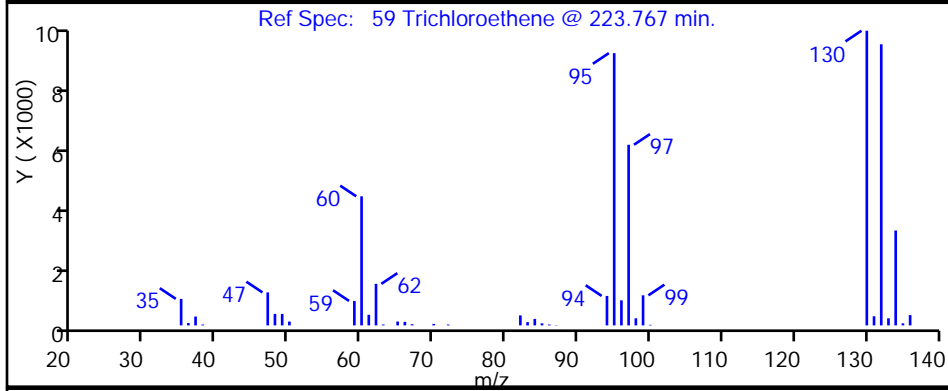
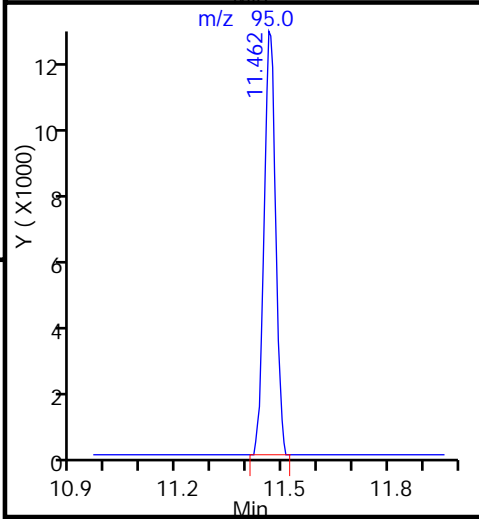
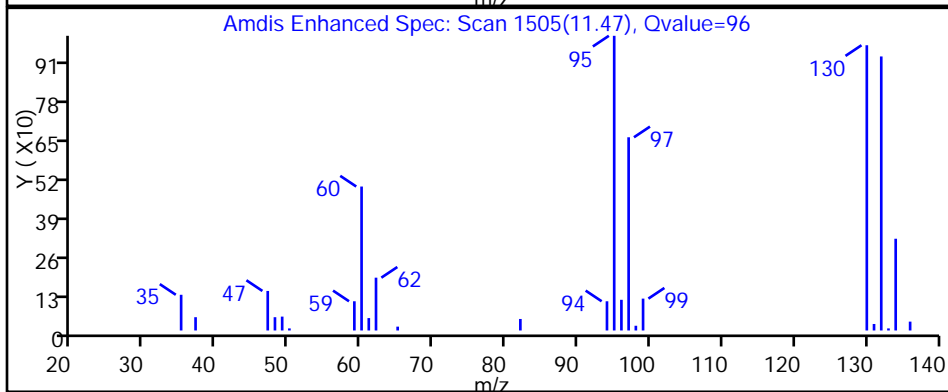
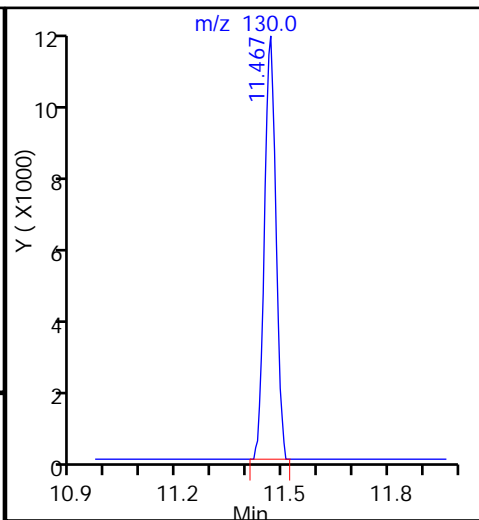
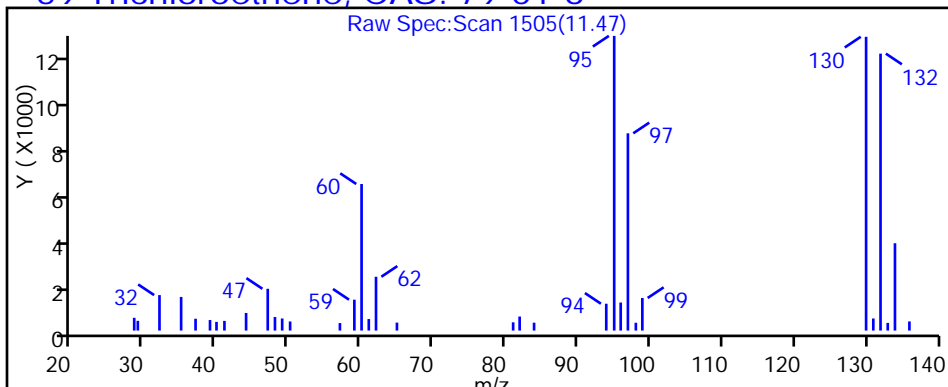
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

59 Trichloroethene, CAS: 79-01-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D

Injection Date: 27-Mar-2017 04:23:30

Instrument ID: MJ

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

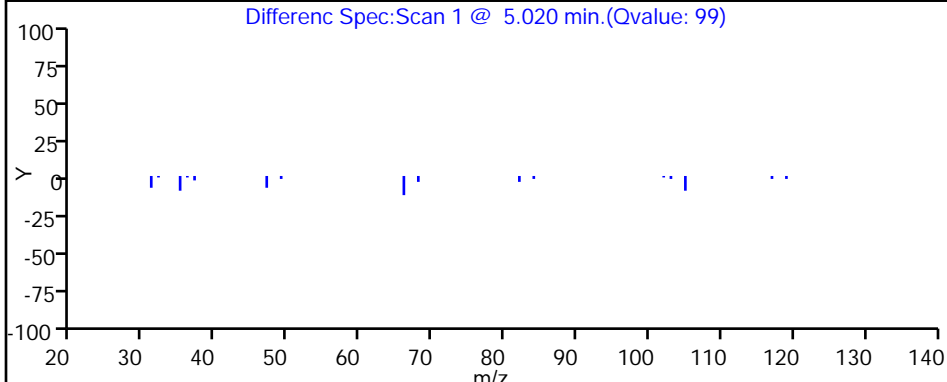
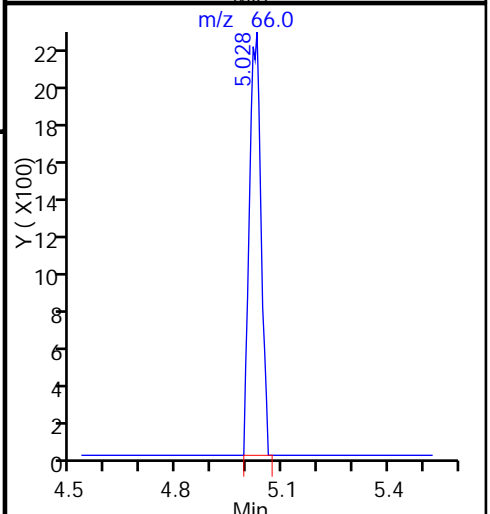
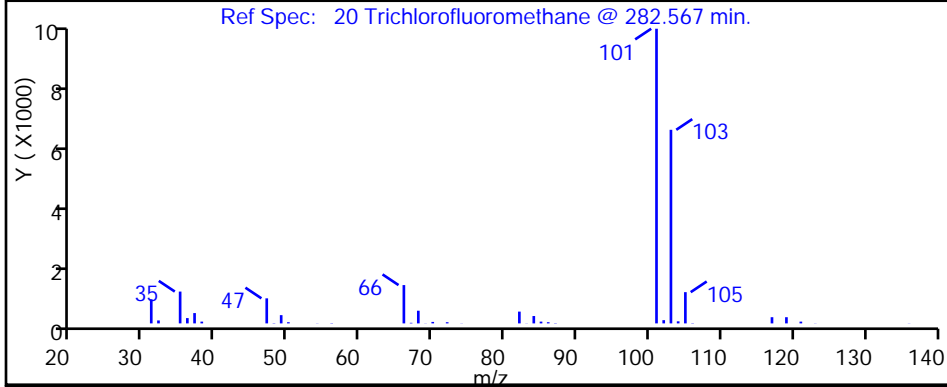
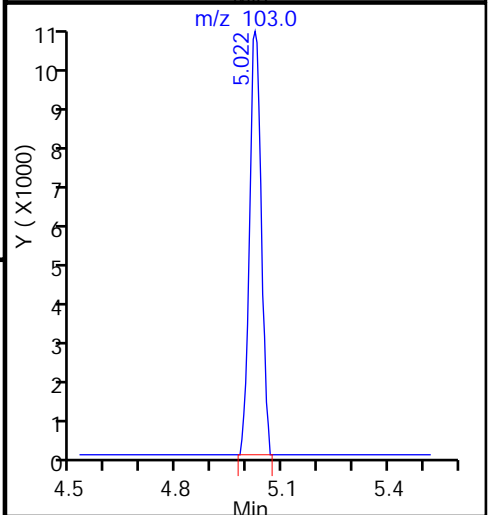
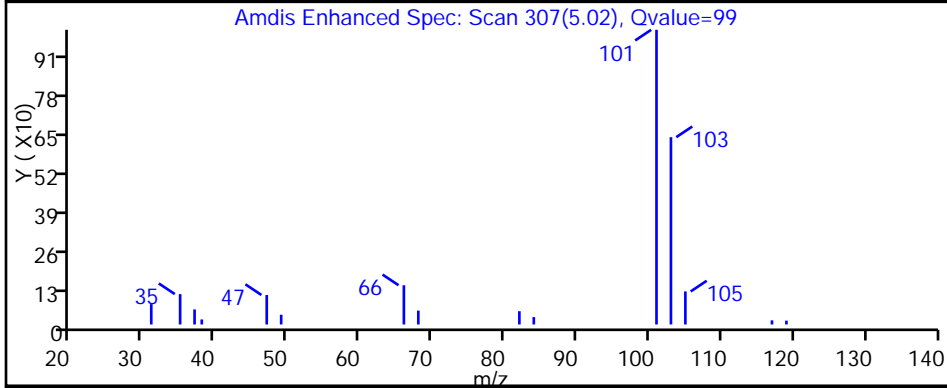
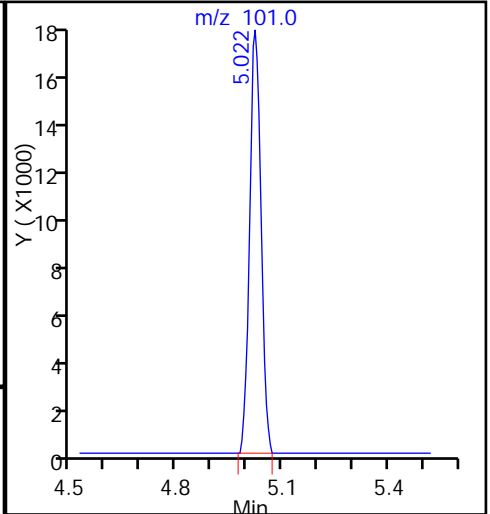
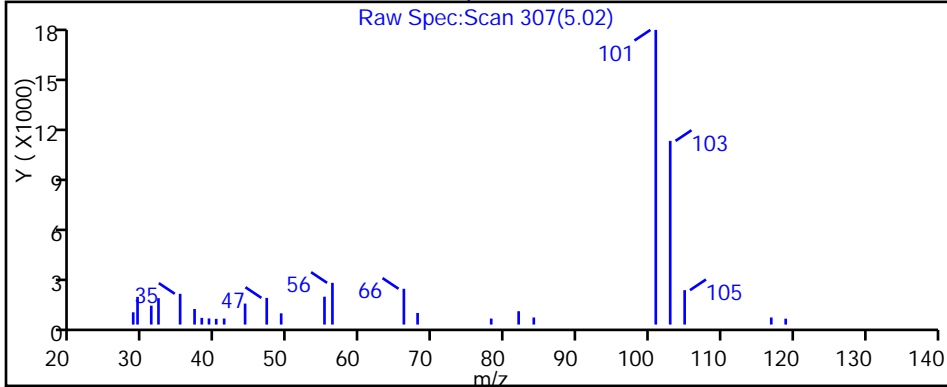
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Knoxville

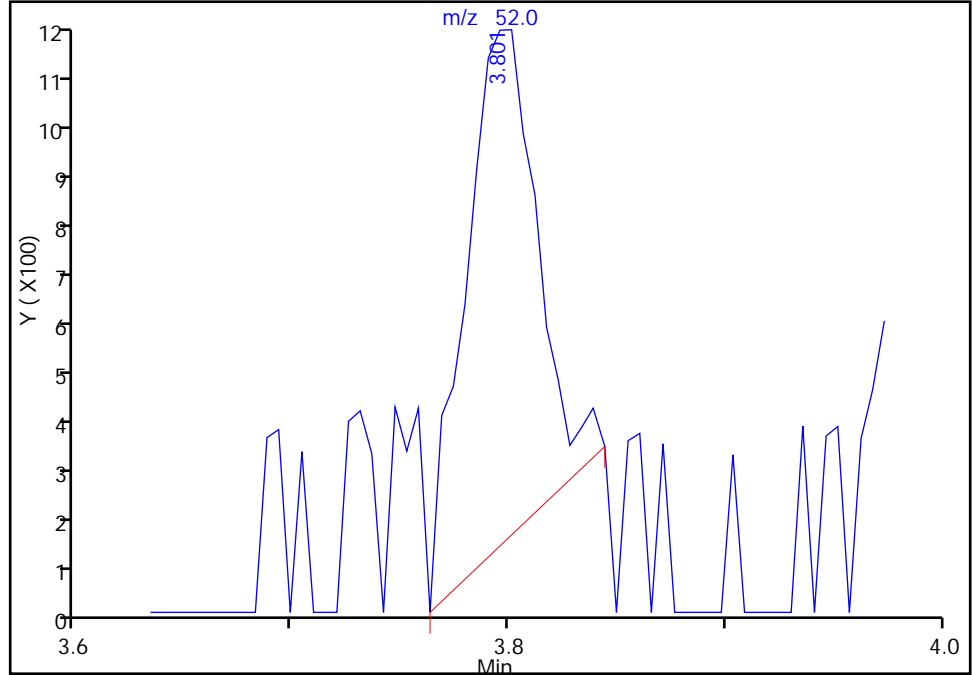
Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JC26P107.D
Injection Date: 27-Mar-2017 04:23:30 Instrument ID: MJ
Lims ID: 140-7503-A-7 Lab Sample ID: 140-7503-7
Client ID: SUBSLAB #4
Operator ID: 403648 ALS Bottle#: 7 Worklist Smp#: 23
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

Signal: 1

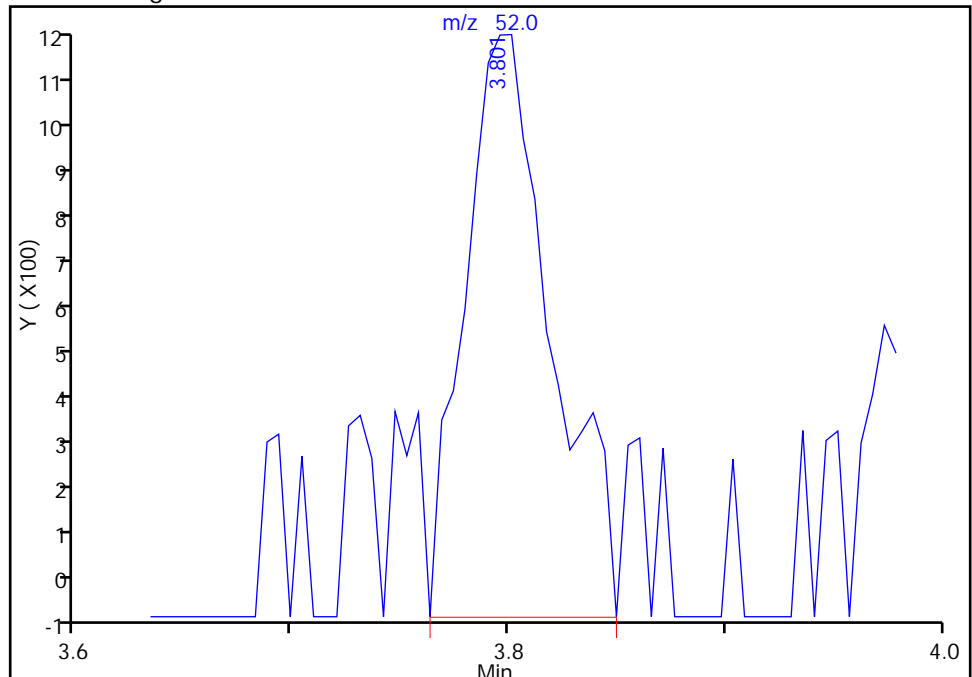
RT: 3.80
Area: 2283
Amount: 0.120575
Amount Units: ppb v/v

Processing Integration Results



RT: 3.80
Area: 3107
Amount: 0.164094
Amount Units: ppb v/v

Manual Integration Results



Reviewer: tajh, 27-Mar-2017 15:43:23
Audit Action: Manually Integrated

Audit Reason: Baseline

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 DL Lab Sample ID: 140-7503-7 DL
 Matrix: Air Lab File ID: GC28P114.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 50 (mL) Date Analyzed: 03/29/2017 04:28
 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.: 9922 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	28	D	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 DL Lab Sample ID: 140-7503-7 DL
 Matrix: Air Lab File ID: GC28P114.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 50 (mL) Date Analyzed: 03/29/2017 04:28
 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.: 9922 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	120	D	8.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P114.D
 Lims ID: 140-7503-A-7
 Client ID: SUBSLAB #4
 Sample Type: Client
 Inject. Date: 29-Mar-2017 04:28:30 ALS Bottle#: 14 Worklist Smp#: 27
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-027
 Misc. Info.: 140-7503-a-7
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:50:30 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh Date: 29-Mar-2017 10:05:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.001	7.996	0.005	75	234075	4.00	
* 2 1,4-Difluorobenzene	114	10.164	10.158	0.006	95	1106443	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.022	15.028	-0.006	88	1169167	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.694	16.699	-0.005	93	958854	4.15	
8 Dichlorodifluoromethane	85	3.564	3.520	0.044	100	12838	0.0518	
20 Trichlorofluoromethane	101	4.782	4.750	0.032	97	6411	0.0260	
29 2-Methyl-2-propanol	59	5.499	5.467	0.032	96	13756	0.1448	
31 Methylene Chloride	84	5.688	5.661	0.027	83	5875	0.1044	
39 2-Butanone (MEK)	72	7.306	7.273	0.033	98	9272	0.3481	
40 Hexane	56	7.360	7.338	0.022	28	746	0.0161	
49 Benzene	78	9.581	9.576	0.005	96	5153	0.0274	
56 Isooctane	57	10.417	10.412	0.005	84	6276	0.0225	
59 Trichloroethene	130	10.897	10.892	0.005	94	3253	0.0319	
65 4-Methyl-2-pentanone (MIBK	43	12.121	12.121	0.000	95	306593	2.84	
68 Toluene	91	13.016	13.016	0.000	91	55913	0.2401	
76 Tetrachloroethene	129	14.186	14.186	0.000	93	84729	0.7953	
79 Ethylbenzene	91	15.384	15.384	0.000	99	19178	0.0589	
81 m-Xylene & p-Xylene	91	15.551	15.556	-0.005	99	67898	0.2584	
85 o-Xylene	91	16.079	16.079	0.000	97	25730	0.0958	
92 1,3,5-Trimethylbenzene	120	17.368	17.487	-0.119	84	8327	0.0483	
96 1,2,4-Trimethylbenzene	105	17.945	17.950	-0.005	98	28937	0.0877	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P114.D

Injection Date: 29-Mar-2017 04:28:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Worklist Smp#: 27

Client ID: SUBSLAB #4

Purge Vol: 500.000 mL

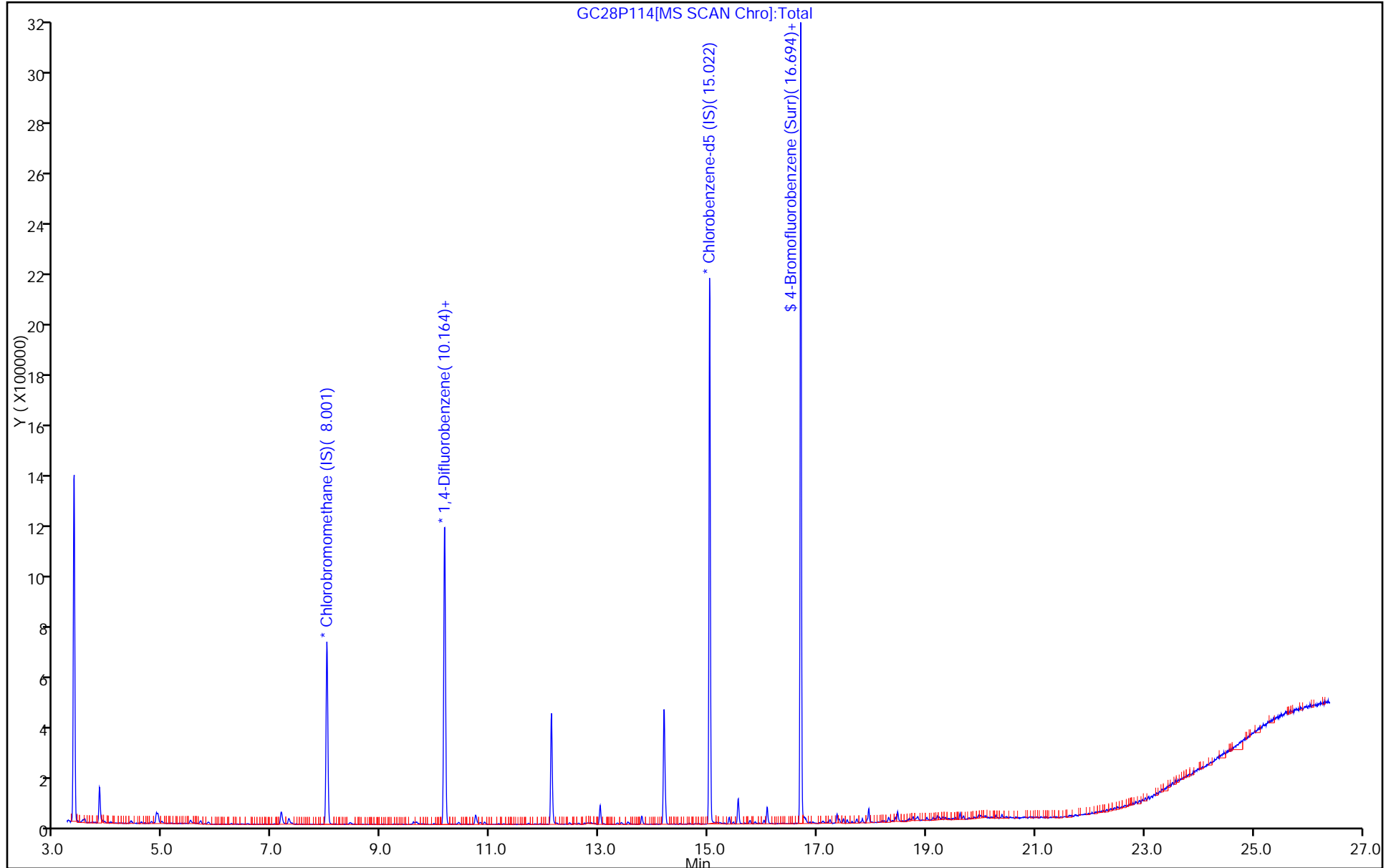
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P114.D
 Lims ID: 140-7503-A-7
 Client ID: SUBSLAB #4
 Sample Type: Client
 Inject. Date: 29-Mar-2017 04:28:30 ALS Bottle#: 14 Worklist Smp#: 27
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-027
 Misc. Info.: 140-7503-a-7
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:50:30 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh Date: 29-Mar-2017 10:05:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.15	103.75

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GC28P114.D

Injection Date: 29-Mar-2017 04:28:30

Instrument ID: MG

Lims ID: 140-7503-A-7

Lab Sample ID: 140-7503-7

Client ID: SUBSLAB #4

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 27

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

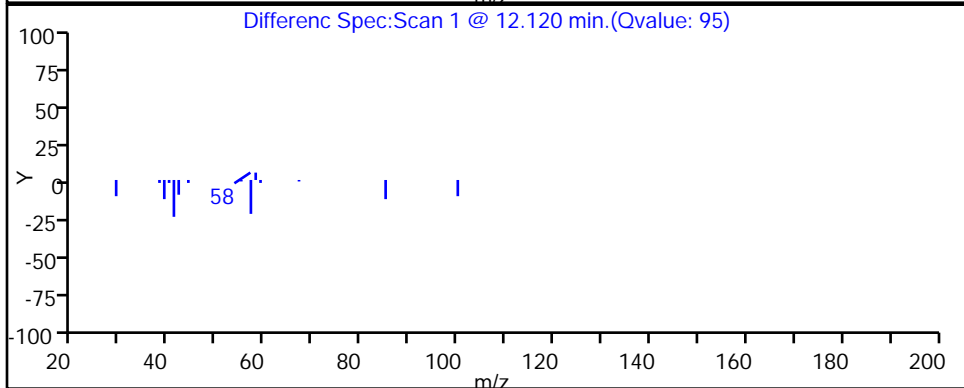
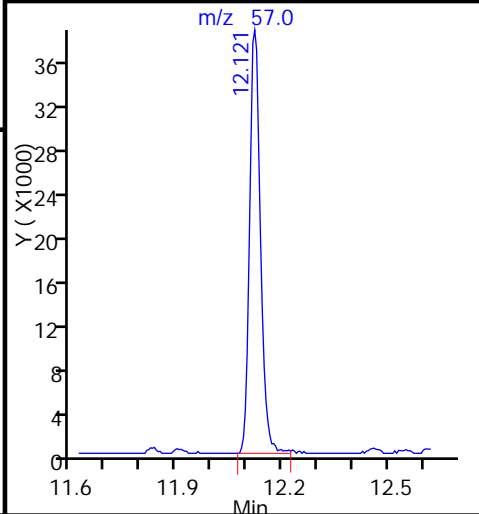
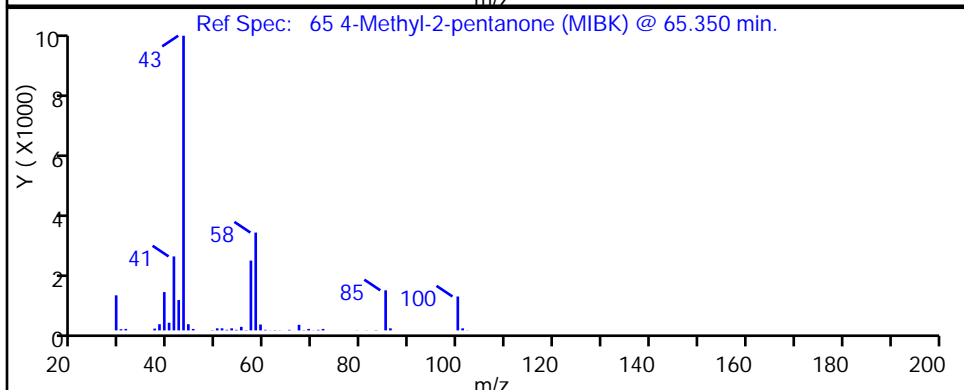
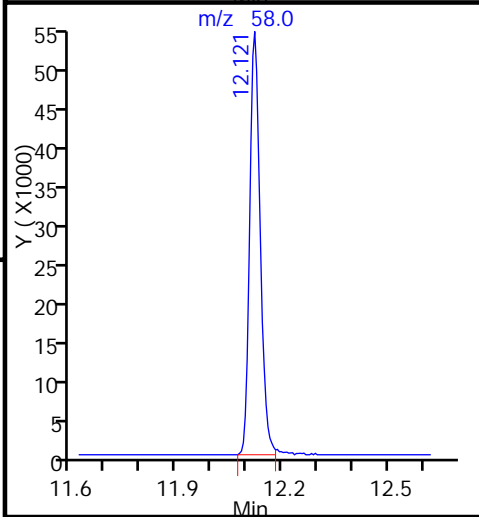
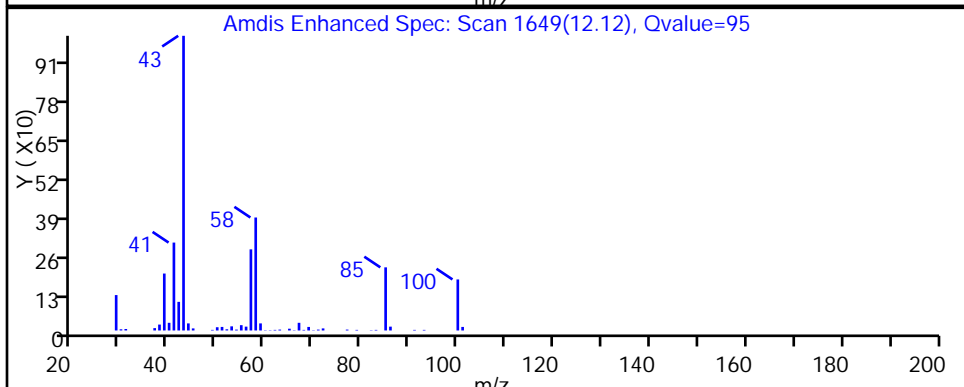
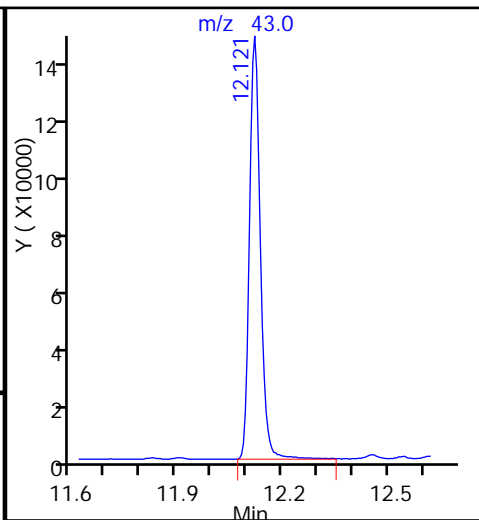
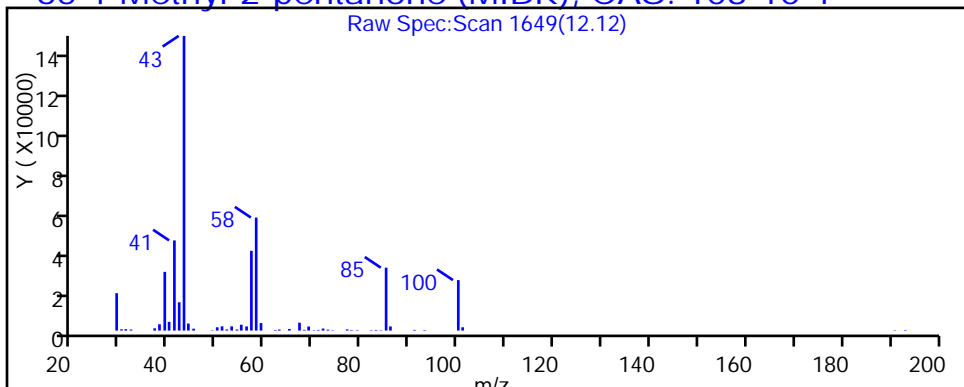
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

65 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9482

SDG No.: _____

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

Calibration Start Date: 03/15/2017 14:36 Calibration End Date: 03/15/2017 20:21 Calibration ID: 962

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-9482/3	GC15IC01.D
Level 2	IC 140-9482/4	GC15IC02.D
Level 3	IC 140-9482/5	GC15IC03.D
Level 4	IC 140-9482/6	GC15IC04.D
Level 5	IC 140-9482/7	GC15IC05.D
Level 6	ICIS 140-9482/8	GC15IC06.D
Level 7	IC 140-9482/9	GC15IC07.D
Level 8	IC 140-9482/10	GC15IC08.D
Level 9	IC 140-9482/11	GC15IC09.D

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													
Chlorodifluoromethane	+++++ 0.4492	0.5243 0.4243	0.4768 0.3958	0.4692 0.3664	0.4517	Ave	0.4447				11.1	30.0					
Propene	1.2559 1.0478	1.2382 0.9657	1.1468 0.8917	1.1084 0.7546	1.1130	Ave	1.0580				15.4	30.0					
Dichlorodifluoromethane	4.8320 4.2127	4.6343 3.9990	4.3917 3.8216	4.2891 3.5675	4.3531	Ave	4.2334				9.3	30.0					
Chloromethane	+++++ 0.2919	+++++ 0.2699	0.3511 0.2437	0.3157 0.2157	0.3055	Ave	0.2848				16.0	30.0					
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.6647 2.4528	2.7171 2.4377	2.5660 2.4240	2.4867 2.4540	2.4764	Ave	2.5199				4.2	30.0					
Acetaldehyde	+++++ 0.3520	+++++ 0.3138	+++++ 0.2823	0.4204 0.2466	0.3916	Ave	0.3344				19.8	30.0					
Vinyl chloride	1.3581 1.1850	1.3052 1.0914	1.2835 1.0073	1.2092 0.8963	1.1952	Ave	1.1701				12.7	30.0					
1,3-Butadiene	0.8307 0.8039	0.8697 0.7476	0.8308 0.6849	0.8235 0.6065	0.8156	Ave	0.7793				10.8	30.0					
Butane	2.0474 1.6504	1.8888 1.5358	1.8200 1.3619	1.7380 1.1943	1.6862	Ave	1.6581				15.9	30.0					
Bromomethane	1.2729 1.1473	1.2685 1.1211	1.1982 1.0600	1.1615 1.0020	1.1747	Ave	1.1562				7.7	30.0					
Chloroethane	0.6202 0.5523	0.6462 0.5375	0.5992 0.5102	0.5796 0.4698	0.5813	Ave	0.5663				9.7	30.0					
Ethanol	0.4667 0.3882	0.4764 0.3730	0.4356 0.3514	0.4071 0.3093	0.4143	Ave	0.4025				13.4	30.0					
Vinyl bromide	1.1369 1.0936	1.2219 1.0624	1.1482 1.0193	1.1018 0.9772	1.1008	Ave	1.0958				6.6	30.0					

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9482
 SDG No.: _____
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/15/2017 14:36 Calibration End Date: 03/15/2017 20:21 Calibration ID: 962

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-Methylbutane	1.2979 1.1019	1.3019 1.0531	1.1814 0.9805	1.1311 0.9018	1.1319	Ave		1.1202			11.8		30.0				
Acrolein	++++ 0.1689	++++ 0.1838	0.1515 0.1664	0.1415 0.1869	0.1478	Ave		0.1638			10.8		30.0				
Trichlorofluoromethane	4.8982 4.1780	4.5033 4.0365	4.2099 3.8886	4.2004 3.7805	4.2513	Ave		4.2163			7.9		30.0				
Acetonitrile	++++ 0.3455	++++ 0.3253	++++ 0.3091	0.3670 0.2962	0.3713	Ave		0.3357			9.2		30.0				
Acetone	++++ 0.3988	++++ 0.3747	++++ 0.3572	0.4582 0.3327	0.4350	Ave		0.3928			12.1		30.0				
Pentane	++++ 0.2081	0.2306 0.1963	0.2111 0.1889	0.2019 0.1831	0.2097	Ave		0.2037			7.3		30.0				
Isopropyl alcohol	++++ 1.3318	++++ 1.2860	1.4634 1.2076	1.5818 1.2506	1.3883	Ave		1.3585			9.6		30.0				
Ethyl ether	0.9382 0.9126	1.0226 0.8738	0.9338 0.8382	0.9342 0.8824	0.9813	Ave		0.9241			6.1		30.0				
1,1-Dichloroethene	1.1997 1.0521	1.1238 1.0202	1.0793 0.9944	1.0590 1.0026	1.0636	Ave		1.0661			6.0		30.0				
Acrylonitrile	++++ 0.4755	0.5548 0.4637	0.5320 0.4448	0.4820 0.4378	0.4985	Ave		0.4861			8.4		30.0				
tert-Butyl alcohol	1.7335 1.5954	1.6954 1.6067	1.7782 1.5471	1.6014 1.4137	1.6439	Ave		1.6239			6.6		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	2.7462 2.4294	2.5716 2.3469	2.4578 2.3134	2.4601 2.3195	2.4878	Ave		2.4592			5.6		30.0				
Methylene Chloride	++++ 0.8898	++++ 0.8426	1.3997 0.8059	1.0494 0.7857	0.9603	Ave		0.9619			22.2		30.0				
3-Chloropropene	1.3230 1.0002	1.1895 0.9454	1.0528 0.8875	1.0053 0.8637	1.0378	Ave		1.0339			14.0		30.0				
Carbon disulfide	3.1830 2.6914	2.9030 2.5798	2.7447 2.4737	2.6742 2.4755	2.7200	Ave		2.7161			8.1		30.0				
trans-1,2-Dichloroethene	1.1520 1.0243	1.0869 1.0160	1.0319 1.0020	1.0004 1.0168	1.0512	Ave		1.0424			4.7		30.0				
2-Methylpentane	2.4442 2.0107	2.2935 1.8810	2.1617 1.7802	2.0757 1.6497	2.1100	Ave		2.0452			12.2		30.0				
Methyl tert-butyl ether	3.2716 3.0742	3.3148 2.9891	3.1854 2.8934	3.0695 2.8251	3.2425	Ave		3.0962			5.5		30.0				
1,1-Dichloroethane	2.4649 1.9932	2.1933 1.9091	2.0960 1.8234	2.0124 1.7705	2.0509	Ave		2.0349			10.2		30.0				
Vinyl acetate	2.3537 2.3986	2.4371 2.3555	2.3018 2.2353	2.3117 2.1757	2.4624	Ave		2.3369			4.0		30.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9482
 SDG No.: _____
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/15/2017 14:36 Calibration End Date: 03/15/2017 20:21 Calibration ID: 962

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-Butanone (MEK)	++++ 0.4477	0.5290 0.4398	0.4791 0.4291	0.4391 0.4150	0.4626	Ave	0.4552				7.8		30.0				
Hexane	0.9272 0.7802	0.8897 0.7413	0.8149 0.6991	0.8020 0.6548	0.7995	Ave	0.7899				10.8		30.0				
C6 Range	++++ 1.5533	++++ 1.4918	++++ 1.4753	1.5507 ++++	1.5868	Ave	1.5316				3.0		30.0				
Isopropyl ether	2.9696 2.9568	3.0846 2.8425	3.0439 2.6777	2.9405 2.5359	3.1080	Ave	2.9066				6.6		30.0				
cis-1,2-Dichloroethene	1.1807 1.1054	1.2051 1.0733	1.1183 1.0545	1.0720 1.0570	1.0986	Ave	1.1072				4.8		30.0				
Ethyl acetate	1.9826 1.9470	2.0492 1.8805	1.9970 1.8074	1.9306 1.7180	2.0347	Ave	1.9274				5.7		30.0				
Chloroform	3.1680 2.7810	3.0658 2.6656	2.7927 2.5757	2.7886 2.5332	2.8816	Ave	2.8058				7.5		30.0				
Tert-butyl ethyl ether	3.1533 2.9551	3.0716 2.8268	2.9525 2.7461	2.8883 2.6238	3.0788	Ave	2.9218				5.8		30.0				
Tetrahydrofuran	1.1323 0.9962	1.1580 0.9617	1.0365 0.9258	1.0347 0.8837	1.0616	Ave	1.0212				8.8		30.0				
1,1,1-Trichloroethane	3.6366 3.1948	3.4605 3.1195	3.2415 3.0594	3.1658 3.0511	3.2818	Ave	3.2457				5.9		30.0				
1,2-Dichloroethane	0.4453 0.4146	0.4341 0.3909	0.4133 0.3759	0.3926 0.3665	0.4014	Ave	0.4038				6.4		30.0				
Benzene	0.8565 0.6763	0.7234 0.6426	0.6692 0.6290	0.6431 0.6244	0.6512	Ave	0.6795				10.7		30.0				
Cyclohexane	0.1266 0.1179	0.1269 0.1115	0.1114 0.1058	0.1140 0.1025	0.1128	Ave	0.1144				7.3		30.0				
1-Butanol	++++ 0.0749	++++ 0.0748	0.0782 0.0711	0.0719 0.0702	0.0681	Ave	0.0727				4.7		30.0				
Carbon tetrachloride	0.7406 0.7383	0.6978 0.7281	0.6474 0.7266	0.6648 0.7560	0.6919	Ave	0.7102				5.2		30.0				
2,3-Dimethylpentane	0.1613 0.1609	0.1727 0.1546	0.1548 0.1480	0.1546 0.1433	0.1578	Ave	0.1564				5.4		30.0				
Thiophene	0.3984 0.3926	0.3997 0.3758	0.3824 0.3643	0.3701 0.3561	0.3777	Ave	0.3797				4.0		30.0				
Tert-amyl methyl ether	++++ 0.6573	0.6040 0.6339	0.5913 0.6224	0.6275 0.6000	0.6476	Ave	0.6230				3.7		30.0				
2,2,4-Trimethylpentane	1.1319 1.0337	1.0910 0.9745	1.0171 0.9296	1.0057 0.8832	1.0118	Ave	1.0087				7.5		30.0				
Heptane	0.2793 0.2604	0.2754 0.2466	0.2504 0.2381	0.2394 0.2297	0.2480	Ave	0.2519				6.7		30.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9482
 SDG No.: _____
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/15/2017 14:36 Calibration End Date: 03/15/2017 20:21 Calibration ID: 962

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													
1,2-Dichloropropane	0.2369	0.2592	0.2423	0.2307	0.2282	Ave		0.2308			7.0		30.0				
	0.2379	0.2239	0.2138	0.2044													
Trichloroethene	0.3913	0.3778	0.3535	0.3420	0.3505	Ave		0.3681			4.5		30.0				
	0.3732	0.3641	0.3793	0.3811													
Dibromomethane	0.3543	0.3067	0.2852	0.2873	0.2986	Ave		0.3067			6.6		30.0				
	0.3167	0.3050	0.3044	0.3024													
Bromodichloromethane	0.6086	0.5498	0.5387	0.5577	0.5917	Ave		0.5888			5.4		30.0				
	0.6261	0.6149	0.6089	0.6031													
1,4-Dioxane	0.0864	0.0977	0.0920	0.0895	0.0928	Ave		0.0920			5.2		30.0				
	0.0991	0.0939	0.0920	0.0845													
Methyl methacrylate	0.2506	0.2669	0.2455	0.2369	0.2534	Ave		0.2550			4.6		30.0				
	0.2719	0.2669	0.2567	0.2462													
Methylcyclohexane	0.5429	0.5520	0.5273	0.5134	0.5296	Ave		0.5294			3.0		30.0				
	0.5509	0.5254	0.5144	0.5090													
4-Methyl-2-pentanone (MIBK)	0.3776	0.3958	0.3967	0.3789	0.3969	Ave		0.3903			3.9		30.0				
	0.4117	0.4017	0.3926	0.3610													
cis-1,3-Dichloropropene	0.4475	0.4392	0.4056	0.4041	0.4296	Ave		0.4274			3.9		30.0				
	0.4489	0.4328	0.4255	0.4132													
trans-1,3-Dichloropropene	0.4385	0.4225	0.4283	0.4164	0.4273	Ave		0.4284			2.2		30.0				
	0.4472	0.4317	0.4230	0.4211													
Toluene Range	+++++	+++++	+++++	1.8534	1.9262	Ave		1.9142			3.0		30.0				
	2.0153	1.9295	1.8763	1.8846													
Toluene	0.8395	0.8491	0.7936	0.7738	0.7881	Ave		0.7969			3.8		30.0				
	0.8093	0.7770	0.7642	0.7773													
1,1,2-Trichloroethane	0.2473	0.2582	0.2411	0.2313	0.2347	Ave		0.2389			4.3		30.0				
	0.2468	0.2332	0.2289	0.2284													
2-Methylthiophene	0.6786	0.6915	0.6567	0.6589	0.6702	Ave		0.6689			2.4		30.0				
	0.6945	0.6634	0.6465	0.6593													
3-Methylthiophene	0.6861	0.6815	0.6391	0.6408	0.6684	Ave		0.6622			2.8		30.0				
	0.6844	0.6575	0.6481	0.6536													
2-Hexanone	0.1705	0.1899	0.1871	0.1825	0.1884	Ave		0.1907			6.0		30.0				
	0.2083	0.2042	0.1978	0.1879													
Octane	0.3046	0.2938	0.2875	0.2759	0.2901	Ave		0.2880			3.4		30.0				
	0.2983	0.2856	0.2800	0.2759													
Dibromochloromethane	0.5147	0.4976	0.5002	0.5208	0.5960	Ave		0.5960			15.3		30.0				
	0.6391	0.6658	0.6985	0.7314													
1,2-Dibromoethane (EDB)	0.4514	0.4414	0.4271	0.4418	0.4725	Ave		0.4679			6.0		30.0				
	0.4987	0.4873	0.4908	0.4998													
Tetrachloroethene	0.3686	0.3773	0.3461	0.3339	0.3554	Ave		0.3645			4.9		30.0				
	0.3715	0.3614	0.3710	0.3954													

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9482
 SDG No.: _____
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/15/2017 14:36 Calibration End Date: 03/15/2017 20:21 Calibration ID: 962

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													
Chlorobenzene	0.6950	0.6894	0.6599	0.6471	0.6559	Ave		0.6744			2.7		30.0				
	0.6883	0.6657	0.6734	0.6950													
2,3-Dimethylheptane	0.7899	0.7827	0.7170	0.6997	0.6966	Ave		0.6822			12.1		30.0				
	0.6914	0.6350	0.5879	0.5398													
Ethylbenzene	1.1434	1.1377	1.1069	1.0700	1.1134	Ave		1.1131			2.2		30.0				
	1.1417	1.1050	1.0902	1.1099													
2-Ethylthiophene	0.8499	0.8830	0.8364	0.8529	0.8866	Ave		0.8768			3.1		30.0				
	0.9248	0.8941	0.8781	0.8854													
m-Xylene & p-Xylene	0.9244	0.9041	0.8801	0.8676	0.8999	Ave		0.8990			2.2		30.0				
	0.9307	0.8929	0.8889	0.9026													
Bromoform	0.4414	0.4305	0.4383	0.4732	0.5776	Ave		0.5594			24.9		30.0				
	0.6021	0.7122	0.7997	0.8940													
Styrene	0.4659	0.4995	0.5075	0.5351	0.6183	Ave		0.5931			15.4		30.0				
	0.6631	0.6610	0.6798	0.7078													
Nonane	0.5320	0.5212	0.5212	0.4918	0.5133	Ave		0.4886			8.7		30.0				
	0.5077	0.4643	0.4376	0.4085													
o-Xylene	0.9666	0.9743	0.9096	0.8846	0.9138	Ave		0.9191			3.8		30.0				
	0.9452	0.9037	0.8874	0.8870													
1,1,2,2-Tetrachloroethane	0.5455	0.5869	0.5295	0.5547	0.6125	Ave		0.5794			5.4		30.0				
	0.6248	0.6002	0.5769	0.5835													
1,2,3-Trichloropropane	0.2174	0.2166	0.2058	0.2000	0.2139	Ave		0.2120			2.9		30.0				
	0.2205	0.2110	0.2107	0.2121													
Isopropylbenzene	1.4295	1.3734	1.3130	1.2638	1.3304	Ave		1.3350			3.5		30.0				
	1.3572	1.3141	1.3091	1.3243													
Propylbenzene	0.3206	0.3283	0.3301	0.3300	0.3507	Ave		0.3502			6.9		30.0				
	0.3696	0.3614	0.3700	0.3908													
2-Chlorotoluene	+++++	0.3335	0.3098	0.3015	0.3231	Ave		0.3267			4.5		30.0				
	0.3340	0.3298	0.3343	0.3477													
4-Ethyltoluene	1.1970	1.2319	1.1897	1.1796	1.2762	Ave		1.2571			4.6		30.0				
	1.3224	1.2896	1.3003	1.3269													
1,3,5-Trimethylbenzene	0.5469	0.5674	0.5327	0.5477	0.6024	Ave		0.5895			7.1		30.0				
	0.6243	0.6109	0.6231	0.6499													
Alpha Methyl Styrene	0.3332	0.3639	0.3656	0.3863	0.4774	Ave		0.4751			19.2		30.0				
	0.5207	0.5401	0.5610	0.5861													
Decane	0.5864	0.6469	0.6103	0.6147	0.6447	Ave		0.5991			7.9		30.0				
	0.6383	0.5959	0.5500	0.5048													
tert-Butylbenzene	1.1155	1.2200	1.1544	1.1382	1.2508	Ave		1.2420			7.4		30.0				
	1.3026	1.2873	1.3340	1.3748													
1,2,4-Trimethylbenzene	1.0567	1.0858	1.0572	1.0569	1.1475	Ave		1.1293			5.8		30.0				
	1.1887	1.1674	1.1857	1.2179													

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9482
 SDG No.: _____
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/15/2017 14:36 Calibration End Date: 03/15/2017 20:21 Calibration ID: 962

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													
sec-Butylbenzene	1.4575 1.6940	1.5550 1.6784	1.4797 1.7510	1.4842 +++++	1.6224	Ave		1.5903			7.0		30.0				
1,3-Dichlorobenzene	0.7839 0.8746	0.7680 0.9113	0.7371 1.0012	0.7327 1.0431	0.8146	Ave		0.8518			13.3		30.0				
Benzyl chloride	0.9913 1.1502	0.9509 1.1420	0.9751 1.1585	0.9861 1.1519	1.0824	Ave		1.0654			8.3		30.0				
1,4-Dichlorobenzene	0.7832 0.8555	0.7728 0.8624	0.7394 0.9397	0.7367 0.9958	0.8073	Ave		0.8325			10.7		30.0				
4-Isopropyltoluene	1.2787 1.5072	1.3728 1.4704	1.3354 1.5104	1.3072 +++++	1.4520	Ave		1.4043			6.6		30.0				
1,2,3-Trimethylbenzene	0.7980 0.8970	0.8575 0.8524	0.8145 0.8449	0.7986 0.8469	0.8775	Ave		0.8430			4.0		30.0				
Butylcyclohexane	0.8269 0.8735	0.8430 0.8279	0.8368 0.8147	0.8222 0.7686	0.8741	Ave		0.8320			3.8		30.0				
1,2-Dichlorobenzene	0.7339 0.8390	0.7467 0.8639	0.7024 0.9401	0.7046 0.9877	0.7869	Ave		0.8117			12.7		30.0				
Indane	0.8988 1.0874	0.9453 1.0871	0.9346 1.1500	0.9155 1.2030	1.0376	Ave		1.0288			10.7		30.0				
Indene	+++++ 0.8020	0.6602 0.8044	0.6375 0.8255	0.6603 0.8617	0.7619	Ave		0.7517			11.5		30.0				
Butylbenzene	1.3043 1.3941	1.2970 1.3165	1.2882 1.3191	1.2631 1.2590	1.3725	Ave		1.3127			3.5		30.0				
Undecane	0.7087 0.7450	0.7870 0.6698	0.7061 0.6436	0.7148 0.5617	0.7894	Ave		0.7029			10.2		30.0				
1,2-Dimethyl-4-Ethylbenzene	+++++ 1.1145	0.9799 1.0683	0.9582 1.1101	0.9631 1.0986	1.0937	Ave		1.0483			6.6		30.0				
1,2-Dibromo-3-Chloropropane	+++++ 0.3626	0.2848 0.3888	0.2556 0.4208	0.2832 0.4321	0.3569	Ave		0.3481			19.1		30.0				
1,2,4,5-Tetramethylbenzene	1.1280 1.3892	1.1793 1.3109	1.1313 1.4313	1.1592 +++++	1.3455	Ave		1.2593			9.8		30.0				
1,2,3,5-Tetramethylbenzene	0.7014 0.8228	0.7621 0.7627	0.6772 0.8072	0.6958 0.7761	0.8138	Ave		0.7577			7.2		30.0				
1,2,3,4-Tetramethylbenzene	0.9370 1.1438	0.9768 1.0541	0.9292 1.1581	0.9384 1.0472	1.1276	Ave		1.0347			9.0		30.0				
Dodecane	0.6092 0.6657	0.7288 0.5555	0.6338 0.6382	0.6127 0.3833	0.7850	Ave		0.6236			18.1		30.0				
1,2,4-Trichlorobenzene	0.6272 0.8005	0.6639 0.7430	0.5713 0.9298	0.5791 0.7414	0.7733	Ave		0.7144			16.2		30.0				
Naphthalene	1.3527 1.6696	1.4676 1.5877	1.2582 1.7071	1.2708 +++++	1.6598	Ave		1.4967			12.3		30.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9482
 SDG No.: _____
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/15/2017 14:36 Calibration End Date: 03/15/2017 20:21 Calibration ID: 962

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													
Benzo(b)thiophene	0.7926 0.9824	0.8643 0.9431	0.7434 0.9932	0.7548 0.7832	0.9779	Ave		0.8706			12.0		30.0				
Hexachlorobutadiene	0.6444 0.7667	0.6789 0.7046	0.6040 0.8911	0.6006 0.6659	0.7840	Ave		0.7045			13.4		30.0				
1,2,3-Trichlorobenzene	0.6779 0.7664	0.7017 0.6913	0.5616 0.8404	0.5574 0.5093	0.7607	Ave		0.6741			16.4		30.0				
2-Methylnaphthalene	++++ 0.3374	0.2697 0.3653	0.2434 0.4468	0.2127 ++++	0.3001	Ave		0.3108			25.7		50.0				
1-Methylnaphthalene	++++ 0.3303	0.2976 0.3653	0.2352 0.4362	0.2020 ++++	0.2997	Ave		0.3095			25.3		50.0				
4-Bromofluorobenzene (Surr)	0.7862 0.7838	0.7836 0.7899	0.7710 0.8014	0.7914 0.8000	0.8071	Ave		0.7905			1.4		30.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9482

SDG No.: _____

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

Calibration Start Date: 03/15/2017 14:36 Calibration End Date: 03/15/2017 20:21 Calibration ID: 962

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-9482/3	GC15IC01.D
Level 2	IC 140-9482/4	GC15IC02.D
Level 3	IC 140-9482/5	GC15IC03.D
Level 4	IC 140-9482/6	GC15IC04.D
Level 5	IC 140-9482/7	GC15IC05.D
Level 6	ICIS 140-9482/8	GC15IC06.D
Level 7	IC 140-9482/9	GC15IC07.D
Level 8	IC 140-9482/10	GC15IC08.D
Level 9	IC 140-9482/11	GC15IC09.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Chlorodifluoromethane	CBM	Ave	+++++ 79923	3314 161083	6330 317499	16118 648102	38106	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Propene	CBM	Ave	3760 186431	7827 366636	15226 715294	38073 1334692	93889	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	14467 749517	29295 1518249	58308 3065573	147329 6309639	367220	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	+++++ 51943	+++++ 102473	4662 195522	10845 381523	25770	+++++ 2.00	+++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	CBM	Ave	7978 436402	17176 925480	34069 1944481	85416 4340354	208904	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 313096	+++++ 595674	+++++ 1132144	72210 2180620	165163	+++++ 9.99	+++++ 20.0	+++++ 40.0	2.00 80.0	5.01
Vinyl chloride	CBM	Ave	4066 210834	8251 414360	17041 808059	41537 1585259	100829	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	2487 143038	5498 283835	11030 549398	28287 1072769	68804	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butane	CBM	Ave	6130 293638	11940 583059	24164 1092508	59701 2112304	142250	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	3811 204127	8019 425627	15909 850291	39896 1772157	99093	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	1857 98257	4085 204064	7956 409306	19908 830849	49038	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	6987 345378	15059 707984	28920 1409489	69923 2735400	174754	0.196 9.99	0.392 20.0	0.794 40.0	2.00 80.0	5.01
Vinyl bromide	CBM	Ave	3404 194576	7724 403357	15245 817628	37848 1728343	92859	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	3886 196053	8230 399830	15685 786537	38853 1595022	95489	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

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

Lab Name: TestAmerica Knoxville

Job No.: 140-7503-1

Analy Batch No.: 9482

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2017 14:36

Calibration End Date: 03/15/2017 20:21

Calibration ID: 962

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Acrolein	CBM	Ave	++++ 30056	++++ 69764	2011 133516	4862 330540	12471	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Trichlorofluoromethane	CBM	Ave	14665 743344	28467 1532462	55895 3119354	144284 6686372	358635	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	++++ 61466	++++ 123503	++++ 247919	12605 523809	31325	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	++++ 208378	++++ 417742	++++ 841477	46214 1728119	107750	++++ 5.87	++++ 11.7	++++ 23.5	1.17 47.0	2.94
Pentane	CBM	Ave	++++ 37027	1458 74522	2803 151563	6934 323924	17688	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Isopropyl alcohol	CBM	Ave	++++ 695832	++++ 1433726	57055 2844607	159557 6495368	343901	++++ 5.87	++++ 11.7	0.466 23.5	1.17 47.0	2.94
Ethyl ether	CBM	Ave	2809 162376	6464 331731	12398 672373	32090 1560739	82779	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	3592 187192	7104 387339	14330 797692	36376 1773303	89728	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	++++ 84597	3507 176062	7063 356803	16558 774315	42053	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
tert-Butyl alcohol	CBM	Ave	5190 283850	10717 610004	23609 1241041	55009 2500383	138675	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,2-Trichloro-1,2,2-trifluoroethane	CBM	Ave	8222 432242	16256 891000	32632 1855781	84505 4102363	209870	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	++++ 158311	++++ 319885	18584 646443	36046 1389569	81013	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	3961 177955	7519 358922	13978 711970	34533 1527575	87550	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	9530 478845	18351 979418	36441 1984338	91859 4378380	229458	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	3449 182249	6871 385716	13700 803766	34363 1798426	88680	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	7318 357751	14498 714141	28701 1428051	71301 2917758	177996	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	9795 546952	20954 1134810	42292 2321003	105435 4996692	273536	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	7380 354630	13865 724800	27828 1462691	69127 3131504	173008	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	7047 426758	15406 894260	30561 1793080	79405 3848118	207726	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Butanone (MEK)	CBM	Ave	++++ 79660	3344 166968	6361 344230	15082 734059	39027	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	2776 138819	5624 281421	10820 560820	27547 1158063	67446	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

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

Lab Name: TestAmerica Knoxville

Job No.: 140-7503-1

Analy Batch No.: 9482

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2017 14:36

Calibration End Date: 03/15/2017 20:21

Calibration ID: 962

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
C6 Range	DFBZ	Ave	++++ 1313930	++++ 2723811	++++ 5679805	265311 ++++	680124	++++ 2.00	++++ 4.00	++++ 8.00	0.400 ++++	1.00
Isopropyl ether	CBM	Ave	8891 526080	19499 1079183	40414 2148000	101005 4485105	262185	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	3535 196676	7618 407485	14847 845905	36823 1869513	92674	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	5936 346406	12954 713928	26514 1449886	66315 3038641	171642	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	9485 494799	19380 1012011	37079 2066202	95787 4480470	243090	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tert-butyl ethyl ether	CBM	Ave	9441 525778	19417 1073194	39200 2202848	99212 4640558	259723	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	3390 177245	7320 365105	13762 742637	35542 1562956	89552	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	10888 568413	21875 1184348	43037 2454172	108746 5396460	276845	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFBZ	Ave	6535 350677	13373 713806	27277 1447194	67175 3085614	172041	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzene	DFBZ	Ave	12569 572098	22286 1173319	44171 2421461	110029 5257486	279122	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Cyclohexane	DFBZ	Ave	1858 99763	3909 203651	7351 407285	19497 863041	48328	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1-Butanol	DFBZ	Ave	++++ 63344	++++ 136613	5160 273762	12296 591245	29171	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFBZ	Ave	10868 624502	21497 1329349	42733 2797102	113747 6365119	296576	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFBZ	Ave	2367 136123	5321 282206	10219 569652	26444 1206293	67650	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Thiophene	DFBZ	Ave	5847 332092	12315 686171	25238 1402526	63320 2998594	161878	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tert-amyl methyl ether	DFBZ	Ave	++++ 556050	18607 1157370	39025 2396229	107357 5052003	277565	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFBZ	Ave	16611 874389	33610 1779183	67131 3578687	172066 7435991	433667	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Heptane	DFBZ	Ave	4099 220272	8485 450272	16529 916791	40968 1934212	106290	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFBZ	Ave	3477 201269	7985 408812	15995 823056	39466 1721134	97796	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Trichloroethene	DFBZ	Ave	5743 315722	11638 664844	23332 1460218	58508 3208650	150217	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dibromomethane	DFBZ	Ave	5200 267885	9448 556851	18824 1171750	49152 2546424	127996	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

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

Lab Name: TestAmerica Knoxville

Job No.: 140-7503-1

Analy Batch No.: 9482

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2017 14:36

Calibration End Date: 03/15/2017 20:21

Calibration ID: 962

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Bromodichloromethane	DFBZ	Ave	8931 529608	16938 1122661	35557 2343991	95415 5078012	253630	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,4-Dioxane	DFBZ	Ave	1268 83850	3011 171415	6069 354151	15307 711143	39782	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methyl methacrylate	DFBZ	Ave	3677 229984	8221 487379	16201 988227	40539 2072888	108599	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methylcyclohexane	DFBZ	Ave	7968 465979	17005 959276	34804 1980430	87846 4285973	227011	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	5542 348265	12195 733481	26186 1511574	64835 3039224	170118	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFBZ	Ave	6567 379694	13530 790238	26770 1637962	69133 3479031	184126	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZd 5	Ave	6192 373664	12488 789307	26814 1645268	68241 3558024	178625	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Toluene Range	DFBZ	Ave	++++ 1704710	++++ 3522873	++++ 7223375	317115 15867496	825588	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Toluene	CBZd 5	Ave	11856 676247	25094 1420544	49691 2972164	126815 6568341	329471	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZd 5	Ave	3493 206257	7631 426290	15096 890354	37911 1930179	98117	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZd 5	Ave	9584 580302	20438 1212899	41117 2514496	107989 5571008	280205	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZd 5	Ave	9689 571930	20142 1202168	40017 2520669	105015 5522937	279432	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Hexanone	CBZd 5	Ave	2408 174060	5612 373275	11715 769096	29914 1588026	78752	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Octane	CBZd 5	Ave	4302 249240	8683 522104	18002 1089002	45217 2331636	121262	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZd 5	Ave	7269 534023	14707 1217195	31316 2716554	85348 6180157	249183	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	6375 416730	13045 890944	26740 1908708	72403 4223710	197523	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZd 5	Ave	5206 310406	11152 660677	21668 1442699	54718 3341461	148601	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chlorobenzene	CBZd 5	Ave	9815 575122	20374 1217110	41319 2618941	106057 5872788	274196	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZd 5	Ave	11155 577752	23134 1160951	44892 2286470	114675 4561552	291234	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethylbenzene	CBZd 5	Ave	16148 954045	33624 2020166	69301 4239909	175356 9378439	465478	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZd 5	Ave	12002 772778	26097 1634721	52367 3415104	139782 7482070	370649	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

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

Lab Name: TestAmerica Knoxville

Job No.: 140-7503-1

Analy Batch No.: 9482

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2017 14:36

Calibration End Date: 03/15/2017 20:21

Calibration ID: 962

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
m-Xylene & p-Xylene	CBZd 5	Ave	26110 1555433	53439 3265060	110203 6914176	284366 15254685	752459	0.0784 4.00	0.157 8.00	0.317 16.0	0.800 32.0	2.00
Bromoform	CBZd 5	Ave	6234 503085	12722 1302027	27441 3110131	77559 7554567	241462	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Styrene	CBZd 5	Ave	6579 554081	14764 1208558	31773 2643863	87701 5980940	258497	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Nonane	CBZd 5	Ave	7513 424281	15404 848900	32630 1702072	80602 3451826	214597	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
o-Xylene	CBZd 5	Ave	13651 789853	28796 1652204	56948 3451230	144970 7495466	382052	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	7704 522069	17347 1097235	33152 2243454	90906 4930342	256086	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZd 5	Ave	3070 184265	6401 385852	12888 819612	32782 1792574	89439	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZd 5	Ave	20188 1134088	40591 2402575	82210 5091349	207127 11190142	556209	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Propylbenzene	CBZd 5	Ave	4528 308856	9702 660707	20666 1438960	54076 3302547	146598	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZd 5	Ave	++++ 279105	9858 602879	19395 1300045	49412 2937732	135063	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZd 5	Ave	16904 1105029	36409 2357742	74487 5056909	193325 11212261	533550	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZd 5	Ave	7724 521704	16770 1116920	33353 2423508	89762 5491943	251859	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZd 5	Ave	4705 435119	10756 987378	22891 2181723	63304 4952983	199600	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Decane	CBZd 5	Ave	8281 533364	19120 1089510	38214 2139210	100736 4265576	269524	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZd 5	Ave	15754 1088441	36058 2353545	72279 5188127	186533 11616984	522916	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZd 5	Ave	14923 993298	32090 2134348	66195 4611406	173218 10291549	479730	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZd 5	Ave	20583 1415485	45958 3068495	92643 6810067	243244 ++++	678287	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 ++++	1.00
1,3-Dichlorobenzene	CBZd 5	Ave	11070 730798	22698 1666142	46148 3893907	120087 8814211	340580	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzyl chloride	CBZd 5	Ave	14000 961111	28105 2087808	61054 4505667	161617 9733935	452529	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZd 5	Ave	11061 714901	22839 1576716	46292 3654606	120739 8414582	337505	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZd 5	Ave	18058 1259395	40574 2688329	83608 5874319	214236 ++++	607035	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 ++++	1.00

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

Lab Name: TestAmerica Knoxville

Job No.: 140-7503-1

Analy Batch No.: 9482

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2017 14:36

Calibration End Date: 03/15/2017 20:21

Calibration ID: 962

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
1,2,3-Trimethylbenzene	CBZd 5	Ave	11269 749546	25342 1558491	50998 3285785	130876 7156186	366844	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZd 5	Ave	11678 729918	24915 1513686	52392 3168620	134750 6495136	365451	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZd 5	Ave	10364 701112	22069 1579523	43975 3656010	115468 8346220	328983	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Indane	CBZd 5	Ave	12693 908631	27938 1987507	58519 4472405	150042 10165330	433789	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Indene	CBZd 5	Ave	++++ 670154	19511 1470712	39915 3210332	108215 7281318	318543	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butylbenzene	CBZd 5	Ave	18420 1164905	38334 2406878	80658 5130283	207014 10638853	573821	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Undecane	CBZd 5	Ave	10009 622503	23261 1224656	44209 2502915	117141 4746027	330016	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZd 5	Ave	++++ 931315	28961 1953205	59995 4317337	157840 9283464	457261	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dibromo-3-Chloropropane	CBZd 5	Ave	++++ 302962	8417 710910	16001 1636568	46413 3651422	149226	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZd 5	Ave	15930 1160795	34855 2396674	70829 5566375	189973 ++++	562520	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 ++++	1.00
1,2,3,5-Tetramethylbenzene	CBZd 5	Ave	9905 687501	22523 1394400	42400 3139429	114039 6557823	340236	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZd 5	Ave	13233 955751	28869 1927205	58175 4503997	153792 8848915	471400	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dodecane	CBZd 5	Ave	8604 556303	21541 1015546	39684 2482191	100417 3238859	328197	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZd 5	Ave	8857 668939	19622 1358330	35767 3616219	94904 6264846	323309	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Naphthalene	CBZd 5	Ave	19103 1395111	43374 2902807	78779 6639288	208260 ++++	693914	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 ++++	1.00
Benzo(b)thiophene	CBZd 5	Ave	11193 820908	25544 1724284	46547 3862788	123697 6618484	408835	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZd 5	Ave	9101 640650	20064 1288187	37819 3465632	98425 5626941	327761	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZd 5	Ave	9574 640410	20740 1263910	35163 3268537	91350 4303288	318023	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZd 5	Ave	++++ 852913	24114 2020346	46113 5256646	105461 ++++	379553	++++ 6.04	0.237 12.1	0.480 24.2	1.21 ++++	3.03
1-Methylnaphthalene	CBZd 5	Ave	++++ 834902	26609 2020334	44542 5132440	100155 ++++	379039	++++ 6.04	0.237 12.1	0.480 24.2	1.21 ++++	3.03
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	1132701 1311298	1181326 1443792	1216766 1558022	1296737 1689695	1347272	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9482
SDG No.: _____
Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/15/2017 14:36 Calibration End Date: 03/15/2017 20:21 Calibration ID: 962

Curve Type Legend:

Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC01.D
 Lims ID: IC L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-Mar-2017 14:36:30 ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004323-003
 Misc. Info.: 083683
 Operator ID: 7126 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Mar-2017 14:05:10 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh

Date: 15-Mar-2017 15:37:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.985	7.993	-0.008	81	305443	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.153	10.161	-0.008	95	1497178	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.028	15.034	-0.006	88	1440748	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.699	16.705	-0.006	92	1132701	4.00	3.98	
6 Chlorodifluoromethane	67	3.456	3.457	-0.001	96	1904	0.0392	0.0561	
7 Propene	41	3.466	3.466	0.000	81	3760	0.0392	0.0465	
8 Dichlorodifluoromethane	85	3.510	3.510	0.000	100	14467	0.0392	0.0448	
9 Chloromethane	52	3.655	3.659	-0.004	55	1551	0.0392	0.0713	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.666	3.669	-0.003	89	7978	0.0392	0.0415	
11 Acetaldehyde	44	3.785	3.786	-0.001	84	13227	0.1960	0.5179	
12 Vinyl chloride	62	3.801	3.803	-0.002	98	4066	0.0392	0.0455	
13 Butadiene	54	3.876	3.876	0.000	70	2487	0.0392	0.0418	
14 Butane	43	3.876	3.879	-0.003	85	6130	0.0392	0.0484	
15 Bromomethane	94	4.135	4.141	-0.006	96	3811	0.0392	0.0432	
16 Chloroethane	64	4.259	4.258	0.001	91	1857	0.0392	0.0429	
17 Ethanol	31	4.356	4.357	-0.001	96	6987	0.1960	0.2273	
18 Vinyl bromide	106	4.507	4.511	-0.004	97	3404	0.0392	0.0407	
19 2-Methylbutane	43	4.556	4.560	-0.004	89	3886	0.0392	0.0454	
21 Acrolein	56	4.750	4.742	0.008	27	513	0.0392	0.0414	
20 Trichlorofluoromethane	101	4.739	4.743	-0.004	100	14665	0.0392	0.0455	
22 Acetonitrile	40	4.793	4.793	0.000	89	1363	0.0392	0.0498	
23 Acetone	58	4.841	4.835	0.006	99	5677	0.1151	0.1893	
25 Pentane	72	4.933	4.937	-0.004	80	741	0.0392	0.0476	
24 Isopropyl alcohol	45	4.933	4.939	-0.006	77	12981	0.1151	0.1251	
26 Ethyl ether	31	5.084	5.075	0.009	86	2809	0.0392	0.0398	
27 1,1-Dichloroethene	96	5.348	5.354	-0.006	96	3592	0.0392	0.0441	
28 Acrylonitrile	53	5.429	5.435	-0.006	96	1959	0.0392	0.0528	
29 2-Methyl-2-propanol	59	5.467	5.467	0.000	94	5190	0.0392	0.0419	
30 1,1,2-Trichloro-1,2,2-trif	101	5.516	5.521	-0.005	92	8222	0.0392	0.0438	
31 Methylene Chloride	84	5.650	5.656	-0.006	86	9041	0.0392	0.1231	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.667	5.673	-0.006	89	3961	0.0392	0.0502	
33 Carbon disulfide	76	5.791	5.797	-0.006	99	9530	0.0392	0.0459	
34 trans-1,2-Dichloroethene	96	6.395	6.393	0.001	95	3449	0.0392	0.0433	
35 2-Methylpentane	43	6.421	6.426	-0.005	91	7318	0.0392	0.0469	
36 Methyl tert-butyl ether	73	6.524	6.513	0.011	95	9795	0.0392	0.0414	
37 1,1-Dichloroethane	63	6.756	6.771	-0.015	98	7380	0.0392	0.0475	
38 Vinyl acetate	43	6.880	6.881	-0.001	99	7047	0.0392	0.0395	
39 2-Butanone (MEK)	72	7.295	7.283	0.012	99	1469	0.0392	0.0423	
40 Hexane	56	7.333	7.336	-0.003	90	2776	0.0392	0.0460	
41 Isopropyl ether	45	7.489	7.483	0.006	91	8891	0.0392	0.0401	
42 cis-1,2-Dichloroethene	96	7.683	7.691	-0.008	95	3535	0.0392	0.0418	
43 Ethyl acetate	43	7.888	7.880	0.008	97	5936	0.0392	0.0403	
44 Chloroform	83	8.012	8.019	-0.007	89	9485	0.0392	0.0443	
45 Tert-butyl ethyl ether	59	8.131	8.122	0.009	96	9441	0.0392	0.0423	
46 Tetrahydrofuran	42	8.406	8.387	0.019	83	3390	0.0392	0.0435	
47 1,1,1-Trichloroethane	97	8.988	8.997	-0.009	95	10888	0.0392	0.0439	
48 1,2-Dichloroethane	62	9.080	9.087	-0.007	98	6535	0.0392	0.0432	
49 Benzene	78	9.576	9.582	-0.006	95	12569	0.0392	0.0494	
50 Cyclohexane	69	9.587	9.590	-0.003	82	1858	0.0392	0.0434	
51 Carbon tetrachloride	117	9.603	9.611	-0.008	96	10868	0.0392	0.0409	
53 2,3-Dimethylpentane	71	9.732	9.740	-0.008	88	2367	0.0392	0.0404	
54 Thiophene	84	9.851	9.855	-0.004	95	5847	0.0392	0.0411	
55 Tert-amyl methyl ether	73	10.104	10.100	0.004	40	7626	0.0392	0.0327	
56 Isooctane	57	10.412	10.414	-0.002	95	16611	0.0392	0.0440	
57 n-Heptane	71	10.816	10.816	0.000	83	4099	0.0392	0.0435	
58 1,2-Dichloropropane	63	10.838	10.846	-0.008	57	3477	0.0392	0.0402	
59 Trichloroethene	130	10.886	10.897	-0.011	93	5743	0.0392	0.0417	
60 Dibromomethane	93	10.951	10.961	-0.010	92	5200	0.0392	0.0453	
61 Dichlorobromomethane	83	11.118	11.126	-0.008	97	8931	0.0392	0.0405	
62 1,4-Dioxane	88	11.172	11.152	0.020	69	1268	0.0392	0.0368	
63 Methyl methacrylate	41	11.258	11.260	-0.002	86	3677	0.0392	0.0385	
64 Methylcyclohexane	83	11.706	11.704	0.002	93	7968	0.0392	0.0402	
65 4-Methyl-2-pentanone (MIBK)	43	12.143	12.133	0.010	94	5542	0.0392	0.0379	
66 cis-1,3-Dichloropropene	75	12.170	12.174	-0.004	96	6567	0.0392	0.0411	
67 trans-1,3-Dichloropropene	75	12.887	12.897	-0.010	96	6192	0.0392	0.0401	
68 Toluene	91	13.016	13.021	-0.005	93	11856	0.0392	0.0413	
69 1,1,2-Trichloroethane	83	13.086	13.091	-0.005	95	3493	0.0392	0.0406	
70 2-Methylthiophene	97	13.167	13.173	-0.006	98	9584	0.0392	0.0398	
71 3-Methylthiophene	97	13.378	13.381	-0.003	98	9689	0.0392	0.0406	
72 2-Hexanone	58	13.529	13.519	0.010	95	2408	0.0392	0.0351	
73 n-Octane	85	13.777	13.780	-0.003	86	4302	0.0392	0.0415	
74 Chlorodibromomethane	129	13.798	13.803	-0.005	95	7269	0.0392	0.0339	
75 Ethylene Dibromide	107	14.079	14.092	-0.013	98	6375	0.0392	0.0378	
76 Tetrachloroethene	129	14.192	14.195	-0.003	90	5206	0.0392	0.0397	
77 Chlorobenzene	112	15.082	15.082	0.000	92	9815	0.0392	0.0404	
78 2,3-Dimethylheptane	43	15.152	15.155	-0.003	90	11155	0.0392	0.0454	
79 Ethylbenzene	91	15.389	15.393	-0.004	98	16148	0.0392	0.0403	
80 2-Ethylthiophene	97	15.486	15.491	-0.005	98	12002	0.0392	0.0380	
81 m-Xylene & p-Xylene	91	15.551	15.559	-0.008	99	26110	0.0784	0.0806	
82 Bromoform	173	15.971	15.979	-0.008	93	6234	0.0392	0.0290	
83 Styrene	104	16.025	16.027	-0.002	81	6579	0.0392	0.0308	
84 n-Nonane	57	16.025	16.029	-0.004	88	7513	0.0392	0.0427	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 o-Xylene	91	16.085	16.088	-0.003	97	13651	0.0392	0.0412	
86 1,1,2,2-Tetrachloroethane	83	16.408	16.411	-0.003	95	7704	0.0392	0.0369	
87 1,2,3-Trichloropropane	110	16.554	16.565	-0.011	93	3070	0.0392	0.0402	
88 Isopropylbenzene	105	16.683	16.692	-0.009	91	20188	0.0392	0.0420	
89 N-Propylbenzene	120	17.239	17.246	-0.007	98	4528	0.0392	0.0359	
91 4-Ethyltoluene	105	17.406	17.409	-0.003	97	16904	0.0392	0.0373	
92 1,3,5-Trimethylbenzene	120	17.487	17.490	-0.003	91	7724	0.0392	0.0364	
93 Alpha Methyl Styrene	118	17.729	17.734	-0.005	87	4705	0.0392	0.0284	
94 n-Decane	57	17.832	17.837	-0.005	94	8281	0.0392	0.0384	
95 tert-Butylbenzene	119	17.934	17.939	-0.005	91	15754	0.0392	0.0352	
96 1,2,4-Trimethylbenzene	105	17.945	17.953	-0.008	96	14923	0.0392	0.0367	
98 sec-Butylbenzene	105	18.220	18.223	-0.003	96	20583	0.0392	0.0359	
97 1,3-Dichlorobenzene	146	18.220	18.223	-0.003	94	11070	0.0392	0.0361	
99 Benzyl chloride	91	18.295	18.303	-0.008	96	14000	0.0392	0.0365	
100 1,4-Dichlorobenzene	146	18.312	18.316	-0.004	93	11061	0.0392	0.0369	
101 4-Isopropyltoluene	119	18.398	18.400	-0.002	96	18058	0.0392	0.0357	
102 1,2,3-Trimethylbenzene	105	18.441	18.445	-0.004	97	11269	0.0392	0.0371	
103 Butylcyclohexane	83	18.517	18.520	-0.003	93	11678	0.0392	0.0390	
104 1,2-Dichlorobenzene	146	18.684	18.689	-0.005	90	10364	0.0392	0.0354	
105 2,3-Dihydroindene	117	18.689	18.693	-0.004	92	12693	0.0392	0.0343	
106 Indene	116	18.824	18.827	-0.003	92	8277	0.0392	0.0306	
107 n-Butylbenzene	91	18.851	18.854	-0.003	97	18420	0.0392	0.0390	
108 Undecane	57	19.207	19.209	-0.002	94	10009	0.0392	0.0395	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.234	19.239	-0.005	96	13104	0.0392	0.0347	
110 1,2-Dibromo-3-Chloropropan	157	19.304	19.308	-0.004	85	3309	0.0392	0.0264	
111 1,2,4,5-Tetramethylbenzene	119	19.633	19.634	-0.001	95	15930	0.0392	0.0351	
112 1,2,3,5-Tetramethylbenzene	119	19.687	19.689	-0.002	94	9905	0.0392	0.0363	
113 1,2,3,4-Tetramethylbenzene	119	20.080	20.083	-0.003	95	13233	0.0392	0.0355	
114 Dodecane	57	20.280	20.280	0.000	92	8604	0.0392	0.0383	
115 1,2,4-Trichlorobenzene	180	20.415	20.418	-0.003	92	8857	0.0392	0.0344	
116 Naphthalene	128	20.544	20.545	-0.001	98	19103	0.0392	0.0354	
117 Benzo(b)thiophene	134	20.647	20.645	0.002	98	11193	0.0392	0.0357	
118 Hexachlorobutadiene	225	20.771	20.776	-0.005	91	9101	0.0392	0.0359	
119 1,2,3-Trichlorobenzene	180	20.824	20.825	-0.001	94	9574	0.0392	0.0394	
120 2-Methylnaphthalene	142	21.623	21.623	0.000	96	12576	0.1186	0.1124	
121 1-Methylnaphthalene	142	21.801	21.801	-0.001	97	14522	0.1186	0.1303	
A 122 C6 Range	1	7.343	(7.303-7.383)		0	36327	0.0392	0.0614	
A 124 Toluene Range	1	13.011	(12.976-13.046)		0	30770	0.0392	0.0430	
S 126 Xylenes, Total	100				0		0.1176	0.1219	
S 127 1,2-Dichloroethene, Total	1				0		0.0784	0.0851	

Reagents:

40L12DNP_00010

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC01.D

Injection Date: 15-Mar-2017 14:36:30

Instrument ID: MG

Operator ID: 7126

Lims ID: IC L1

Worklist Smp#: 3

Client ID:

Purge Vol: 500.000 mL

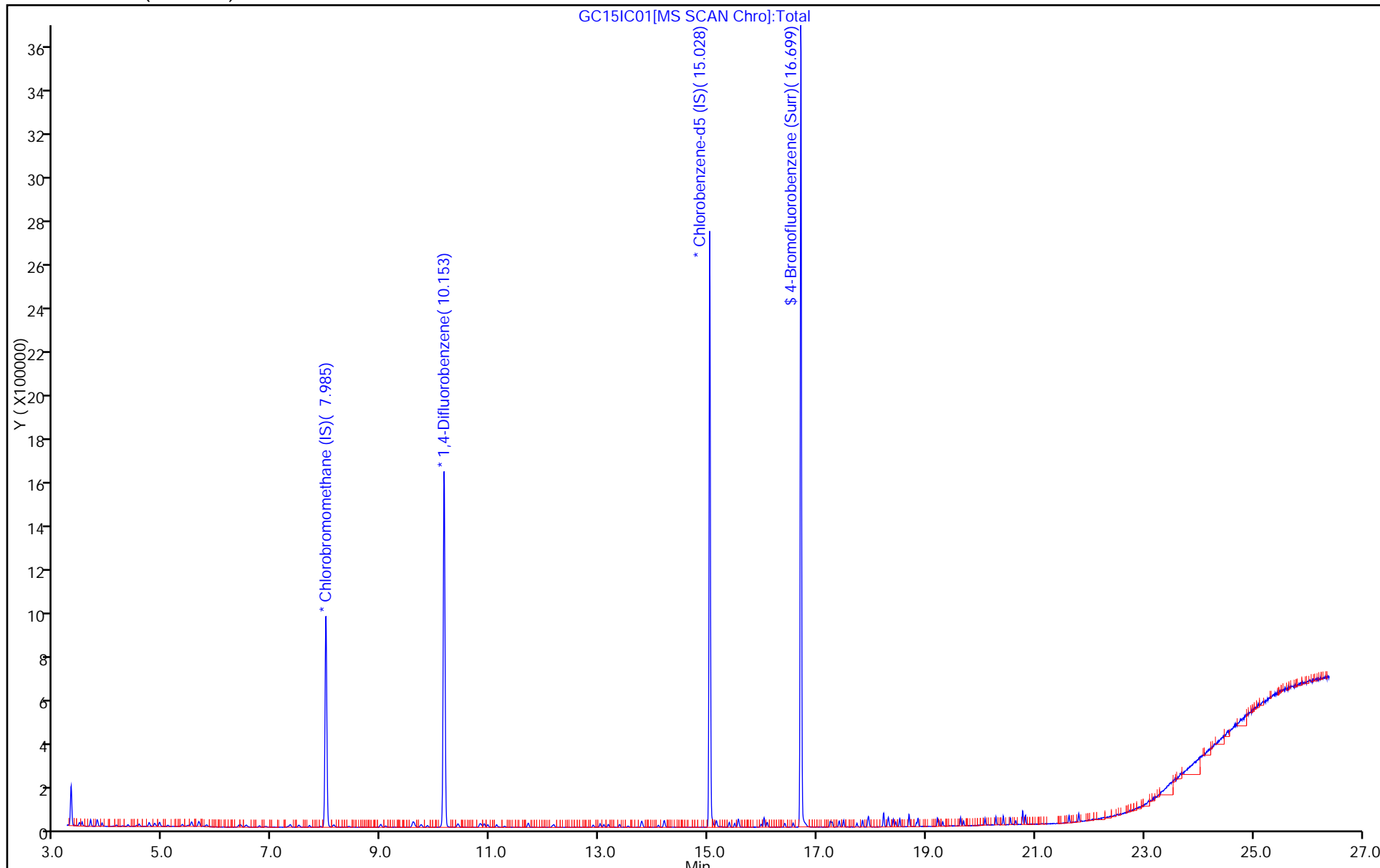
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC01.D

Injection Date: 15-Mar-2017 14:36:30

Instrument ID: MG

Lims ID: IC L1

Client ID:

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

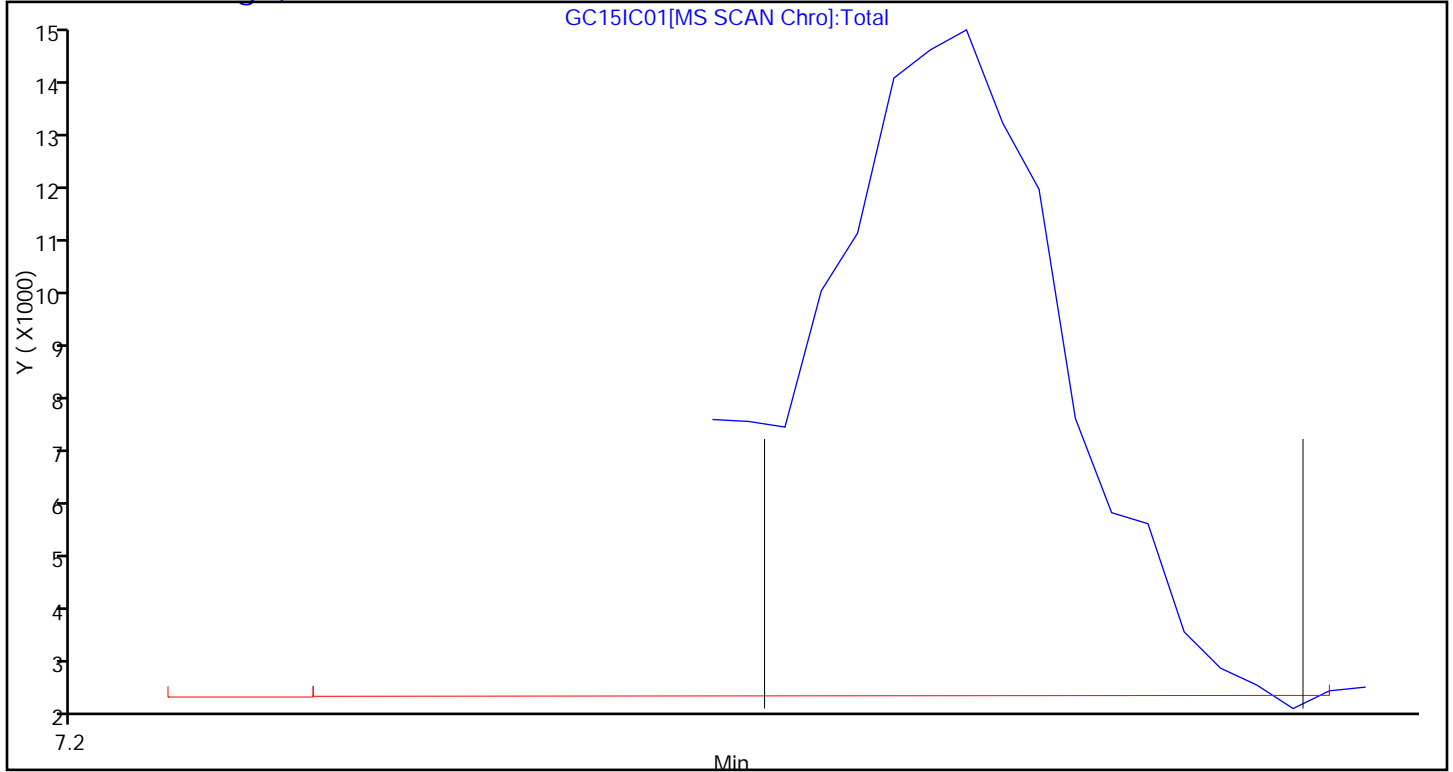
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC01.D

Injection Date: 15-Mar-2017 14:36:30

Instrument ID: MG

Lims ID: IC L1

Client ID:

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

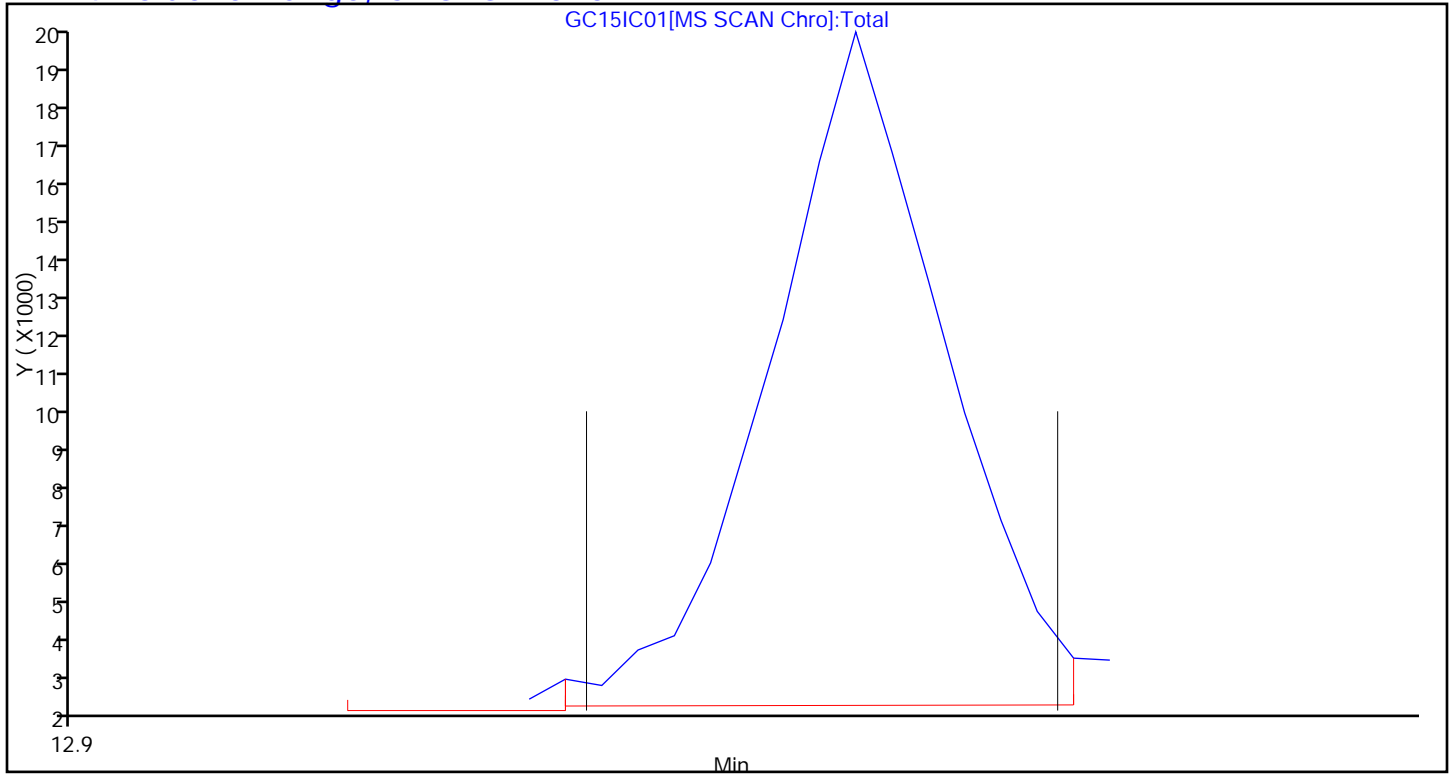
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC02.D
 Lims ID: IC L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Mar-2017 15:20:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004323-004
 Misc. Info.: 083683
 Operator ID: 7126 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Mar-2017 14:08:32 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: barlozhetskayaa

Date: 15-Mar-2017 16:12:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.985	7.993	-0.008	82	322451	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.153	10.161	-0.008	95	1571472	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.028	15.034	-0.006	88	1507586	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.699	16.705	-0.006	93	1181326	4.00	3.97	
6 Chlorodifluoromethane	67	3.461	3.457	0.004	97	3314	0.0784	0.0924	
7 Propene	41	3.461	3.466	-0.005	96	7827	0.0784	0.0918	
8 Dichlorodifluoromethane	85	3.510	3.510	0.000	100	29295	0.0784	0.0858	
9 Chloromethane	52	3.655	3.659	-0.004	60	2797	0.0784	0.1218	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.666	3.669	-0.003	92	17176	0.0784	0.0846	
11 Acetaldehyde	44	3.785	3.786	-0.001	86	22772	0.3921	0.8447	
12 Vinyl chloride	62	3.795	3.803	-0.008	99	8251	0.0784	0.0875	
13 Butadiene	54	3.876	3.876	0.000	68	5498	0.0784	0.0875	
14 Butane	43	3.876	3.879	-0.003	85	11940	0.0784	0.0893	
15 Bromomethane	94	4.140	4.141	-0.001	95	8019	0.0784	0.0860	
16 Chloroethane	64	4.254	4.258	-0.004	91	4085	0.0784	0.0895	
17 Ethanol	31	4.345	4.357	-0.012	97	15059	0.3921	0.4642	
18 Vinyl bromide	106	4.507	4.511	-0.004	96	7724	0.0784	0.0874	
19 2-Methylbutane	43	4.561	4.560	0.001	94	8230	0.0784	0.0911	
21 Acrolein	56	4.744	4.742	0.002	28	965	0.0784	0.0731	
20 Trichlorofluoromethane	101	4.739	4.743	-0.004	99	28467	0.0784	0.0838	
22 Acetonitrile	40	4.788	4.793	-0.005	89	2730	0.0784	0.0973	
23 Acetone	58	4.836	4.835	0.001	99	12083	0.2303	0.3816	
25 Pentane	72	4.933	4.937	-0.004	87	1458	0.0784	0.0888	
24 Isopropyl alcohol	45	4.917	4.939	-0.022	92	27125	0.2303	0.2477	
26 Ethyl ether	31	5.079	5.075	0.004	90	6464	0.0784	0.0868	
27 1,1-Dichloroethene	96	5.348	5.354	-0.006	96	7104	0.0784	0.0827	
28 Acrylonitrile	53	5.429	5.435	-0.006	93	3507	0.0784	0.0895	
29 2-Methyl-2-propanol	59	5.456	5.467	-0.011	95	10717	0.0784	0.0819	
30 1,1,2-Trichloro-1,2,2-trif	101	5.515	5.521	-0.006	91	16256	0.0784	0.0820	
31 Methylene Chloride	84	5.650	5.656	-0.006	89	12473	0.0784	0.1609	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.666	5.673	-0.007	91	7519	0.0784	0.0902	
33 Carbon disulfide	76	5.790	5.797	-0.007	99	18351	0.0784	0.0838	
34 trans-1,2-Dichloroethene	96	6.384	6.393	-0.009	95	6871	0.0784	0.0818	
35 2-Methylpentane	43	6.427	6.426	0.001	92	14498	0.0784	0.0879	
36 Methyl tert-butyl ether	73	6.518	6.513	0.005	95	20954	0.0784	0.0840	
37 1,1-Dichloroethane	63	6.761	6.771	-0.010	99	13865	0.0784	0.0845	
38 Vinyl acetate	43	6.880	6.881	-0.001	100	15406	0.0784	0.0818	
39 2-Butanone (MEK)	72	7.279	7.283	-0.004	97	3344	0.0784	0.0911	
40 Hexane	56	7.327	7.336	-0.009	80	5624	0.0784	0.0883	
41 Isopropyl ether	45	7.484	7.483	0.001	92	19499	0.0784	0.0832	
42 cis-1,2-Dichloroethene	96	7.678	7.691	-0.013	96	7618	0.0784	0.0854	
43 Ethyl acetate	43	7.877	7.880	-0.003	98	12954	0.0784	0.0834	
44 Chloroform	83	8.007	8.019	-0.012	92	19380	0.0784	0.0857	
45 Tert-butyl ethyl ether	59	8.120	8.122	-0.002	95	19417	0.0784	0.0824	
46 Tetrahydrofuran	42	8.395	8.387	0.008	87	7320	0.0784	0.0889	
47 1,1,1-Trichloroethane	97	8.994	8.997	-0.003	95	21875	0.0784	0.0836	
48 1,2-Dichloroethane	62	9.074	9.087	-0.013	99	13373	0.0784	0.0843	
49 Benzene	78	9.571	9.582	-0.011	96	22286	0.0784	0.0835	
50 Cyclohexane	69	9.592	9.590	0.002	78	3909	0.0784	0.0870	
52 n-Butanol	31	9.619	9.606	0.013	47	2238	0.0784	0.0783	
51 Carbon tetrachloride	117	9.603	9.611	-0.008	97	21497	0.0784	0.0771	
53 2,3-Dimethylpentane	71	9.738	9.740	-0.002	89	5321	0.0784	0.0866	
54 Thiophene	84	9.846	9.855	-0.009	94	12315	0.0784	0.0826	
55 Tert-amyl methyl ether	73	10.104	10.100	0.004	96	18607	0.0784	0.0760	
56 Isooctane	57	10.412	10.414	-0.002	96	33610	0.0784	0.0848	
57 n-Heptane	71	10.805	10.816	-0.011	90	8485	0.0784	0.0857	
58 1,2-Dichloropropane	63	10.838	10.846	-0.008	87	7985	0.0784	0.0881	
59 Trichloroethene	130	10.892	10.897	-0.005	94	11638	0.0784	0.0805	
60 Dibromomethane	93	10.951	10.961	-0.010	94	9448	0.0784	0.0784	
61 Dichlorobromomethane	83	11.113	11.126	-0.013	98	16938	0.0784	0.0732	
62 1,4-Dioxane	88	11.156	11.152	0.004	73	3011	0.0784	0.0833	
63 Methyl methacrylate	41	11.258	11.260	-0.002	93	8221	0.0784	0.0821	
64 Methylcyclohexane	83	11.701	11.704	-0.003	95	17005	0.0784	0.0818	
65 4-Methyl-2-pentanone (MIBK)	43	12.132	12.133	-0.001	96	12195	0.0784	0.0795	
66 cis-1,3-Dichloropropene	75	12.164	12.174	-0.010	97	13530	0.0784	0.0806	
67 trans-1,3-Dichloropropene	75	12.892	12.897	-0.005	97	12488	0.0784	0.0773	
68 Toluene	91	13.016	13.021	-0.005	93	25094	0.0784	0.0836	
69 1,1,2-Trichloroethane	83	13.081	13.091	-0.010	96	7631	0.0784	0.0848	
70 2-Methylthiophene	97	13.167	13.173	-0.006	97	20438	0.0784	0.0811	
71 3-Methylthiophene	97	13.372	13.381	-0.009	99	20142	0.0784	0.0807	
72 2-Hexanone	58	13.523	13.519	0.004	94	5612	0.0784	0.0781	
73 n-Octane	85	13.777	13.780	-0.003	89	8683	0.0784	0.0800	
74 Chlorodibromomethane	129	13.793	13.803	-0.010	96	14707	0.0784	0.0655	
75 Ethylene Dibromide	107	14.084	14.092	-0.008	98	13045	0.0784	0.0740	
76 Tetrachloroethene	129	14.192	14.195	-0.003	92	11152	0.0784	0.0812	
77 Chlorobenzene	112	15.076	15.082	-0.006	91	20374	0.0784	0.0802	
78 2,3-Dimethylheptane	43	15.152	15.155	-0.003	92	23134	0.0784	0.0900	
79 Ethylbenzene	91	15.389	15.393	-0.004	99	33624	0.0784	0.0801	
80 2-Ethylthiophene	97	15.486	15.491	-0.005	98	26097	0.0784	0.0790	
81 m-Xylene & p-Xylene	91	15.556	15.559	-0.003	99	53439	0.1568	0.1577	
82 Bromoform	173	15.977	15.979	-0.002	92	12722	0.0784	0.0566	
83 Styrene	104	16.020	16.027	-0.007	96	14764	0.0784	0.0660	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 n-Nonane	57	16.025	16.029	-0.004	87	15404	0.0784	0.0836	
85 o-Xylene	91	16.079	16.088	-0.009	97	28796	0.0784	0.0831	
86 1,1,2,2-Tetrachloroethane	83	16.403	16.411	-0.008	96	17347	0.0784	0.0794	
87 1,2,3-Trichloropropane	110	16.559	16.565	-0.006	96	6401	0.0784	0.0801	
88 Isopropylbenzene	105	16.688	16.692	-0.004	95	40591	0.0784	0.0807	
89 N-Propylbenzene	120	17.238	17.246	-0.008	99	9702	0.0784	0.0735	
90 2-Chlorotoluene	126	17.271	17.278	-0.007	94	9858	0.0784	0.0801	
91 4-Ethyltoluene	105	17.400	17.409	-0.009	98	36409	0.0784	0.0768	
92 1,3,5-Trimethylbenzene	120	17.481	17.490	-0.009	91	16770	0.0784	0.0755	
93 Alpha Methyl Styrene	118	17.729	17.734	-0.005	85	10756	0.0784	0.0621	
94 n-Decane	57	17.832	17.837	-0.005	94	19120	0.0784	0.0847	
95 tert-Butylbenzene	119	17.934	17.939	-0.005	91	36058	0.0784	0.0770	
96 1,2,4-Trimethylbenzene	105	17.950	17.953	-0.003	96	32090	0.0784	0.0754	
98 sec-Butylbenzene	105	18.220	18.223	-0.003	97	45958	0.0784	0.0767	
97 1,3-Dichlorobenzene	146	18.220	18.223	-0.003	95	22698	0.0784	0.0707	
99 Benzyl chloride	91	18.295	18.303	-0.008	97	28105	0.0784	0.0700	
100 1,4-Dichlorobenzene	146	18.312	18.316	-0.004	92	22839	0.0784	0.0728	
101 4-Isopropyltoluene	119	18.398	18.400	-0.002	96	40574	0.0784	0.0767	
102 1,2,3-Trimethylbenzene	105	18.441	18.445	-0.004	98	25342	0.0784	0.0798	
103 Butylcyclohexane	83	18.516	18.520	-0.004	92	24915	0.0784	0.0795	
104 1,2-Dichlorobenzene	146	18.684	18.689	-0.005	90	22069	0.0784	0.0721	
105 2,3-Dihydroindene	117	18.689	18.693	-0.004	92	27938	0.0784	0.0721	
106 Indene	116	18.824	18.827	-0.003	90	19511	0.0784	0.0689	
107 n-Butylbenzene	91	18.851	18.854	-0.003	98	38334	0.0784	0.0775	
108 Undecane	57	19.207	19.209	-0.002	95	23261	0.0784	0.0878	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.234	19.239	-0.005	96	28961	0.0784	0.0733	
110 1,2-Dibromo-3-Chloropropan	157	19.304	19.308	-0.004	88	8417	0.0784	0.0642	
111 1,2,4,5-Tetramethylbenzene	119	19.633	19.634	-0.001	96	34855	0.0784	0.0734	
112 1,2,3,5-Tetramethylbenzene	119	19.687	19.689	-0.002	93	22523	0.0784	0.0789	
113 1,2,3,4-Tetramethylbenzene	119	20.080	20.083	-0.003	96	28869	0.0784	0.0740	
114 Dodecane	57	20.280	20.280	0.000	93	21541	0.0784	0.0917	
115 1,2,4-Trichlorobenzene	180	20.420	20.418	0.002	93	19622	0.0784	0.0729	
116 Naphthalene	128	20.544	20.545	-0.001	98	43374	0.0784	0.0769	
117 Benzo(b)thiophene	134	20.641	20.645	-0.004	99	25544	0.0784	0.0779	
118 Hexachlorobutadiene	225	20.776	20.776	0.000	91	20064	0.0784	0.0756	
119 1,2,3-Trichlorobenzene	180	20.824	20.825	-0.001	94	20740	0.0784	0.0816	
120 2-Methylnaphthalene	142	21.622	21.623	-0.001	98	24114	0.2372	0.2059	
121 1-Methylnaphthalene	142	21.800	21.801	-0.001	98	26609	0.2372	0.2281	
A 122 C6 Range	1	7.337	(7.297-7.377)		0	78271	0.0784	0.1259	
A 124 Toluene Range	1	13.011	(12.976-13.046)		0	63520	0.0784	0.0846	
S 126 Xylenes, Total	100				0		0.2353	0.2408	
S 127 1,2-Dichloroethene, Total	1				0		0.1568	0.1671	

Reagents:

40L12DNP_00010

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC02.D

Injection Date: 15-Mar-2017 15:20:30

Instrument ID: MG

Operator ID: 7126

Lims ID: IC L2

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

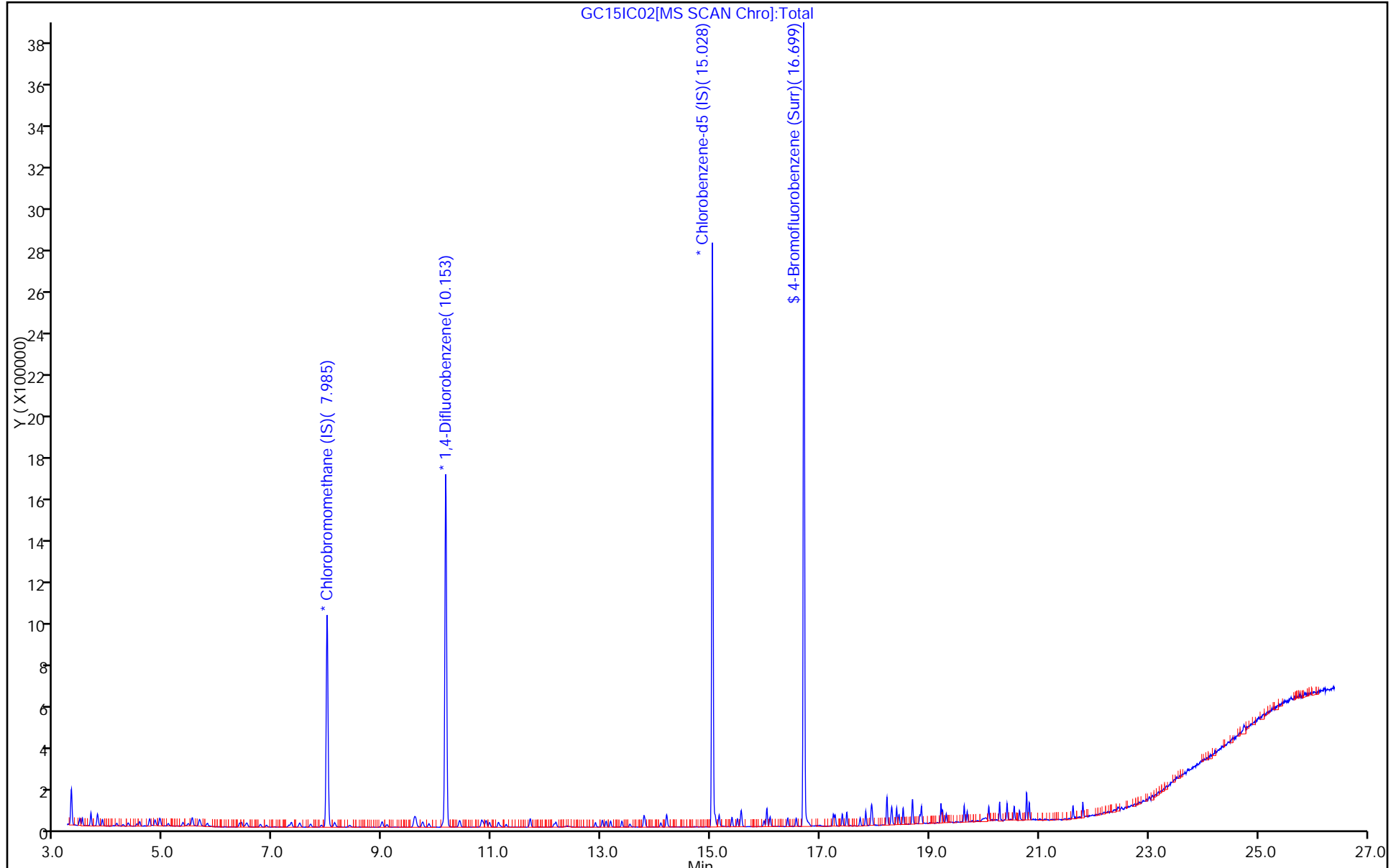
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC02.D

Injection Date: 15-Mar-2017 15:20:30

Instrument ID: MG

Lims ID: IC L2

Client ID:

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

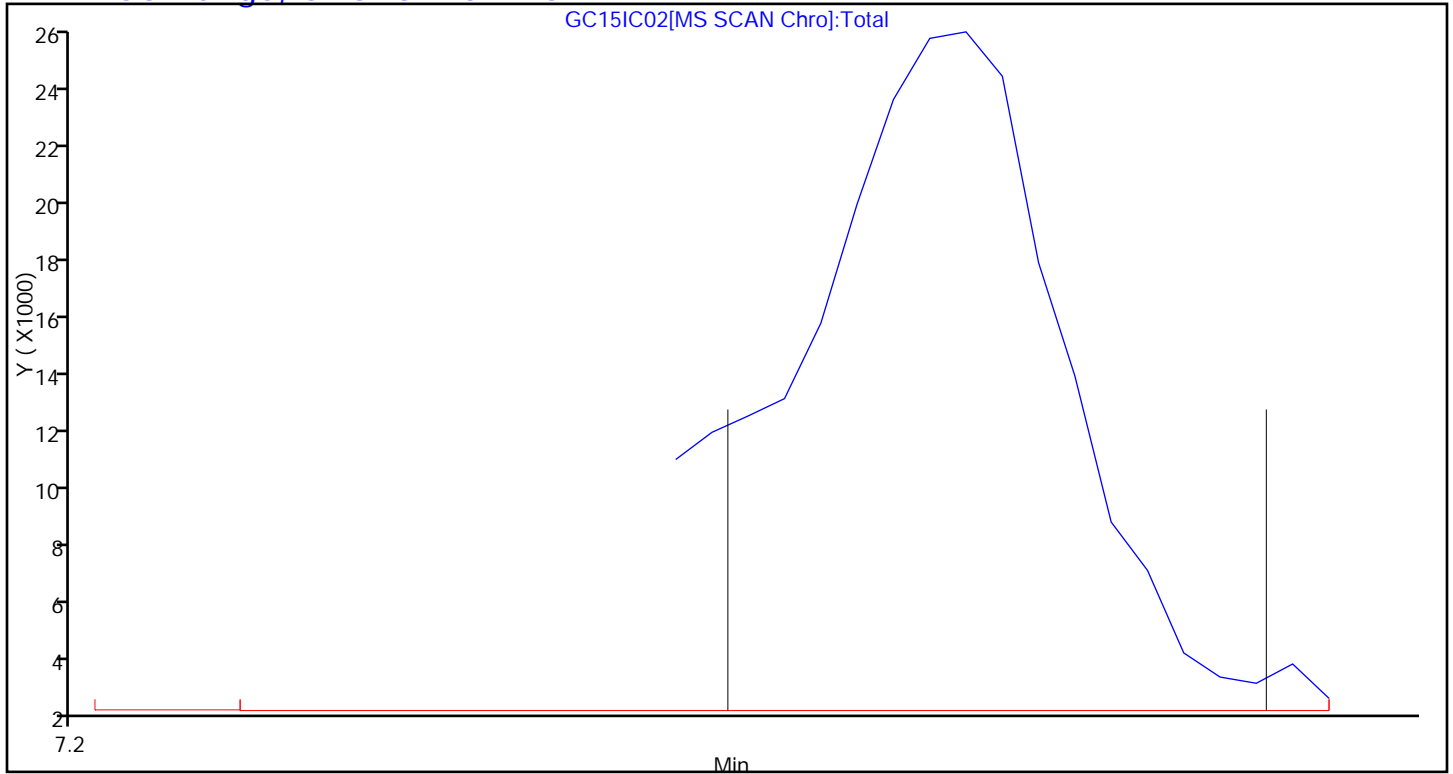
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC02.D

Injection Date: 15-Mar-2017 15:20:30

Instrument ID: MG

Lims ID: IC L2

Client ID:

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

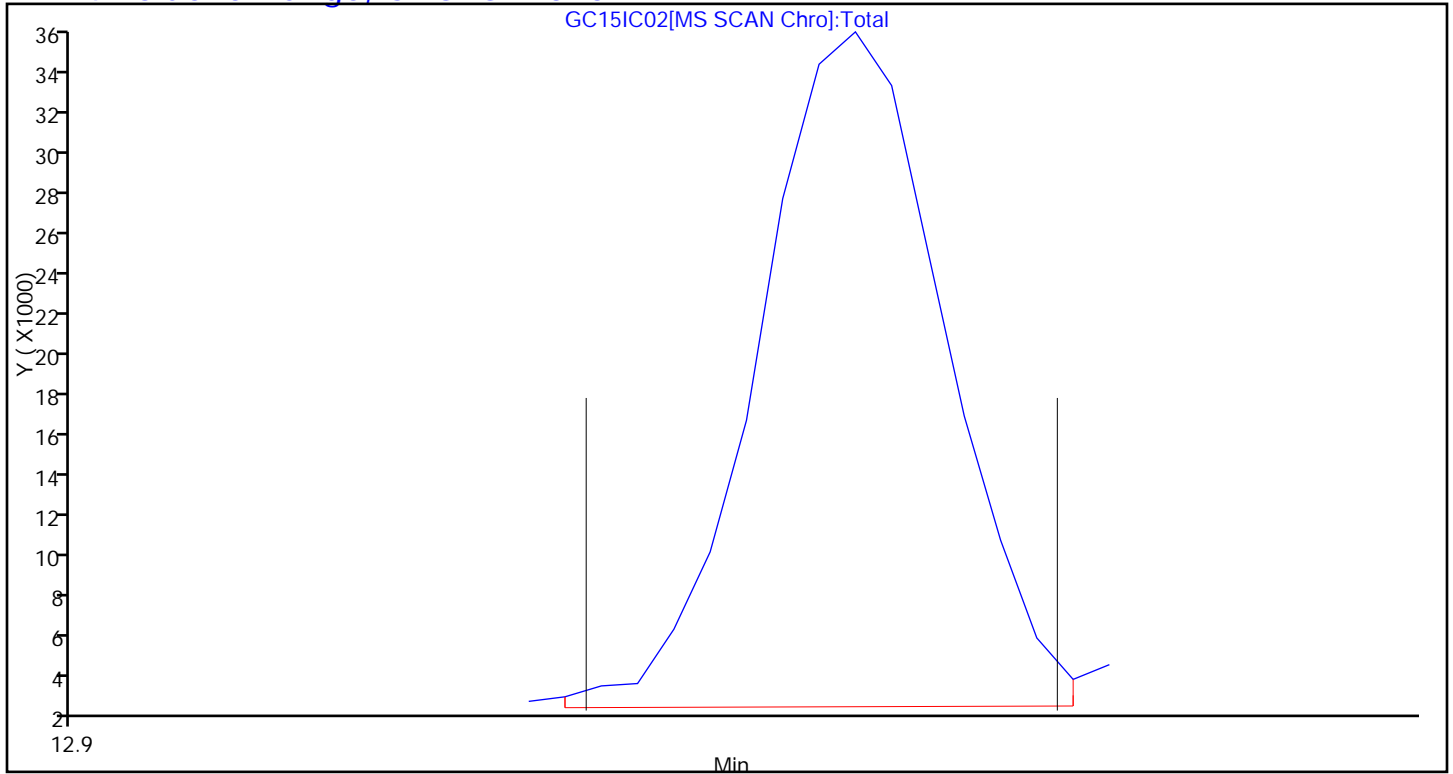
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC03.D
 Lims ID: IC L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 15-Mar-2017 16:02:30 ALS Bottle#: 2 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004323-005
 Misc. Info.: 083682
 Operator ID: 7126 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5

Method: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Mar-2017 14:10:00 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: barlozhetskayaa

Date: 15-Mar-2017 17:05:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.985	7.993	-0.008	83	334641	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.153	10.161	-0.008	95	1663587	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.028	15.034	-0.006	88	1578082	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.699	16.705	-0.006	93	1216766	4.00	3.90	
6 Chlorodifluoromethane	67	3.456	3.457	-0.001	97	6330	0.1587	0.1701	
7 Propene	41	3.466	3.466	0.000	97	15226	0.1587	0.1720	
8 Dichlorodifluoromethane	85	3.510	3.510	0.000	100	58308	0.1587	0.1646	
9 Chloromethane	52	3.661	3.659	0.002	52	4662	0.1587	0.1957	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.671	3.669	0.002	91	34069	0.1587	0.1616	
11 Acetaldehyde	44	3.785	3.786	-0.001	86	38119	0.7935	1.36	
12 Vinyl chloride	62	3.801	3.803	-0.002	100	17041	0.1587	0.1741	
13 Butadiene	54	3.876	3.876	0.000	67	11030	0.1587	0.1692	
14 Butane	43	3.876	3.879	-0.003	85	24164	0.1587	0.1742	
15 Bromomethane	94	4.140	4.141	-0.001	97	15909	0.1587	0.1645	
16 Chloroethane	64	4.254	4.258	-0.004	89	7956	0.1587	0.1679	
17 Ethanol	31	4.345	4.357	-0.012	99	28920	0.7935	0.8589	
18 Vinyl bromide	106	4.507	4.511	-0.004	97	15245	0.1587	0.1663	
19 2-Methylbutane	43	4.561	4.560	0.001	89	15685	0.1587	0.1674	
21 Acrolein	56	4.739	4.742	-0.003	28	2011	0.1587	0.1467	
20 Trichlorofluoromethane	101	4.739	4.743	-0.004	100	55895	0.1587	0.1585	
22 Acetonitrile	40	4.788	4.793	-0.005	97	5595	0.1587	0.1992	
23 Acetone	58	4.836	4.835	0.001	100	21667	0.4660	0.6594	
25 Pentane	72	4.939	4.937	0.002	94	2803	0.1587	0.1645	
24 Isopropyl alcohol	45	4.917	4.939	-0.022	95	57055	0.4660	0.5020	
26 Ethyl ether	31	5.079	5.075	0.004	92	12398	0.1587	0.1604	
27 1,1-Dichloroethene	96	5.348	5.354	-0.006	97	14330	0.1587	0.1607	
28 Acrylonitrile	53	5.435	5.435	0.000	94	7063	0.1587	0.1737	
29 2-Methyl-2-propanol	59	5.445	5.467	-0.022	94	23609	0.1587	0.1738	
30 1,1,2-Trichloro-1,2,2-trif	101	5.516	5.521	-0.005	94	32632	0.1587	0.1586	
31 Methylene Chloride	84	5.650	5.656	-0.006	87	18584	0.1587	0.2309	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.667	5.673	-0.006	91	13978	0.1587	0.1616	
33 Carbon disulfide	76	5.791	5.797	-0.006	100	36441	0.1587	0.1604	
34 trans-1,2-Dichloroethene	96	6.384	6.393	-0.009	95	13700	0.1587	0.1571	
35 2-Methylpentane	43	6.421	6.426	-0.005	93	28701	0.1587	0.1677	
36 Methyl tert-butyl ether	73	6.519	6.513	0.005	96	42292	0.1587	0.1633	
37 1,1-Dichloroethane	63	6.767	6.771	-0.004	100	27828	0.1587	0.1635	
38 Vinyl acetate	43	6.880	6.881	-0.001	99	30561	0.1587	0.1563	
39 2-Butanone (MEK)	72	7.279	7.283	-0.004	98	6361	0.1587	0.1670	
40 Hexane	56	7.333	7.336	-0.003	81	10820	0.1587	0.1637	
41 Isopropyl ether	45	7.484	7.483	0.001	93	40414	0.1587	0.1662	
42 cis-1,2-Dichloroethene	96	7.689	7.691	-0.002	95	14847	0.1587	0.1603	
43 Ethyl acetate	43	7.872	7.880	-0.008	98	26514	0.1587	0.1644	
44 Chloroform	83	8.012	8.019	-0.007	95	37079	0.1587	0.1580	
45 Tert-butyl ethyl ether	59	8.120	8.122	-0.002	96	39200	0.1587	0.1604	
46 Tetrahydrofuran	42	8.390	8.387	0.003	86	13762	0.1587	0.1611	
47 1,1,1-Trichloroethane	97	8.988	8.997	-0.009	94	43037	0.1587	0.1585	
48 1,2-Dichloroethane	62	9.074	9.087	-0.013	99	27277	0.1587	0.1624	
49 Benzene	78	9.576	9.582	-0.006	97	44171	0.1587	0.1563	
50 Cyclohexane	69	9.587	9.590	-0.003	95	7351	0.1587	0.1545	
52 n-Butanol	31	9.603	9.606	-0.003	62	5160	0.1587	0.1706	
51 Carbon tetrachloride	117	9.603	9.611	-0.008	96	42733	0.1587	0.1447	
53 2,3-Dimethylpentane	71	9.738	9.740	-0.002	89	10219	0.1587	0.1571	
54 Thiophene	84	9.846	9.855	-0.009	94	25238	0.1587	0.1598	
55 Tert-amyl methyl ether	73	10.099	10.100	-0.001	97	39025	0.1587	0.1506	
56 Isooctane	57	10.412	10.414	-0.002	96	67131	0.1587	0.1600	
57 n-Heptane	71	10.811	10.816	-0.005	90	16529	0.1587	0.1577	
58 1,2-Dichloropropane	63	10.838	10.846	-0.008	82	15995	0.1587	0.1666	
59 Trichloroethene	130	10.892	10.897	-0.005	93	23332	0.1587	0.1524	
60 Dibromomethane	93	10.956	10.961	-0.005	95	18824	0.1587	0.1476	
61 Dichlorobromomethane	83	11.118	11.126	-0.008	98	35557	0.1587	0.1452	
62 1,4-Dioxane	88	11.151	11.152	-0.001	96	6069	0.1587	0.1586	
63 Methyl methacrylate	41	11.258	11.260	-0.002	93	16201	0.1587	0.1528	
64 Methylcyclohexane	83	11.695	11.704	-0.009	95	34804	0.1587	0.1581	
65 4-Methyl-2-pentanone (MIBK)	43	12.132	12.133	-0.001	95	26186	0.1587	0.1613	
66 cis-1,3-Dichloropropene	75	12.170	12.174	-0.004	96	26770	0.1587	0.1506	
67 trans-1,3-Dichloropropene	75	12.892	12.897	-0.005	97	26814	0.1587	0.1586	
68 Toluene	91	13.016	13.021	-0.005	93	49691	0.1587	0.1581	
69 1,1,2-Trichloroethane	83	13.081	13.091	-0.010	95	15096	0.1587	0.1602	
70 2-Methylthiophene	97	13.167	13.173	-0.006	97	41117	0.1587	0.1558	
71 3-Methylthiophene	97	13.378	13.381	-0.003	99	40017	0.1587	0.1532	
72 2-Hexanone	58	13.518	13.519	-0.001	94	11715	0.1587	0.1557	
73 n-Octane	85	13.777	13.780	-0.003	89	18002	0.1587	0.1585	
74 Chlorodibromomethane	129	13.798	13.803	-0.005	97	31316	0.1587	0.1332	
75 Ethylene Dibromide	107	14.089	14.092	-0.003	98	26740	0.1587	0.1449	
76 Tetrachloroethene	129	14.192	14.195	-0.003	91	21668	0.1587	0.1507	
77 Chlorobenzene	112	15.076	15.082	-0.006	92	41319	0.1587	0.1553	
78 2,3-Dimethylheptane	43	15.152	15.155	-0.003	91	44892	0.1587	0.1668	
79 Ethylbenzene	91	15.389	15.393	-0.004	99	69301	0.1587	0.1578	
80 2-Ethylthiophene	97	15.486	15.491	-0.005	98	52367	0.1587	0.1514	
81 m-Xylene & p-Xylene	91	15.556	15.559	-0.003	100	110203	0.3174	0.3107	
82 Bromoform	173	15.971	15.979	-0.008	93	27441	0.1587	0.1166	
83 Styrene	104	16.025	16.027	-0.002	93	31773	0.1587	0.1358	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 n-Nonane	57	16.025	16.029	-0.004	89	32630	0.1587	0.1693	
85 o-Xylene	91	16.085	16.088	-0.003	97	56948	0.1587	0.1570	
86 1,1,2,2-Tetrachloroethane	83	16.403	16.411	-0.008	98	33152	0.1587	0.1450	
87 1,2,3-Trichloropropane	110	16.559	16.565	-0.006	96	12888	0.1587	0.1541	
88 Isopropylbenzene	105	16.689	16.692	-0.003	96	82210	0.1587	0.1561	
89 N-Propylbenzene	120	17.244	17.246	-0.002	98	20666	0.1587	0.1496	
90 2-Chlorotoluene	126	17.276	17.278	-0.002	97	19395	0.1587	0.1505	
91 4-Ethyltoluene	105	17.406	17.409	-0.003	98	74487	0.1587	0.1502	
92 1,3,5-Trimethylbenzene	120	17.487	17.490	-0.003	91	33353	0.1587	0.1434	
93 Alpha Methyl Styrene	118	17.729	17.734	-0.005	88	22891	0.1587	0.1263	
94 n-Decane	57	17.832	17.837	-0.005	93	38214	0.1587	0.1617	
95 tert-Butylbenzene	119	17.934	17.939	-0.005	91	72279	0.1587	0.1475	
96 1,2,4-Trimethylbenzene	105	17.945	17.953	-0.008	96	66195	0.1587	0.1486	
98 sec-Butylbenzene	105	18.220	18.223	-0.003	98	92643	0.1587	0.1477	
97 1,3-Dichlorobenzene	146	18.220	18.223	-0.003	96	46148	0.1587	0.1373	
99 Benzyl chloride	91	18.295	18.303	-0.008	97	61054	0.1587	0.1453	
100 1,4-Dichlorobenzene	146	18.312	18.316	-0.004	93	46292	0.1587	0.1409	
101 4-Isopropyltoluene	119	18.398	18.400	-0.002	97	83608	0.1587	0.1509	
102 1,2,3-Trimethylbenzene	105	18.441	18.445	-0.004	98	50998	0.1587	0.1533	
103 Butylcyclohexane	83	18.517	18.520	-0.003	94	52392	0.1587	0.1596	
104 1,2-Dichlorobenzene	146	18.684	18.689	-0.005	91	43975	0.1587	0.1373	
105 2,3-Dihydroindene	117	18.689	18.693	-0.004	93	58519	0.1587	0.1442	
106 Indene	116	18.824	18.827	-0.003	92	39915	0.1587	0.1346	
107 n-Butylbenzene	91	18.851	18.854	-0.003	97	80658	0.1587	0.1557	
108 Undecane	57	19.207	19.209	-0.002	93	44209	0.1587	0.1594	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.234	19.239	-0.005	96	59995	0.1587	0.1451	
110 1,2-Dibromo-3-Chloropropan	157	19.304	19.308	-0.004	88	16001	0.1587	0.1165	
111 1,2,4,5-Tetramethylbenzene	119	19.633	19.634	-0.001	96	70829	0.1587	0.1426	
112 1,2,3,5-Tetramethylbenzene	119	19.687	19.689	-0.002	94	42400	0.1587	0.1418	
113 1,2,3,4-Tetramethylbenzene	119	20.080	20.083	-0.003	96	58175	0.1587	0.1425	
114 Dodecane	57	20.280	20.280	0.000	93	39684	0.1587	0.1613	
115 1,2,4-Trichlorobenzene	180	20.415	20.418	-0.003	94	35767	0.1587	0.1269	
116 Naphthalene	128	20.544	20.545	-0.001	98	78779	0.1587	0.1334	
117 Benzo(b)thiophene	134	20.641	20.645	-0.004	98	46547	0.1587	0.1355	
118 Hexachlorobutadiene	225	20.776	20.776	0.000	92	37819	0.1587	0.1361	
119 1,2,3-Trichlorobenzene	180	20.824	20.825	-0.001	94	35163	0.1587	0.1322	
120 2-Methylnaphthalene	142	21.623	21.623	0.000	99	46113	0.4801	0.3761	
121 1-Methylnaphthalene	142	21.800	21.801	-0.001	98	44542	0.4801	0.3648	
A 122 C6 Range	1	7.334	(7.303-7.383)		0	107367	0.1587	0.1640	
A 124 Toluene Range	1	13.011	(12.976-13.046)		0	124912	0.1587	0.1569	
S 126 Xylenes, Total	100				0		0.4761	0.4678	
S 127 1,2-Dichloroethene, Total	1				0		0.3174	0.3174	

Reagents:

40L3DNP_00011

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC03.D

Injection Date: 15-Mar-2017 16:02:30

Instrument ID: MG

Operator ID: 7126

Lims ID: IC L3

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

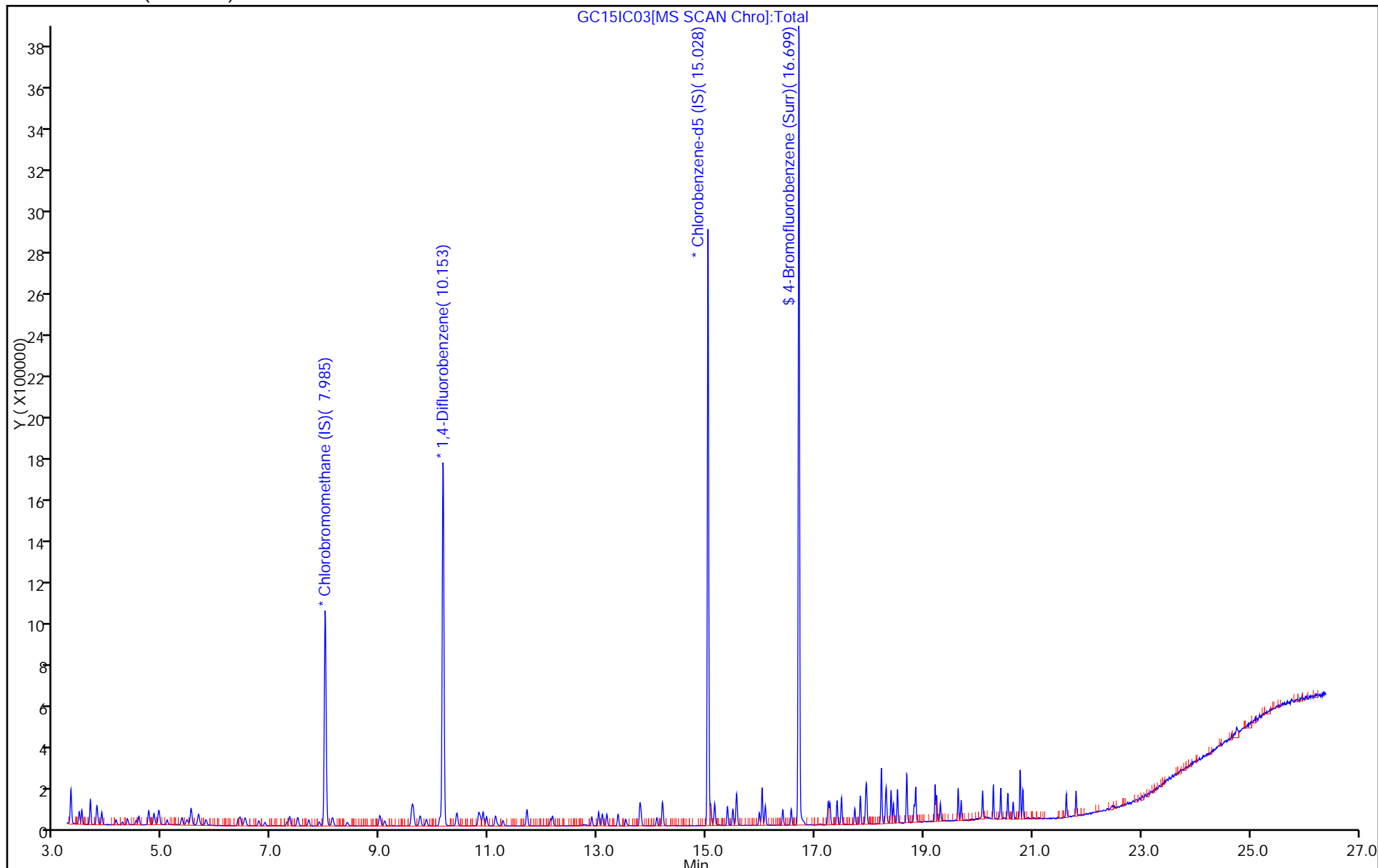
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC03.D

Injection Date: 15-Mar-2017 16:02:30

Instrument ID: MG

Lims ID: IC L3

Client ID:

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

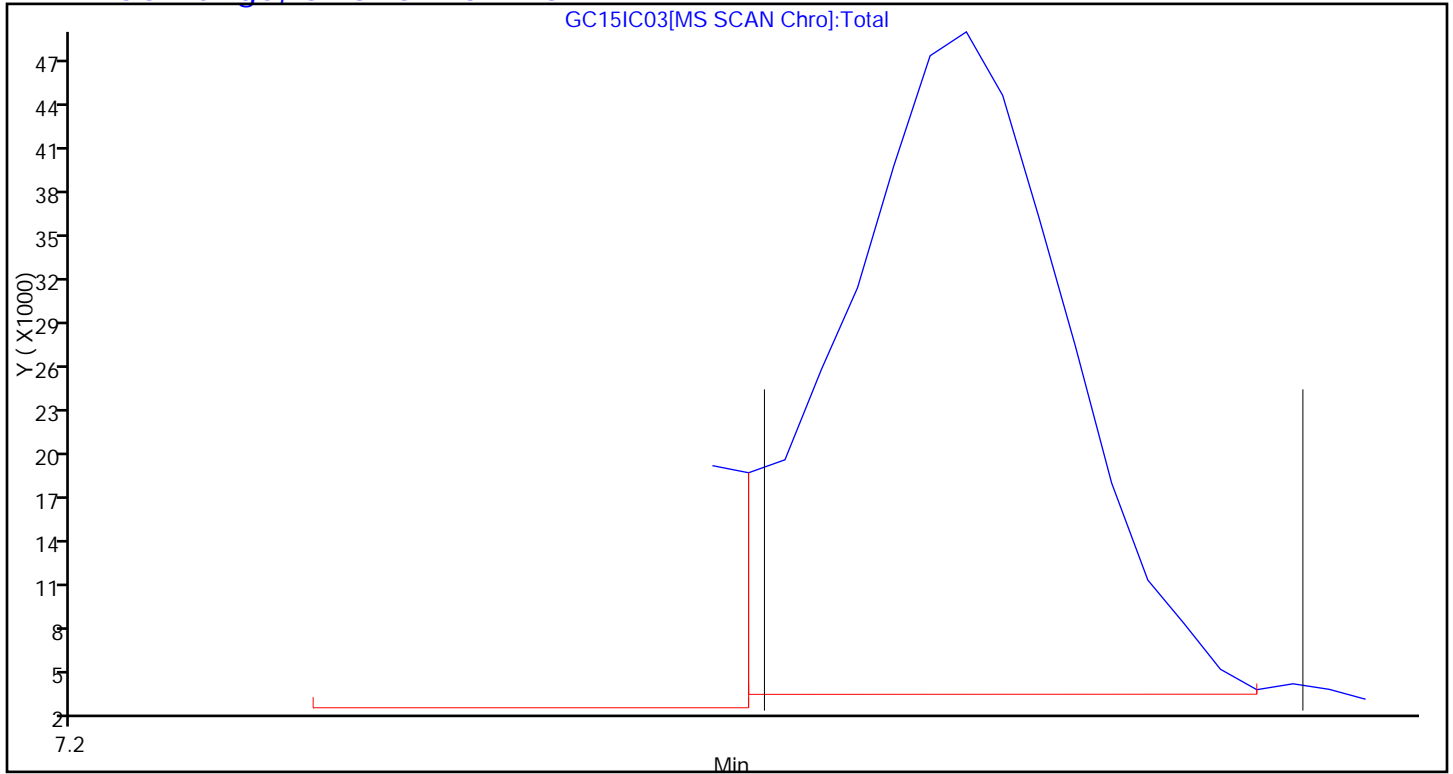
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC03.D

Injection Date: 15-Mar-2017 16:02:30

Instrument ID: MG

Lims ID: IC L3

Client ID:

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

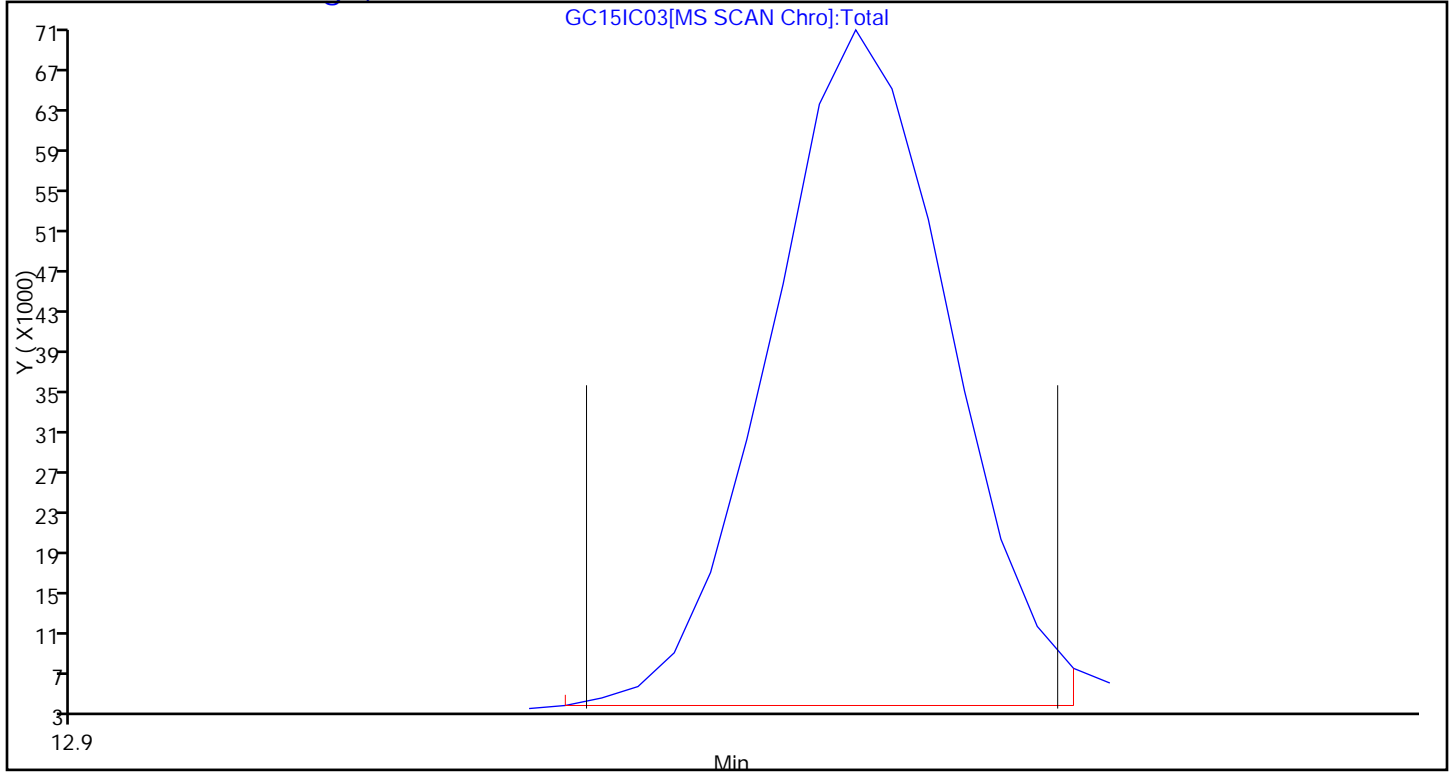
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC04.D
 Lims ID: IC L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-Mar-2017 16:45:30 ALS Bottle#: 3 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004323-006
 Misc. Info.: 083681
 Operator ID: 7126 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Mar-2017 14:11:31 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: barlozhetskayaa

Date: 15-Mar-2017 17:56:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.985	7.993	-0.008	82	343423	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.153	10.161	-0.008	95	1710584	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.028	15.034	-0.006	88	1638521	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.699	16.705	-0.006	94	1296737	4.00	4.00	
6 Chlorodifluoromethane	67	3.456	3.457	-0.001	97	16118	0.4001	0.4221	
7 Propene	41	3.466	3.466	0.000	98	38073	0.4001	0.4191	
8 Dichlorodifluoromethane	85	3.510	3.510	0.000	100	147329	0.4001	0.4053	
9 Chloromethane	52	3.661	3.659	0.002	98	10845	0.4001	0.4435	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.666	3.669	-0.003	92	85416	0.4001	0.3948	
11 Acetaldehyde	44	3.785	3.786	-0.001	88	72210	2.00	2.51	
12 Vinyl chloride	62	3.801	3.803	-0.002	99	41537	0.4001	0.4135	
13 Butadiene	54	3.871	3.876	-0.005	68	28287	0.4001	0.4228	
14 Butane	43	3.876	3.879	-0.003	86	59701	0.4001	0.4194	
15 Bromomethane	94	4.141	4.141	0.000	97	39896	0.4001	0.4019	
16 Chloroethane	64	4.254	4.258	-0.004	92	19908	0.4001	0.4095	
17 Ethanol	31	4.345	4.357	-0.012	98	69923	2.00	2.02	
18 Vinyl bromide	106	4.507	4.511	-0.004	97	37848	0.4001	0.4023	
19 2-Methylbutane	43	4.556	4.560	-0.004	88	38853	0.4001	0.4040	
21 Acrolein	56	4.734	4.742	-0.008	28	4862	0.4001	0.3456	
20 Trichlorofluoromethane	101	4.739	4.743	-0.004	99	144284	0.4001	0.3986	
22 Acetonitrile	40	4.788	4.793	-0.005	94	12605	0.4001	0.4373	
23 Acetone	58	4.831	4.835	-0.004	99	46214	1.17	1.37	
25 Pentane	72	4.933	4.937	-0.004	96	6934	0.4001	0.3964	
24 Isopropyl alcohol	45	4.917	4.939	-0.022	93	159557	1.17	1.37	
26 Ethyl ether	31	5.068	5.075	-0.007	92	32090	0.4001	0.4045	
27 1,1-Dichloroethene	96	5.348	5.354	-0.006	98	36376	0.4001	0.3974	
28 Acrylonitrile	53	5.429	5.435	-0.006	97	16558	0.4001	0.3967	
29 2-Methyl-2-propanol	59	5.451	5.467	-0.016	95	55009	0.4001	0.3945	
30 1,1,2-Trichloro-1,2,2-trif	101	5.516	5.521	-0.005	94	84505	0.4001	0.4002	
31 Methylene Chloride	84	5.645	5.656	-0.011	89	36046	0.4001	0.4365	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.667	5.673	-0.006	93	34533	0.4001	0.3890	
33 Carbon disulfide	76	5.791	5.797	-0.006	99	91859	0.4001	0.3939	
34 trans-1,2-Dichloroethene	96	6.384	6.393	-0.009	95	34363	0.4001	0.3840	
35 2-Methylpentane	43	6.422	6.426	-0.004	92	71301	0.4001	0.4061	
36 Methyl tert-butyl ether	73	6.508	6.513	-0.005	95	105435	0.4001	0.3966	
37 1,1-Dichloroethane	63	6.767	6.771	-0.004	100	69127	0.4001	0.3957	
38 Vinyl acetate	43	6.874	6.881	-0.007	99	79405	0.4001	0.3958	
39 2-Butanone (MEK)	72	7.273	7.283	-0.010	99	15082	0.4001	0.3859	
40 Hexane	56	7.333	7.336	-0.003	84	27547	0.4001	0.4062	
41 Isopropyl ether	45	7.473	7.483	-0.010	93	101005	0.4001	0.4047	
42 cis-1,2-Dichloroethene	96	7.683	7.691	-0.008	95	36823	0.4001	0.3874	
43 Ethyl acetate	43	7.872	7.880	-0.008	98	66315	0.4001	0.4007	
44 Chloroform	83	8.007	8.019	-0.012	95	95787	0.4001	0.3976	
45 Tert-butyl ethyl ether	59	8.115	8.122	-0.007	95	99212	0.4001	0.3955	
46 Tetrahydrofuran	42	8.379	8.387	-0.008	92	35542	0.4001	0.4054	
47 1,1,1-Trichloroethane	97	8.994	8.997	-0.003	94	108746	0.4001	0.3902	
48 1,2-Dichloroethane	62	9.080	9.087	-0.007	99	67175	0.4001	0.3890	
49 Benzene	78	9.576	9.582	-0.006	97	110029	0.4001	0.3786	
50 Cyclohexane	69	9.587	9.590	-0.003	89	19497	0.4001	0.3986	
52 n-Butanol	31	9.598	9.606	-0.008	66	12296	0.4001	0.3953	
51 Carbon tetrachloride	117	9.608	9.611	-0.003	98	113747	0.4001	0.3745	
53 2,3-Dimethylpentane	71	9.738	9.740	-0.002	89	26444	0.4001	0.3953	
54 Thiophene	84	9.851	9.855	-0.004	95	63320	0.4001	0.3900	
55 Tert-amyl methyl ether	73	10.094	10.100	-0.006	98	107357	0.4001	0.4030	
56 Isooctane	57	10.406	10.414	-0.008	97	172066	0.4001	0.3989	
57 n-Heptane	71	10.811	10.816	-0.005	91	40968	0.4001	0.3802	
58 1,2-Dichloropropane	63	10.838	10.846	-0.008	84	39466	0.4001	0.3998	
59 Trichloroethene	130	10.892	10.897	-0.005	94	58508	0.4001	0.3717	
60 Dibromomethane	93	10.956	10.961	-0.005	94	49152	0.4001	0.3747	
61 Dichlorobromomethane	83	11.118	11.126	-0.008	98	95415	0.4001	0.3789	
62 1,4-Dioxane	88	11.151	11.152	-0.001	94	15307	0.4001	0.3891	
63 Methyl methacrylate	41	11.253	11.260	-0.007	93	40539	0.4001	0.3718	
64 Methylcyclohexane	83	11.701	11.704	-0.003	95	87846	0.4001	0.3880	
65 4-Methyl-2-pentanone (MIBK)	43	12.121	12.133	-0.012	97	64835	0.4001	0.3884	
66 cis-1,3-Dichloropropene	75	12.170	12.174	-0.004	95	69133	0.4001	0.3783	
67 trans-1,3-Dichloropropene	75	12.892	12.897	-0.005	97	68241	0.4001	0.3888	
68 Toluene	91	13.016	13.021	-0.005	93	126815	0.4001	0.3885	
69 1,1,2-Trichloroethane	83	13.086	13.091	-0.005	97	37911	0.4001	0.3874	
70 2-Methylthiophene	97	13.167	13.173	-0.006	98	107989	0.4001	0.3941	
71 3-Methylthiophene	97	13.372	13.381	-0.009	99	105015	0.4001	0.3872	
72 2-Hexanone	58	13.512	13.519	-0.007	93	29914	0.4001	0.3829	
73 n-Octane	85	13.777	13.780	-0.003	90	45217	0.4001	0.3833	
74 Chlorodibromomethane	129	13.798	13.803	-0.005	97	85348	0.4001	0.3496	
75 Ethylene Dibromide	107	14.084	14.092	-0.008	96	72403	0.4001	0.3778	
76 Tetrachloroethene	129	14.192	14.195	-0.003	94	54718	0.4001	0.3665	
77 Chlorobenzene	112	15.076	15.082	-0.006	92	106057	0.4001	0.3839	
78 2,3-Dimethylheptane	43	15.152	15.155	-0.003	91	114675	0.4001	0.4103	
79 Ethylbenzene	91	15.389	15.393	-0.004	99	175356	0.4001	0.3846	
80 2-Ethylthiophene	97	15.486	15.491	-0.005	98	139782	0.4001	0.3892	
81 m-Xylene & p-Xylene	91	15.551	15.559	-0.008	100	284366	0.8002	0.7722	
82 Bromoform	173	15.971	15.979	-0.008	94	77559	0.4001	0.3174	
83 Styrene	104	16.020	16.027	-0.007	97	87701	0.4001	0.3610	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 n-Nonane	57	16.025	16.029	-0.004	88	80602	0.4001	0.4027	
85 o-Xylene	91	16.085	16.088	-0.003	98	144970	0.4001	0.3850	
86 1,1,2,2-Tetrachloroethane	83	16.403	16.411	-0.008	98	90906	0.4001	0.3830	
87 1,2,3-Trichloropropane	110	16.559	16.565	-0.006	96	32782	0.4001	0.3774	
88 Isopropylbenzene	105	16.689	16.692	-0.003	98	207127	0.4001	0.3788	
89 N-Propylbenzene	120	17.244	17.246	-0.002	99	54076	0.4001	0.3770	
90 2-Chlorotoluene	126	17.271	17.278	-0.007	97	49412	0.4001	0.3692	
91 4-Ethyltoluene	105	17.406	17.409	-0.003	98	193325	0.4001	0.3754	
92 1,3,5-Trimethylbenzene	120	17.487	17.490	-0.003	92	89762	0.4001	0.3717	
93 Alpha Methyl Styrene	118	17.729	17.734	-0.005	86	63304	0.4001	0.3364	
94 n-Decane	57	17.832	17.837	-0.005	93	100736	0.4001	0.4105	
95 tert-Butylbenzene	119	17.934	17.939	-0.005	90	186533	0.4001	0.3667	
96 1,2,4-Trimethylbenzene	105	17.950	17.953	-0.003	96	173218	0.4001	0.3744	
98 sec-Butylbenzene	105	18.220	18.223	-0.003	98	243244	0.4001	0.3734	
97 1,3-Dichlorobenzene	146	18.215	18.223	-0.008	96	120087	0.4001	0.3442	
99 Benzyl chloride	91	18.295	18.303	-0.008	97	161617	0.4001	0.3703	
100 1,4-Dichlorobenzene	146	18.312	18.316	-0.004	94	120739	0.4001	0.3540	
101 4-Isopropyltoluene	119	18.398	18.400	-0.002	97	214236	0.4001	0.3724	
102 1,2,3-Trimethylbenzene	105	18.441	18.445	-0.004	98	130876	0.4001	0.3790	
103 Butylcyclohexane	83	18.517	18.520	-0.003	94	134750	0.4001	0.3954	
104 1,2-Dichlorobenzene	146	18.684	18.689	-0.005	92	115468	0.4001	0.3473	
105 2,3-Dihydroindene	117	18.689	18.693	-0.004	93	150042	0.4001	0.3560	
106 Indene	116	18.824	18.827	-0.003	91	108215	0.4001	0.3514	
107 n-Butylbenzene	91	18.851	18.854	-0.003	98	207014	0.4001	0.3850	
108 Undecane	57	19.207	19.209	-0.002	94	117141	0.4001	0.4068	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.239	19.239	0.000	97	157840	0.4001	0.3676	
110 1,2-Dibromo-3-Chloropropan	157	19.304	19.308	-0.004	92	46413	0.4001	0.3255	
111 1,2,4,5-Tetramethylbenzene	119	19.633	19.634	-0.001	96	189973	0.4001	0.3683	
112 1,2,3,5-Tetramethylbenzene	119	19.687	19.689	-0.002	94	114039	0.4001	0.3674	
113 1,2,3,4-Tetramethylbenzene	119	20.080	20.083	-0.003	96	153792	0.4001	0.3629	
114 Dodecane	57	20.280	20.280	0.000	93	100417	0.4001	0.3931	
115 1,2,4-Trichlorobenzene	180	20.415	20.418	-0.003	93	94904	0.4001	0.3243	
116 Naphthalene	128	20.544	20.545	-0.001	99	208260	0.4001	0.3397	
117 Benzo(b)thiophene	134	20.641	20.645	-0.004	99	123697	0.4001	0.3469	
118 Hexachlorobutadiene	225	20.776	20.776	0.000	93	98425	0.4001	0.3411	
119 1,2,3-Trichlorobenzene	180	20.819	20.825	-0.006	94	91350	0.4001	0.3308	
120 2-Methylnaphthalene	142	21.623	21.623	0.000	99	105461	1.21	0.8284	
121 1-Methylnaphthalene	142	21.801	21.801	0.000	100	100155	1.21	0.7901	
A 122 C6 Range	1	7.343	(7.303-7.383)		0	265311	0.4001	0.3940	
A 124 Toluene Range	1	13.011	(12.976-13.046)		0	317115	0.4001	0.3874	
S 126 Xylenes, Total	100				0		1.20	1.16	
S 127 1,2-Dichloroethene, Total	1				0		0.8002	0.7713	

Reagents:

40L4DNP_00010

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC04.D

Injection Date: 15-Mar-2017 16:45:30

Instrument ID: MG

Operator ID: 7126

Lims ID: IC L4

Worklist Smp#: 6

Client ID:

Purge Vol: 500.000 mL

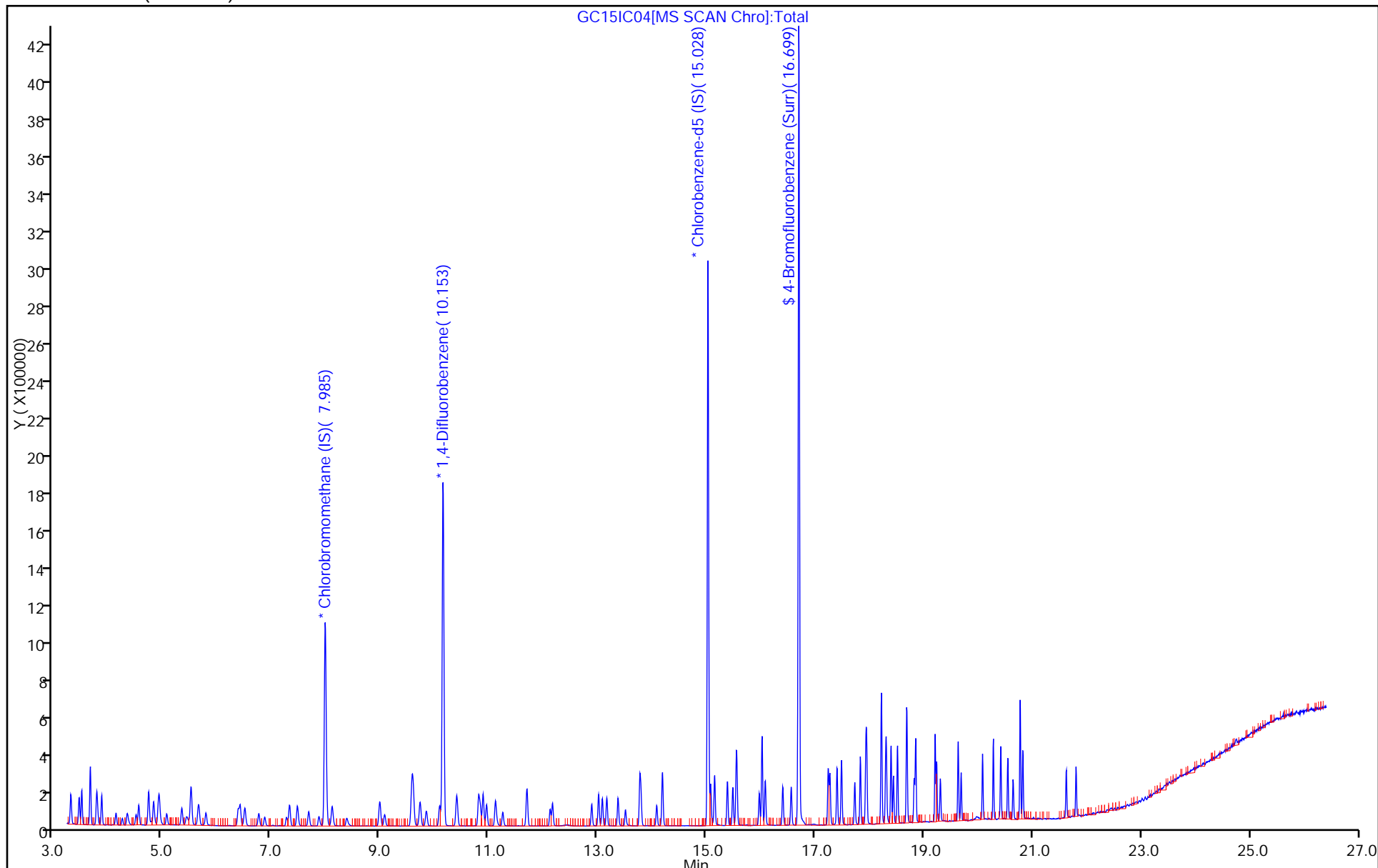
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC04.D

Injection Date: 15-Mar-2017 16:45:30

Instrument ID: MG

Lims ID: IC L4

Client ID:

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

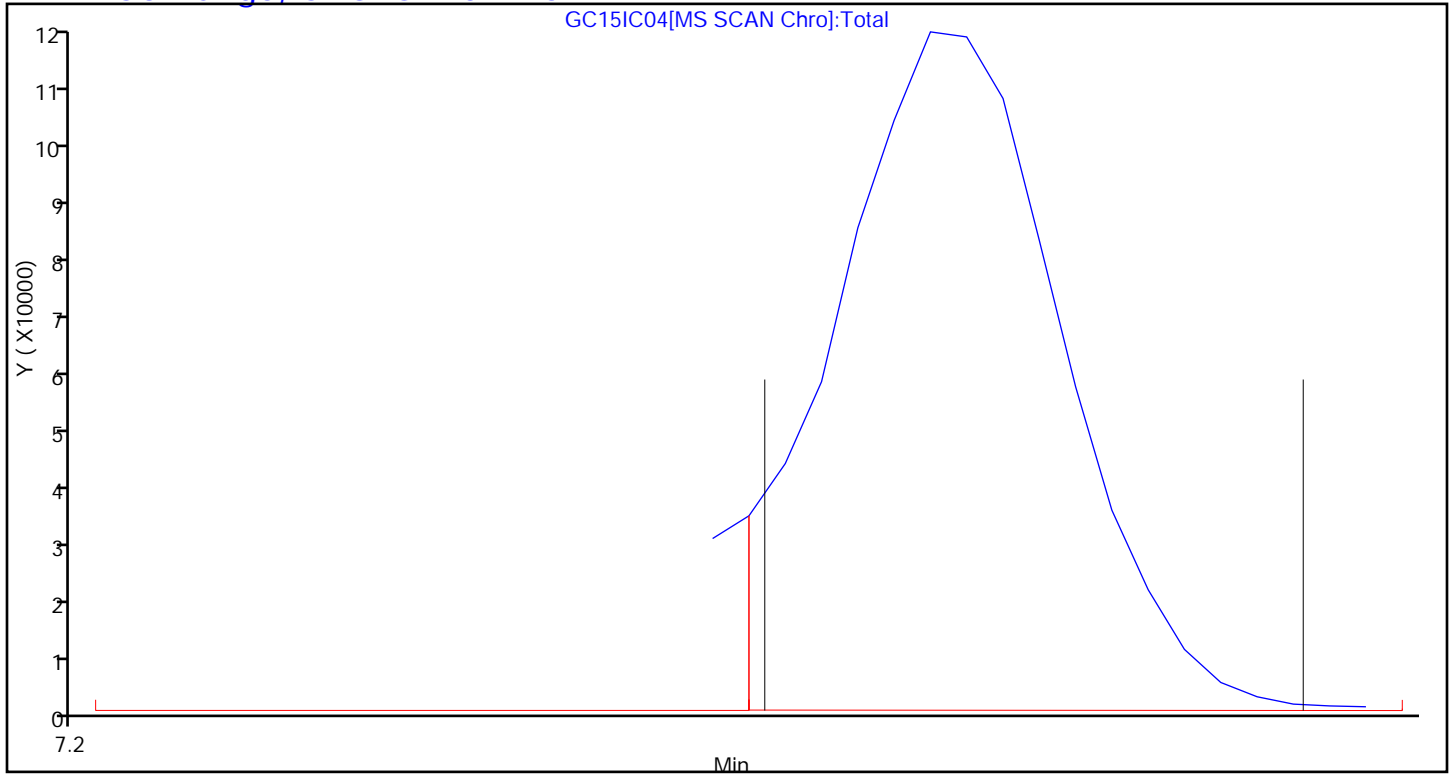
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC04.D

Injection Date: 15-Mar-2017 16:45:30

Instrument ID: MG

Lims ID: IC L4

Client ID:

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

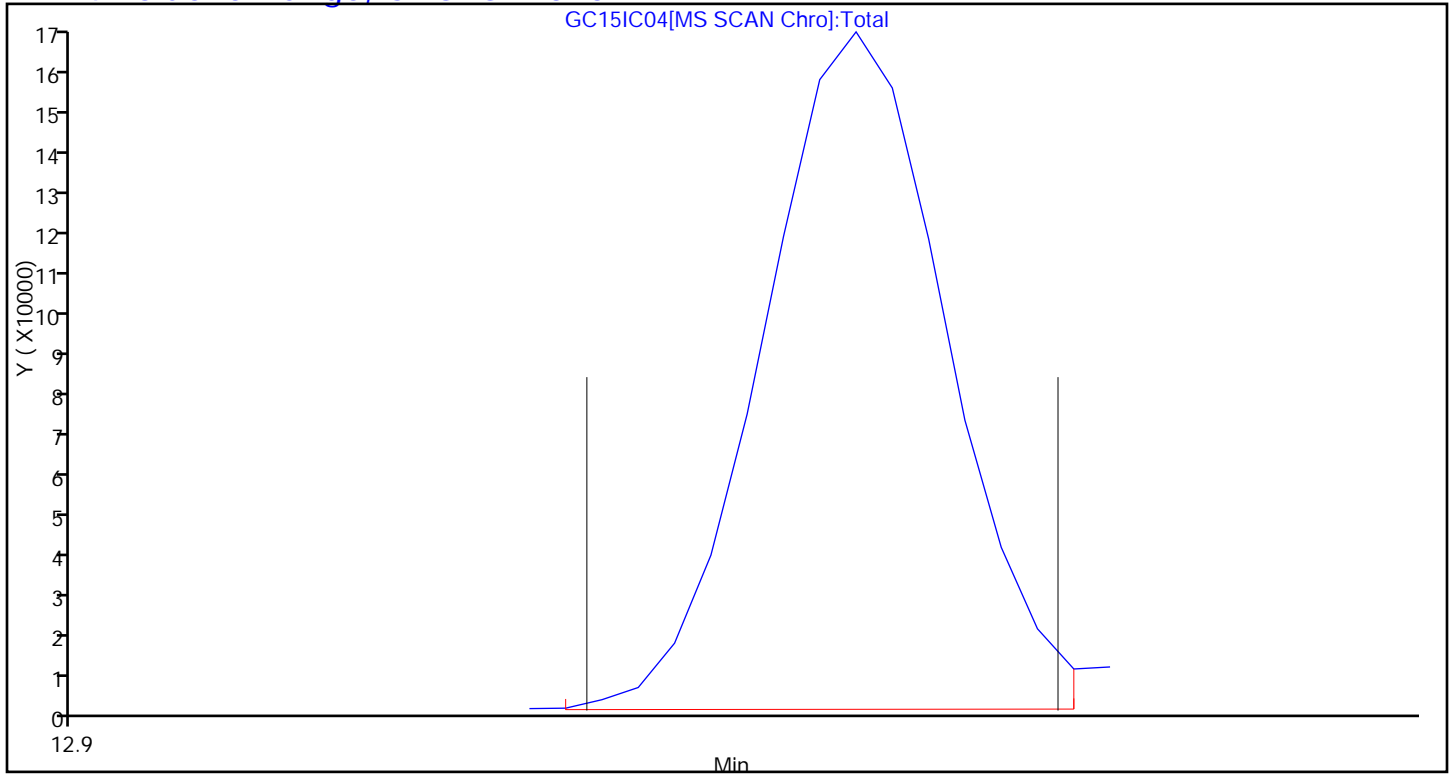
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC05.D
 Lims ID: IC L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 15-Mar-2017 17:29:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004323-007
 Misc. Info.: 083680
 Operator ID: 7126 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Mar-2017 14:12:36 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: barlozhetskayaa

Date: 16-Mar-2017 09:26:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.985	7.993	-0.008	82	336824	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.158	10.161	-0.003	95	1711373	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.028	15.034	-0.006	88	1669250	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.705	16.705	0.000	95	1347272	4.00	4.08	
6 Chlorodifluoromethane	67	3.456	3.457	-0.001	97	38106	1.00	1.02	
7 Propene	41	3.466	3.466	0.000	97	93889	1.00	1.05	
8 Dichlorodifluoromethane	85	3.510	3.510	0.000	100	367220	1.00	1.03	
9 Chloromethane	52	3.661	3.659	0.002	97	25770	1.00	1.07	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.666	3.669	-0.003	92	208904	1.00	0.9845	
11 Acetaldehyde	44	3.779	3.786	-0.007	88	165163	5.01	5.86	
12 Vinyl chloride	62	3.801	3.803	-0.002	99	100829	1.00	1.02	
13 Butadiene	54	3.871	3.876	-0.005	70	68804	1.00	1.05	
14 Butane	43	3.876	3.879	-0.003	85	142250	1.00	1.02	
15 Bromomethane	94	4.135	4.141	-0.006	98	99093	1.00	1.02	
16 Chloroethane	64	4.254	4.258	-0.004	93	49038	1.00	1.03	
17 Ethanol	31	4.340	4.357	-0.017	97	174754	5.01	5.16	
18 Vinyl bromide	106	4.507	4.511	-0.004	97	92859	1.00	1.01	
19 2-Methylbutane	43	4.556	4.560	-0.004	89	95489	1.00	1.01	
21 Acrolein	56	4.734	4.742	-0.008	28	12471	1.00	0.9040	
20 Trichlorofluoromethane	101	4.739	4.743	-0.004	99	358635	1.00	1.01	
22 Acetonitrile	40	4.782	4.793	-0.011	96	31325	1.00	1.11	
23 Acetone	58	4.825	4.835	-0.010	99	107750	2.94	3.26	
25 Pentane	72	4.933	4.937	-0.004	98	17688	1.00	1.03	
24 Isopropyl alcohol	45	4.912	4.939	-0.027	98	343901	2.94	3.01	
26 Ethyl ether	31	5.063	5.075	-0.012	92	82779	1.00	1.06	
27 1,1-Dichloroethene	96	5.348	5.354	-0.006	97	89728	1.00	1.00	
28 Acrylonitrile	53	5.424	5.435	-0.011	95	42053	1.00	1.03	
29 2-Methyl-2-propanol	59	5.435	5.467	-0.032	95	138675	1.00	1.01	
30 1,1,2-Trichloro-1,2,2-trif	101	5.516	5.521	-0.005	93	209870	1.00	1.01	
31 Methylene Chloride	84	5.650	5.656	-0.006	89	81013	1.00	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.667	5.673	-0.006	93	87550	1.00	1.01	
33 Carbon disulfide	76	5.791	5.797	-0.006	100	229458	1.00	1.00	
34 trans-1,2-Dichloroethene	96	6.389	6.393	-0.004	97	88680	1.00	1.01	
35 2-Methylpentane	43	6.421	6.426	-0.005	93	177996	1.00	1.03	
36 Methyl tert-butyl ether	73	6.502	6.513	-0.011	95	273536	1.00	1.05	
37 1,1-Dichloroethane	63	6.767	6.771	-0.004	100	173008	1.00	1.01	
38 Vinyl acetate	43	6.869	6.881	-0.012	99	207726	1.00	1.06	
39 2-Butanone (MEK)	72	7.268	7.283	-0.015	99	39027	1.00	1.02	
40 Hexane	56	7.333	7.336	-0.003	85	67446	1.00	1.01	
41 Isopropyl ether	45	7.468	7.483	-0.015	94	262185	1.00	1.07	
42 cis-1,2-Dichloroethene	96	7.683	7.691	-0.008	96	92674	1.00	0.99	
43 Ethyl acetate	43	7.867	7.880	-0.013	98	171642	1.00	1.06	
44 Chloroform	83	8.012	8.019	-0.007	96	243090	1.00	1.03	
45 Tert-butyl ethyl ether	59	8.109	8.122	-0.013	95	259723	1.00	1.06	
46 Tetrahydrofuran	42	8.374	8.387	-0.013	89	89552	1.00	1.04	
47 1,1,1-Trichloroethane	97	8.988	8.997	-0.009	94	276845	1.00	1.01	
48 1,2-Dichloroethane	62	9.080	9.087	-0.007	99	172041	1.00	1.00	
49 Benzene	78	9.576	9.582	-0.006	96	279122	1.00	0.9601	
50 Cyclohexane	69	9.581	9.590	-0.009	92	48328	1.00	0.9876	
52 n-Butanol	31	9.587	9.606	-0.019	66	29171	1.00	0.9374	
51 Carbon tetrachloride	117	9.608	9.611	-0.003	97	296576	1.00	0.9761	
53 2,3-Dimethylpentane	71	9.732	9.740	-0.008	90	67650	1.00	1.01	
54 Thiophene	84	9.851	9.855	-0.004	95	161878	1.00	1.00	
55 Tert-amyl methyl ether	73	10.088	10.100	-0.012	98	277565	1.00	1.04	
56 Isooctane	57	10.406	10.414	-0.008	97	433667	1.00	1.00	
57 n-Heptane	71	10.811	10.816	-0.005	91	106290	1.00	0.9861	
58 1,2-Dichloropropane	63	10.843	10.846	-0.003	83	97796	1.00	0.99	
59 Trichloroethene	130	10.892	10.897	-0.005	95	150217	1.00	0.9539	
60 Dibromomethane	93	10.956	10.961	-0.005	95	127996	1.00	0.9753	
61 Dichlorobromomethane	83	11.124	11.126	-0.002	98	253630	1.00	1.01	
62 1,4-Dioxane	88	11.134	11.152	-0.018	94	39782	1.00	1.01	
63 Methyl methacrylate	41	11.248	11.260	-0.012	93	108599	1.00	1.00	
64 Methylcyclohexane	83	11.701	11.704	-0.003	95	227011	1.00	1.00	
65 4-Methyl-2-pentanone (MIBK)	43	12.121	12.133	-0.012	97	170118	1.00	1.02	
66 cis-1,3-Dichloropropene	75	12.170	12.174	-0.004	96	184126	1.00	1.01	
67 trans-1,3-Dichloropropene	75	12.892	12.897	-0.005	97	178625	1.00	1.00	
68 Toluene	91	13.016	13.021	-0.005	94	329471	1.00	0.99	
69 1,1,2-Trichloroethane	83	13.086	13.091	-0.005	98	98117	1.00	0.9842	
70 2-Methylthiophene	97	13.167	13.173	-0.006	98	280205	1.00	1.00	
71 3-Methylthiophene	97	13.378	13.381	-0.003	99	279432	1.00	1.01	
72 2-Hexanone	58	13.507	13.519	-0.012	93	78752	1.00	0.9894	
73 n-Octane	85	13.777	13.780	-0.003	89	121262	1.00	1.01	
74 Chlorodibromomethane	129	13.798	13.803	-0.005	97	249183	1.00	1.00	
75 Ethylene Dibromide	107	14.089	14.092	-0.003	97	197523	1.00	1.01	
76 Tetrachloroethene	129	14.192	14.195	-0.003	95	148601	1.00	0.9769	
77 Chlorobenzene	112	15.076	15.082	-0.006	92	274196	1.00	0.9743	
78 2,3-Dimethylheptane	43	15.152	15.155	-0.003	91	291234	1.00	1.02	
79 Ethylbenzene	91	15.389	15.393	-0.004	99	465478	1.00	1.00	
80 2-Ethylthiophene	97	15.486	15.491	-0.005	98	370649	1.00	1.01	
81 m-Xylene & p-Xylene	91	15.556	15.559	-0.003	100	752459	2.00	2.01	
82 Bromoform	173	15.977	15.979	-0.002	95	241462	1.00	0.9699	
83 Styrene	104	16.020	16.027	-0.007	97	258497	1.00	1.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 n-Nonane	57	16.025	16.029	-0.004	89	214597	1.00	1.05	
85 o-Xylene	91	16.085	16.088	-0.003	98	382052	1.00	1.00	
86 1,1,2,2-Tetrachloroethane	83	16.408	16.411	-0.003	98	256086	1.00	1.06	
87 1,2,3-Trichloropropane	110	16.559	16.565	-0.006	96	89439	1.00	1.01	
88 Isopropylbenzene	105	16.689	16.692	-0.003	98	556209	1.00	1.00	
89 N-Propylbenzene	120	17.244	17.246	-0.002	99	146598	1.00	1.00	
90 2-Chlorotoluene	126	17.271	17.278	-0.007	96	135063	1.00	0.99	
91 4-Ethyltoluene	105	17.406	17.409	-0.003	98	533550	1.00	1.02	
92 1,3,5-Trimethylbenzene	120	17.487	17.490	-0.003	92	251859	1.00	1.02	
93 Alpha Methyl Styrene	118	17.729	17.734	-0.005	87	199600	1.00	1.04	
94 n-Decane	57	17.832	17.837	-0.005	93	269524	1.00	1.08	
95 tert-Butylbenzene	119	17.934	17.939	-0.005	90	522916	1.00	1.01	
96 1,2,4-Trimethylbenzene	105	17.950	17.953	-0.003	96	479730	1.00	1.02	
98 sec-Butylbenzene	105	18.220	18.223	-0.003	97	678287	1.00	1.02	
97 1,3-Dichlorobenzene	146	18.220	18.223	-0.003	97	340580	1.00	0.9581	
99 Benzyl chloride	91	18.301	18.303	-0.002	98	452529	1.00	1.02	
100 1,4-Dichlorobenzene	146	18.312	18.316	-0.004	95	337505	1.00	0.9714	
101 4-Isopropyltoluene	119	18.398	18.400	-0.002	97	607035	1.00	1.04	
102 1,2,3-Trimethylbenzene	105	18.441	18.445	-0.004	98	366844	1.00	1.04	
103 Butylcyclohexane	83	18.517	18.520	-0.003	95	365451	1.00	1.05	
104 1,2-Dichlorobenzene	146	18.684	18.689	-0.005	95	328983	1.00	0.9712	
105 2,3-Dihydroindene	117	18.689	18.693	-0.004	93	433789	1.00	1.01	
106 Indene	116	18.824	18.827	-0.003	91	318543	1.00	1.02	
107 n-Butylbenzene	91	18.851	18.854	-0.003	98	573821	1.00	1.05	
108 Undecane	57	19.207	19.209	-0.002	93	330016	1.00	1.13	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.239	19.239	0.000	97	457261	1.00	1.05	
110 1,2-Dibromo-3-Chloropropan	157	19.304	19.308	-0.004	94	149226	1.00	1.03	
111 1,2,4,5-Tetramethylbenzene	119	19.633	19.634	-0.001	96	562520	1.00	1.07	
112 1,2,3,5-Tetramethylbenzene	119	19.687	19.689	-0.002	94	340236	1.00	1.08	
113 1,2,3,4-Tetramethylbenzene	119	20.080	20.083	-0.003	96	471400	1.00	1.09	
114 Dodecane	57	20.280	20.280	0.000	93	328197	1.00	1.26	
115 1,2,4-Trichlorobenzene	180	20.415	20.418	-0.003	94	323309	1.00	1.08	
116 Naphthalene	128	20.544	20.545	-0.001	99	693914	1.00	1.11	
117 Benzo(b)thiophene	134	20.647	20.645	0.002	99	408835	1.00	1.13	
118 Hexachlorobutadiene	225	20.776	20.776	0.000	94	327761	1.00	1.11	
119 1,2,3-Trichlorobenzene	180	20.824	20.825	-0.001	94	318023	1.00	1.13	
120 2-Methylnaphthalene	142	21.623	21.623	0.000	100	379553	3.03	2.93	
121 1-Methylnaphthalene	142	21.801	21.801	-0.001	99	379039	3.03	2.94	
A 122 C6 Range	1	7.343	(7.303-7.383)		0	680124	1.00	1.01	
A 124 Toluene Range	1	13.011	(12.976-13.046)		0	825588	1.00	1.01	
S 126 Xylenes, Total	100				0		3.01	3.00	
S 127 1,2-Dichloroethene, Total	1				0		2.00	2.00	

Reagents:

40L5DNP_00010

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC05.D

Injection Date: 15-Mar-2017 17:29:30

Instrument ID: MG

Operator ID: 7126

Lims ID: IC L5

Worklist Smp#: 7

Client ID:

Purge Vol: 500.000 mL

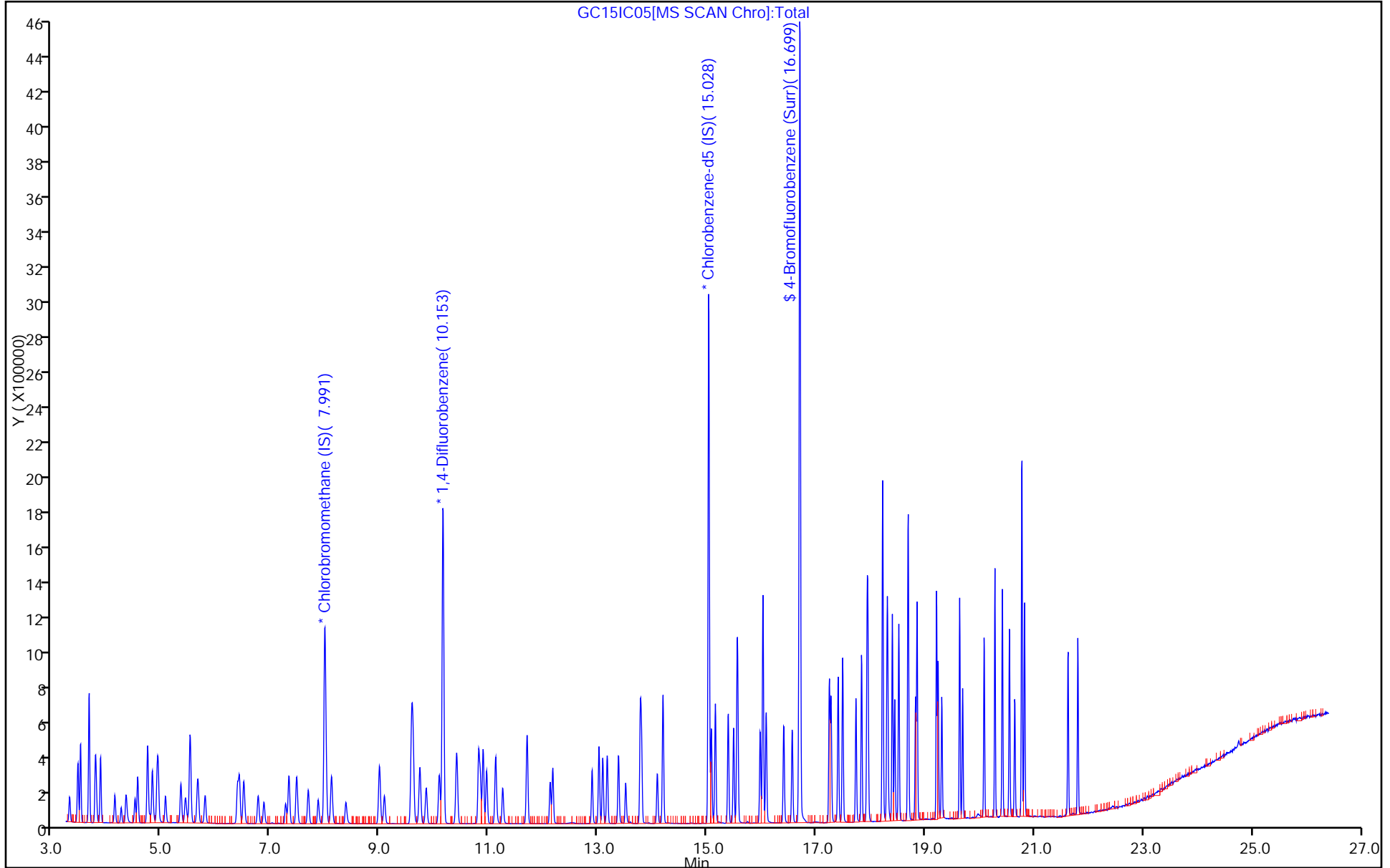
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC05.D

Injection Date: 15-Mar-2017 17:29:30

Instrument ID: MG

Lims ID: IC L5

Client ID:

Operator ID: 7126

ALS Bottle#: 4

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

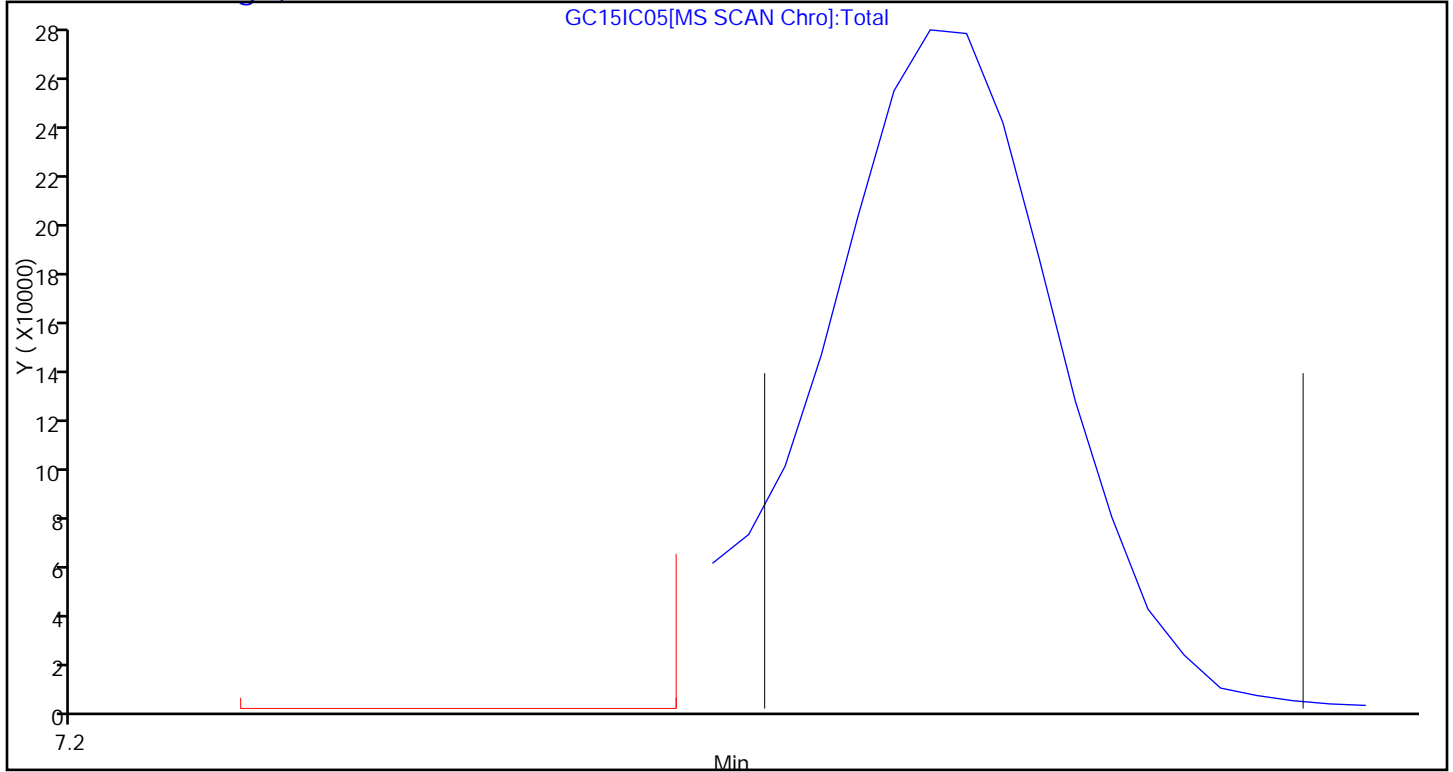
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC05.D

Injection Date: 15-Mar-2017 17:29:30

Instrument ID: MG

Lims ID: IC L5

Client ID:

Operator ID: 7126

ALS Bottle#: 4

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

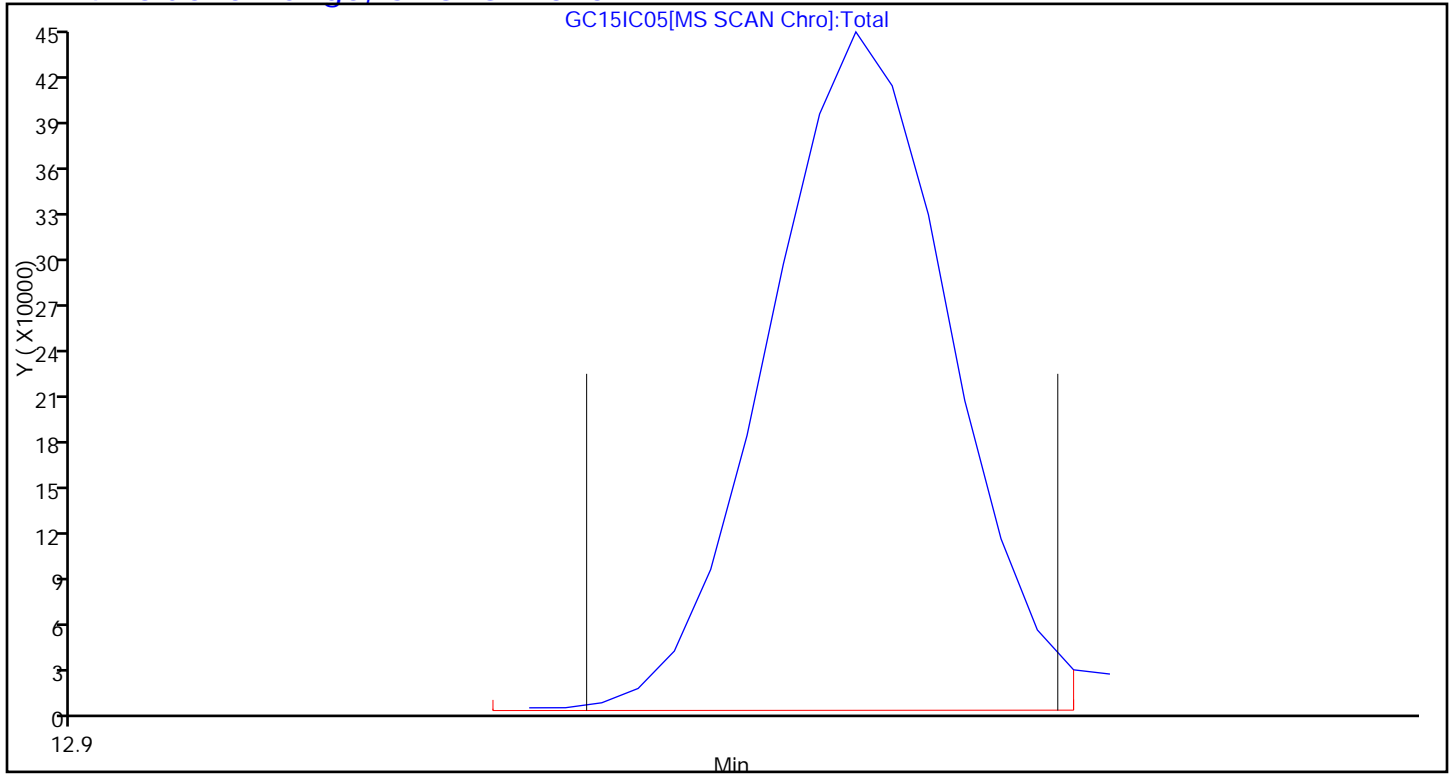
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC06.D
 Lims ID: ICIS L6
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 15-Mar-2017 18:13:30 ALS Bottle#: 5 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004323-008
 Misc. Info.: 083679
 Operator ID: 7126 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Mar-2017 14:38:36 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: barlozhetskayaa

Date: 16-Mar-2017 14:38:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.991	7.993	-0.002	82	356237	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.158	10.161	-0.003	95	1693700	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.033	15.034	-0.001	88	1673092	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.705	16.705	0.000	96	1311298	4.00	3.97	
6 Chlorodifluoromethane	67	3.456	3.457	-0.001	96	79923	2.00	2.02	
7 Propene	41	3.466	3.466	0.000	97	186431	2.00	1.98	
8 Dichlorodifluoromethane	85	3.510	3.510	0.000	100	749517	2.00	1.99	
9 Chloromethane	52	3.655	3.659	-0.004	97	51943	2.00	2.05	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.666	3.669	-0.003	91	436402	2.00	1.94	
11 Acetaldehyde	44	3.785	3.786	-0.001	89	313096	9.99	10.5	
12 Vinyl chloride	62	3.801	3.803	-0.002	99	210834	2.00	2.02	
13 Butadiene	54	3.876	3.876	0.000	85	143038	2.00	2.06	
14 Butane	43	3.876	3.879	-0.003	94	293638	2.00	1.99	
15 Bromomethane	94	4.141	4.141	-0.001	98	204127	2.00	1.98	
16 Chloroethane	64	4.254	4.258	-0.004	91	98257	2.00	1.95	
17 Ethanol	31	4.345	4.357	-0.012	97	345378	9.99	9.64	
18 Vinyl bromide	106	4.507	4.511	-0.004	97	194576	2.00	1.99	
19 2-Methylbutane	43	4.556	4.560	-0.004	89	196053	2.00	1.97	
21 Acrolein	56	4.739	4.742	-0.003	28	30056	2.00	2.06	
20 Trichlorofluoromethane	101	4.739	4.743	-0.004	99	743344	2.00	1.98	
22 Acetonitrile	40	4.788	4.793	-0.005	98	61466	2.00	2.06	
23 Acetone	58	4.825	4.835	-0.010	99	208378	5.87	5.96	
25 Pentane	72	4.933	4.937	-0.004	98	37027	2.00	2.04	
24 Isopropyl alcohol	45	4.922	4.939	-0.017	98	695832	5.87	5.75	
26 Ethyl ether	31	5.068	5.075	-0.007	92	162376	2.00	1.97	
27 1,1-Dichloroethene	96	5.354	5.354	0.000	98	187192	2.00	1.97	
28 Acrylonitrile	53	5.429	5.435	-0.006	95	84597	2.00	1.95	
29 2-Methyl-2-propanol	59	5.445	5.467	-0.022	95	283850	2.00	1.96	
30 1,1,2-Trichloro-1,2,2-trif	101	5.521	5.521	0.000	94	432242	2.00	1.97	
31 Methylene Chloride	84	5.656	5.656	0.000	89	158311	2.00	1.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.672	5.673	-0.001	93	177955	2.00	1.93	
33 Carbon disulfide	76	5.796	5.797	-0.001	100	478845	2.00	1.98	
34 trans-1,2-Dichloroethene	96	6.389	6.393	-0.004	97	182249	2.00	1.96	
35 2-Methylpentane	43	6.421	6.426	-0.005	92	357751	2.00	1.96	
36 Methyl tert-butyl ether	73	6.502	6.513	-0.011	95	546952	2.00	1.98	
37 1,1-Dichloroethane	63	6.772	6.771	0.001	100	354630	2.00	1.96	
38 Vinyl acetate	43	6.874	6.881	-0.007	99	426758	2.00	2.05	
39 2-Butanone (MEK)	72	7.273	7.283	-0.010	99	79660	2.00	1.97	
40 Hexane	56	7.333	7.336	-0.003	85	138819	2.00	1.97	
41 Isopropyl ether	45	7.473	7.483	-0.010	94	526080	2.00	2.03	
42 cis-1,2-Dichloroethene	96	7.689	7.691	-0.002	95	196676	2.00	1.99	
43 Ethyl acetate	43	7.872	7.880	-0.008	98	346406	2.00	2.02	
44 Chloroform	83	8.018	8.019	-0.001	96	494799	2.00	1.98	
45 Tert-butyl ethyl ether	59	8.115	8.122	-0.007	95	525778	2.00	2.02	
46 Tetrahydrofuran	42	8.374	8.387	-0.013	88	177245	2.00	1.95	
47 1,1,1-Trichloroethane	97	8.994	8.997	-0.003	94	568413	2.00	1.97	
48 1,2-Dichloroethane	62	9.085	9.087	-0.002	99	350677	2.00	2.05	
49 Benzene	78	9.581	9.582	-0.001	96	572098	2.00	1.99	
50 Cyclohexane	69	9.587	9.590	-0.003	93	99763	2.00	2.06	
52 n-Butanol	31	9.576	9.606	-0.030	70	63344	2.00	2.06	
51 Carbon tetrachloride	117	9.608	9.611	-0.003	97	624502	2.00	2.08	
53 2,3-Dimethylpentane	71	9.738	9.740	-0.002	89	136123	2.00	2.06	
54 Thiophene	84	9.851	9.855	-0.004	95	332092	2.00	2.07	
55 Tert-amyl methyl ether	73	10.088	10.100	-0.012	98	556050	2.00	2.11	
56 Isooctane	57	10.412	10.414	-0.002	97	874389	2.00	2.05	
57 n-Heptane	71	10.811	10.816	-0.005	91	220272	2.00	2.06	
58 1,2-Dichloropropane	63	10.843	10.846	-0.003	84	201269	2.00	2.06	
59 Trichloroethene	130	10.897	10.897	0.000	95	315722	2.00	2.03	
60 Dibromomethane	93	10.956	10.961	-0.005	94	267885	2.00	2.06	
61 Dichlorobromomethane	83	11.124	11.126	-0.002	98	529608	2.00	2.12	
62 1,4-Dioxane	88	11.134	11.152	-0.018	90	83850	2.00	2.15	
63 Methyl methacrylate	41	11.253	11.260	-0.007	93	229984	2.00	2.13	
64 Methylcyclohexane	83	11.701	11.704	-0.003	95	465979	2.00	2.08	
65 4-Methyl-2-pentanone (MIBK)	43	12.121	12.133	-0.012	97	348265	2.00	2.11	
66 cis-1,3-Dichloropropene	75	12.170	12.174	-0.004	95	379694	2.00	2.10	
67 trans-1,3-Dichloropropene	75	12.892	12.897	-0.005	97	373664	2.00	2.09	
68 Toluene	91	13.016	13.021	-0.005	93	676247	2.00	2.03	
69 1,1,2-Trichloroethane	83	13.092	13.091	0.001	98	206257	2.00	2.06	
70 2-Methylthiophene	97	13.173	13.173	0.000	97	580302	2.00	2.07	
71 3-Methylthiophene	97	13.378	13.381	-0.003	99	571930	2.00	2.06	
72 2-Hexanone	58	13.507	13.519	-0.012	94	174060	2.00	2.18	
73 n-Octane	85	13.777	13.780	-0.003	88	249240	2.00	2.07	
74 Chlorodibromomethane	129	13.798	13.803	-0.005	97	534023	2.00	2.14	
75 Ethylene Dibromide	107	14.089	14.092	-0.003	98	416730	2.00	2.13	
76 Tetrachloroethene	129	14.192	14.195	-0.003	95	310406	2.00	2.04	
77 Chlorobenzene	112	15.082	15.082	0.000	93	575122	2.00	2.04	
78 2,3-Dimethylheptane	43	15.152	15.155	-0.003	90	577752	2.00	2.02	
79 Ethylbenzene	91	15.389	15.393	-0.004	99	954045	2.00	2.05	
80 2-Ethylthiophene	97	15.486	15.491	-0.005	98	772778	2.00	2.11	
81 m-Xylene & p-Xylene	91	15.556	15.559	-0.003	99	1555433	4.00	4.14	
82 Bromoform	173	15.977	15.979	-0.002	96	503085	2.00	2.15	
83 Styrene	104	16.025	16.027	-0.002	97	554081	2.00	2.23	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 n-Nonane	57	16.025	16.029	-0.004	89	424281	2.00	2.08	
85 o-Xylene	91	16.085	16.088	-0.003	98	789853	2.00	2.05	
86 1,1,2,2-Tetrachloroethane	83	16.408	16.411	-0.003	98	522069	2.00	2.15	
87 1,2,3-Trichloropropane	110	16.565	16.565	0.000	96	184265	2.00	2.08	
88 Isopropylbenzene	105	16.689	16.692	-0.003	97	1134088	2.00	2.03	
89 N-Propylbenzene	120	17.244	17.246	-0.002	99	308856	2.00	2.11	
90 2-Chlorotoluene	126	17.276	17.278	-0.002	97	279105	2.00	2.04	
91 4-Ethyltoluene	105	17.406	17.409	-0.003	98	1105029	2.00	2.10	
92 1,3,5-Trimethylbenzene	120	17.487	17.490	-0.003	92	521704	2.00	2.12	
93 Alpha Methyl Styrene	118	17.735	17.734	0.001	87	435119	2.00	2.19	
94 n-Decane	57	17.837	17.837	0.000	93	533364	2.00	2.13	
95 tert-Butylbenzene	119	17.940	17.939	0.001	92	1088441	2.00	2.10	
96 1,2,4-Trimethylbenzene	105	17.950	17.953	-0.003	96	993298	2.00	2.10	
97 1,3-Dichlorobenzene	146	18.220	18.223	-0.003	97	730798	2.00	2.05	
98 sec-Butylbenzene	105	18.225	18.225	0.000	98	1415485	2.00	2.13	
99 Benzyl chloride	91	18.301	18.303	-0.002	98	961111	2.00	2.16	
100 1,4-Dichlorobenzene	146	18.312	18.316	-0.004	94	714901	2.00	2.05	
101 4-Isopropyltoluene	119	18.398	18.402	-0.004	97	1259395	2.00	2.14	
102 1,2,3-Trimethylbenzene	105	18.441	18.445	-0.004	98	749546	2.00	2.13	
103 Butylcyclohexane	83	18.517	18.520	-0.003	95	729918	2.00	2.10	
104 1,2-Dichlorobenzene	146	18.689	18.689	0.000	94	701112	2.00	2.07	
105 2,3-Dihydroindene	117	18.689	18.693	-0.004	93	908631	2.00	2.11	
106 Indene	116	18.824	18.827	-0.003	91	670154	2.00	2.13	
107 n-Butylbenzene	91	18.851	18.854	-0.003	98	1164905	2.00	2.12	
108 Undecane	57	19.207	19.209	-0.002	92	622503	2.00	2.12	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.239	19.239	0.000	97	931315	2.00	2.12	
110 1,2-Dibromo-3-Chloropropan	157	19.309	19.308	0.001	99	302962	2.00	2.08	
111 1,2,4,5-Tetramethylbenzene	119	19.633	19.635	-0.002	96	1160795	2.00	2.20	
112 1,2,3,5-Tetramethylbenzene	119	19.687	19.689	-0.002	94	687501	2.00	2.17	
113 1,2,3,4-Tetramethylbenzene	119	20.080	20.083	-0.003	96	955751	2.00	2.21	
114 Dodecane	57	20.280	20.280	0.000	93	556303	2.00	2.13	
115 1,2,4-Trichlorobenzene	180	20.420	20.418	0.002	94	668939	2.00	2.24	
116 Naphthalene	128	20.544	20.546	-0.002	99	1395111	2.00	2.23	
117 Benzo(b)thiophene	134	20.647	20.645	0.002	99	820908	2.00	2.25	
118 Hexachlorobutadiene	225	20.776	20.776	0.000	95	640650	2.00	2.17	
119 1,2,3-Trichlorobenzene	180	20.825	20.825	-0.001	95	640410	2.00	2.27	
120 2-Methylnaphthalene	142	21.623	21.623	0.000	99	852913	6.04	6.56	
121 1-Methylnaphthalene	142	21.801	21.801	0.000	100	834902	6.04	6.45	
A 122 C6 Range	1	7.343	(7.303-7.383)		0	1313930	2.00	2.03	
A 124 Toluene Range	1	13.011	(12.976-13.046)		0	1704710	2.00	2.10	
S 126 Xylenes, Total	100				0		5.99	6.19	
S 127 1,2-Dichloroethene, Total	1				0		4.00	3.96	

Reagents:

40L6DNP_00011

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC06.D

Injection Date: 15-Mar-2017 18:13:30

Instrument ID: MG

Operator ID: 7126

Lims ID: ICIS L6

Worklist Smp#: 8

Client ID:

Purge Vol: 500.000 mL

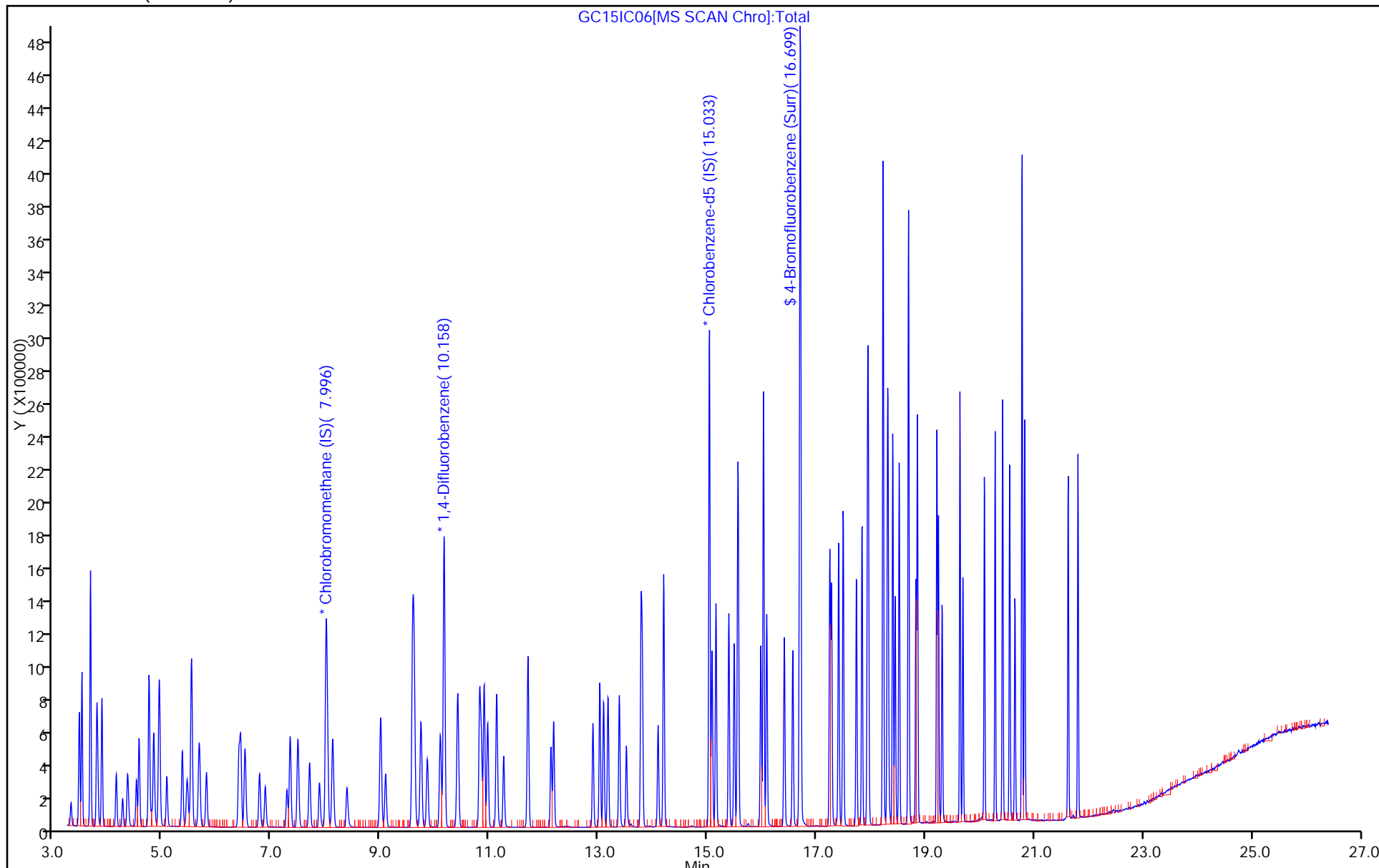
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC06.D

Injection Date: 15-Mar-2017 18:13:30

Instrument ID: MG

Lims ID: ICIS L6

Client ID:

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

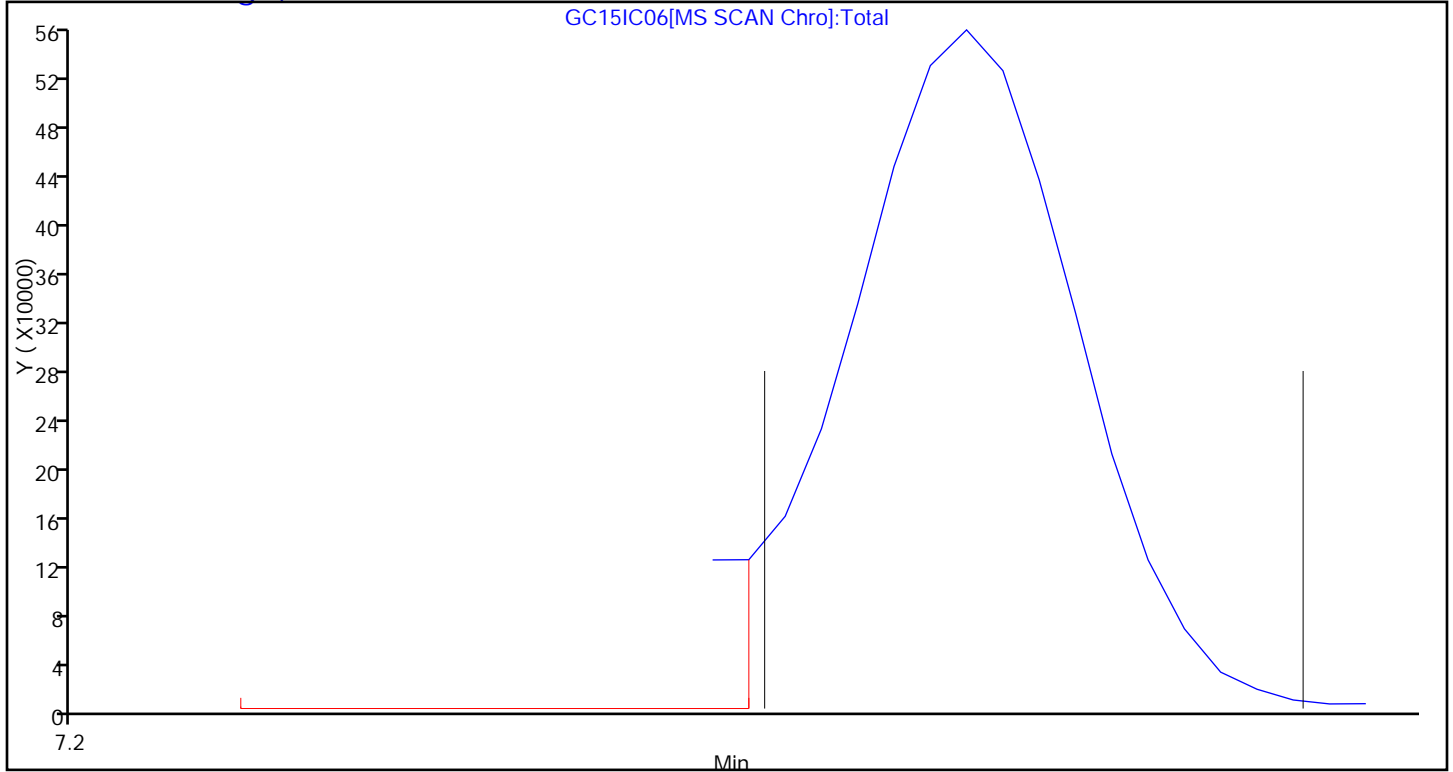
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC06.D

Injection Date: 15-Mar-2017 18:13:30

Instrument ID: MG

Lims ID: ICIS L6

Client ID:

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

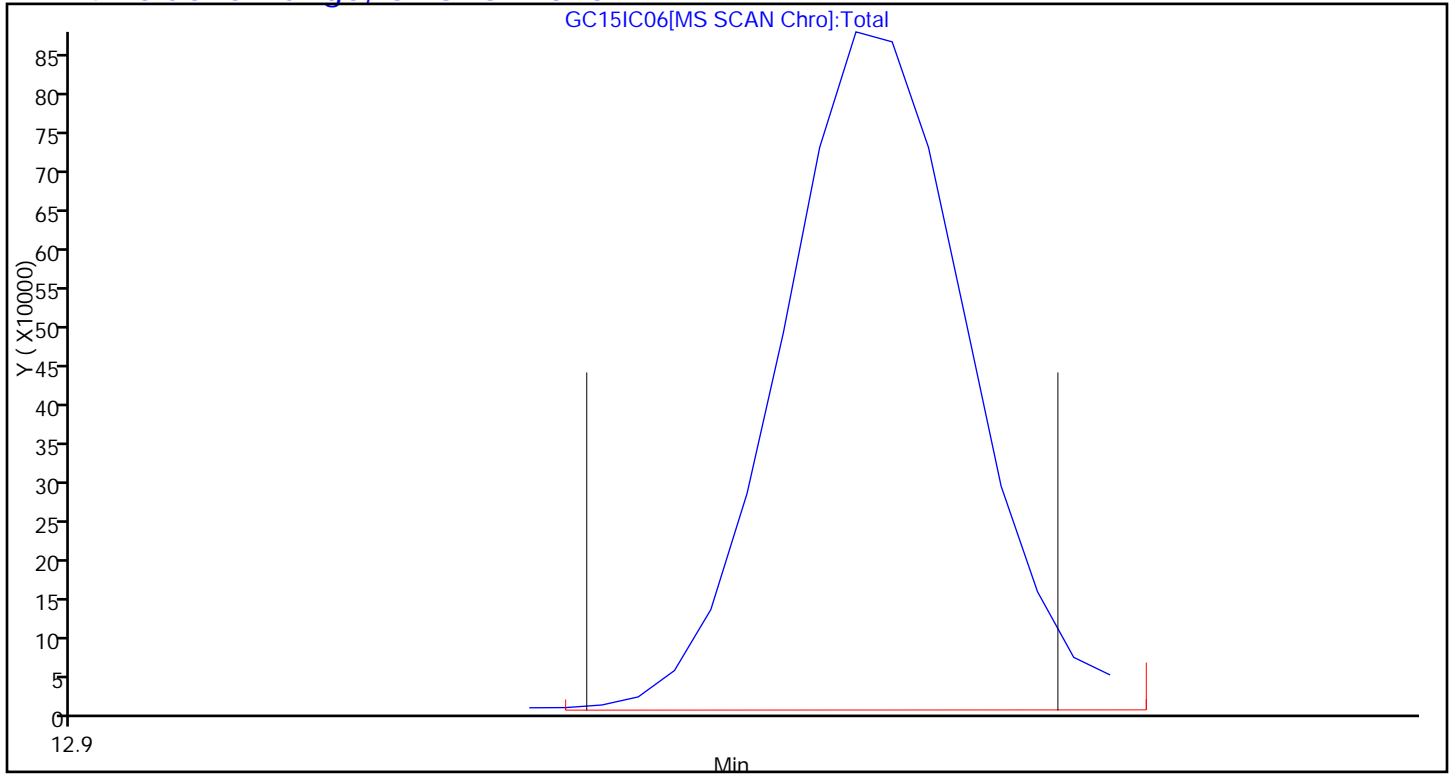
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC07.D
 Lims ID: IC L7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 15-Mar-2017 18:56:30 ALS Bottle#: 6 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004323-009
 Misc. Info.: 083678
 Operator ID: 7126 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Mar-2017 14:22:47 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh

Date: 16-Mar-2017 11:56:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.996	7.993	0.003	84	379572	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.164	10.161	0.003	94	1825436	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.039	15.034	0.005	87	1827873	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.710	16.705	0.005	95	1443792	4.00	4.00	
6 Chlorodifluoromethane	67	3.456	3.457	-0.001	96	161083	4.00	3.82	
7 Propene	41	3.466	3.466	0.000	97	366636	4.00	3.65	
8 Dichlorodifluoromethane	85	3.510	3.510	0.000	100	1518249	4.00	3.78	
9 Chloromethane	52	3.661	3.659	0.002	97	102473	4.00	3.79	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.671	3.669	0.002	91	925480	4.00	3.87	
11 Acetaldehyde	44	3.785	3.786	-0.001	89	595674	20.0	18.8	
12 Vinyl chloride	62	3.806	3.803	0.003	99	414360	4.00	3.73	
13 Butadiene	54	3.876	3.876	0.000	70	283835	4.00	3.84	
14 Butane	43	3.882	3.879	0.003	85	583059	4.00	3.71	
15 Bromomethane	94	4.141	4.141	0.000	98	425627	4.00	3.88	
16 Chloroethane	64	4.259	4.258	0.001	92	204064	4.00	3.80	
17 Ethanol	31	4.356	4.357	-0.001	98	707984	20.0	18.5	
18 Vinyl bromide	106	4.513	4.511	0.002	96	403357	4.00	3.88	
19 2-Methylbutane	43	4.561	4.560	0.001	89	399830	4.00	3.76	
21 Acrolein	56	4.739	4.742	-0.003	96	69764	4.00	4.49	
20 Trichlorofluoromethane	101	4.744	4.743	0.001	99	1532462	4.00	3.83	
22 Acetonitrile	40	4.793	4.793	0.000	98	123503	4.00	3.88	
23 Acetone	58	4.831	4.835	-0.004	99	417742	11.7	11.2	
25 Pentane	72	4.939	4.937	0.002	95	74522	4.00	3.85	
24 Isopropyl alcohol	45	4.939	4.939	0.000	93	1433726	11.7	11.1	
26 Ethyl ether	31	5.068	5.075	-0.007	92	331731	4.00	3.78	
27 1,1-Dichloroethene	96	5.354	5.354	0.000	98	387339	4.00	3.83	
28 Acrylonitrile	53	5.435	5.435	0.000	95	176062	4.00	3.82	
29 2-Methyl-2-propanol	59	5.462	5.467	-0.005	95	610004	4.00	3.96	
30 1,1,2-Trichloro-1,2,2-trif	101	5.521	5.521	0.000	94	891000	4.00	3.82	
31 Methylene Chloride	84	5.661	5.656	0.005	88	319885	4.00	3.50	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.677	5.673	0.004	93	358922	4.00	3.66	
33 Carbon disulfide	76	5.801	5.797	0.004	100	979418	4.00	3.80	
34 trans-1,2-Dichloroethene	96	6.395	6.393	0.002	98	385716	4.00	3.90	
35 2-Methylpentane	43	6.427	6.426	0.001	92	714141	4.00	3.68	
36 Methyl tert-butyl ether	73	6.508	6.513	-0.005	95	1134810	4.00	3.86	
37 1,1-Dichloroethane	63	6.777	6.771	0.006	100	724800	4.00	3.75	
38 Vinyl acetate	43	6.880	6.881	-0.001	99	894260	4.00	4.03	
39 2-Butanone (MEK)	72	7.279	7.283	-0.004	99	166968	4.00	3.87	
40 Hexane	56	7.338	7.336	0.002	85	281421	4.00	3.75	
41 Isopropyl ether	45	7.478	7.483	-0.005	93	1079183	4.00	3.91	
42 cis-1,2-Dichloroethene	96	7.694	7.691	0.003	96	407485	4.00	3.88	
43 Ethyl acetate	43	7.877	7.880	-0.003	98	713928	4.00	3.90	
44 Chloroform	83	8.023	8.019	0.004	96	1012011	4.00	3.80	
45 Tert-butyl ethyl ether	59	8.120	8.122	-0.002	94	1073194	4.00	3.87	
46 Tetrahydrofuran	42	8.379	8.387	-0.008	89	365105	4.00	3.77	
47 1,1,1-Trichloroethane	97	8.999	8.997	0.002	94	1184348	4.00	3.85	
48 1,2-Dichloroethane	62	9.091	9.087	0.004	99	713806	4.00	3.87	
49 Benzene	78	9.581	9.582	-0.001	96	1173319	4.00	3.78	
50 Cyclohexane	69	9.592	9.590	0.002	93	203651	4.00	3.90	
52 n-Butanol	31	9.587	9.606	-0.019	70	136613	4.00	4.12	
51 Carbon tetrachloride	117	9.614	9.611	0.003	98	1329349	4.00	4.10	
53 2,3-Dimethylpentane	71	9.738	9.740	-0.002	89	282206	4.00	3.95	
54 Thiophene	84	9.856	9.855	0.001	95	686171	4.00	3.96	
55 Tert-amyl methyl ether	73	10.094	10.100	-0.006	98	1157370	4.00	4.07	
56 Isooctane	57	10.412	10.414	-0.002	97	1779183	4.00	3.87	
57 n-Heptane	71	10.816	10.816	0.000	90	450272	4.00	3.92	
58 1,2-Dichloropropane	63	10.849	10.846	0.003	87	408812	4.00	3.88	
59 Trichloroethene	130	10.897	10.897	0.000	95	664844	4.00	3.96	
60 Dibromomethane	93	10.962	10.961	0.001	93	556851	4.00	3.98	
61 Dichlorobromomethane	83	11.129	11.126	0.003	98	1122661	4.00	4.18	
62 1,4-Dioxane	88	11.145	11.152	-0.007	89	171415	4.00	4.08	
63 Methyl methacrylate	41	11.258	11.260	-0.002	93	487379	4.00	4.19	
64 Methylcyclohexane	83	11.706	11.704	0.002	94	959276	4.00	3.97	
65 4-Methyl-2-pentanone (MIBK)	43	12.127	12.133	-0.006	97	733481	4.00	4.12	
66 cis-1,3-Dichloropropene	75	12.175	12.174	0.001	95	790238	4.00	4.05	
67 trans-1,3-Dichloropropene	75	12.898	12.897	0.001	97	789307	4.00	4.03	
68 Toluene	91	13.022	13.021	0.001	94	1420544	4.00	3.90	
69 1,1,2-Trichloroethane	83	13.092	13.091	0.001	98	426290	4.00	3.90	
70 2-Methylthiophene	97	13.173	13.173	0.000	97	1212899	4.00	3.97	
71 3-Methylthiophene	97	13.383	13.381	0.002	99	1202168	4.00	3.97	
72 2-Hexanone	58	13.512	13.519	-0.007	94	373275	4.00	4.28	
73 n-Octane	85	13.782	13.780	0.002	87	522104	4.00	3.97	
74 Chlorodibromomethane	129	13.804	13.803	0.001	97	1217195	4.00	4.47	
75 Ethylene Dibromide	107	14.095	14.092	0.003	97	890944	4.00	4.17	
76 Tetrachloroethene	129	14.197	14.195	0.002	95	660677	4.00	3.97	
77 Chlorobenzene	112	15.082	15.082	0.000	93	1217110	4.00	3.95	
78 2,3-Dimethylheptane	43	15.157	15.155	0.002	88	1160951	4.00	3.72	
79 Ethylbenzene	91	15.394	15.393	0.001	98	2020166	4.00	3.97	
80 2-Ethylthiophene	97	15.491	15.491	0.000	98	1634721	4.00	4.08	
81 m-Xylene & p-Xylene	91	15.562	15.559	0.003	99	3265060	8.00	7.95	
82 Bromoform	173	15.982	15.979	0.003	97	1302027	4.00	4.78	
83 Styrene	104	16.031	16.027	0.004	97	1208558	4.00	4.46	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 n-Nonane	57	16.031	16.029	0.002	88	848900	4.00	3.80	
85 o-Xylene	91	16.090	16.088	0.002	98	1652204	4.00	3.93	
86 1,1,2,2-Tetrachloroethane	83	16.414	16.411	0.003	99	1097235	4.00	4.14	
87 1,2,3-Trichloropropane	110	16.570	16.565	0.005	96	385852	4.00	3.98	
88 Isopropylbenzene	105	16.694	16.692	0.002	97	2402575	4.00	3.94	
89 N-Propylbenzene	120	17.249	17.246	0.003	99	660707	4.00	4.13	
90 2-Chlorotoluene	126	17.282	17.278	0.004	96	602879	4.00	4.04	
91 4-Ethyltoluene	105	17.411	17.409	0.002	98	2357742	4.00	4.10	
92 1,3,5-Trimethylbenzene	120	17.492	17.490	0.002	92	1116920	4.00	4.15	
93 Alpha Methyl Styrene	118	17.735	17.734	0.001	88	987378	4.00	4.70	
94 n-Decane	57	17.837	17.837	0.000	94	1089510	4.00	3.98	
95 tert-Butylbenzene	119	17.940	17.939	0.001	93	2353545	4.00	4.15	
96 1,2,4-Trimethylbenzene	105	17.956	17.953	0.003	95	2134348	4.00	4.14	
98 sec-Butylbenzene	105	18.225	18.223	0.002	97	3068495	4.00	4.22	
97 1,3-Dichlorobenzene	146	18.225	18.223	0.002	98	1666142	4.00	4.28	
99 Benzyl chloride	91	18.306	18.303	0.003	98	2087808	4.00	4.29	
100 1,4-Dichlorobenzene	146	18.317	18.316	0.001	97	1576716	4.00	4.14	
101 4-Isopropyltoluene	119	18.403	18.400	0.003	97	2688329	4.00	4.19	
102 1,2,3-Trimethylbenzene	105	18.447	18.445	0.001	97	1558491	4.00	4.05	
103 Butylcyclohexane	83	18.522	18.520	0.002	96	1513686	4.00	3.98	
104 1,2-Dichlorobenzene	146	18.689	18.689	0.000	95	1579523	4.00	4.26	
105 2,3-Dihydroindene	117	18.695	18.693	0.002	94	1987507	4.00	4.23	
106 Indene	116	18.829	18.827	0.002	92	1470712	4.00	4.28	
107 n-Butylbenzene	91	18.856	18.854	0.002	97	2406878	4.00	4.01	
108 Undecane	57	19.212	19.209	0.003	91	1224656	4.00	3.81	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.239	19.239	0.000	97	1953205	4.00	4.08	
110 1,2-Dibromo-3-Chloropropan	157	19.309	19.308	0.001	99	710910	4.00	4.47	
111 1,2,4,5-Tetramethylbenzene	119	19.638	19.634	0.004	96	2396674	4.00	4.16	
112 1,2,3,5-Tetramethylbenzene	119	19.692	19.689	0.003	95	1394400	4.00	4.03	
113 1,2,3,4-Tetramethylbenzene	119	20.086	20.083	0.003	96	1927205	4.00	4.08	
114 Dodecane	57	20.280	20.280	0.000	93	1015546	4.00	3.56	
115 1,2,4-Trichlorobenzene	180	20.420	20.418	0.002	94	1358330	4.00	4.16	
116 Naphthalene	128	20.550	20.545	0.005	99	2902807	4.00	4.24	
117 Benzo(b)thiophene	134	20.647	20.645	0.002	99	1724284	4.00	4.33	
118 Hexachlorobutadiene	225	20.776	20.776	0.000	96	1288187	4.00	4.00	
119 1,2,3-Trichlorobenzene	180	20.825	20.825	0.000	95	1263910	4.00	4.10	
120 2-Methylnaphthalene	142	21.623	21.623	0.000	100	2020346	12.1	14.2	
121 1-Methylnaphthalene	142	21.801	21.801	0.000	100	2020334	12.1	14.3	
A 122 C6 Range	1	7.348	(7.308-7.388)		0	2723811	4.00	3.79	
A 124 Toluene Range	1	13.017	(12.982-13.052)		0	3522873	4.00	4.03	
S 126 Xylenes, Total	100				0		12.0	11.9	
S 127 1,2-Dichloroethene, Total	1				0		8.00	7.78	

Reagents:

40L7DNP_00010

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC07.D

Injection Date: 15-Mar-2017 18:56:30

Instrument ID: MG

Operator ID: 7126

Lims ID: IC L7

Worklist Smp#: 9

Client ID:

Purge Vol: 500.000 mL

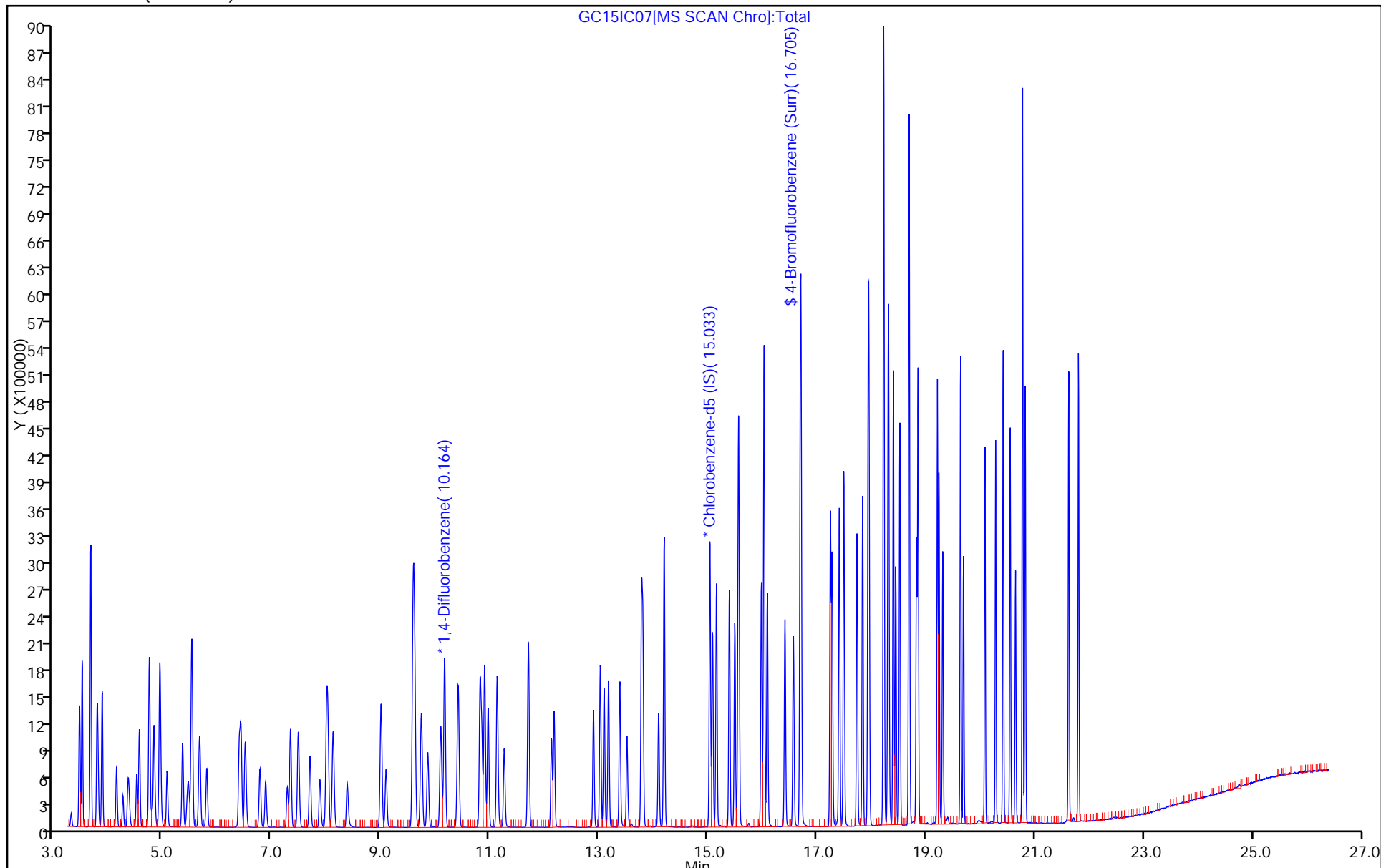
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC07.D

Injection Date: 15-Mar-2017 18:56:30

Instrument ID: MG

Lims ID: IC L7

Client ID:

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

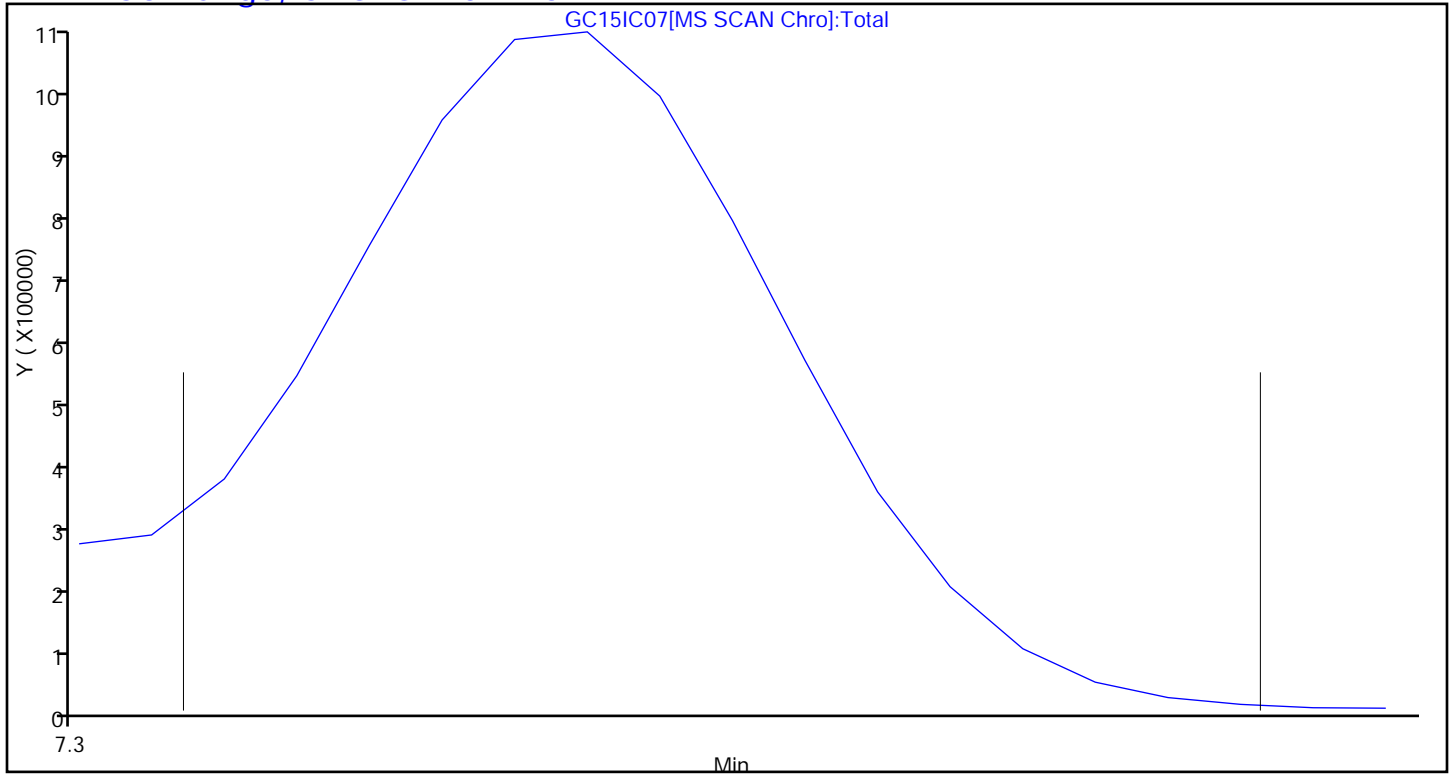
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC07.D

Injection Date: 15-Mar-2017 18:56:30

Instrument ID: MG

Lims ID: IC L7

Client ID:

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

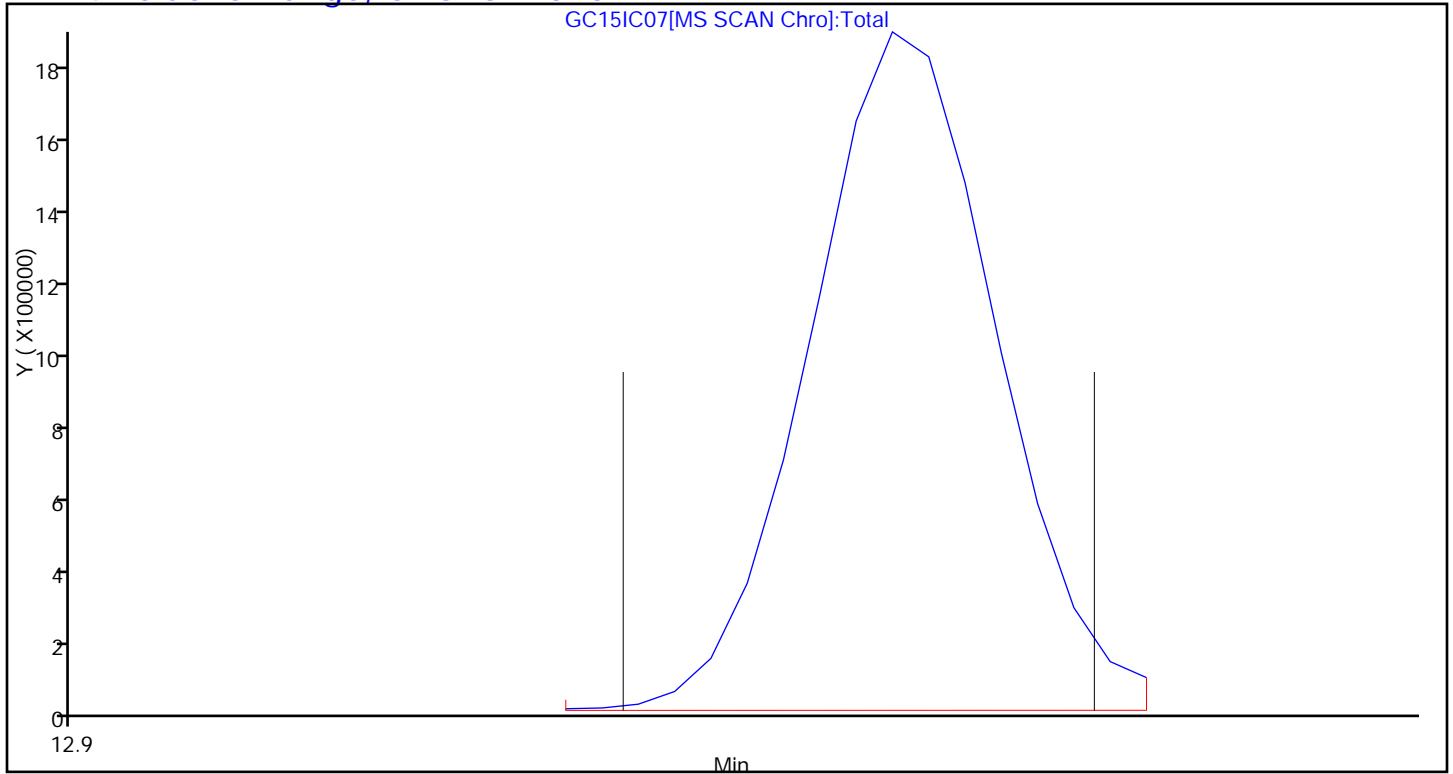
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC08.D
 Lims ID: IC L8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 15-Mar-2017 19:39:30 ALS Bottle#: 7 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004323-010
 Misc. Info.: 083677
 Operator ID: 7126 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Mar-2017 14:24:45 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh

Date: 16-Mar-2017 08:39:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.002	7.993	0.009	82	401002	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.169	10.161	0.008	94	1924493	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.039	15.034	0.005	87	1944152	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.710	16.705	0.005	95	1558022	4.00	4.06	
6 Chlorodifluoromethane	67	3.461	3.457	0.004	96	317499	8.00	7.12	
7 Propene	41	3.467	3.466	0.001	97	715294	8.00	6.74	
8 Dichlorodifluoromethane	85	3.510	3.510	0.000	100	3065573	8.00	7.22	
9 Chloromethane	52	3.661	3.659	0.002	100	195522	8.00	6.85	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.671	3.669	0.002	89	1944481	8.00	7.70	
11 Acetaldehyde	44	3.785	3.786	-0.001	90	1132144	40.0	33.8	
12 Vinyl chloride	62	3.806	3.803	0.003	99	808059	8.00	6.89	
13 Butadiene	54	3.876	3.876	0.000	71	549398	8.00	7.03	
14 Butane	43	3.882	3.879	0.003	84	1092508	8.00	6.57	
15 Bromomethane	94	4.141	4.141	0.000	98	850291	8.00	7.34	
16 Chloroethane	64	4.259	4.258	0.001	93	409306	8.00	7.21	
17 Ethanol	31	4.372	4.357	0.015	98	1409489	40.0	34.9	
18 Vinyl bromide	106	4.518	4.511	0.007	96	817628	8.00	7.44	
19 2-Methylbutane	43	4.561	4.560	0.001	89	786537	8.00	7.00	
21 Acrolein	56	4.739	4.742	-0.003	99	133516	8.00	8.13	
20 Trichlorofluoromethane	101	4.745	4.743	0.001	99	3119354	8.00	7.38	
22 Acetonitrile	40	4.798	4.793	0.005	98	247919	8.00	7.37	
23 Acetone	58	4.836	4.835	0.001	99	841477	23.5	21.4	
25 Pentane	72	4.939	4.937	0.002	96	151563	8.00	7.42	
24 Isopropyl alcohol	45	4.960	4.939	0.021	97	2844607	23.5	20.9	
26 Ethyl ether	31	5.073	5.075	-0.002	92	672373	8.00	7.26	
27 1,1-Dichloroethene	96	5.359	5.354	0.005	99	797692	8.00	7.46	
28 Acrylonitrile	53	5.440	5.435	0.005	95	356803	8.00	7.32	
29 2-Methyl-2-propanol	59	5.483	5.467	0.016	95	1241041	8.00	7.62	
30 1,1,2-Trichloro-1,2,2-trif	101	5.526	5.521	0.005	92	1855781	8.00	7.53	
31 Methylene Chloride	84	5.661	5.656	0.005	87	646443	8.00	6.70	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.677	5.673	0.004	92	711970	8.00	6.87	
33 Carbon disulfide	76	5.801	5.797	0.004	100	1984338	8.00	7.29	
34 trans-1,2-Dichloroethene	96	6.400	6.393	0.007	98	803766	8.00	7.69	
35 2-Methylpentane	43	6.427	6.426	0.001	91	1428051	8.00	6.96	
36 Methyl tert-butyl ether	73	6.508	6.513	-0.005	95	2321003	8.00	7.48	
37 1,1-Dichloroethane	63	6.777	6.771	0.006	100	1462691	8.00	7.17	
38 Vinyl acetate	43	6.885	6.881	0.004	99	1793080	8.00	7.65	
39 2-Butanone (MEK)	72	7.284	7.283	0.001	99	344230	8.00	7.54	
40 Hexane	56	7.338	7.336	0.002	84	560820	8.00	7.08	
41 Isopropyl ether	45	7.484	7.483	0.001	93	2148000	8.00	7.37	
42 cis-1,2-Dichloroethene	96	7.700	7.691	0.009	95	845905	8.00	7.62	
43 Ethyl acetate	43	7.883	7.880	0.003	98	1449886	8.00	7.50	
44 Chloroform	83	8.028	8.019	0.009	96	2066202	8.00	7.35	
45 Tert-butyl ethyl ether	59	8.126	8.122	0.004	94	2202848	8.00	7.52	
46 Tetrahydrofuran	42	8.384	8.387	-0.003	88	742637	8.00	7.25	
47 1,1,1-Trichloroethane	97	9.004	8.997	0.007	94	2454172	8.00	7.54	
48 1,2-Dichloroethane	62	9.096	9.087	0.009	99	1447194	8.00	7.45	
49 Benzene	78	9.592	9.582	0.010	96	2421461	8.00	7.41	
50 Cyclohexane	69	9.592	9.590	0.002	95	407285	8.00	7.40	
52 n-Butanol	31	9.608	9.606	0.002	70	273762	8.00	7.82	
51 Carbon tetrachloride	117	9.619	9.611	0.008	98	2797102	8.00	8.19	
53 2,3-Dimethylpentane	71	9.743	9.740	0.003	88	569652	8.00	7.57	
54 Thiophene	84	9.862	9.855	0.007	94	1402526	8.00	7.68	
55 Tert-amyl methyl ether	73	10.099	10.100	-0.001	98	2396229	8.00	7.99	
56 Isooctane	57	10.417	10.414	0.003	97	3578687	8.00	7.37	
57 n-Heptane	71	10.822	10.816	0.006	88	916791	8.00	7.56	
58 1,2-Dichloropropane	63	10.854	10.846	0.008	83	823056	8.00	7.41	
59 Trichloroethene	130	10.903	10.897	0.006	97	1460218	8.00	8.25	
60 Dibromomethane	93	10.973	10.961	0.012	91	1171750	8.00	7.94	
61 Dichlorobromomethane	83	11.134	11.126	0.008	98	2343991	8.00	8.27	
62 1,4-Dioxane	88	11.151	11.152	-0.001	89	354151	8.00	8.00	
63 Methyl methacrylate	41	11.264	11.260	0.004	94	988227	8.00	8.06	
64 Methylcyclohexane	83	11.706	11.704	0.002	94	1980430	8.00	7.77	
65 4-Methyl-2-pentanone (MIBK)	43	12.137	12.133	0.004	96	1511574	8.00	8.05	
66 cis-1,3-Dichloropropene	75	12.181	12.174	0.007	94	1637962	8.00	7.97	
67 trans-1,3-Dichloropropene	75	12.903	12.897	0.006	97	1645268	8.00	7.90	
68 Toluene	91	13.027	13.021	0.006	94	2972164	8.00	7.67	
69 1,1,2-Trichloroethane	83	13.097	13.091	0.006	98	890354	8.00	7.67	
70 2-Methylthiophene	97	13.178	13.173	0.005	97	2514496	8.00	7.73	
71 3-Methylthiophene	97	13.388	13.381	0.007	99	2520669	8.00	7.83	
72 2-Hexanone	58	13.518	13.519	-0.001	94	769096	8.00	8.30	
73 n-Octane	85	13.782	13.780	0.002	85	1089002	8.00	7.78	
74 Chlorodibromomethane	129	13.809	13.803	0.006	97	2716554	8.00	9.38	
75 Ethylene Dibromide	107	14.100	14.092	0.008	98	1908708	8.00	8.39	
76 Tetrachloroethene	129	14.197	14.195	0.002	95	1442699	8.00	8.14	
77 Chlorobenzene	112	15.087	15.082	0.005	94	2618941	8.00	7.99	
78 2,3-Dimethylheptane	43	15.157	15.155	0.002	86	2286470	8.00	6.90	
79 Ethylbenzene	91	15.400	15.393	0.007	98	4239909	8.00	7.84	
80 2-Ethylthiophene	97	15.497	15.491	0.006	97	3415104	8.00	8.01	
81 m-Xylene & p-Xylene	91	15.567	15.559	0.008	99	6914176	16.0	15.8	
82 Bromoform	173	15.988	15.979	0.009	98	3110131	8.00	10.7	
83 Styrene	104	16.031	16.027	0.004	97	2643863	8.00	9.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 n-Nonane	57	16.036	16.029	0.007	85	1702072	8.00	7.17	
85 o-Xylene	91	16.095	16.088	0.007	98	3451230	8.00	7.73	
86 1,1,2,2-Tetrachloroethane	83	16.419	16.411	0.008	99	2243454	8.00	7.97	
87 1,2,3-Trichloropropane	110	16.575	16.565	0.010	96	819612	8.00	7.95	
88 Isopropylbenzene	105	16.699	16.692	0.007	96	5091349	8.00	7.85	
89 N-Propylbenzene	120	17.249	17.246	0.003	100	1438960	8.00	8.46	
90 2-Chlorotoluene	126	17.282	17.278	0.004	97	1300045	8.00	8.19	
91 4-Ethyltoluene	105	17.417	17.409	0.008	98	5056909	8.00	8.28	
92 1,3,5-Trimethylbenzene	120	17.497	17.490	0.007	93	2423508	8.00	8.46	
93 Alpha Methyl Styrene	118	17.740	17.734	0.006	89	2181723	8.00	9.77	
94 n-Decane	57	17.843	17.837	0.006	94	2139210	8.00	7.35	
95 tert-Butylbenzene	119	17.945	17.939	0.006	92	5188127	8.00	8.59	
96 1,2,4-Trimethylbenzene	105	17.961	17.953	0.008	95	4611406	8.00	8.40	
98 sec-Butylbenzene	105	18.231	18.223	0.008	98	6810067	8.00	8.81	
97 1,3-Dichlorobenzene	146	18.231	18.223	0.008	97	3893907	8.00	9.41	
99 Benzyl chloride	91	18.312	18.303	0.009	99	4505667	8.00	8.70	
100 1,4-Dichlorobenzene	146	18.322	18.316	0.006	96	3654606	8.00	9.03	
101 4-Isopropyltoluene	119	18.409	18.400	0.009	97	5874319	8.00	8.61	
102 1,2,3-Trimethylbenzene	105	18.452	18.445	0.007	97	3285785	8.00	8.02	
103 Butylcyclohexane	83	18.522	18.520	0.002	96	3168620	8.00	7.84	
104 1,2-Dichlorobenzene	146	18.695	18.689	0.006	96	3656010	8.00	9.27	
105 2,3-Dihydroindene	117	18.700	18.693	0.007	93	4472405	8.00	8.94	
106 Indene	116	18.829	18.827	0.002	92	3210332	8.00	8.79	
107 n-Butylbenzene	91	18.856	18.854	0.002	97	5130283	8.00	8.04	
108 Undecane	57	19.212	19.209	0.003	90	2502915	8.00	7.33	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.245	19.239	0.006	97	4317337	8.00	8.47	
110 1,2-Dibromo-3-Chloropropan	157	19.315	19.308	0.007	97	1636568	8.00	9.67	
111 1,2,4,5-Tetramethylbenzene	119	19.638	19.634	0.004	96	5566375	8.00	9.09	
112 1,2,3,5-Tetramethylbenzene	119	19.692	19.689	0.003	95	3139429	8.00	8.53	
113 1,2,3,4-Tetramethylbenzene	119	20.086	20.083	0.003	97	4503997	8.00	8.96	
114 Dodecane	57	20.280	20.280	0.000	92	2482191	8.00	8.19	
115 1,2,4-Trichlorobenzene	180	20.420	20.418	0.002	93	3616219	8.00	10.4	
116 Naphthalene	128	20.550	20.545	0.005	99	6639288	8.00	9.13	
117 Benzo(b)thiophene	134	20.647	20.645	0.002	99	3862788	8.00	9.13	
118 Hexachlorobutadiene	225	20.776	20.776	0.000	96	3465632	8.00	10.1	
119 1,2,3-Trichlorobenzene	180	20.825	20.825	0.000	96	3268537	8.00	9.98	
120 2-Methylnaphthalene	142	21.623	21.623	0.000	99	5256646	24.2	34.8	
121 1-Methylnaphthalene	142	21.806	21.801	0.005	99	5132440	24.2	34.1	
A 122 C6 Range	1	7.348	(7.308-7.388)		0	5679805	8.00	7.50	
A 124 Toluene Range	1	13.022	(12.987-13.057)		0	7223375	8.00	7.84	
S 126 Xylenes, Total	100				0		24.0	23.5	
S 127 1,2-Dichloroethene, Total	1				0		16.0	15.3	

Reagents:

40L8DNP_00010

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC08.D

Injection Date: 15-Mar-2017 19:39:30

Instrument ID: MG

Operator ID: 7126

Lims ID: IC L8

Worklist Smp#: 10

Client ID:

Purge Vol: 500.000 mL

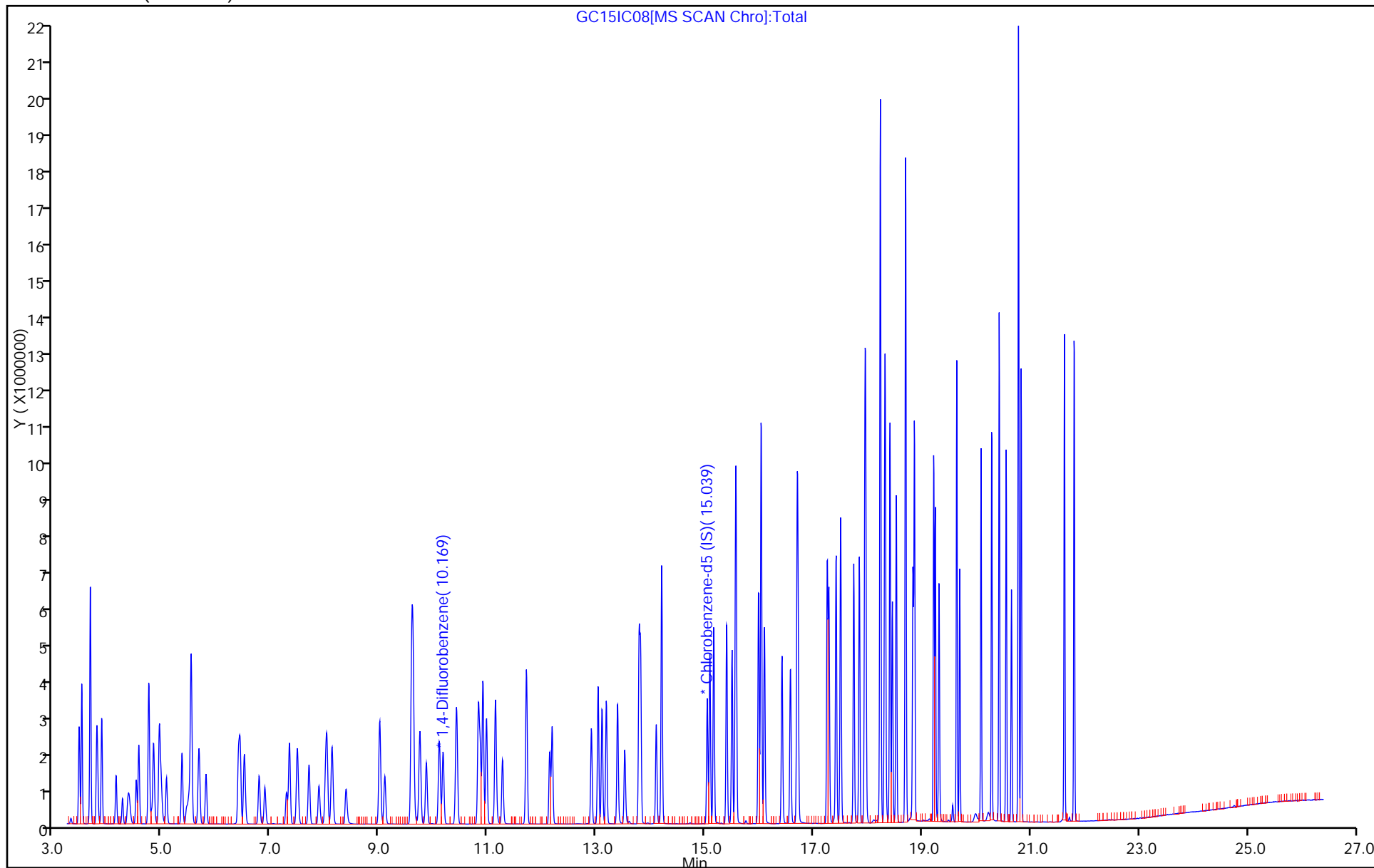
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC08.D

Injection Date: 15-Mar-2017 19:39:30

Instrument ID: MG

Lims ID: IC L8

Client ID:

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

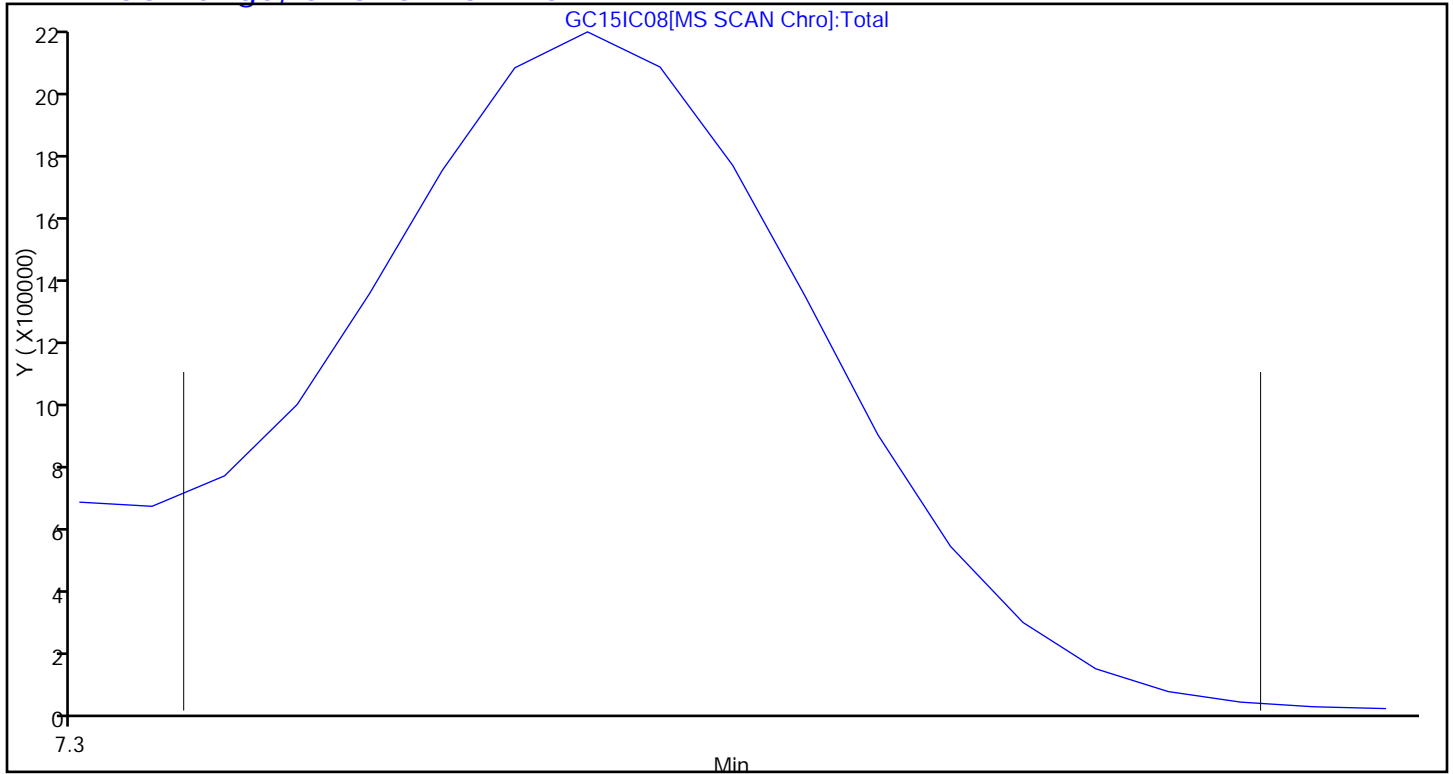
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC08.D

Injection Date: 15-Mar-2017 19:39:30

Instrument ID: MG

Lims ID: IC L8

Client ID:

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

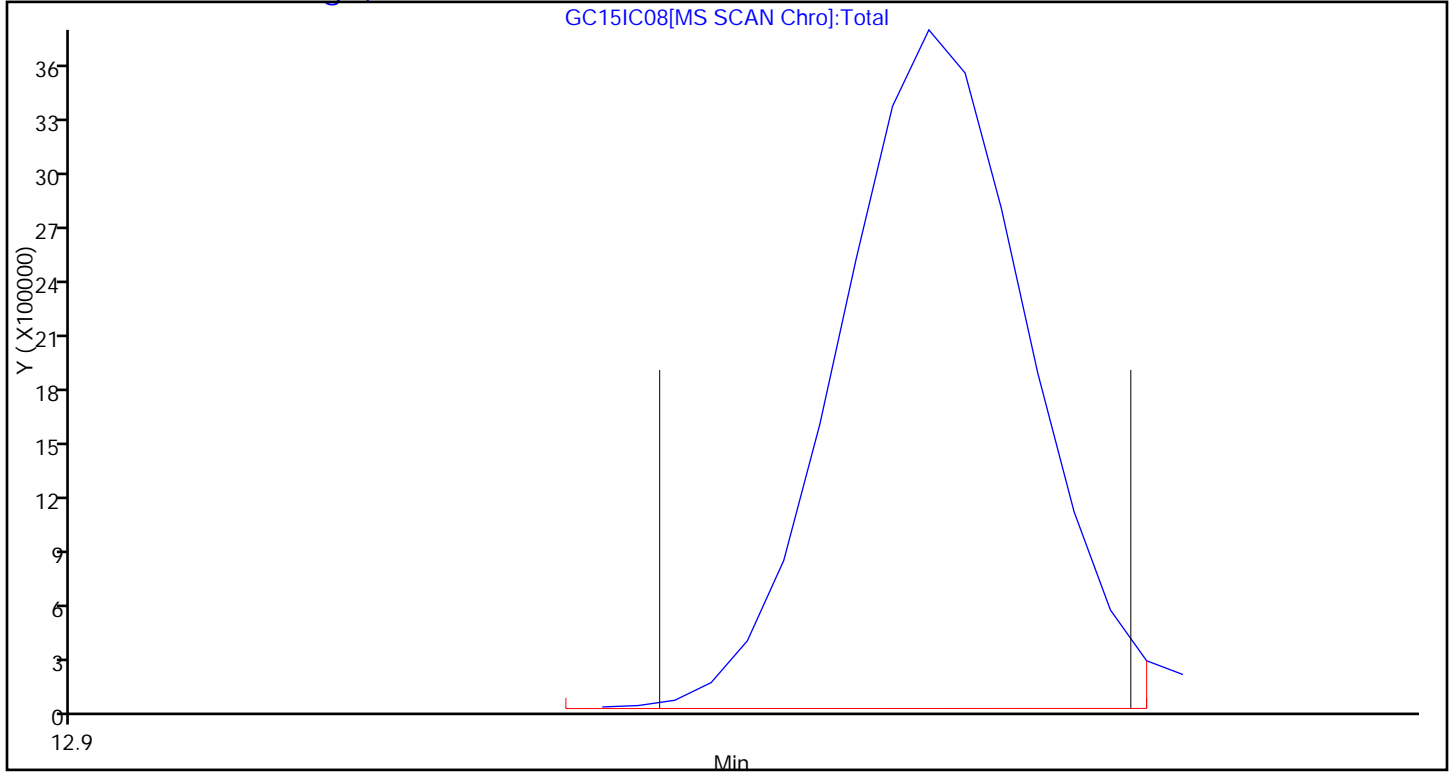
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Lims ID: IC L9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 15-Mar-2017 20:21:30 ALS Bottle#: 8 Worklist Smp#: 11
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004323-011
 Misc. Info.: 083675
 Operator ID: 7126 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Mar-2017 14:32:37 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: barlozhetskayaa

Date: 16-Mar-2017 14:32:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.023	7.993	0.030	87	442071	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.191	10.161	0.030	94	2104470	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.055	15.034	0.021	88	2112068	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.721	16.705	0.016	95	1689695	4.00	4.05	
6 Chlorodifluoromethane	67	3.461	3.457	0.004	96	648102	16.0	13.2	
7 Propene	41	3.472	3.466	0.006	97	1334692	16.0	11.4	
8 Dichlorodifluoromethane	85	3.515	3.510	0.005	99	6309639	16.0	13.5	
9 Chloromethane	52	3.666	3.659	0.007	97	381523	16.0	12.1	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.677	3.669	0.008	88	4340354	16.0	15.6	
11 Acetaldehyde	44	3.801	3.786	0.015	90	2180620	80.0	59.0	
12 Vinyl chloride	62	3.812	3.803	0.009	99	1585259	16.0	12.3	
13 Butadiene	54	3.887	3.876	0.011	71	1072769	16.0	12.5	
14 Butane	43	3.887	3.879	0.008	83	2112304	16.0	11.5	
15 Bromomethane	94	4.151	4.141	0.010	98	1772157	16.0	13.9	
16 Chloroethane	64	4.275	4.258	0.017	93	830849	16.0	13.3	
17 Ethanol	31	4.410	4.357	0.053	98	2735400	80.0	61.5	
18 Vinyl bromide	106	4.529	4.511	0.018	96	1728343	16.0	14.3	
19 2-Methylbutane	43	4.572	4.560	0.012	88	1595022	16.0	12.9	
21 Acrolein	56	4.761	4.742	0.019	82	330540	16.0	18.3	
20 Trichlorofluoromethane	101	4.761	4.743	0.018	99	6686372	16.0	14.3	
22 Acetonitrile	40	4.820	4.793	0.027	98	523809	16.0	14.1	
23 Acetone	58	4.852	4.835	0.017	99	1728119	47.0	39.8	
25 Pentane	72	4.955	4.937	0.018	97	323924	16.0	14.4	
24 Isopropyl alcohol	45	5.036	4.939	0.097	98	6495368	47.0	43.3	
26 Ethyl ether	31	5.090	5.075	0.015	85	1560739	16.0	15.3	
27 1,1-Dichloroethene	96	5.375	5.354	0.021	100	1773303	16.0	15.1	
28 Acrylonitrile	53	5.467	5.435	0.032	95	774315	16.0	14.4	
29 2-Methyl-2-propanol	59	5.559	5.467	0.092	95	2500383	16.0	13.9	
30 1,1,2-Trichloro-1,2,2-trif	101	5.543	5.521	0.022	91	4102363	16.0	15.1	
31 Methylene Chloride	84	5.683	5.656	0.027	86	1389569	16.0	13.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.694	5.673	0.021	95	1527575	16.0	13.4	
33 Carbon disulfide	76	5.818	5.797	0.021	100	4378380	16.0	14.6	
34 trans-1,2-Dichloroethene	96	6.416	6.393	0.023	97	1798426	16.0	15.6	
35 2-Methylpentane	43	6.443	6.426	0.017	91	2917758	16.0	12.9	
36 Methyl tert-butyl ether	73	6.524	6.513	0.011	93	4996692	16.0	14.6	
37 1,1-Dichloroethane	63	6.799	6.771	0.028	100	3131504	16.0	13.9	
38 Vinyl acetate	43	6.907	6.881	0.026	99	3848118	16.0	14.9	
39 2-Butanone (MEK)	72	7.317	7.283	0.034	98	734059	16.0	14.6	
40 Hexane	56	7.354	7.336	0.018	92	1158063	16.0	13.3	
41 Isopropyl ether	45	7.511	7.483	0.028	93	4485105	16.0	14.0	
42 cis-1,2-Dichloroethene	96	7.721	7.691	0.030	93	1869513	16.0	15.3	
43 Ethyl acetate	43	7.910	7.880	0.030	98	3038641	16.0	14.3	
44 Chloroform	83	8.050	8.019	0.031	95	4480470	16.0	14.4	
45 Tert-butyl ethyl ether	59	8.147	8.122	0.025	94	4640558	16.0	14.4	
46 Tetrahydrofuran	42	8.401	8.387	0.014	89	1562956	16.0	13.8	
47 1,1,1-Trichloroethane	97	9.021	8.997	0.024	93	5396460	16.0	15.0	
48 1,2-Dichloroethane	62	9.118	9.087	0.031	99	3085614	16.0	14.5	
49 Benzene	78	9.608	9.582	0.026	95	5257486	16.0	14.7	
50 Cyclohexane	69	9.608	9.590	0.018	75	863041	16.0	14.3	
52 n-Butanol	31	9.673	9.606	0.067	84	591245	16.0	15.5	
51 Carbon tetrachloride	117	9.635	9.611	0.024	98	6365119	16.0	17.0	
53 2,3-Dimethylpentane	71	9.759	9.740	0.019	88	1206293	16.0	14.7	
54 Thiophene	84	9.884	9.855	0.029	93	2998594	16.0	15.0	
55 Tert-amyl methyl ether	73	10.126	10.100	0.026	98	5052003	16.0	15.4	
56 Isooctane	57	10.434	10.414	0.020	97	7435991	16.0	14.0	
57 n-Heptane	71	10.838	10.816	0.022	87	1934212	16.0	14.6	
58 1,2-Dichloropropane	63	10.876	10.846	0.030	82	1721134	16.0	14.2	
59 Trichloroethene	130	10.924	10.897	0.027	98	3208650	16.0	16.6	
60 Dibromomethane	93	10.989	10.961	0.028	89	2546424	16.0	15.8	
61 Dichlorobromomethane	83	11.156	11.126	0.030	97	5078012	16.0	16.4	
62 1,4-Dioxane	88	11.178	11.152	0.026	88	711143	16.0	14.7	
63 Methyl methacrylate	41	11.291	11.260	0.031	95	2072888	16.0	15.5	
64 Methylcyclohexane	83	11.722	11.704	0.018	92	4285973	16.0	15.4	
65 4-Methyl-2-pentanone (MIBK)	43	12.164	12.133	0.031	95	3039224	16.0	14.8	
66 cis-1,3-Dichloropropene	75	12.197	12.174	0.023	97	3479031	16.0	15.5	
67 trans-1,3-Dichloropropene	75	12.925	12.897	0.028	97	3558024	16.0	15.7	
68 Toluene	91	13.043	13.021	0.022	94	6568341	16.0	15.6	
69 1,1,2-Trichloroethane	83	13.119	13.091	0.028	97	1930179	16.0	15.3	
70 2-Methylthiophene	97	13.194	13.173	0.021	97	5571008	16.0	15.8	
71 3-Methylthiophene	97	13.405	13.381	0.024	99	5522937	16.0	15.8	
72 2-Hexanone	58	13.545	13.519	0.026	95	1588026	16.0	15.8	
73 n-Octane	85	13.798	13.780	0.018	83	2331636	16.0	15.3	
74 Chlorodibromomethane	129	13.831	13.803	0.028	97	6180157	16.0	19.6	
75 Ethylene Dibromide	107	14.117	14.092	0.024	98	4223710	16.0	17.1	
76 Tetrachloroethene	129	14.214	14.195	0.019	96	3341461	16.0	17.4	
77 Chlorobenzene	112	15.103	15.082	0.021	95	5872788	16.0	16.5	
78 2,3-Dimethylheptane	43	15.168	15.155	0.013	84	4561552	16.0	12.7	
79 Ethylbenzene	91	15.411	15.393	0.018	98	9378439	16.0	16.0	
80 2-Ethylthiophene	97	15.513	15.491	0.022	97	7482070	16.0	16.2	
81 m-Xylene & p-Xylene	91	15.578	15.559	0.019	98	15254685	32.0	32.1	
82 Bromoform	173	15.998	15.979	0.019	98	7554567	16.0	24.0	
83 Styrene	104	16.047	16.027	0.020	96	5980940	16.0	19.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 n-Nonane	57	16.047	16.029	0.018	83	3451826	16.0	13.4	
85 o-Xylene	91	16.106	16.088	0.018	98	7495466	16.0	15.4	
86 1,1,2,2-Tetrachloroethane	83	16.430	16.411	0.019	98	4930342	16.0	16.1	
87 1,2,3-Trichloropropane	110	16.586	16.565	0.021	95	1792574	16.0	16.0	
88 Isopropylbenzene	105	16.710	16.692	0.018	96	11190142	16.0	15.9	
89 N-Propylbenzene	120	17.266	17.246	0.020	100	3302547	16.0	17.9	
90 2-Chlorotoluene	126	17.293	17.278	0.015	96	2937732	16.0	17.0	
91 4-Ethyltoluene	105	17.427	17.409	0.018	98	11212261	16.0	16.9	
92 1,3,5-Trimethylbenzene	120	17.508	17.490	0.018	93	5491943	16.0	17.6	
93 Alpha Methyl Styrene	118	17.751	17.734	0.017	90	4952983	16.0	20.4	
94 n-Decane	57	17.853	17.837	0.016	94	4265576	16.0	13.5	
95 tert-Butylbenzene	119	17.956	17.939	0.017	94	11616984	16.0	17.7	
96 1,2,4-Trimethylbenzene	105	17.972	17.953	0.019	95	10291549	16.0	17.3	
97 1,3-Dichlorobenzene	146	18.236	18.223	0.013	97	8814211	16.0	19.6	
99 Benzyl chloride	91	18.323	18.303	0.020	99	9733935	16.0	17.3	
100 1,4-Dichlorobenzene	146	18.333	18.316	0.017	97	8414582	16.0	19.1	
102 1,2,3-Trimethylbenzene	105	18.463	18.445	0.018	98	7156186	16.0	16.1	
103 Butylcyclohexane	83	18.533	18.520	0.013	96	6495136	16.0	14.8	
104 1,2-Dichlorobenzene	146	18.705	18.689	0.016	97	8346220	16.0	19.5	
105 2,3-Dihydroindene	117	18.705	18.693	0.012	94	10165330	16.0	18.7	
106 Indene	116	18.840	18.827	0.013	92	7281318	16.0	18.3	
107 n-Butylbenzene	91	18.867	18.854	0.013	97	10638853	16.0	15.3	
108 Undecane	57	19.218	19.209	0.009	89	4746027	16.0	12.8	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.250	19.239	0.011	97	9283464	16.0	16.8	
110 1,2-Dibromo-3-Chloropropan	157	19.320	19.308	0.012	94	3651422	16.0	19.9	
112 1,2,3,5-Tetramethylbenzene	119	19.698	19.689	0.009	95	6557823	16.0	16.4	
113 1,2,3,4-Tetramethylbenzene	119	20.091	20.083	0.008	97	8848915	16.0	16.2	
114 Dodecane	57	20.285	20.280	0.005	92	3238859	16.0	9.84	
115 1,2,4-Trichlorobenzene	180	20.426	20.418	0.008	93	6264846	16.0	16.6	
117 Benzo(b)thiophene	134	20.652	20.645	0.007	99	6618484	16.0	14.4	
118 Hexachlorobutadiene	225	20.781	20.776	0.005	93	5626941	16.0	15.1	
119 1,2,3-Trichlorobenzene	180	20.830	20.825	0.005	96	4303288	16.0	12.1	
120 2-Methylnaphthalene	142	21.623	21.623	0.000	100	932756	48.4	5.68	
121 1-Methylnaphthalene	142	21.801	21.801	0.000	100	649010	48.4	3.97	
A 122 C6 Range	1	7.364	(7.324-7.404)		0	15062569	16.0	18.7	
A 124 Toluene Range	1	13.038	(13.003-13.073)		0	15867496	16.0	15.8	
S 126 Xylenes, Total	100				0		48.0	47.6	
S 127 1,2-Dichloroethene, Total	1				0		32.0	30.9	

Reagents:

40L9DNP_00013

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D

Injection Date: 15-Mar-2017 20:21:30

Instrument ID: MG

Operator ID: 7126

Lims ID: IC L9

Worklist Smp#: 11

Client ID:

Purge Vol: 500.000 mL

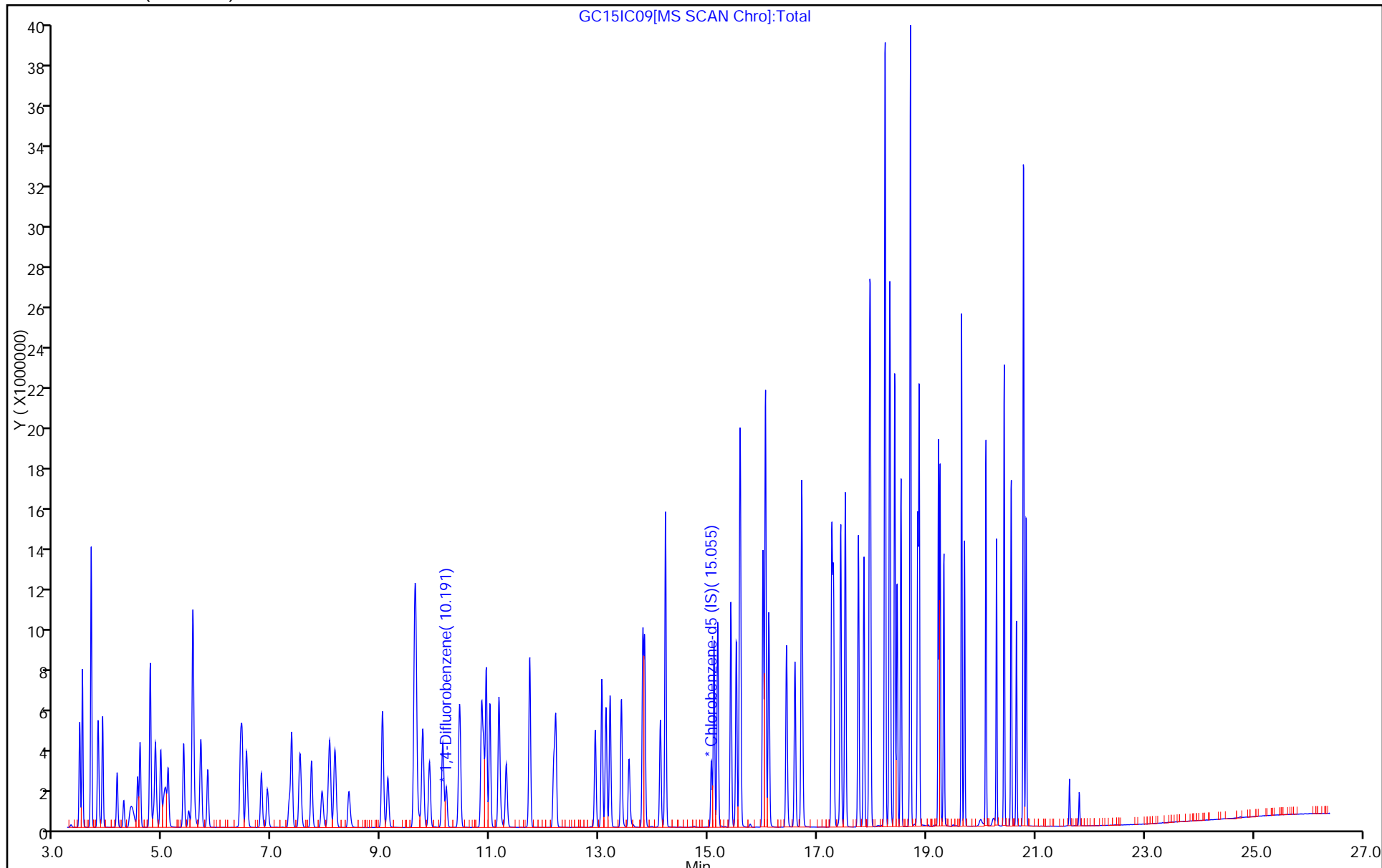
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D

Injection Date: 15-Mar-2017 20:21:30

Instrument ID: MG

Lims ID: IC L9

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

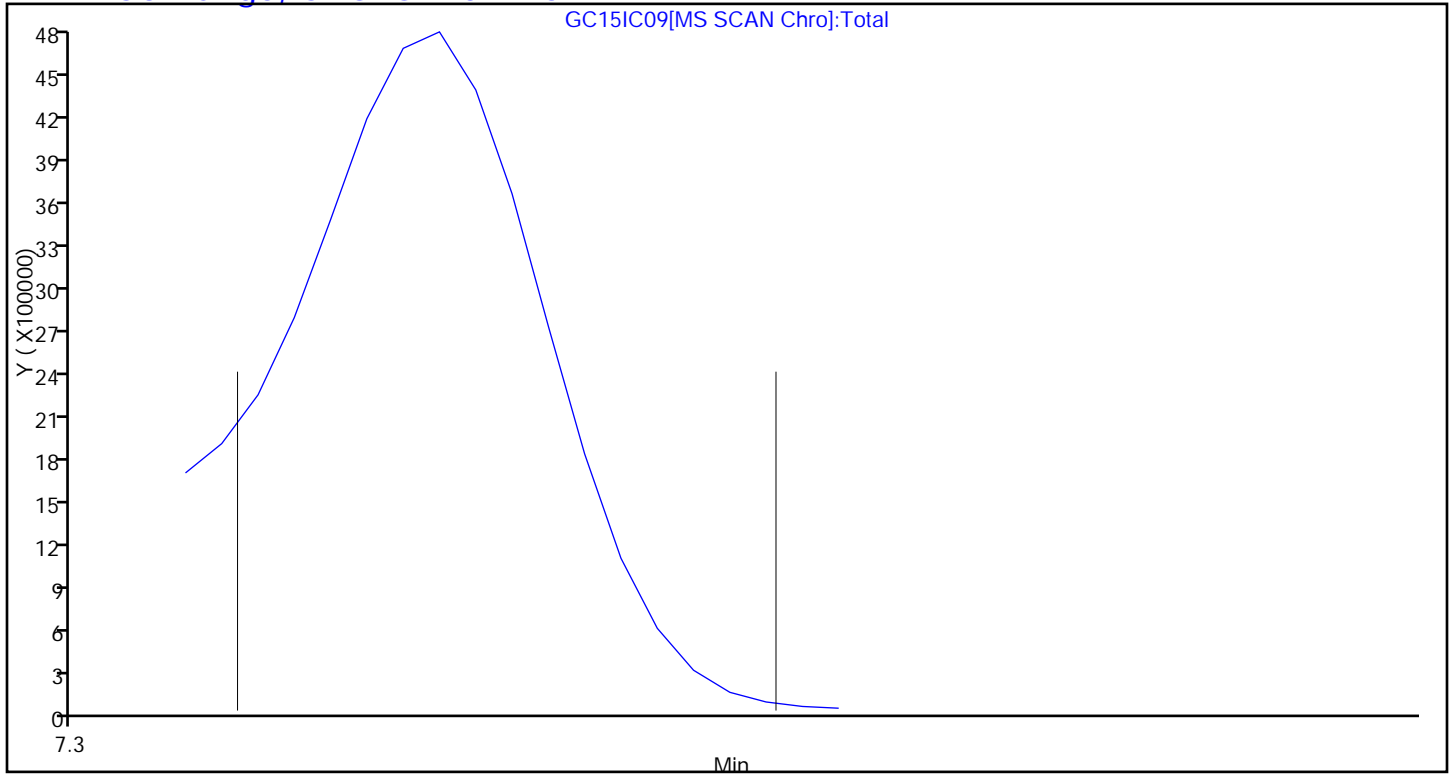
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 122 C6 Range, CAS: STL01725



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D

Injection Date: 15-Mar-2017 20:21:30

Instrument ID: MG

Lims ID: IC L9

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

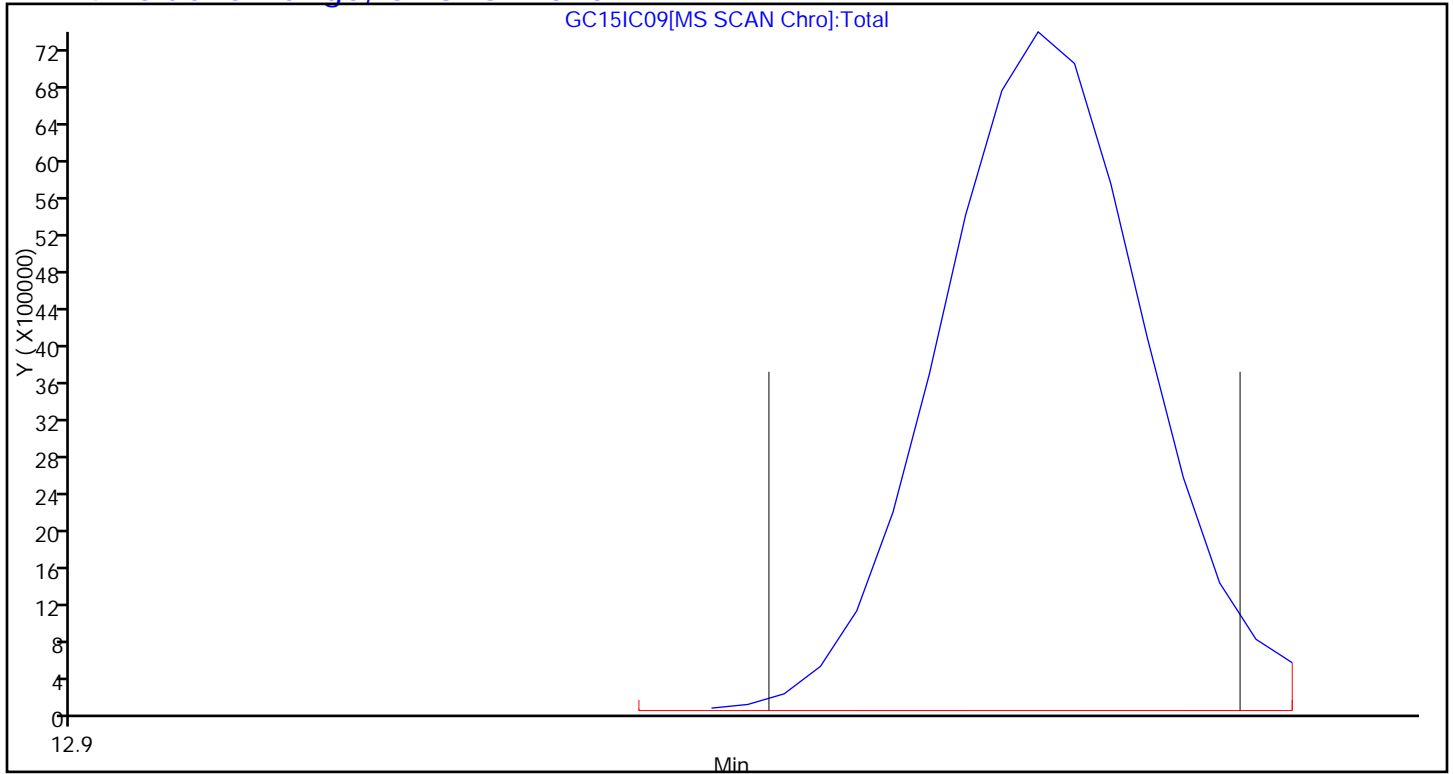
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9602

SDG No.: _____

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

Calibration Start Date: 03/24/2017 11:31 Calibration End Date: 03/24/2017 17:35 Calibration ID: 978

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-9602/2	JC24IC01.D
Level 2	IC 140-9602/3	JC24IC02.D
Level 3	IC 140-9602/4	JC24IC03.D
Level 4	IC 140-9602/5	JC24IC04.D
Level 5	IC 140-9602/6	JC24IC05.D
Level 6	ICIS 140-9602/7	JC24IC06.D
Level 7	IC 140-9602/8	JC24IC07.D
Level 8	IC 140-9602/9	JC24IC08.D
Level 9	IC 140-9602/10	JC24IC09.D

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													
Chlorodifluoromethane	++++ 0.3753	0.3441 0.3356	0.3227 0.3189	0.3338 0.3305	0.3258	Ave		0.3358			5.3		30.0				
Propene	++++ 1.2668	1.3959 1.1126	1.2756 1.0416	1.2328 1.0312	1.1355	Ave		1.1865			10.7		30.0				
Dichlorodifluoromethane	3.8766 3.7488	3.3790 3.3407	3.3968 3.1490	3.4725 3.1844	3.3080	Ave		3.4284			7.1		30.0				
Chloromethane	++++ 0.3928	++++ 0.3475	0.4498 0.3215	0.4273 0.3272	0.3658	Ave		0.3760			13.1		30.0				
1,2-Dichlorotetrafluoroethane	1.8273 1.5639	1.5651 1.4343	1.5493 1.3714	1.3895 1.3324	1.6350	Ave		1.5187			10.3		30.0				
Acetaldehyde	++++ 0.3622	++++ 0.3050	++++ 0.2746	0.5186 0.3224	0.3780	Ave		0.3601			24.0		30.0				
Vinyl chloride	1.1374 1.2058	1.1577 1.0825	1.0871 1.0137	1.1012 1.0773	1.0889	Ave		1.1057			5.0		30.0				
1,3-Butadiene	0.8876 0.9009	0.8813 0.8103	0.8027 0.7453	0.8256 0.8007	0.8044	Ave		0.8287			6.2		30.0				
Butane	1.7753 1.7945	1.8298 1.5962	1.7057 1.4399	1.6897 1.5386	1.6299	Ave		1.6666			7.7		30.0				
Bromomethane	1.3126 1.0595	1.1261 0.9770	1.0034 0.9104	0.9711 0.9673	0.9563	Ave		1.0315			11.9		30.0				
Chloroethane	++++ 0.5086	0.4261 0.4619	0.4395 0.4279	0.4535 0.4579	0.4676	Ave		0.4554			5.8		30.0				
Ethanol	++++ 0.2536	0.2862 0.2159	0.2735 0.1987	0.2577 0.1820	0.2191	Ave		0.2358			15.8		30.0				
Vinyl bromide	0.9297 0.9782	0.9281 0.9070	0.8589 0.8500	0.8410 0.9064	0.8742	Ave		0.8970			5.0		30.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9602
 SDG No.: _____
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/24/2017 11:31 Calibration End Date: 03/24/2017 17:35 Calibration ID: 978

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-Methylbutane	++++ 1.5582	1.8609 1.4374	1.6340 1.3154	1.2918 1.3932	1.4491	Ave	1.4925				12.6		30.0				
Trichlorofluoromethane	3.1676 3.4507	3.3388 3.1984	3.1226 2.9658	2.8225 3.1257	3.1389	Ave	3.1479				5.9		30.0				
Acrolein	++++ 0.2627	++++ 0.2560	0.3096 0.1925	0.3353 0.2867	0.2687	Ave	0.2731				16.6		30.0				
Acetonitrile	++++ 0.3743	++++ 0.3192	0.3872 0.2687	0.3938 0.3708	0.3045	Ave	0.3455				13.9		30.0				
Acetone	++++ 0.3779	++++ 0.2990	++++ 0.2556	0.4575 0.2826	0.3415	Ave	0.3357				22.0		30.0				
Isopropyl alcohol	1.4096 1.5146	1.4711 1.3260	1.4719 1.2355	1.5638 1.1107	1.2693	Ave	1.3747				10.8		30.0				
Pentane	++++ 0.2019	++++ 0.1893	0.1566 0.1708	0.1724 0.1766	0.1832	Ave	0.1787				8.1		30.0				
Ethyl ether	++++ 1.1414	1.0249 1.0132	1.0630 0.8986	1.1971 1.0646	1.0727	Ave	1.0594				8.4		30.0				
1,1-Dichloroethene	1.2757 1.3203	1.2111 1.2279	1.1796 1.1335	1.0874 1.2149	1.1907	Ave	1.2046				5.8		30.0				
Acrylonitrile	++++ 0.6312	0.5404 0.5730	0.5836 0.4738	0.7185 0.6580	0.5959	Ave	0.5968				12.5		30.0				
t-Butyl alcohol	1.4826 1.6717	1.4997 1.5036	1.5448 1.4655	1.4157 1.3757	1.3892	Ave	1.4832				6.1		30.0				
1,1,2-Trichlorotrifluoroethane	2.6104 2.8410	2.6233 2.5691	2.4835 2.3747	2.4050 2.4491	2.5600	Ave	2.5462				5.6		30.0				
Methylene Chloride	++++ 1.2742	++++ 1.1181	1.6690 1.0310	1.3048 1.0636	1.1909	Ave	1.2359				17.5		30.0				
3-Chloropropene	++++ 1.3891	1.3102 1.1944	1.1647 1.0831	1.2357 1.1360	1.1687	Ave	1.2103				8.2		30.0				
Carbon disulfide	3.5705 3.8868	3.6740 3.5441	3.4184 3.2293	3.2772 3.4421	3.4426	Ave	3.4983				5.7		30.0				
trans-1,2-Dichloroethene	1.2671 1.3602	1.2022 1.2482	1.1875 1.1577	1.1639 1.1944	1.2348	Ave	1.2240				5.2		30.0				
2-Methylpentane	3.2236 3.1086	2.9938 2.8044	2.8179 2.5791	2.6950 2.5776	2.8341	Ave	2.8482				7.9		30.0				
Methyl tert-butyl ether	1.5402 2.0272	1.9577 1.7648	1.9002 1.6021	2.0404 1.8823	1.7757	Ave	1.8323				9.7		30.0				
1,1-Dichloroethane	2.4257 2.6140	2.4829 2.3755	2.3351 2.1968	2.4158 2.3018	2.3995	Ave	2.3941				4.9		30.0				
Vinyl acetate	++++ 2.1224	1.9173 1.8265	1.8781 1.5317	2.3004 2.1965	1.8460	Ave	1.9524				12.6		30.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9602
 SDG No.: _____
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/24/2017 11:31 Calibration End Date: 03/24/2017 17:35 Calibration ID: 978

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-Butanone	++++	0.3075	0.3609	0.3215	0.2762	Ave		0.2943			14.8		30.0				
	0.3317	0.2728	0.2537	0.2302													
Hexane	1.0958	1.0499	1.0290	1.0015	1.0494	Ave		1.0500			5.3		30.0				
	1.1694	1.0546	0.9840	1.0160													
Isopropyl ether	++++	2.6910	2.7413	2.8649	2.4448	Ave		2.6023			8.3		30.0				
	2.8432	2.4431	2.2555	2.5350													
cis-1,2-Dichloroethene	1.3477	1.2485	1.2556	1.2682	1.2776	Ave		1.2829			5.1		30.0				
	1.4171	1.2917	1.1861	1.2537													
Ethyl acetate	1.2103	1.5041	1.5806	1.5336	1.3328	Ave		1.3992			11.7		30.0				
	1.6242	1.3539	1.2435	1.2094													
Chloroform	2.7697	2.7647	2.6588	2.6876	2.6217	Ave		2.6398			6.1		30.0				
	2.8586	2.5717	2.3277	2.4983													
Tert-butyl ethyl ether	1.7159	2.1788	2.2511	2.2797	1.9847	Ave		2.0792			9.8		30.0				
	2.3467	2.0110	1.9048	2.0399													
Tetrahydrofuran	0.6951	0.8309	0.8719	0.8717	0.7599	Ave		0.8005			9.5		30.0				
	0.9067	0.7715	0.6973	0.7995													
1,1,1-Trichloroethane	2.8290	2.7465	2.6846	2.6961	2.7186	Ave		2.7449			5.0		30.0				
	3.0383	2.7741	2.5286	2.6887													
1,2-Dichloroethane	0.3802	0.3724	0.3874	0.3749	0.3854	Ave		0.3809			4.3		30.0				
	0.4114	0.3959	0.3605	0.3602													
1-Butanol	++++	0.0621	0.0687	0.0647	0.0640	Ave		0.0685			9.2		30.0				
	0.0778	0.0754	0.0733	0.0619													
Cyclohexane	0.1119	0.1156	0.1187	0.1145	0.1286	Ave		0.1208			8.4		30.0				
	0.1377	0.1333	0.1184	0.1083													
Benzene	0.9631	0.8720	0.8091	0.7742	0.7644	Ave		0.7840			12.7		30.0				
	0.8080	0.7642	0.6743	0.6263													
Carbon tetrachloride	0.5862	0.6057	0.5980	0.5541	0.6199	Ave		0.6048			6.3		30.0				
	0.6698	0.6549	0.5898	0.5644													
2,3-Dimethylpentane	0.1482	0.1835	0.1720	0.1604	0.1742	Ave		0.1698			8.2		30.0				
	0.1899	0.1812	0.1624	0.1564													
Thiophene	0.4573	0.4482	0.4488	0.4444	0.4499	Ave		0.4449			4.9		30.0				
	0.4752	0.4601	0.4127	0.4078													
Tert-amyl methyl ether	++++	0.4244	0.4019	0.4576	0.4046	Ave		0.4115			7.5		30.0				
	0.4463	0.4076	0.3859	0.3636													
2,2,4-Trimethylpentane	1.5252	1.4292	1.4096	1.3020	1.3556	Ave		1.3539			8.7		30.0				
	1.4387	1.3649	1.2070	1.1533													
Heptane	0.2815	0.2701	0.2731	0.2510	0.2642	Ave		0.2609			7.0		30.0				
	0.2777	0.2652	0.2368	0.2287													
1,2-Dichloropropane	0.2564	0.2996	0.2876	0.2860	0.2963	Ave		0.2863			6.1		30.0				
	0.3085	0.3017	0.2716	0.2692													

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9602
 SDG No.: _____
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/24/2017 11:31 Calibration End Date: 03/24/2017 17:35 Calibration ID: 978

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													
Trichloroethene	0.4602	0.4272	0.4591	0.4038	0.4165	Ave	0.4235				8.5		30.0				
	0.4593	0.4372	0.3962	0.3523													
Dibromomethane	0.3319	0.3276	0.3353	0.3153	0.3307	Ave	0.3258				6.0		30.0				
	0.3587	0.3365	0.3021	0.2939													
Bromodichloromethane	0.5064	0.5270	0.5388	0.5223	0.5523	Ave	0.5424				5.2		30.0				
	0.5949	0.5789	0.5301	0.5310													
1,4-Dioxane	++++	0.0704	0.0772	0.0641	0.0648	Ave	0.0672				12.4		30.0				
	0.0755	0.0693	0.0656	0.0503													
Methyl methacrylate	++++	0.1885	0.1933	0.1767	0.1697	Ave	0.1818				8.3		30.0				
	0.2077	0.1857	0.1734	0.1597													
Methylcyclohexane	0.6102	0.6030	0.6065	0.5484	0.6040	Ave	0.5859				7.3		30.0				
	0.6426	0.6079	0.5440	0.5067													
4-Methyl-2-pentanone (MIBK)	++++	0.3655	0.3784	0.3208	0.3070	Ave	0.3358				10.4		30.0				
	0.3639	0.3447	0.3326	0.2737													
cis-1,3-Dichloropropene	0.3984	0.4109	0.4265	0.4178	0.4335	Ave	0.4271				5.3		30.0				
	0.4700	0.4553	0.4156	0.4160													
trans-1,3-Dichloropropene	0.3539	0.3641	0.3855	0.4035	0.4170	Ave	0.3971				6.2		30.0				
	0.4210	0.4212	0.3963	0.4118													
Toluene	0.8007	0.9159	0.8554	0.8928	0.8664	Ave	0.8458				5.6		30.0				
	0.8647	0.8496	0.7701	0.7967													
Toluene Range	++++	++++	++++	2.1046	2.0993	Ave	2.0521				3.9		30.0				
	2.1181	2.0870	1.9196	1.9840													
1,1,2-Trichloroethane	0.2348	0.2636	0.2733	0.2790	0.2774	Ave	0.2639				5.7		30.0				
	0.2735	0.2710	0.2514	0.2511													
2-Methylthiophene	0.6815	0.7661	0.7694	0.7932	0.7898	Ave	0.7600				5.5		30.0				
	0.8074	0.7869	0.7197	0.7260													
3-Methylthiophene	0.6684	0.7630	0.7608	0.7656	0.7760	Ave	0.7442				5.3		30.0				
	0.7812	0.7690	0.7053	0.7088													
2-Hexanone	++++	0.1697	0.1807	0.1651	0.1696	Ave	0.1745				6.7		30.0				
	0.1886	0.1861	0.1819	0.1546													
C8 Range	++++	++++	++++	2.9489	2.8665	Ave	2.7104				8.6		30.0				
	2.8584	2.7316	2.4877	2.3694													
Octane	0.3157	0.3121	0.2898	0.3025	0.2953	Ave	0.2900				7.4		30.0				
	0.2965	0.2859	0.2596	0.2524													
Dibromochloromethane	0.4696	0.5031	0.5108	0.5557	0.5871	Ave	0.5530				8.6		30.0				
	0.5942	0.6067	0.5742	0.5758													
1,2-Dibromoethane	0.4191	0.4665	0.4898	0.4927	0.5176	Ave	0.4876				6.8		30.0				
	0.5284	0.5174	0.4782	0.4786													
Tetrachloroethene	0.3606	0.3865	0.3667	0.3554	0.3626	Ave	0.3511				7.5		30.0				
	0.3629	0.3480	0.3108	0.3067													

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9602
 SDG No.: _____
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/24/2017 11:31 Calibration End Date: 03/24/2017 17:35 Calibration ID: 978

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													
Chlorobenzene	0.6874 0.7531	0.7527 0.7278	0.7628 0.6652	0.7572 0.6433	0.7545	Ave	0.7227				6.3		30.0				
2,3-Dimethylheptane	0.9926 0.9212	0.9800 0.8633	0.9670 0.7656	0.9662 0.6934	0.9188	Ave	0.8964				11.6		30.0				
Ethylbenzene	0.7869 0.9801	0.9923 0.9510	0.9920 0.8649	1.0936 0.9072	1.0272	Ave	0.9550				9.5		30.0				
2-Ethylthiophene	0.6477 0.8185	0.8067 0.7978	0.7933 0.7367	0.8463 0.7613	0.8261	Ave	0.7816				7.7		30.0				
m-Xylene & p-Xylene	0.5633 0.6970	0.7150 0.6827	0.7184 0.6103	0.8332 0.6346	0.7632	Ave	0.6909				11.8		30.0				
Nonane	0.6953 0.6502	0.6368 0.6091	0.6588 0.5315	0.6571 0.4615	0.6429	Ave	0.6159				11.9		30.0				
Bromoform	++++ 0.5604	0.4482 0.6413	0.4812 0.6085	0.5337 0.5728	0.5977	Ave	0.5555				11.7		30.0				
Styrene	++++ 0.5390	0.4399 0.5378	0.4762 0.4882	0.5812 0.5040	0.5630	Ave	0.5162				9.2		30.0				
o-Xylene	0.6012 0.6958	0.7361 0.6779	0.7176 0.6139	0.8600 0.6776	0.7603	Ave	0.7045				11.1		30.0				
1,1,2,2-Tetrachloroethane	0.4226 0.5090	0.4920 0.4789	0.4566 0.4199	0.5559 0.4666	0.5068	Ave	0.4787				9.1		30.0				
1,2,3-Trichloropropane	++++ 0.1230	0.1133 0.1134	0.1247 0.1055	0.1314 0.1162	0.1193	Ave	0.1184				6.8		30.0				
Isopropylbenzene	0.8145 0.8801	0.9595 0.8488	0.9380 0.7636	1.0877 0.8549	0.9255	Ave	0.8969				10.6		30.0				
Propylbenzene	0.1822 0.2395	0.2327 0.2243	0.2447 0.2066	0.2749 0.2383	0.2368	Ave	0.2311				11.1		30.0				
2-Chlorotoluene	0.2411 0.2952	0.2955 0.2850	0.3066 0.2649	0.3143 0.2663	0.3039	Ave	0.2859				8.4		30.0				
4-Ethyltoluene	0.6473 0.8178	0.8561 0.7535	0.8519 0.7067	0.8747 0.7788	0.7824	Ave	0.7855				9.5		30.0				
1,3,5-Trimethylbenzene	0.3192 0.3871	0.3768 0.3505	0.4110 0.3293	0.4114 0.3585	0.3668	Ave	0.3678				8.8		30.0				
Alpha Methyl Styrene	++++ 0.3390	0.2428 0.3379	0.2792 0.3204	0.3286 0.3673	0.3162	Ave	0.3164				12.3		30.0				
Decane	0.6447 0.7107	0.7153 0.6782	0.7111 0.6006	0.7713 0.5751	0.7372	Ave	0.6827				9.4		30.0				
tert-Butylbenzene	0.6345 0.7331	0.7715 0.6592	0.7838 0.6157	0.7759 0.6338	0.6990	Ave	0.7007				9.6		30.0				
1,2,4-Trimethylbenzene	0.5224 0.6736	0.6850 0.6041	0.7151 0.5707	0.7080 0.5791	0.6342	Ave	0.6325				10.7		30.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9602
 SDG No.: _____
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/24/2017 11:31 Calibration End Date: 03/24/2017 17:35 Calibration ID: 978

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													
sec-Butylbenzene	0.8693	1.0448	1.0791	1.0740	0.9817	Ave	0.9599				10.3		30.0				
	1.0052	0.9111	0.8380	0.8362													
1,3-Dichlorobenzene	0.5230	0.6117	0.6301	0.6499	0.6489	Ave	0.6064				7.2		30.0				
	0.6425	0.6129	0.5765	0.5622													
Benzyl chloride	0.3822	0.4555	0.5132	0.4924	0.5103	Ave	0.4970				10.2		30.0				
	0.5514	0.5243	0.5282	0.5156													
1,4-Dichlorobenzene	0.4835	0.5837	0.5955	0.6250	0.6288	Ave	0.5863				7.8		30.0				
	0.6281	0.6012	0.5668	0.5642													
4-Isopropyltoluene	0.6832	0.8045	0.8309	0.8215	0.7625	Ave	0.7599				8.3		30.0				
	0.8204	0.7398	0.7047	0.6718													
1,2,3-Trimethylbenzene	0.4256	0.5200	0.5387	0.5068	0.4824	Ave	0.4800				8.4		30.0				
	0.5065	0.4579	0.4416	0.4405													
Butylcyclohexane	0.8256	0.8424	0.8532	0.8743	0.8623	Ave	0.8128				8.2		30.0				
	0.8474	0.8060	0.7226	0.6811													
1,2-Dichlorobenzene	0.4729	0.5732	0.5775	0.6215	0.5907	Ave	0.5458				9.5		30.0				
	0.5639	0.5325	0.4893	0.4910													
Indane	0.5583	0.6674	0.6895	0.7231	0.6522	Ave	0.6332				9.3		30.0				
	0.6623	0.5986	0.5596	0.5874													
Indene	++++	0.4126	0.4251	0.4455	0.4359	Ave	0.4315				3.8		30.0				
	0.4632	0.4279	0.4164	0.4250													
Butylbenzene	0.7454	0.8072	0.8308	0.8039	0.7547	Ave	0.7501				9.4		30.0				
	0.8025	0.7086	0.6823	0.6154													
Undecane	0.5495	0.6112	0.6289	0.6857	0.6475	Ave	0.6033				9.0		30.0				
	0.6454	0.5904	0.5357	0.5359													
1,2-Dimethyl-4-Ethylbenzene	0.5418	0.5714	0.5833	0.5613	0.5456	Ave	0.5459				6.6		30.0				
	0.5908	0.5237	0.5188	0.4765													
1,2-Dibromo-3-Chloropropane	0.1448	0.1412	0.1538	0.1579	0.1745	Ave	0.1668				10.6		30.0				
	0.1797	0.1803	0.1910	0.1778													
1,2,4,5-Tetramethylbenzene	0.6288	0.6797	0.6617	0.6285	0.6244	Ave	0.6287				6.9		30.0				
	0.6794	0.6103	0.6055	0.5402													
1,2,3,5-Tetramethylbenzene	0.4635	0.4271	0.4094	0.3969	0.3886	Ave	0.3993				8.9		30.0				
	0.4178	0.3762	0.3743	0.3398													
1,2,3,4-Tetramethylbenzene	0.6198	0.5448	0.5270	0.4929	0.5160	Ave	0.5177				9.7		30.0				
	0.5377	0.4903	0.4939	0.4371													
Dodecane	0.4746	0.5108	0.5123	0.4917	0.5820	Ave	0.5120				9.4		30.0				
	0.5868	0.5172	0.4984	0.4346													
1,2,4-Trichlorobenzene	0.2048	0.2779	0.2762	0.2783	0.3218	Ave	0.2975				14.6		30.0				
	0.3423	0.3098	0.3290	0.3374													
Naphthalene	0.4024	0.5424	0.5540	0.5069	0.5999	Ave	0.5520				12.5		30.0				
	0.6424	0.5733	0.6044	0.5422													

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9602
 SDG No.: _____
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 03/24/2017 11:31 Calibration End Date: 03/24/2017 17:35 Calibration ID: 978

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													
Benzo(b)thiophene	+++++	0.2356	0.2502	0.2390	0.2903	Ave		0.2783			11.7		30.0				
	0.3159	0.2849	0.3168	0.2936													
Hexachlorobutadiene	0.5411	0.5578	0.5030	0.5679	0.5859	Ave		0.5245			8.5		30.0				
	0.5395	0.4999	0.4679	0.4577													
1,2,3-Trichlorobenzene	0.2483	0.2853	0.2816	0.2540	0.3100	Ave		0.2818			8.1		30.0				
	0.3159	0.2792	0.2919	0.2695													
2-Methylnaphthalene	+++++	0.0266	0.0279	0.0236	0.0436	Ave		0.0371			26.1		50.0				
	0.0466	0.0421	0.0478	0.0383													
1-Methylnaphthalene	+++++	0.0382	0.0360	0.0257	0.0499	Ave		0.0406			20.2		50.0				
	0.0495	0.0429	0.0461	0.0361													
4-Bromofluorobenzene (Surr)	0.6800	0.6771	0.6825	0.7066	0.6934	Ave		0.6982			2.2		30.0				
	0.7154	0.7048	0.7129	0.7114													

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9602

SDG No.: _____

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

Calibration Start Date: 03/24/2017 11:31 Calibration End Date: 03/24/2017 17:35 Calibration ID: 978

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-9602/2	JC24IC01.D
Level 2	IC 140-9602/3	JC24IC02.D
Level 3	IC 140-9602/4	JC24IC03.D
Level 4	IC 140-9602/5	JC24IC04.D
Level 5	IC 140-9602/6	JC24IC05.D
Level 6	ICIS 140-9602/7	JC24IC06.D
Level 7	IC 140-9602/8	JC24IC07.D
Level 8	IC 140-9602/9	JC24IC08.D
Level 9	IC 140-9602/10	JC24IC09.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Chlorodifluoromethane	CBM	Ave	+++++ 43402	1816 85529	3288 169716	8143 335135	21639	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Propene	CBM	Ave	+++++ 146518	7367 283520	12999 554396	30076 1045688	75414	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	8940 433589	17833 851279	34614 1676054	84716 3228972	219695	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	+++++ 45432	+++++ 88555	4584 171125	10425 331742	24297	+++++ 2.00	+++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichlorotetrafluoroethane	CBM	Ave	4214 180886	8260 365483	15788 729958	33898 1351025	108588	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	+++++ 209476	+++++ 388595	+++++ 730718	63260 1634496	125535	+++++ 9.99	+++++ 20.0	+++++ 40.0	2.00 80.0	5.01
Vinyl chloride	CBM	Ave	2623 139468	6110 275832	11078 539544	26865 1092378	72316	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	2047 104197	4651 206478	8180 396694	20141 811868	53423	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butane	CBM	Ave	4094 207548	9657 406745	17381 766368	41221 1560166	108245	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	3027 122542	5943 248962	10225 484577	23692 980840	63511	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	+++++ 58830	2249 117703	4479 227756	11063 464349	31052	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	+++++ 146657	7551 275139	13934 528666	31436 922606	72742	+++++ 9.99	0.392 20.0	0.794 40.0	2.00 80.0	5.01
Vinyl bromide	CBM	Ave	2144 113140	4898 231133	8752 452410	20516 919063	58059	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	+++++ 180221	9821 366269	16651 700105	31515 1412761	96238	+++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

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

Lab Name: TestAmerica Knoxville

Job No.: 140-7503-1

Analy Batch No.: 9602

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/24/2017 11:31

Calibration End Date: 03/24/2017 17:35

Calibration ID: 978

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	7305 399106	17621 815022	31820 1578566	68858 3169455	208467	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	++++ 30387	++++ 65230	++++ 102471	++++ 290691	17846	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	++++ 43287	++++ 81334	++++ 143017	++++ 376004	20225	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	++++ 128336	++++ 223745	++++ 399470	++++ 841632	66610	++++ 5.87	++++ 11.7	++++ 23.5	1.17 47.0	2.94
Isopropyl alcohol	CBM	Ave	9546 514406	22799 992211	44045 1931000	112034 3307384	247537	0.115 5.87	0.230 11.7	0.466 23.5	1.17 47.0	2.94
Pentane	CBM	Ave	++++ 23356	++++ 48246	++++ 90887	++++ 179088	12170	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	++++ 132014	++++ 258181	++++ 478285	++++ 1079497	71239	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	2942 152708	6392 312906	12020 603327	26528 1231917	79076	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	++++ 73008	++++ 146018	++++ 252183	++++ 667216	39574	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
t-Butyl alcohol	CBM	Ave	3419 193347	7915 383148	15742 780014	34537 1395017	92261	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,2-Trichlorotrifluoroethane	CBM	Ave	6020 328597	13845 654655	25307 1263946	58673 2483416	170020	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	++++ 147376	++++ 284917	++++ 548763	++++ 1078459	79092	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	++++ 160663	++++ 304356	++++ 576469	++++ 1151910	77620	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	8234 449551	19390 903118	34834 1718809	79950 3490363	228634	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	2922 157327	6345 318056	12101 616200	28394 1211127	82007	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	7434 359539	15800 714622	28715 1372731	65747 2613669	188220	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	3552 234466	10332 449702	19363 852718	49779 1908670	117931	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	5594 302332	13104 605318	23795 1169271	58937 2334013	159357	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	++++ 245483	++++ 465416	++++ 815240	++++ 2227273	122602	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Butanone	CBM	Ave	++++ 38362	++++ 69526	++++ 135045	++++ 233393	18341	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	2527 135250	5541 268736	10486 523745	24433 1030279	69696	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

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

Lab Name: TestAmerica Knoxville

Job No.: 140-7503-1

Analy Batch No.: 9602

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/24/2017 11:31

Calibration End Date: 03/24/2017 17:35

Calibration ID: 978

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Isopropyl ether	CBM	Ave	++++ 328842	14202 622559	27934 1200487	69892 2570530	162367	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	3108 163904	6589 329150	12795 631283	30938 1271241	84853	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	2791 187852	7938 345012	16107 661850	37413 1226388	88516	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	6386 330631	14591 655318	27094 1238922	65567 2533326	174118	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tert-butyl ethyl ether	CBM	Ave	3957 271417	11499 512444	22939 1013817	55616 2068493	131813	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	1603 104869	4385 196593	8885 371130	21267 810678	50465	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	6524 351407	14495 706900	27357 1345848	65774 2726347	180553	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFBZ	Ave	3908 222582	8900 442977	17815 848176	43197 1745806	116036	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1-Butanol	DFBZ	Ave	++++ 42083	1485 84359	3158 172486	7450 299753	19278	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Cyclohexane	DFBZ	Ave	1150 74470	2763 149186	5458 278583	13196 524740	38721	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzene	DFBZ	Ave	9899 437140	20840 855015	37205 1586431	89218 3035346	230160	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFBZ	Ave	6025 362372	14474 732758	27498 1387515	63856 2735035	186656	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFBZ	Ave	1523 102755	4385 202681	7907 381951	18484 757792	52446	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Thiophene	DFBZ	Ave	4700 257056	10711 514735	20637 970981	51210 1976083	135457	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tert-amyl methyl ether	CBZd 5	Ave	++++ 235550	9173 439396	17071 876189	47123 1663304	112168	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFBZ	Ave	15676 778312	34154 1527164	64818 2839517	150029 5589142	408197	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Heptane	DFBZ	Ave	2893 150262	6455 296746	12558 557129	28922 1108390	79541	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFBZ	Ave	2635 166887	7160 337576	13224 638984	32959 1304842	89216	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Trichloroethene	DFBZ	Ave	4730 248507	10208 489195	21113 932122	46534 1707390	125422	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dibromomethane	DFBZ	Ave	3411 194031	7830 376491	15419 710629	36329 1424109	99583	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Bromodichloromethane	DFBZ	Ave	5205 321832	12595 647712	24774 1247198	60187 2573564	166313	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

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

Lab Name: TestAmerica Knoxville

Job No.: 140-7503-1

Analy Batch No.: 9602

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/24/2017 11:31

Calibration End Date: 03/24/2017 17:35

Calibration ID: 978

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
1,4-Dioxane	DFBZ	Ave	++++ 40831	1683 77550	3551 154334	7383 243836	19508	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methyl methacrylate	DFBZ	Ave	++++ 112353	4505 207785	8889 407854	20366 773766	51104	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methylcyclohexane	DFBZ	Ave	6272 347625	14410 680111	27890 1279709	63189 2455783	181878	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	++++ 196853	8735 385671	17401 782519	36967 1326528	92449	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFBZ	Ave	4095 254283	9819 509357	19614 977793	48146 2016227	130533	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
trans-1,3-Dichloropropene	CBZd 5	Ave	3377 222209	7869 454066	16374 899809	41552 1883809	115599	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Toluene	CBZd 5	Ave	7642 456364	19797 915773	36334 1748504	91946 3644860	240173	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Toluene Range	CBZd 5	Ave	++++ 1117814	++++ 2249708	++++ 4358144	++++ 9076964	581924	++++ 2.00	++++ 4.00	++++ 8.00	++++ 16.0	1.00
1,1,2-Trichloroethane	CBZd 5	Ave	2241 144323	5698 292125	11608 570770	28730 1148949	76895	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZd 5	Ave	6504 426102	16558 848277	32680 1634059	81695 3321530	218937	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZd 5	Ave	6379 412267	16491 828956	32317 1601255	78853 3242609	215106	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Hexanone	CBZd 5	Ave	++++ 99511	3667 200606	7674 413064	17005 707229	47006	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
C8 Range	CBZd 5	Ave	++++ 1508522	++++ 2944501	++++ 5647961	303706 10840031	794616	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Octane	CBZd 5	Ave	3013 156495	6745 308131	12310 589410	31157 1154854	81847	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZd 5	Ave	4482 313571	10874 653988	21697 1303695	57234 2634433	162740	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dibromoethane	CBZd 5	Ave	4000 278847	10084 557685	20806 1085693	50743 2189748	143468	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZd 5	Ave	3441 191531	8353 375100	15577 705657	36604 1403388	100522	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chlorobenzene	CBZd 5	Ave	6560 397449	16269 784490	32400 1510186	77984 2942999	209153	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZd 5	Ave	9473 486182	21181 930604	41073 1738139	99511 3172200	254690	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethylbenzene	CBZd 5	Ave	7510 517252	21447 1025077	42135 1963698	112625 4150627	284749	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZd 5	Ave	6181 431981	17436 859967	33699 1672512	87162 3483070	228997	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

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

Lab Name: TestAmerica Knoxville

Job No.: 140-7503-1

Analy Batch No.: 9602

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/24/2017 11:31

Calibration End Date: 03/24/2017 17:35

Calibration ID: 978

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
m-Xylene & p-Xylene	CBZd 5	Ave	10752 735710	30909 1471883	61033 2771180	171615 5806752	423132	0.0784 4.00	0.157 8.00	0.317 16.0	0.800 32.0	2.00
Nonane	CBZd 5	Ave	6636 343171	13763 656530	27982 1206806	67679 2111184	178214	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Bromoform	CBZd 5	Ave	++++ 295766	9687 691238	20439 1381449	54967 2620482	165698	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Styrene	CBZd 5	Ave	++++ 284470	9509 579696	20227 1108413	59858 2306046	156076	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
o-Xylene	CBZd 5	Ave	5738 367193	15911 730773	30482 1393893	88569 3100029	210753	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	4033 268605	10635 516240	19396 953336	57251 2134850	140499	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3-Trichloropropane	CBZd 5	Ave	++++ 64921	2448 122279	5296 239633	13537 531499	33077	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZd 5	Ave	7773 464464	20738 914971	39844 1733562	112022 3911212	256542	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Propylbenzene	CBZd 5	Ave	1739 126374	5030 241768	10395 468955	28314 1090460	65645	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZd 5	Ave	2301 155813	6386 307196	13023 601349	32367 1218343	84237	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZd 5	Ave	6178 431615	18503 812221	36185 1604596	90088 3563117	216891	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZd 5	Ave	3046 204275	8144 377863	17459 747534	42367 1640005	101677	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZd 5	Ave	++++ 178912	5248 364260	11861 727504	33847 1680241	87652	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Decane	CBZd 5	Ave	6153 375067	15461 731024	30204 1363686	79439 2630997	204347	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZd 5	Ave	6055 386891	16675 710529	33295 1397875	79912 2899542	193770	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZd 5	Ave	4986 355471	14806 651135	30374 1295741	72913 2649356	175803	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZd 5	Ave	8296 530500	22583 982166	45836 1902507	110612 3825733	272134	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZd 5	Ave	4991 339062	13221 660724	26765 1308965	66929 2571995	179883	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzyl chloride	CBZd 5	Ave	3648 291022	9846 565161	21798 1199154	50707 2359025	141453	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZd 5	Ave	4614 331460	12616 648039	25293 1286956	64366 2581388	174308	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZd 5	Ave	6520 432952	17388 797486	35295 1599862	84609 3073644	211366	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00

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

Lab Name: TestAmerica Knoxville

Job No.: 140-7503-1

Analy Batch No.: 9602

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/24/2017 11:31

Calibration End Date: 03/24/2017 17:35

Calibration ID: 978

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
1,2,3-Trimethylbenzene	CBZd 5	Ave	4062 267294	11240 493601	22881 1002550	52195 2015135	133728	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZd 5	Ave	7879 447237	18208 868816	36240 1640613	90046 3116127	239041	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZd 5	Ave	4513 297580	12390 574045	24531 1111009	64009 2246516	163731	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Indane	CBZd 5	Ave	5328 349528	14426 645298	29289 1270545	74472 2687490	180784	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Indene	CBZd 5	Ave	++++ 244429	8918 461247	18059 945358	45883 1944503	120836	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butylbenzene	CBZd 5	Ave	7114 423537	17448 763788	35291 1549140	82788 2815357	209196	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Undecane	CBZd 5	Ave	5244 340608	13210 636409	26713 1216179	70617 2451756	179487	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZd 5	Ave	5171 311817	12350 564527	24778 1177906	57805 2179865	151244	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dibromo-3-Chloropropane	CBZd 5	Ave	1382 94829	3052 194383	6532 433759	16264 813480	48361	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,4,5-Tetramethylbenzene	CBZd 5	Ave	6001 358561	14691 657901	28106 1374659	64731 2471667	173093	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3,5-Tetramethylbenzene	CBZd 5	Ave	4423 220501	9231 405521	17391 849841	40879 1554582	107734	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZd 5	Ave	5915 283775	11776 528556	22386 1121362	50767 1999910	143031	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dodecane	CBZd 5	Ave	4529 309677	11041 557521	21762 1131558	50636 1988165	161335	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZd 5	Ave	1955 180641	6006 333949	11734 746955	28658 1543505	89202	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Naphthalene	CBZd 5	Ave	3840 339004	11724 618026	23534 1372304	52201 2480762	166284	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZd 5	Ave	++++ 166740	5093 307143	10627 719374	24613 1343287	80463	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZd 5	Ave	5164 284742	12057 538916	21366 1062355	58489 2093974	162409	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZd 5	Ave	2370 166727	6166 300947	11962 662625	26163 1233209	85944	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZd 5	Ave	++++ 74396	1737 137333	3586 328431	7339 530404	36589	++++ 6.04	0.237 12.1	0.480 24.2	1.21 48.4	3.03
1-Methylnaphthalene	CBZd 5	Ave	++++ 78987	2497 139874	4628 316908	8021 499473	41884	++++ 6.04	0.237 12.1	0.480 24.2	1.21 48.4	3.03
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	662043 755928	746526 759541	730689 809058	727612 813488	767497	4.00 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1 Analy Batch No.: 9602
SDG No.: _____
Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/24/2017 11:31 Calibration End Date: 03/24/2017 17:35 Calibration ID: 978

Curve Type Legend:

Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC01.D
 Lims ID: IC L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-Mar-2017 11:31:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004355-002
 Misc. Info.: 083683
 Operator ID: 007126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 11:47:55 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh

Date: 24-Mar-2017 12:57:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.551	8.549	0.002	96	235269	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.746	10.746	0.000	95	1048575	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.523	15.525	-0.002	88	973624	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.175	17.172	0.003	94	662043	4.00	3.90	
6 Chlorodifluoromethane	67	3.570	3.563	0.007	93	570	0.0392	0.0289	
7 Propene	41	3.575	3.572	0.003	94	4164	0.0392	0.0597	
8 Dichlorodifluoromethane	85	3.629	3.621	0.008	99	8940	0.0392	0.0443	
9 Chloromethane	52	3.807	3.795	0.012	50	994	0.0392	0.0449	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.807	3.799	0.008	94	4214	0.0392	0.0472	
11 Acetaldehyde	44	3.946	3.940	0.006	99	16283	0.1960	0.7687	
12 Vinyl chloride	62	3.963	3.955	0.008	95	2623	0.0392	0.0403	
14 Butadiene	54	4.038	4.037	0.001	68	2047	0.0392	0.0420	
13 Butane	43	4.043	4.038	0.005	82	4094	0.0392	0.0418	
15 Bromomethane	94	4.345	4.343	0.001	92	3027	0.0392	0.0499	
16 Chloroethane	64	4.484	4.477	0.007	84	1021	0.0392	0.0381	
17 Ethanol	31	4.576	4.568	0.008	93	3710	0.1960	0.2675	
18 Vinyl bromide	106	4.764	4.762	0.002	98	2144	0.0392	0.0406	
19 2-Methylbutane	43	4.813	4.811	0.002	90	5348	0.0392	0.0609	
20 Trichlorofluoromethane	101	5.033	5.022	0.011	96	7305	0.0392	0.0395	
23 Acetone	58	5.168	5.150	0.018	97	3397	0.1151	0.1721	
24 Isopropyl alcohol	45	5.254	5.228	0.026	91	9546	0.1151	0.1181	
26 Ethyl ether	31	5.426	5.407	0.019	88	1719	0.0392	0.0276	
27 1,1-Dichloroethene	96	5.706	5.707	-0.001	96	2942	0.0392	0.0415	
28 2-Methyl-2-propanol	59	5.845	5.808	0.037	88	3419	0.0392	0.0392	
30 1,1,2-Trichloro-1,2,2-trif	101	5.883	5.878	0.005	97	6020	0.0392	0.0402	
31 Methylene Chloride	84	6.044	6.043	0.001	98	8170	0.0392	0.1124	
32 3-Chloro-1-propene	39	6.061	6.059	0.002	95	3757	0.0392	0.0528	
33 Carbon disulfide	76	6.211	6.203	0.008	99	8234	0.0392	0.0400	
34 trans-1,2-Dichloroethene	96	6.841	6.838	0.003	94	2922	0.0392	0.0406	
35 2-Methylpentane	43	6.857	6.854	0.003	93	7434	0.0392	0.0444	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
36 Methyl tert-butyl ether	73	6.997	6.977	0.020	90	3552	0.0392	0.0330	
37 1,1-Dichloroethane	63	7.249	7.249	0.000	94	5594	0.0392	0.0397	
38 Vinyl acetate	43	7.362	7.359	0.003	98	3107	0.0392	0.0271	
40 Hexane	56	7.825	7.821	0.004	91	2527	0.0392	0.0409	
42 cis-1,2-Dichloroethene	96	8.218	8.220	-0.002	90	3108	0.0392	0.0412	
43 Ethyl acetate	43	8.444	8.423	0.021	89	2791	0.0392	0.0339	
44 Chloroform	83	8.562	8.561	0.001	34	6386	0.0392	0.0411	
45 Tert-butyl ethyl ether	59	8.686	8.662	0.024	92	3957	0.0392	0.0324	
46 Tetrahydrofuran	42	9.014	8.989	0.025	76	1603	0.0392	0.0340	
47 1,1,1-Trichloroethane	97	9.584	9.579	0.005	92	6524	0.0392	0.0404	
48 1,2-Dichloroethane	62	9.692	9.691	0.001	90	3908	0.0392	0.0391	
50 Cyclohexane	69	10.187	10.185	0.002	77	1150	0.0392	0.0363	
51 Benzene	78	10.192	10.186	0.006	94	9899	0.0392	0.0482	
52 Carbon tetrachloride	117	10.208	10.210	-0.002	95	6025	0.0392	0.0380	
53 2,3-Dimethylpentane	71	10.316	10.313	0.003	87	1523	0.0392	0.0342	
54 Thiophene	84	10.461	10.464	-0.003	92	4700	0.0392	0.0403	
56 Isooctane	57	10.961	10.965	-0.004	97	15676	0.0392	0.0442	
57 n-Heptane	71	11.359	11.353	0.006	92	2893	0.0392	0.0423	
58 1,2-Dichloropropane	63	11.429	11.430	-0.001	89	2635	0.0392	0.0351	
59 Trichloroethene	130	11.462	11.466	-0.004	92	4730	0.0392	0.0426	
60 Dibromomethane	93	11.553	11.549	0.004	97	3411	0.0392	0.0399	
62 Dichlorobromomethane	83	11.698	11.699	-0.001	94	5205	0.0392	0.0366	
63 Methyl methacrylate	41	11.817	11.811	0.006	51	1294	0.0392	0.0271	
64 Methylcyclohexane	83	12.247	12.246	0.001	92	6272	0.0392	0.0408	
66 cis-1,3-Dichloropropene	75	12.715	12.717	-0.002	90	4095	0.0392	0.0366	
67 trans-1,3-Dichloropropene	75	13.420	13.421	-0.001	93	3377	0.0392	0.0349	
68 Toluene	91	13.538	13.542	-0.004	92	7642	0.0392	0.0371	
69 1,1,2-Trichloroethane	83	13.624	13.621	0.003	91	2241	0.0392	0.0349	
70 2-Methylthiophene	97	13.694	13.695	-0.001	95	6504	0.0392	0.0352	
71 3-Methylthiophene	97	13.893	13.897	-0.004	96	6379	0.0392	0.0352	
73 n-Octane	85	14.243	14.244	-0.001	93	3013	0.0392	0.0427	
74 Chlorodibromomethane	129	14.323	14.325	-0.002	95	4482	0.0392	0.0333	
75 Ethylene Dibromide	107	14.614	14.616	-0.002	96	4000	0.0392	0.0337	
76 Tetrachloroethene	129	14.689	14.690	-0.001	93	3441	0.0392	0.0403	
78 Chlorobenzene	112	15.571	15.573	-0.002	92	6560	0.0392	0.0373	
77 2,3-Dimethylheptane	43	15.604	15.601	0.003	95	9473	0.0392	0.0434	
79 Ethylbenzene	91	15.867	15.866	0.001	96	7510	0.0392	0.0323	
80 2-Ethylthiophene	97	15.964	15.967	-0.003	96	6181	0.0392	0.0325	
81 m-Xylene & p-Xylene	91	16.029	16.029	0.000	98	10752	0.0784	0.0639	
82 n-Nonane	57	16.454	16.456	-0.002	90	6636	0.0392	0.0443	
83 Bromoform	173	16.475	16.474	0.001	94	3858	0.0392	0.0285	
84 Styrene	104	16.491	16.494	-0.003	94	3281	0.0392	0.0261	
85 o-Xylene	91	16.556	16.555	0.001	95	5738	0.0392	0.0335	
86 1,1,2,2-Tetrachloroethane	83	16.879	16.880	-0.001	91	4033	0.0392	0.0346	
87 1,2,3-Trichloropropane	110	17.040	17.039	0.001	88	727	0.0392	0.0252	
88 Isopropylbenzene	105	17.142	17.143	-0.001	94	7773	0.0392	0.0356	
89 N-Propylbenzene	120	17.686	17.690	-0.004	98	1739	0.0392	0.0309	
90 2-Chlorotoluene	126	17.729	17.733	-0.004	94	2301	0.0392	0.0331	
91 4-Ethyltoluene	105	17.847	17.845	0.002	97	6178	0.0392	0.0323	
92 1,3,5-Trimethylbenzene	120	17.922	17.920	0.002	93	3046	0.0392	0.0340	
93 Alpha Methyl Styrene	118	18.154	18.154	0.000	91	1900	0.0392	0.0247	
94 n-Decane	57	18.218	18.218	0.000	89	6153	0.0392	0.0370	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
95 tert-Butylbenzene	119	18.347	18.349	-0.002	89	6055	0.0392	0.0355	
96 1,2,4-Trimethylbenzene	105	18.363	18.364	-0.001	92	4986	0.0392	0.0324	
97 sec-Butylbenzene	105	18.622	18.623	-0.001	97	8296	0.0392	0.0355	
98 1,3-Dichlorobenzene	146	18.638	18.636	0.002	95	4991	0.0392	0.0338	
99 Benzyl chloride	91	18.713	18.712	0.001	69	3648	0.0392	0.0302	
100 1,4-Dichlorobenzene	146	18.724	18.724	0.000	92	4614	0.0392	0.0323	
101 4-Isopropyltoluene	119	18.788	18.788	0.000	95	6520	0.0392	0.0352	
102 1,2,3-Trimethylbenzene	105	18.837	18.839	-0.002	94	4062	0.0392	0.0348	
103 Butylcyclohexane	83	18.896	18.897	-0.001	92	7879	0.0392	0.0398	
105 1,2-Dichlorobenzene	146	19.084	19.087	-0.003	90	4513	0.0392	0.0340	
104 2,3-Dihydroindene	117	19.090	19.087	0.003	92	5328	0.0392	0.0346	
107 Indene	116	19.219	19.219	0.000	89	2859	0.0392	0.0272	
106 n-Butylbenzene	91	19.229	19.227	0.002	96	7114	0.0392	0.0390	
108 Undecane	57	19.547	19.546	0.001	93	5244	0.0392	0.0357	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.601	19.602	-0.001	95	5171	0.0392	0.0389	
110 1,2-Dibromo-3-Chloropropan	157	19.698	19.698	0.000	83	1382	0.0392	0.0340	
111 1,2,4,5-Tetramethylbenzene	119	19.988	19.989	-0.001	95	6001	0.0392	0.0392	
112 1,2,3,5-Tetramethylbenzene	119	20.047	20.044	0.003	93	4423	0.0392	0.0455	
113 1,2,3,4-Tetramethylbenzene	119	20.440	20.440	0.000	94	5915	0.0392	0.0469	
114 Dodecane	57	20.607	20.607	0.000	89	4529	0.0392	0.0363	
115 1,2,4-Trichlorobenzene	180	20.795	20.796	-0.001	85	1955	0.0392	0.0270	
116 Naphthalene	128	20.940	20.937	0.003	97	3840	0.0392	0.0286	
117 Benzo(b)thiophene	134	21.042	21.042	0.000	93	1752	0.0392	0.0259	
118 Hexachlorobutadiene	225	21.155	21.157	-0.002	92	5164	0.0392	0.0404	
119 1,2,3-Trichlorobenzene	180	21.231	21.227	0.004	89	2370	0.0392	0.0346	
120 2-Methylnaphthalene	142	21.919	21.921	-0.002	75	465	0.1186	0.0515	
121 1-Methylnaphthalene	142	22.048	22.049	-0.001	88	792	0.1186	0.0802	
A 124 Toluene Range	1	13.538	(13.508-13.568)		0	16310	0.0392	0.0327	
A 125 C8 Range	1	14.248	(14.231-14.280)		0	27892	0.0392	0.0423	
S 126 Xylenes, Total	100				0		0.1176	0.0974	
S 127 1,2-Dichloroethene, Total	1				0		0.0784	0.0818	

Reagents:

40L12DNP_00010

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC01.D

Injection Date: 24-Mar-2017 11:31:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: IC L1

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

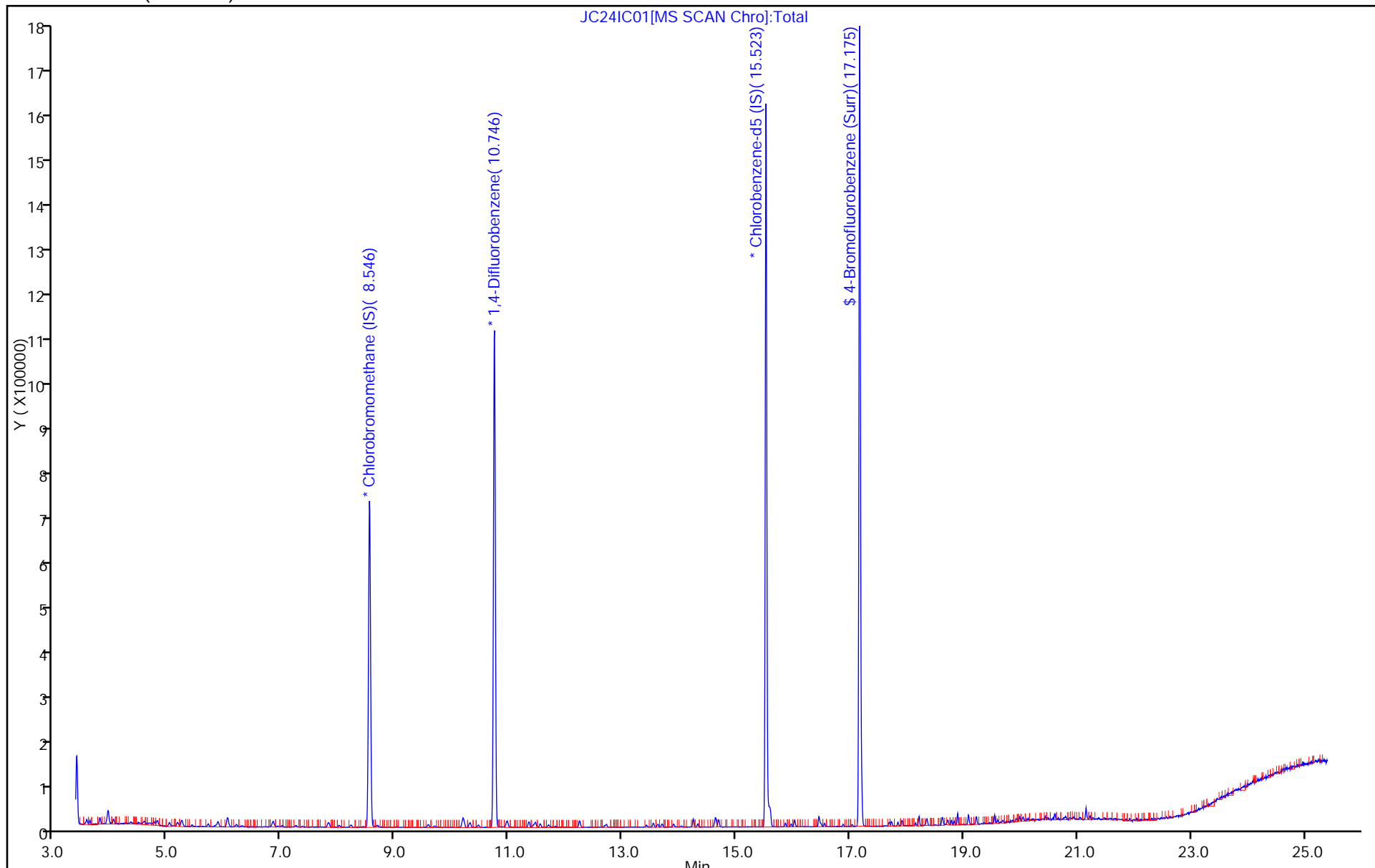
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC01.D

Injection Date: 24-Mar-2017 11:31:30

Instrument ID: MJ

Lims ID: IC L1

Client ID:

Operator ID: 007126

ALS Bottle#: 1

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

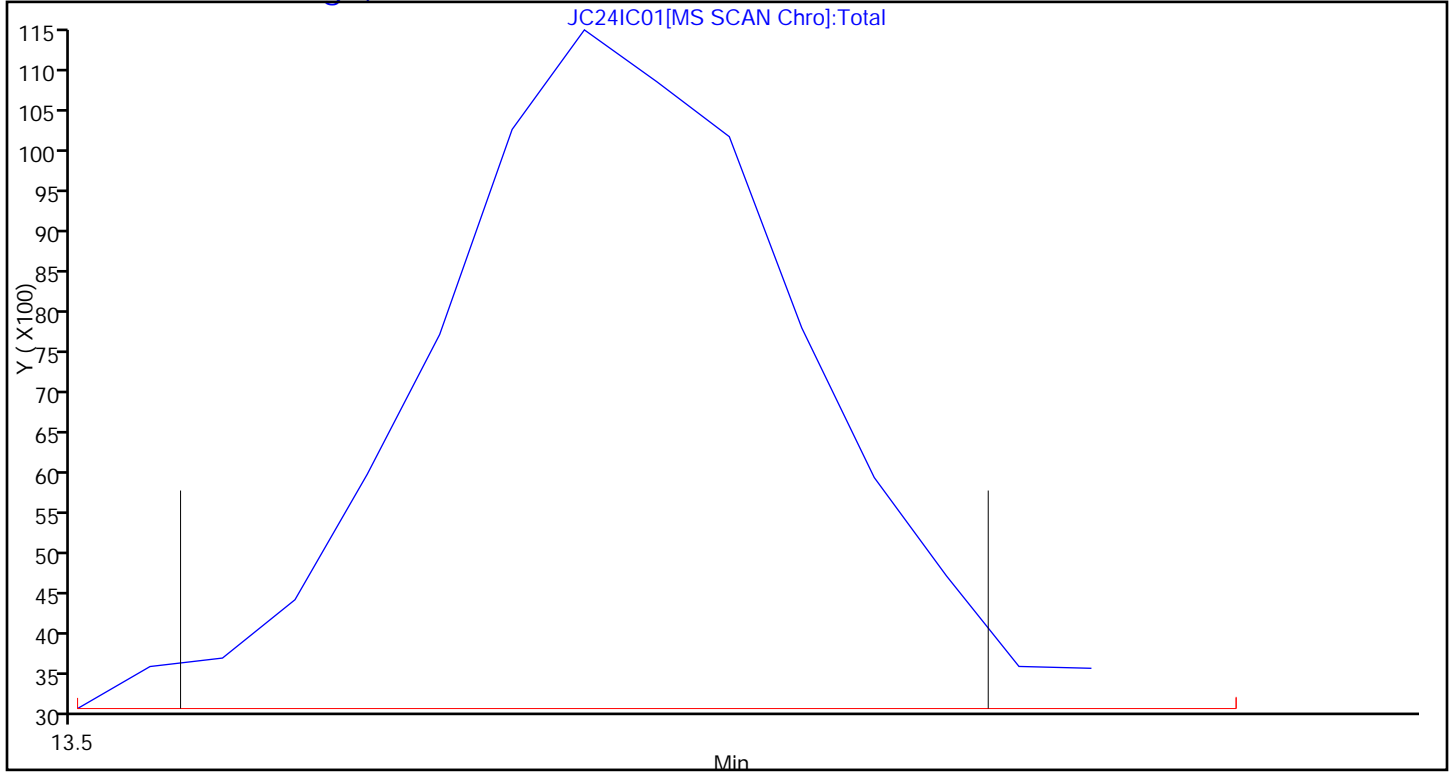
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC01.D

Injection Date: 24-Mar-2017 11:31:30

Instrument ID: MJ

Lims ID: IC L1

Client ID:

Operator ID: 007126

ALS Bottle#: 1

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

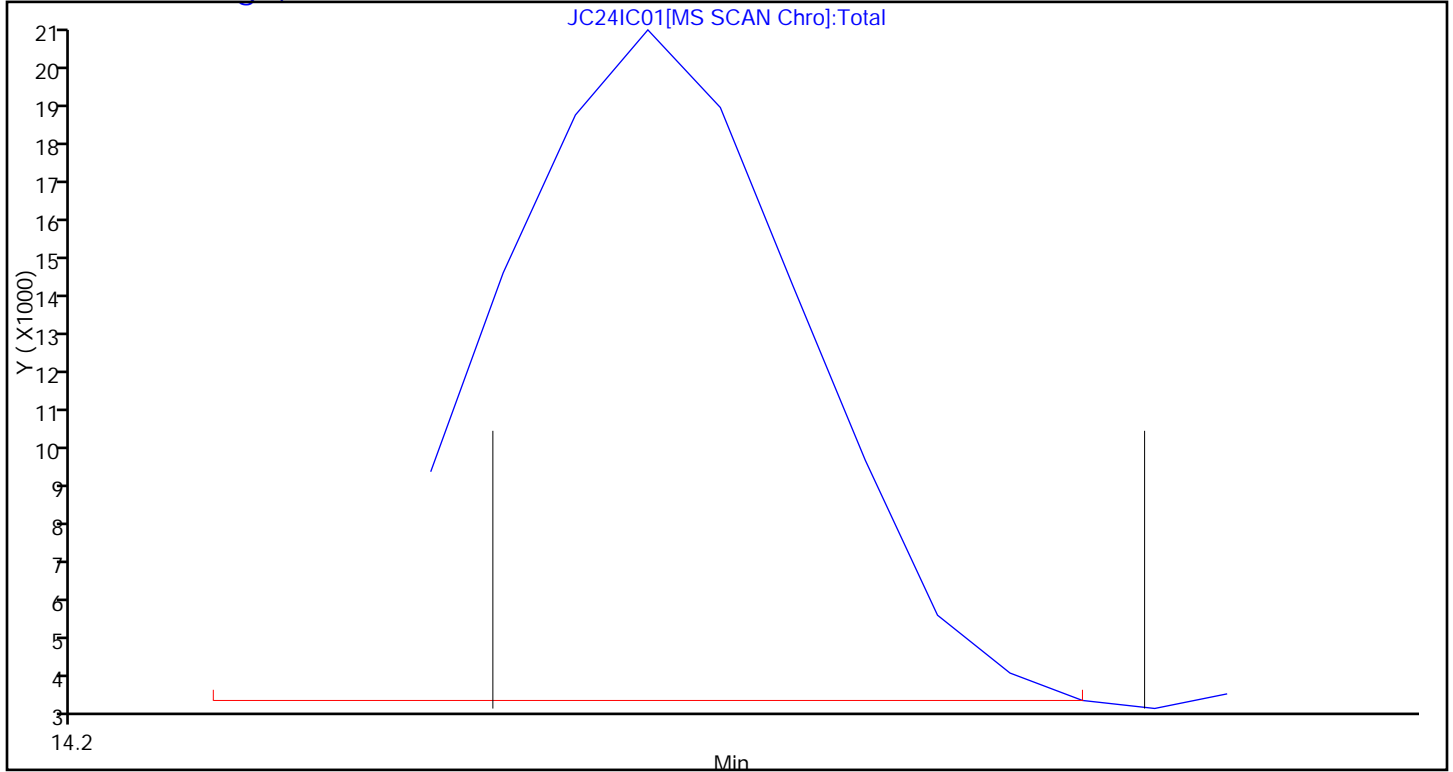
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC02.D
 Lims ID: IC L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-Mar-2017 12:16:30 ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004355-003
 Misc. Info.: 083683
 Operator ID: 007126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 11:48:08 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh

Date: 24-Mar-2017 13:21:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.546	8.549	-0.003	96	269209	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.741	10.746	-0.005	95	1219011	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.523	15.525	-0.002	88	1102529	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.170	17.172	-0.002	95	746526	4.00	3.88	
6 Chlorodifluoromethane	67	3.559	3.563	-0.004	96	1816	0.0784	0.0803	
7 Propene	41	3.570	3.572	-0.002	98	7367	0.0784	0.0923	
8 Dichlorodifluoromethane	85	3.619	3.621	-0.002	99	17833	0.0784	0.0773	
9 Chloromethane	52	3.796	3.795	0.001	64	3339	0.0784	0.1319	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.796	3.799	-0.003	90	8260	0.0784	0.0808	
11 Acetaldehyde	44	3.941	3.940	0.001	100	28617	0.3921	1.18	
12 Vinyl chloride	62	3.952	3.955	-0.003	95	6110	0.0784	0.0821	
14 Butadiene	54	4.033	4.037	-0.004	65	4651	0.0784	0.0834	
13 Butane	43	4.033	4.038	-0.005	85	9657	0.0784	0.0861	
15 Bromomethane	94	4.345	4.343	0.002	95	5943	0.0784	0.0856	
16 Chloroethane	64	4.474	4.477	-0.003	95	2249	0.0784	0.0734	
17 Ethanol	31	4.565	4.568	-0.003	95	7551	0.3921	0.4758	
18 Vinyl bromide	106	4.759	4.762	-0.003	96	4898	0.0784	0.0811	
19 2-Methylbutane	43	4.813	4.811	0.002	91	9821	0.0784	0.0978	
20 Trichlorofluoromethane	101	5.017	5.022	-0.005	99	17621	0.0784	0.0832	
21 Acrolein	56	5.028	5.034	-0.006	26	1482	0.0784	0.0806	
22 Acetonitrile	40	5.098	5.098	0.000	96	2285	0.0784	0.0983	
23 Acetone	58	5.152	5.150	0.002	98	10120	0.2303	0.4479	
24 Isopropyl alcohol	45	5.232	5.228	0.004	77	22799	0.2303	0.2464	
25 Pentane	72	5.227	5.233	-0.006	83	761	0.0784	0.0633	
26 Ethyl ether	31	5.415	5.407	0.008	93	5409	0.0784	0.0759	
27 1,1-Dichloroethene	96	5.711	5.707	0.004	96	6392	0.0784	0.0788	
28 2-Methyl-2-propanol	59	5.819	5.808	0.011	92	7915	0.0784	0.0793	
29 Acrylonitrile	53	5.808	5.809	-0.001	88	2852	0.0784	0.0710	
30 1,1,2-Trichloro-1,2,2-trif	101	5.873	5.878	-0.005	97	13845	0.0784	0.0808	
31 Methylene Chloride	84	6.039	6.043	-0.004	99	12071	0.0784	0.1451	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.050	6.059	-0.009	94	6915	0.0784	0.0849	
33 Carbon disulfide	76	6.201	6.203	-0.002	99	19390	0.0784	0.0824	
34 trans-1,2-Dichloroethene	96	6.836	6.838	-0.002	97	6345	0.0784	0.0770	
35 2-Methylpentane	43	6.852	6.854	-0.002	95	15800	0.0784	0.0824	
36 Methyl tert-butyl ether	73	6.986	6.977	0.009	96	10332	0.0784	0.0838	
37 1,1-Dichloroethane	63	7.244	7.249	-0.005	98	13104	0.0784	0.0813	
38 Vinyl acetate	43	7.363	7.359	0.004	99	10119	0.0784	0.0770	
39 2-Butanone (MEK)	72	7.820	7.810	0.010	93	1623	0.0784	0.0819	
40 Hexane	56	7.815	7.821	-0.006	80	5541	0.0784	0.0784	
41 Isopropyl ether	45	7.998	7.988	0.010	98	14202	0.0784	0.0811	
42 cis-1,2-Dichloroethene	96	8.213	8.220	-0.007	95	6589	0.0784	0.0763	
43 Ethyl acetate	43	8.428	8.423	0.005	96	7938	0.0784	0.0843	
44 Chloroform	83	8.557	8.561	-0.004	28	14591	0.0784	0.0821	
45 Tert-butyl ethyl ether	59	8.670	8.662	0.008	95	11499	0.0784	0.0822	
46 Tetrahydrofuran	42	9.009	8.989	0.020	90	4385	0.0784	0.0814	
47 1,1,1-Trichloroethane	97	9.574	9.579	-0.005	97	14495	0.0784	0.0785	
48 1,2-Dichloroethane	62	9.687	9.691	-0.004	94	8900	0.0784	0.0767	
49 n-Butanol	31	10.182	10.166	0.016	52	1485	0.0784	0.0712	
50 Cyclohexane	69	10.182	10.185	-0.003	74	2763	0.0784	0.0751	
51 Benzene	78	10.182	10.186	-0.004	96	20840	0.0784	0.0872	
52 Carbon tetrachloride	117	10.208	10.210	-0.002	96	14474	0.0784	0.0785	
53 2,3-Dimethylpentane	71	10.316	10.313	0.003	91	4385	0.0784	0.0847	
54 Thiophene	84	10.456	10.464	-0.008	94	10711	0.0784	0.0790	
55 Tert-amyl methyl ether	73	10.693	10.688	0.005	39	9173	0.0784	0.0809	M
56 Isooctane	57	10.962	10.965	-0.003	98	34154	0.0784	0.0828	
57 n-Heptane	71	11.349	11.353	-0.004	93	6455	0.0784	0.0812	
58 1,2-Dichloropropane	63	11.430	11.430	0.000	86	7160	0.0784	0.0821	
59 Trichloroethene	130	11.462	11.466	-0.004	96	10208	0.0784	0.0791	
60 Dibromomethane	93	11.543	11.549	-0.006	95	7830	0.0784	0.0789	
62 Dichlorobromomethane	83	11.699	11.699	0.000	98	12595	0.0784	0.0762	
61 1,4-Dioxane	88	11.747	11.735	0.012	65	1683	0.0784	0.0822	
63 Methyl methacrylate	41	11.817	11.811	0.006	88	4505	0.0784	0.0813	
64 Methylcyclohexane	83	12.242	12.246	-0.004	93	14410	0.0784	0.0807	
65 4-Methyl-2-pentanone (MIBK)	43	12.678	12.672	0.006	96	8735	0.0784	0.0853	
66 cis-1,3-Dichloropropene	75	12.715	12.717	-0.002	96	9819	0.0784	0.0754	
67 trans-1,3-Dichloropropene	75	13.420	13.421	-0.001	97	7869	0.0784	0.0719	
68 Toluene	91	13.544	13.542	0.002	94	19797	0.0784	0.0849	
69 1,1,2-Trichloroethane	83	13.614	13.621	-0.007	95	5698	0.0784	0.0783	
70 2-Methylthiophene	97	13.689	13.695	-0.006	98	16558	0.0784	0.0790	
71 3-Methylthiophene	97	13.893	13.897	-0.004	98	16491	0.0784	0.0804	
72 2-Hexanone	58	14.023	14.020	0.003	91	3667	0.0784	0.0762	
73 n-Octane	85	14.243	14.244	-0.001	94	6745	0.0784	0.0844	
74 Chlorodibromomethane	129	14.318	14.325	-0.007	97	10874	0.0784	0.0713	
75 Ethylene Dibromide	107	14.614	14.616	-0.002	97	10084	0.0784	0.0750	
76 Tetrachloroethene	129	14.690	14.690	0.000	96	8353	0.0784	0.0863	
78 Chlorobenzene	112	15.572	15.573	-0.001	96	16269	0.0784	0.0817	
77 2,3-Dimethylheptane	43	15.599	15.601	-0.002	96	21181	0.0784	0.0857	
79 Ethylbenzene	91	15.868	15.866	0.002	98	21447	0.0784	0.0815	
80 2-Ethylthiophene	97	15.965	15.967	-0.002	97	17436	0.0784	0.0809	
81 m-Xylene & p-Xylene	91	16.029	16.029	0.000	99	30909	0.1568	0.1623	
82 n-Nonane	57	16.454	16.456	-0.002	95	13763	0.0784	0.0811	
83 Bromoform	173	16.470	16.474	-0.004	94	9687	0.0784	0.0633	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	16.497	16.494	0.003	97	9509	0.0784	0.0668	
85 o-Xylene	91	16.556	16.555	0.001	97	15911	0.0784	0.0819	
86 1,1,2,2-Tetrachloroethane	83	16.879	16.880	-0.001	97	10635	0.0784	0.0806	
87 1,2,3-Trichloropropane	110	17.040	17.039	0.001	96	2448	0.0784	0.0750	
88 Isopropylbenzene	105	17.143	17.143	0.000	97	20738	0.0784	0.0839	
89 N-Propylbenzene	120	17.686	17.690	-0.004	99	5030	0.0784	0.0790	
90 2-Chlorotoluene	126	17.729	17.733	-0.004	96	6386	0.0784	0.0811	
91 4-Ethyltoluene	105	17.842	17.845	-0.003	98	18503	0.0784	0.0855	
92 1,3,5-Trimethylbenzene	120	17.917	17.920	-0.003	92	8144	0.0784	0.0803	
93 Alpha Methyl Styrene	118	18.154	18.154	0.000	85	5248	0.0784	0.0602	
94 n-Decane	57	18.219	18.218	0.000	89	15461	0.0784	0.0822	
95 tert-Butylbenzene	119	18.348	18.349	-0.001	92	16675	0.0784	0.0863	
96 1,2,4-Trimethylbenzene	105	18.364	18.364	0.000	95	14806	0.0784	0.0849	
97 sec-Butylbenzene	105	18.622	18.623	-0.001	98	22583	0.0784	0.0854	
98 1,3-Dichlorobenzene	146	18.638	18.636	0.002	98	13221	0.0784	0.0791	
99 Benzyl chloride	91	18.708	18.712	-0.004	74	9846	0.0784	0.0719	
100 1,4-Dichlorobenzene	146	18.724	18.724	0.000	92	12616	0.0784	0.0781	
101 4-Isopropyltoluene	119	18.789	18.788	0.001	97	17388	0.0784	0.0830	
102 1,2,3-Trimethylbenzene	105	18.837	18.839	-0.002	98	11240	0.0784	0.0850	
103 Butylcyclohexane	83	18.896	18.897	-0.001	92	18208	0.0784	0.0813	
105 1,2-Dichlorobenzene	146	19.085	19.087	-0.002	90	12390	0.0784	0.0824	
104 2,3-Dihydroindene	117	19.085	19.087	-0.002	93	14426	0.0784	0.0827	
107 Indene	116	19.219	19.219	0.000	91	8918	0.0784	0.0750	
106 n-Butylbenzene	91	19.224	19.227	-0.003	98	17448	0.0784	0.0844	
108 Undecane	57	19.547	19.546	0.001	95	13210	0.0784	0.0794	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.601	19.602	-0.001	98	12350	0.0784	0.0821	
110 1,2-Dibromo-3-Chloropropan	157	19.698	19.698	0.000	90	3052	0.0784	0.0664	
111 1,2,4,5-Tetramethylbenzene	119	19.988	19.989	-0.001	97	14691	0.0784	0.0848	
112 1,2,3,5-Tetramethylbenzene	119	20.042	20.044	-0.002	94	9231	0.0784	0.0839	
113 1,2,3,4-Tetramethylbenzene	119	20.440	20.440	0.000	96	11776	0.0784	0.0825	
114 Dodecane	57	20.607	20.607	0.000	93	11041	0.0784	0.0782	
115 1,2,4-Trichlorobenzene	180	20.795	20.796	-0.001	92	6006	0.0784	0.0732	
116 Naphthalene	128	20.935	20.937	-0.002	98	11724	0.0784	0.0771	
117 Benzo(b)thiophene	134	21.043	21.042	0.001	97	5093	0.0784	0.0664	
118 Hexachlorobutadiene	225	21.156	21.157	-0.001	95	12057	0.0784	0.0834	
119 1,2,3-Trichlorobenzene	180	21.226	21.227	-0.001	92	6166	0.0784	0.0794	
120 2-Methylnaphthalene	142	21.920	21.921	-0.001	95	1737	0.2372	0.1700	
121 1-Methylnaphthalene	142	22.049	22.049	0.000	95	2497	0.2372	0.2234	
A 124 Toluene Range	1	13.544	(13.514-13.574)		0	43413	0.0784	0.0768	
A 125 C8 Range	1	14.246	(14.215-14.296)		0	66260	0.0784	0.0887	
S 126 Xylenes, Total	100				0		0.2353	0.2443	
S 127 1,2-Dichloroethene, Total	1				0		0.1568	0.1533	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

40L12DNP_00010

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC02.D

Injection Date: 24-Mar-2017 12:16:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: IC L2

Worklist Smp#: 3

Client ID:

Purge Vol: 500.000 mL

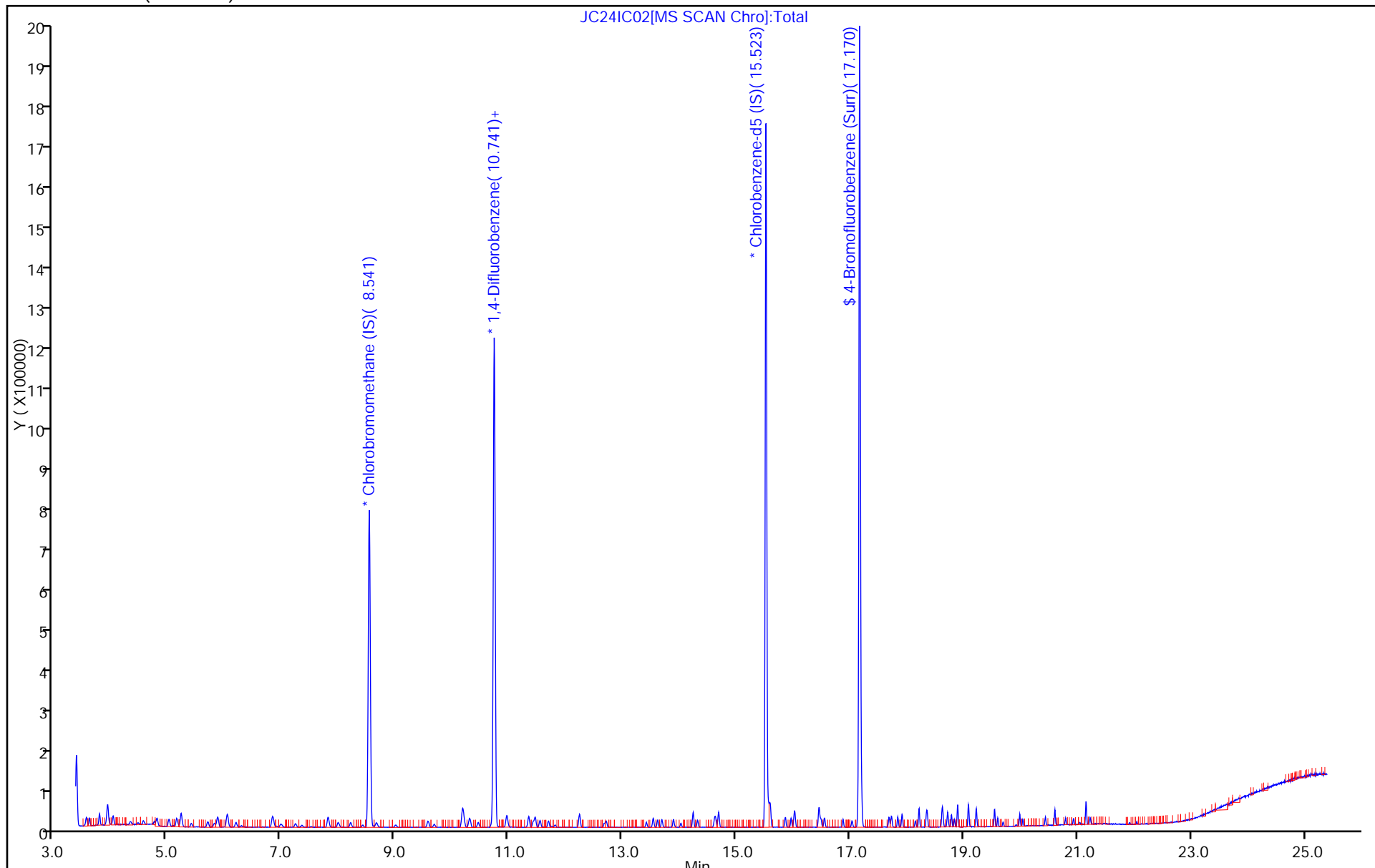
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC02.D

Injection Date: 24-Mar-2017 12:16:30

Instrument ID: MJ

Lims ID: IC L2

Client ID:

Operator ID: 007126

ALS Bottle#: 1

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

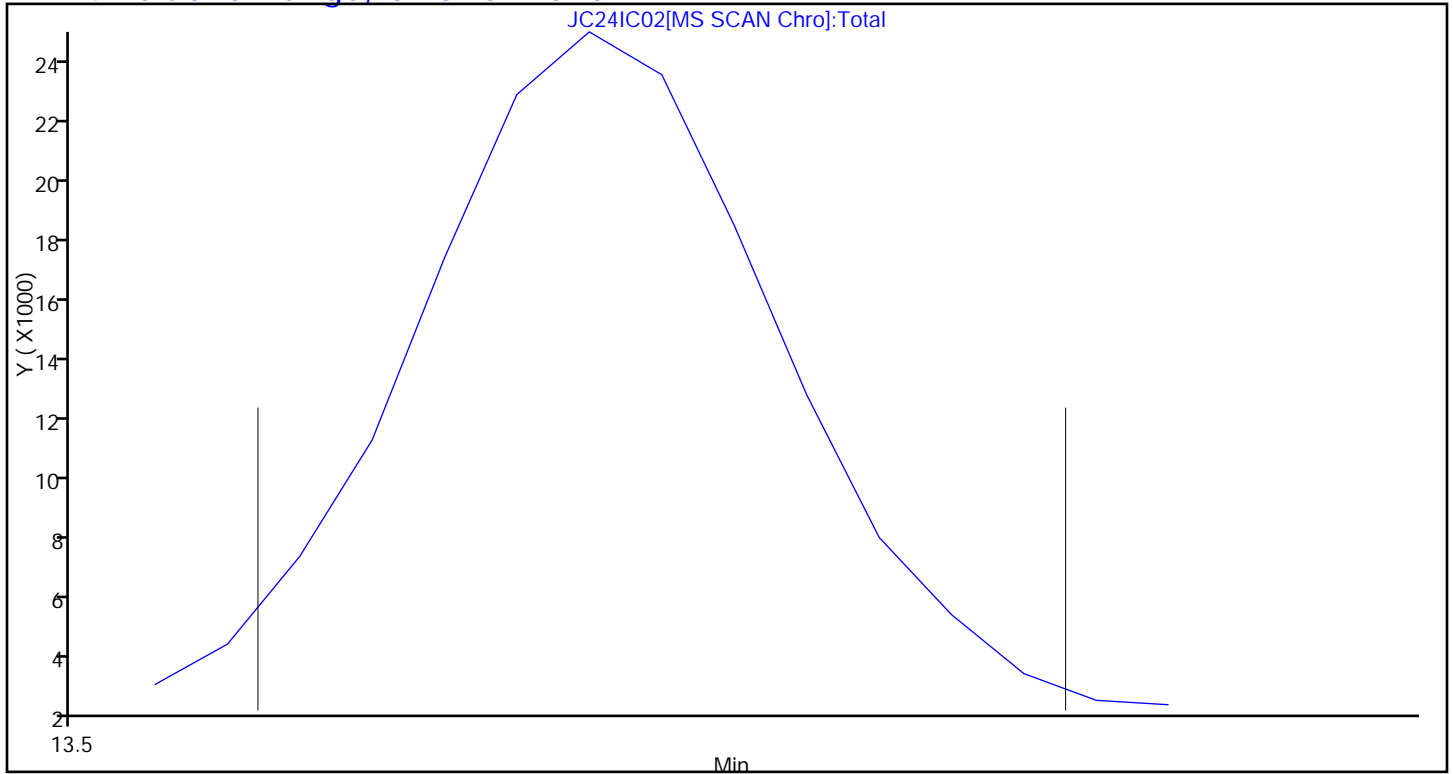
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC02.D

Injection Date: 24-Mar-2017 12:16:30

Instrument ID: MJ

Lims ID: IC L2

Client ID:

Operator ID: 007126

ALS Bottle#: 1

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

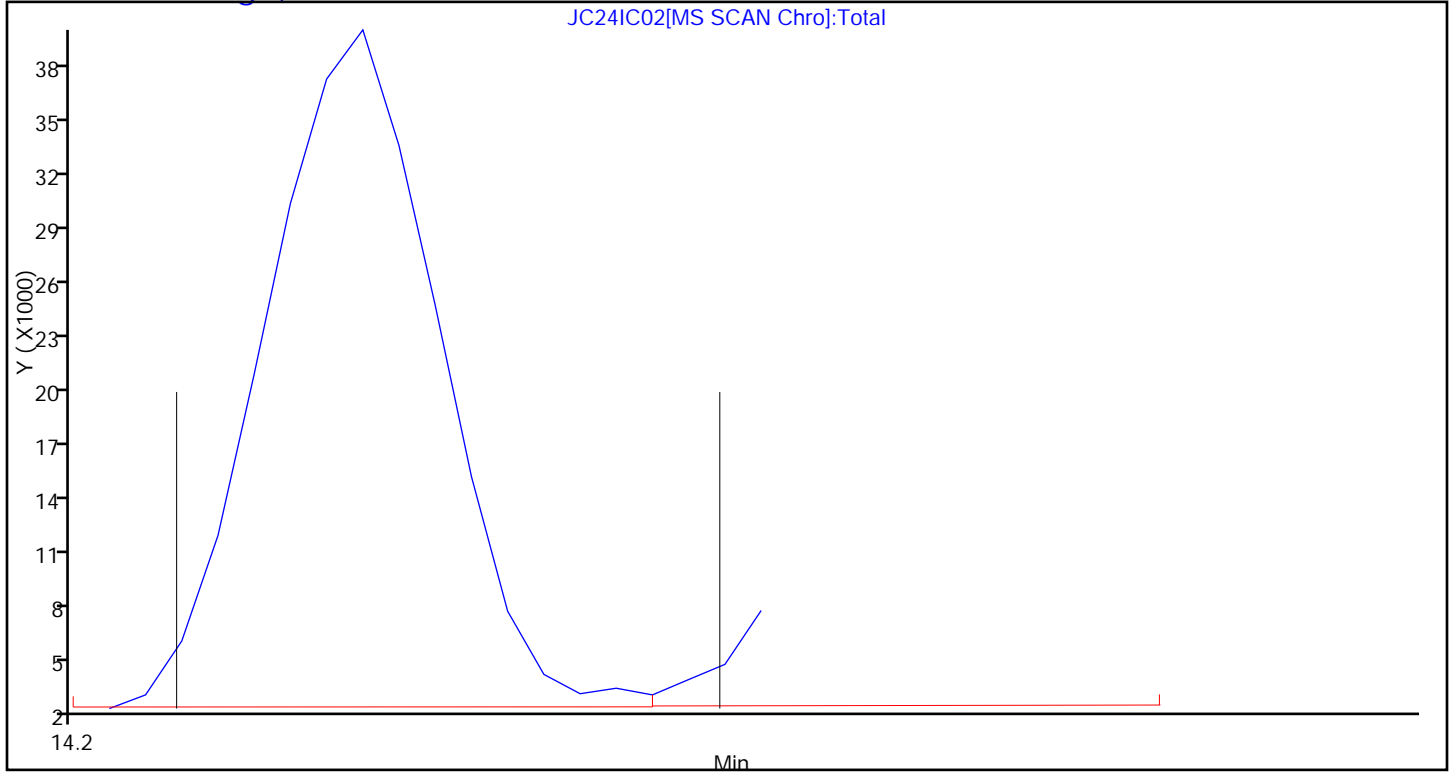
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville

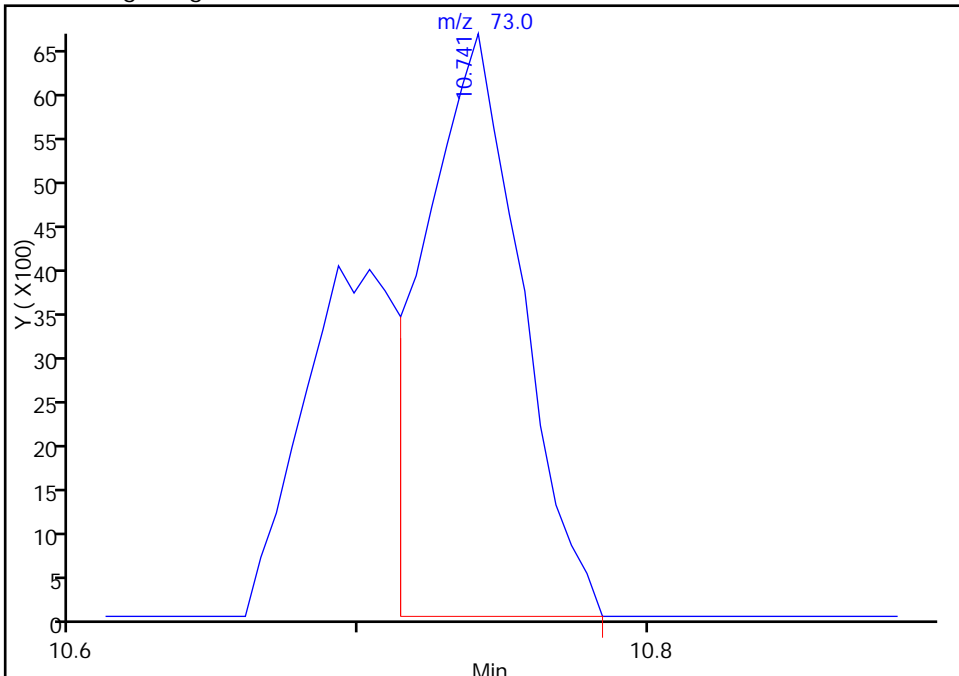
Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC02.D
Injection Date: 24-Mar-2017 12:16:30 Instrument ID: MJ
Lims ID: IC L2
Client ID:
Operator ID: 007126 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

55 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

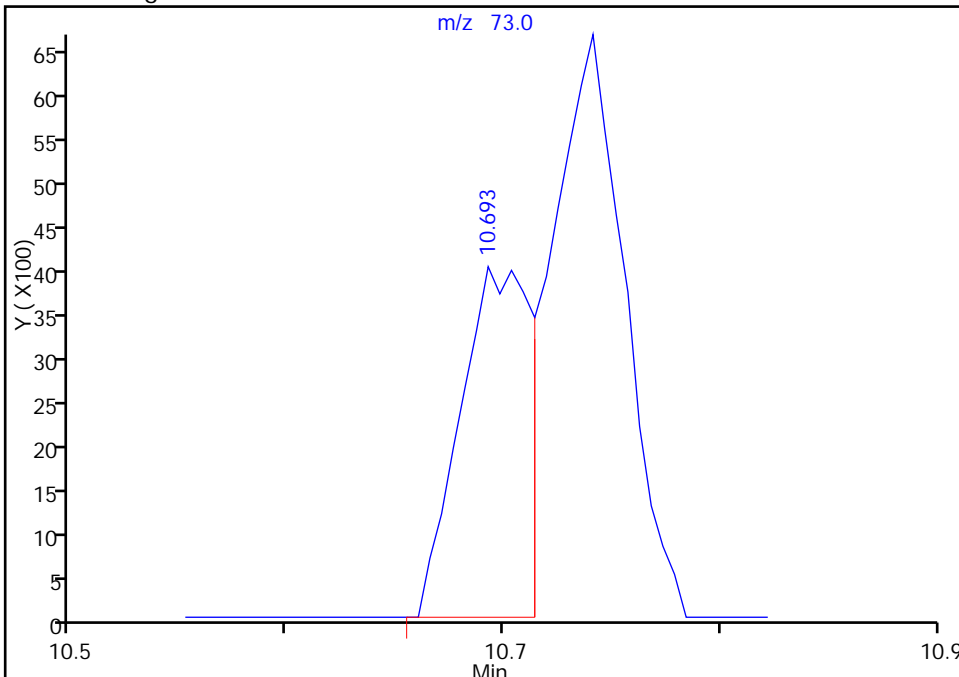
RT: 10.74
Area: 15707
Amount: 0.125853
Amount Units: ppb v/v

Processing Integration Results



RT: 10.69
Area: 9173
Amount: 0.080877
Amount Units: ppb v/v

Manual Integration Results



Reviewer: barlozhetskayaa, 27-Mar-2017 11:48:05

Audit Action: Split an Integrated Peak

Audit Reason: Wrong peak

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC03.D
 Lims ID: IC L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-Mar-2017 13:02:30 ALS Bottle#: 2 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004355-004
 Misc. Info.: 083682
 Operator ID: 007126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 11:48:26 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh

Date: 24-Mar-2017 13:44:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.542	8.549	-0.007	96	256840	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.742	10.746	-0.004	95	1159010	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.524	15.525	-0.001	88	1070614	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.170	17.172	-0.002	94	730689	4.00	3.91	
6 Chlorodifluoromethane	67	3.560	3.563	-0.003	97	3288	0.1587	0.1525	
7 Propene	41	3.571	3.572	-0.001	98	12999	0.1587	0.1706	
8 Dichlorodifluoromethane	85	3.619	3.621	-0.002	100	34614	0.1587	0.1572	
9 Chloromethane	52	3.797	3.795	0.002	60	4584	0.1587	0.1899	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.792	3.799	-0.007	91	15788	0.1587	0.1619	
11 Acetaldehyde	44	3.937	3.940	-0.003	98	37196	0.7935	1.61	
12 Vinyl chloride	62	3.948	3.955	-0.007	98	11078	0.1587	0.1560	
14 Butadiene	54	4.034	4.037	-0.003	67	8180	0.1587	0.1537	
13 Butane	43	4.034	4.038	-0.004	86	17381	0.1587	0.1624	
15 Bromomethane	94	4.340	4.343	-0.003	97	10225	0.1587	0.1544	
16 Chloroethane	64	4.469	4.477	-0.008	94	4479	0.1587	0.1532	
17 Ethanol	31	4.566	4.568	-0.002	97	13934	0.7935	0.9202	
18 Vinyl bromide	106	4.760	4.762	-0.002	97	8752	0.1587	0.1519	
19 2-Methylbutane	43	4.808	4.811	-0.003	93	16651	0.1587	0.1738	
20 Trichlorofluoromethane	101	5.018	5.022	-0.004	100	31820	0.1587	0.1574	
21 Acrolein	56	5.029	5.034	-0.005	91	3155	0.1587	0.1799	
22 Acetonitrile	40	5.099	5.098	0.001	98	3946	0.1587	0.1779	
23 Acetone	58	5.153	5.150	0.003	98	17099	0.4660	0.7933	
24 Isopropyl alcohol	45	5.223	5.228	-0.006	94	44045	0.4660	0.4990	
25 Pentane	72	5.233	5.233	0.000	90	1596	0.1587	0.1391	
26 Ethyl ether	31	5.405	5.407	-0.002	92	10832	0.1587	0.1592	
27 1,1-Dichloroethene	96	5.707	5.707	0.000	97	12020	0.1587	0.1554	
28 2-Methyl-2-propanol	59	5.803	5.808	-0.005	94	15742	0.1587	0.1653	
29 Acrylonitrile	53	5.798	5.809	-0.011	49	5947	0.1587	0.1552	
30 1,1,2-Trichloro-1,2,2-trif	101	5.873	5.878	-0.005	96	25307	0.1587	0.1548	
31 Methylene Chloride	84	6.035	6.043	-0.008	99	17007	0.1587	0.2143	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.056	6.059	-0.003	96	11869	0.1587	0.1527	
33 Carbon disulfide	76	6.196	6.203	-0.007	99	34834	0.1587	0.1551	
34 trans-1,2-Dichloroethene	96	6.836	6.838	-0.002	97	12101	0.1587	0.1540	
35 2-Methylpentane	43	6.847	6.854	-0.007	95	28715	0.1587	0.1570	
36 Methyl tert-butyl ether	73	6.976	6.977	-0.001	96	19363	0.1587	0.1646	
37 1,1-Dichloroethane	63	7.245	7.249	-0.004	98	23795	0.1587	0.1548	
38 Vinyl acetate	43	7.353	7.359	-0.006	100	19138	0.1587	0.1527	
39 2-Butanone (MEK)	72	7.815	7.810	0.005	82	3678	0.1587	0.1946	
40 Hexane	56	7.815	7.821	-0.006	78	10486	0.1587	0.1555	
41 Isopropyl ether	45	7.988	7.988	0.000	97	27934	0.1587	0.1672	
42 cis-1,2-Dichloroethene	96	8.208	8.220	-0.012	95	12795	0.1587	0.1553	
43 Ethyl acetate	43	8.418	8.423	-0.005	98	16107	0.1587	0.1793	
44 Chloroform	83	8.552	8.561	-0.009	88	27094	0.1587	0.1598	
45 Tert-butyl ethyl ether	59	8.660	8.662	-0.002	96	22939	0.1587	0.1718	
46 Tetrahydrofuran	42	8.994	8.989	0.005	94	8885	0.1587	0.1729	
47 1,1,1-Trichloroethane	97	9.574	9.579	-0.005	96	27357	0.1587	0.1552	
48 1,2-Dichloroethane	62	9.687	9.691	-0.004	96	17815	0.1587	0.1614	
49 n-Butanol	31	10.172	10.166	0.006	53	3158	0.1587	0.1592	
50 Cyclohexane	69	10.177	10.185	-0.008	77	5458	0.1587	0.1560	
51 Benzene	78	10.182	10.186	-0.004	97	37205	0.1587	0.1638	
52 Carbon tetrachloride	117	10.204	10.210	-0.006	97	27498	0.1587	0.1569	
53 2,3-Dimethylpentane	71	10.311	10.313	-0.002	91	7907	0.1587	0.1607	
54 Thiophene	84	10.462	10.464	-0.002	97	20637	0.1587	0.1601	
55 Tert-amyl methyl ether	73	10.693	10.688	0.005	90	17071	0.1587	0.1550	
56 Isooctane	57	10.962	10.965	-0.003	98	64818	0.1587	0.1652	
57 n-Heptane	71	11.350	11.353	-0.003	93	12558	0.1587	0.1661	
58 1,2-Dichloropropane	63	11.425	11.430	-0.005	91	13224	0.1587	0.1594	
59 Trichloroethene	130	11.463	11.466	-0.003	95	21113	0.1587	0.1720	
60 Dibromomethane	93	11.543	11.549	-0.006	96	15419	0.1587	0.1634	
62 Dichlorobromomethane	83	11.694	11.699	-0.005	99	24774	0.1587	0.1576	
61 1,4-Dioxane	88	11.748	11.735	0.013	89	3551	0.1587	0.1825	
63 Methyl methacrylate	41	11.807	11.811	-0.004	92	8889	0.1587	0.1687	
64 Methylcyclohexane	83	12.243	12.246	-0.003	95	27890	0.1587	0.1643	
65 4-Methyl-2-pentanone (MIBK)	43	12.673	12.672	0.001	97	17401	0.1587	0.1788	
66 cis-1,3-Dichloropropene	75	12.711	12.717	-0.006	94	19614	0.1587	0.1585	
67 trans-1,3-Dichloropropene	75	13.415	13.421	-0.006	99	16374	0.1587	0.1540	
68 Toluene	91	13.539	13.542	-0.003	93	36334	0.1587	0.1605	
69 1,1,2-Trichloroethane	83	13.620	13.621	-0.001	98	11608	0.1587	0.1643	
70 2-Methylthiophene	97	13.695	13.695	0.000	97	32680	0.1587	0.1607	
71 3-Methylthiophene	97	13.900	13.897	0.003	99	32317	0.1587	0.1622	
72 2-Hexanone	58	14.023	14.020	0.003	93	7674	0.1587	0.1643	
73 n-Octane	85	14.238	14.244	-0.006	95	12310	0.1587	0.1586	
74 Chlorodibromomethane	129	14.325	14.325	0.000	97	21697	0.1587	0.1466	
75 Ethylene Dibromide	107	14.615	14.616	-0.001	97	20806	0.1587	0.1594	
76 Tetrachloroethene	129	14.685	14.690	-0.005	95	15577	0.1587	0.1657	
78 Chlorobenzene	112	15.567	15.573	-0.006	94	32400	0.1587	0.1675	
77 2,3-Dimethylheptane	43	15.599	15.601	-0.002	96	41073	0.1587	0.1712	
79 Ethylbenzene	91	15.863	15.866	-0.003	98	42135	0.1587	0.1648	
80 2-Ethylthiophene	97	15.965	15.967	-0.002	98	33699	0.1587	0.1611	
81 m-Xylene & p-Xylene	91	16.030	16.029	0.001	99	61033	0.3174	0.3301	
82 n-Nonane	57	16.455	16.456	-0.001	93	27982	0.1587	0.1697	
83 Bromoform	173	16.471	16.474	-0.003	96	20439	0.1587	0.1375	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	16.492	16.494	-0.002	98	20227	0.1587	0.1464	
85 o-Xylene	91	16.552	16.555	-0.003	99	30482	0.1587	0.1617	
86 1,1,2,2-Tetrachloroethane	83	16.880	16.880	0.000	99	19396	0.1587	0.1514	
87 1,2,3-Trichloropropane	110	17.036	17.039	-0.003	96	5296	0.1587	0.1672	
88 Isopropylbenzene	105	17.143	17.143	0.000	96	39844	0.1587	0.1660	
89 N-Propylbenzene	120	17.692	17.690	0.002	99	10395	0.1587	0.1680	
90 2-Chlorotoluene	126	17.730	17.733	-0.003	97	13023	0.1587	0.1702	
91 4-Ethyltoluene	105	17.843	17.845	-0.002	98	36185	0.1587	0.1721	
92 1,3,5-Trimethylbenzene	120	17.918	17.920	-0.002	94	17459	0.1587	0.1773	
93 Alpha Methyl Styrene	118	18.149	18.154	-0.005	86	11861	0.1587	0.1400	
94 n-Decane	57	18.214	18.218	-0.004	90	30204	0.1587	0.1653	
95 tert-Butylbenzene	119	18.348	18.349	-0.001	93	33295	0.1587	0.1775	
96 1,2,4-Trimethylbenzene	105	18.365	18.364	0.001	96	30374	0.1587	0.1794	
97 sec-Butylbenzene	105	18.623	18.623	0.000	98	45836	0.1587	0.1784	
98 1,3-Dichlorobenzene	146	18.634	18.636	-0.002	98	26765	0.1587	0.1649	
99 Benzyl chloride	91	18.709	18.712	-0.003	98	21798	0.1587	0.1639	
100 1,4-Dichlorobenzene	146	18.725	18.724	0.001	95	25293	0.1587	0.1612	
101 4-Isopropyltoluene	119	18.784	18.788	-0.004	97	35295	0.1587	0.1735	
102 1,2,3-Trimethylbenzene	105	18.838	18.839	-0.001	98	22881	0.1587	0.1781	
103 Butylcyclohexane	83	18.897	18.897	0.000	92	36240	0.1587	0.1666	
105 1,2-Dichlorobenzene	146	19.085	19.087	-0.002	88	24531	0.1587	0.1679	
104 2,3-Dihydroindene	117	19.085	19.087	-0.002	94	29289	0.1587	0.1728	
107 Indene	116	19.220	19.219	0.001	88	18059	0.1587	0.1564	
106 n-Butylbenzene	91	19.225	19.227	-0.002	98	35291	0.1587	0.1758	
108 Undecane	57	19.543	19.546	-0.003	96	26713	0.1587	0.1654	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.602	19.602	0.000	98	24778	0.1587	0.1696	
110 1,2-Dibromo-3-Chloropropan	157	19.699	19.698	0.001	96	6532	0.1587	0.1463	
111 1,2,4,5-Tetramethylbenzene	119	19.989	19.989	0.000	97	28106	0.1587	0.1670	
112 1,2,3,5-Tetramethylbenzene	119	20.043	20.044	-0.001	95	17391	0.1587	0.1627	
113 1,2,3,4-Tetramethylbenzene	119	20.436	20.440	-0.004	98	22386	0.1587	0.1615	
114 Dodecane	57	20.608	20.607	0.001	95	21762	0.1587	0.1588	
115 1,2,4-Trichlorobenzene	180	20.796	20.796	0.000	92	11734	0.1587	0.1474	
116 Naphthalene	128	20.936	20.937	-0.001	99	23534	0.1587	0.1593	
117 Benzo(b)thiophene	134	21.044	21.042	0.002	99	10627	0.1587	0.1427	
118 Hexachlorobutadiene	225	21.156	21.157	-0.001	95	21366	0.1587	0.1522	
119 1,2,3-Trichlorobenzene	180	21.226	21.227	-0.001	95	11962	0.1587	0.1586	
120 2-Methylnaphthalene	142	21.920	21.921	-0.001	97	3586	0.4801	0.3615	
121 1-Methylnaphthalene	142	22.049	22.049	0.000	97	4628	0.4801	0.4263	
A 124 Toluene Range	1	13.539	(13.509-13.569)		0	81668	0.1587	0.1487	
A 125 C8 Range	1	14.241	(14.216-14.281)		0	125560	0.1587	0.1731	
S 126 Xylenes, Total	100				0		0.4761	0.4917	
S 127 1,2-Dichloroethene, Total	1				0		0.3174	0.3093	

Reagents:

40L3DNP_00011

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC03.D

Injection Date: 24-Mar-2017 13:02:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: IC L3

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

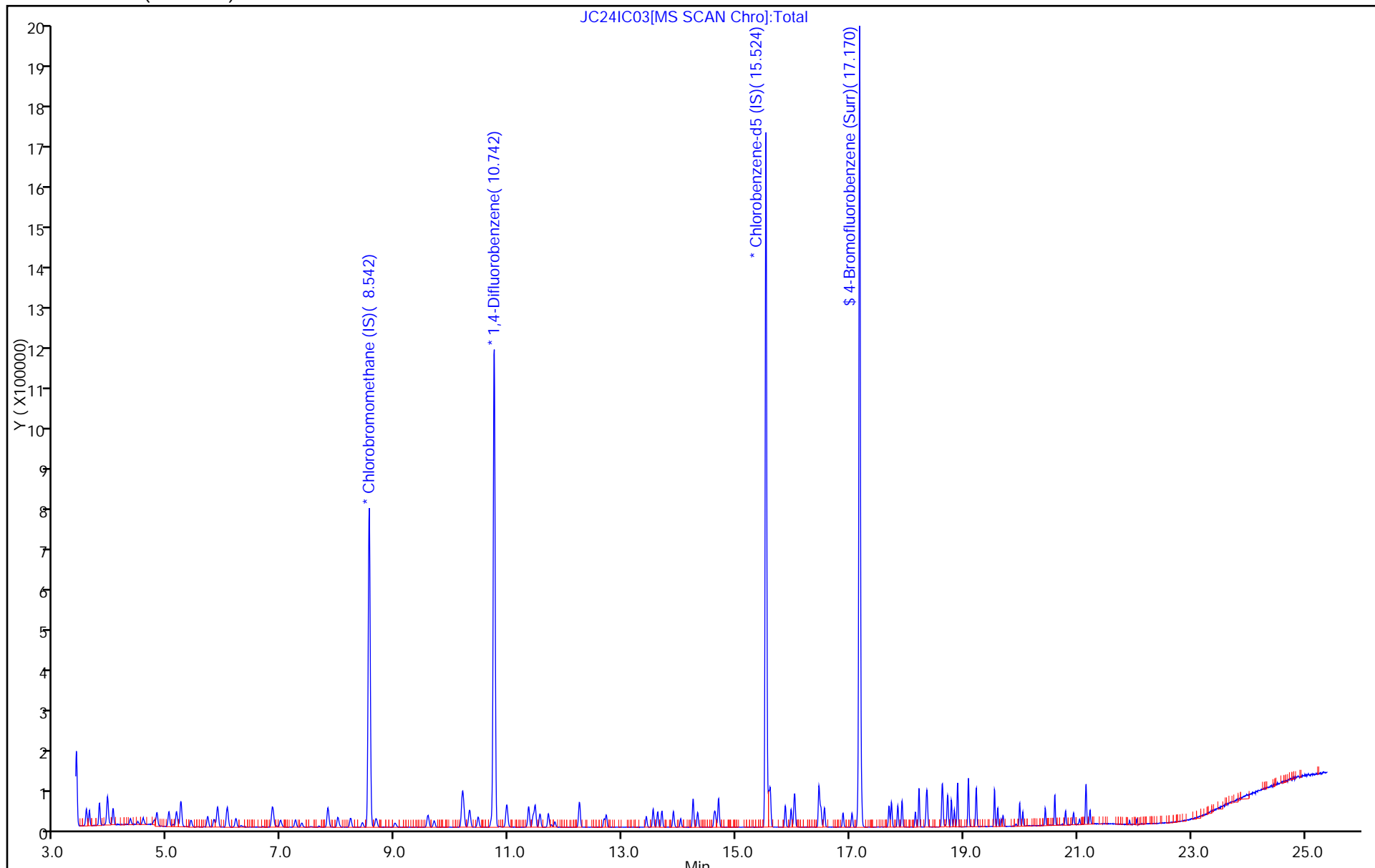
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC03.D

Injection Date: 24-Mar-2017 13:02:30

Instrument ID: MJ

Lims ID: IC L3

Client ID:

Operator ID: 007126

ALS Bottle#: 2

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

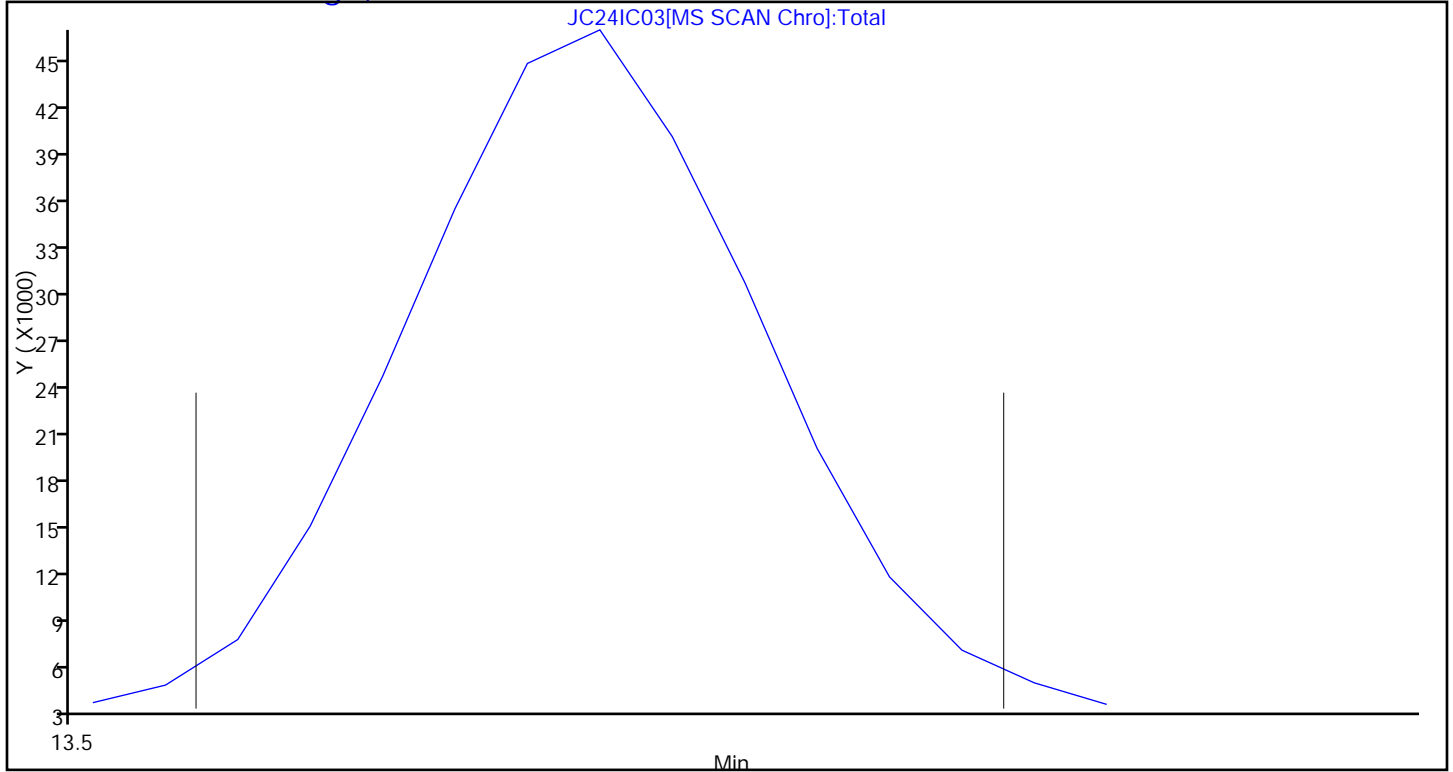
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC03.D

Injection Date: 24-Mar-2017 13:02:30

Instrument ID: MJ

Lims ID: IC L3

Client ID:

Operator ID: 007126

ALS Bottle#: 2

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

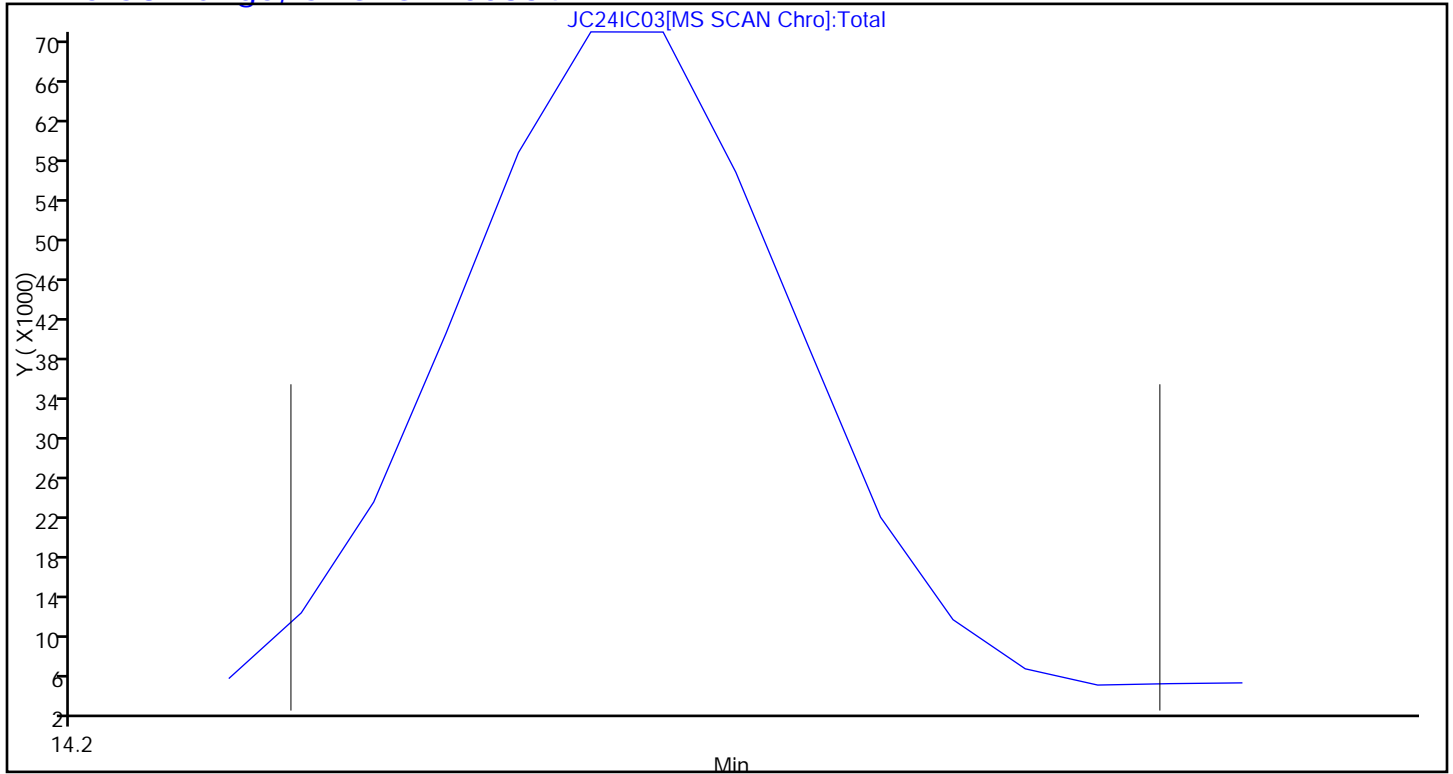
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC04.D
 Lims ID: IC L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 24-Mar-2017 13:48:30 ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004355-005
 Misc. Info.: 083681
 Operator ID: 007126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 11:48:38 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh

Date: 24-Mar-2017 14:27:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.547	8.549	-0.002	96	243909	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.742	10.746	-0.004	95	1152077	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.524	15.525	-0.001	88	1029669	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.170	17.172	-0.002	94	727612	4.00	4.05	
6 Chlorodifluoromethane	67	3.566	3.563	0.003	97	8143	0.4001	0.3976	
7 Propene	41	3.571	3.572	-0.001	99	30076	0.4001	0.4157	
8 Dichlorodifluoromethane	85	3.620	3.621	-0.001	100	84716	0.4001	0.4052	
9 Chloromethane	52	3.792	3.795	-0.003	73	10425	0.4001	0.4547	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.797	3.799	-0.002	92	33898	0.4001	0.3660	
11 Acetaldehyde	44	3.937	3.940	-0.003	98	63260	2.00	2.88	
12 Vinyl chloride	62	3.953	3.955	-0.002	99	26865	0.4001	0.3984	
14 Butadiene	54	4.034	4.037	-0.003	67	20141	0.4001	0.3986	
13 Butane	43	4.039	4.038	0.001	85	41221	0.4001	0.4056	
15 Bromomethane	94	4.340	4.343	-0.003	98	23692	0.4001	0.3767	
16 Chloroethane	64	4.480	4.477	0.003	93	11063	0.4001	0.3984	
17 Ethanol	31	4.566	4.568	-0.002	97	31436	2.00	2.19	
18 Vinyl bromide	106	4.760	4.762	-0.002	98	20516	0.4001	0.3751	
19 2-Methylbutane	43	4.808	4.811	-0.003	92	31515	0.4001	0.3463	
20 Trichlorofluoromethane	101	5.018	5.022	-0.004	100	68858	0.4001	0.3587	
21 Acrolein	56	5.029	5.034	-0.005	94	8181	0.4001	0.4913	
22 Acetonitrile	40	5.094	5.098	-0.004	99	9606	0.4001	0.4560	
23 Acetone	58	5.153	5.150	0.003	98	32772	1.17	1.60	
24 Isopropyl alcohol	45	5.223	5.228	-0.005	93	112034	1.17	1.34	
25 Pentane	72	5.233	5.233	0.000	94	4207	0.4001	0.3861	
26 Ethyl ether	31	5.406	5.407	-0.001	93	29204	0.4001	0.4521	
27 1,1-Dichloroethene	96	5.701	5.707	-0.006	95	26528	0.4001	0.3612	
28 2-Methyl-2-propanol	59	5.804	5.808	-0.004	94	34537	0.4001	0.3819	
29 Acrylonitrile	53	5.809	5.809	0.000	68	17528	0.4001	0.4817	
30 1,1,2-Trichloro-1,2,2-trif	101	5.879	5.878	0.001	97	58673	0.4001	0.3779	
31 Methylene Chloride	84	6.040	6.043	-0.003	99	31831	0.4001	0.4224	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.056	6.059	-0.003	95	30147	0.4001	0.4085	
33 Carbon disulfide	76	6.202	6.203	-0.001	99	79950	0.4001	0.3748	
34 trans-1,2-Dichloroethene	96	6.831	6.838	-0.007	96	28394	0.4001	0.3804	
35 2-Methylpentane	43	6.853	6.854	-0.001	96	65747	0.4001	0.3786	
36 Methyl tert-butyl ether	73	6.976	6.977	-0.001	97	49779	0.4001	0.4455	
37 1,1-Dichloroethane	63	7.245	7.249	-0.004	100	58937	0.4001	0.4037	
38 Vinyl acetate	43	7.353	7.359	-0.006	100	56121	0.4001	0.4714	
39 2-Butanone (MEK)	72	7.816	7.810	0.006	95	7843	0.4001	0.4370	
40 Hexane	56	7.821	7.821	0.000	80	24433	0.4001	0.3816	
41 Isopropyl ether	45	7.988	7.988	0.000	97	69892	0.4001	0.4404	
42 cis-1,2-Dichloroethene	96	8.219	8.220	-0.001	96	30938	0.4001	0.3955	
43 Ethyl acetate	43	8.418	8.423	-0.005	98	37413	0.4001	0.4385	
44 Chloroform	83	8.558	8.561	-0.003	96	65567	0.4001	0.4073	
45 Tert-butyl ethyl ether	59	8.660	8.662	-0.002	96	55616	0.4001	0.4387	
46 Tetrahydrofuran	42	8.988	8.989	-0.001	94	21267	0.4001	0.4357	
47 1,1,1-Trichloroethane	97	9.575	9.579	-0.004	96	65774	0.4001	0.3930	
48 1,2-Dichloroethane	62	9.688	9.691	-0.003	97	43197	0.4001	0.3937	
49 n-Butanol	31	10.172	10.166	0.006	60	7450	0.4001	0.3777	
50 Cyclohexane	69	10.183	10.185	-0.002	73	13196	0.4001	0.3793	
51 Benzene	78	10.183	10.186	-0.003	97	89218	0.4001	0.3951	
52 Carbon tetrachloride	117	10.209	10.210	-0.001	97	63856	0.4001	0.3666	
53 2,3-Dimethylpentane	71	10.306	10.313	-0.007	90	18484	0.4001	0.3780	
54 Thiophene	84	10.462	10.464	-0.002	97	51210	0.4001	0.3996	
55 Tert-amyl methyl ether	73	10.694	10.688	0.006	94	47123	0.4001	0.4449	
56 Isooctane	57	10.963	10.965	-0.002	99	150029	0.4001	0.3847	
57 n-Heptane	71	11.350	11.353	-0.003	94	28922	0.4001	0.3849	
58 1,2-Dichloropropane	63	11.425	11.430	-0.005	90	32959	0.4001	0.3997	
59 Trichloroethene	130	11.463	11.466	-0.003	97	46534	0.4001	0.3815	
60 Dibromomethane	93	11.549	11.549	0.000	96	36329	0.4001	0.3872	
62 Dichlorobromomethane	83	11.700	11.699	0.001	99	60187	0.4001	0.3852	
61 1,4-Dioxane	88	11.737	11.735	0.002	91	7383	0.4001	0.3817	
63 Methyl methacrylate	41	11.807	11.811	-0.004	93	20366	0.4001	0.3889	
64 Methylcyclohexane	83	12.243	12.246	-0.003	94	63189	0.4001	0.3744	
65 4-Methyl-2-pentanone (MIBK)	43	12.673	12.672	0.001	97	36967	0.4001	0.3822	
66 cis-1,3-Dichloropropene	75	12.716	12.717	-0.001	95	48146	0.4001	0.3914	
67 trans-1,3-Dichloropropene	75	13.421	13.421	0.000	99	41552	0.4001	0.4065	
68 Toluene	91	13.539	13.542	-0.003	93	91946	0.4001	0.4223	
69 1,1,2-Trichloroethane	83	13.620	13.621	-0.001	98	28730	0.4001	0.4229	
70 2-Methylthiophene	97	13.695	13.695	0.000	98	81695	0.4001	0.4176	
71 3-Methylthiophene	97	13.894	13.897	-0.003	99	78853	0.4001	0.4116	
72 2-Hexanone	58	14.023	14.020	0.003	93	17005	0.4001	0.3785	
73 n-Octane	85	14.239	14.244	-0.005	95	31157	0.4001	0.4174	
74 Chlorodibromomethane	129	14.325	14.325	0.000	98	57234	0.4001	0.4020	
75 Ethylene Dibromide	107	14.615	14.616	-0.001	99	50743	0.4001	0.4043	
76 Tetrachloroethene	129	14.691	14.690	0.001	96	36604	0.4001	0.4050	
78 Chlorobenzene	112	15.573	15.573	0.000	94	77984	0.4001	0.4192	
77 2,3-Dimethylheptane	43	15.600	15.601	-0.001	96	99511	0.4001	0.4312	
79 Ethylbenzene	91	15.863	15.866	-0.003	98	112625	0.4001	0.4581	
80 2-Ethylthiophene	97	15.965	15.967	-0.002	98	87162	0.4001	0.4332	
81 m-Xylene & p-Xylene	91	16.025	16.029	-0.004	99	171615	0.8002	0.9650	
82 n-Nonane	57	16.455	16.456	-0.001	94	67679	0.4001	0.4269	
83 Bromoform	173	16.471	16.474	-0.003	97	54967	0.4001	0.3844	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	16.493	16.494	-0.001	98	59858	0.4001	0.4505	
85 o-Xylene	91	16.552	16.555	-0.003	99	88569	0.4001	0.4884	
86 1,1,2,2-Tetrachloroethane	83	16.880	16.880	0.000	99	57251	0.4001	0.4646	
87 1,2,3-Trichloropropane	110	17.036	17.039	-0.003	97	13537	0.4001	0.4443	
88 Isopropylbenzene	105	17.144	17.143	0.001	97	112022	0.4001	0.4852	
89 N-Propylbenzene	120	17.692	17.690	0.002	99	28314	0.4001	0.4759	
90 2-Chlorotoluene	126	17.735	17.733	0.002	97	32367	0.4001	0.4399	
91 4-Ethyltoluene	105	17.843	17.845	-0.002	98	90088	0.4001	0.4455	
92 1,3,5-Trimethylbenzene	120	17.918	17.920	-0.002	93	42367	0.4001	0.4474	
93 Alpha Methyl Styrene	118	18.155	18.154	0.001	88	33847	0.4001	0.4155	
94 n-Decane	57	18.214	18.218	-0.004	89	79439	0.4001	0.4520	
95 tert-Butylbenzene	119	18.349	18.349	0.000	92	79912	0.4001	0.4430	
96 1,2,4-Trimethylbenzene	105	18.365	18.364	0.001	96	72913	0.4001	0.4479	
97 sec-Butylbenzene	105	18.623	18.623	0.000	98	110612	0.4001	0.4476	
98 1,3-Dichlorobenzene	146	18.634	18.636	-0.002	98	66929	0.4001	0.4288	
99 Benzyl chloride	91	18.709	18.712	-0.003	98	50707	0.4001	0.3963	
100 1,4-Dichlorobenzene	146	18.720	18.724	-0.004	95	64366	0.4001	0.4265	
101 4-Isopropyltoluene	119	18.784	18.788	-0.004	97	84609	0.4001	0.4325	
102 1,2,3-Trimethylbenzene	105	18.838	18.839	-0.001	98	52195	0.4001	0.4224	
103 Butylcyclohexane	83	18.897	18.897	0.000	92	90046	0.4001	0.4304	
105 1,2-Dichlorobenzene	146	19.086	19.087	-0.001	89	64009	0.4001	0.4556	
104 2,3-Dihydroindene	117	19.086	19.087	-0.001	93	74472	0.4001	0.4569	
107 Indene	116	19.220	19.219	0.001	94	45883	0.4001	0.4131	
106 n-Butylbenzene	91	19.225	19.227	-0.002	98	82788	0.4001	0.4288	
108 Undecane	57	19.543	19.546	-0.003	96	70617	0.4001	0.4547	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.602	19.602	0.000	98	57805	0.4001	0.4113	
110 1,2-Dibromo-3-Chloropropan	157	19.699	19.698	0.001	95	16264	0.4001	0.3788	
111 1,2,4,5-Tetramethylbenzene	119	19.989	19.989	0.000	97	64731	0.4001	0.4000	
112 1,2,3,5-Tetramethylbenzene	119	20.043	20.044	-0.001	95	40879	0.4001	0.3977	
113 1,2,3,4-Tetramethylbenzene	119	20.441	20.440	0.001	97	50767	0.4001	0.3809	
114 Dodecane	57	20.608	20.607	0.001	95	50636	0.4001	0.3842	
115 1,2,4-Trichlorobenzene	180	20.796	20.796	0.000	94	28658	0.4001	0.3742	
116 Naphthalene	128	20.936	20.937	-0.001	99	52201	0.4001	0.3674	
117 Benzo(b)thiophene	134	21.044	21.042	0.002	99	24613	0.4001	0.3436	
118 Hexachlorobutadiene	225	21.157	21.157	0.000	87	58489	0.4001	0.4332	
119 1,2,3-Trichlorobenzene	180	21.227	21.227	0.000	94	26163	0.4001	0.3607	
120 2-Methylnaphthalene	142	21.921	21.921	0.000	96	7339	1.21	0.7692	
121 1-Methylnaphthalene	142	22.050	22.049	0.001	98	8021	1.21	0.7682	
A 124 Toluene Range	1	13.539	(13.509-13.569)		0	216753	0.4001	0.4103	
A 125 C8 Range	1	14.247	(14.216-14.297)		0	303706	0.4001	0.4353	
S 126 Xylenes, Total	100				0		1.20	1.45	
S 127 1,2-Dichloroethene, Total	1				0		0.8002	0.7759	

Reagents:

40L4DNP_00010

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC04.D

Injection Date: 24-Mar-2017 13:48:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: IC L4

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

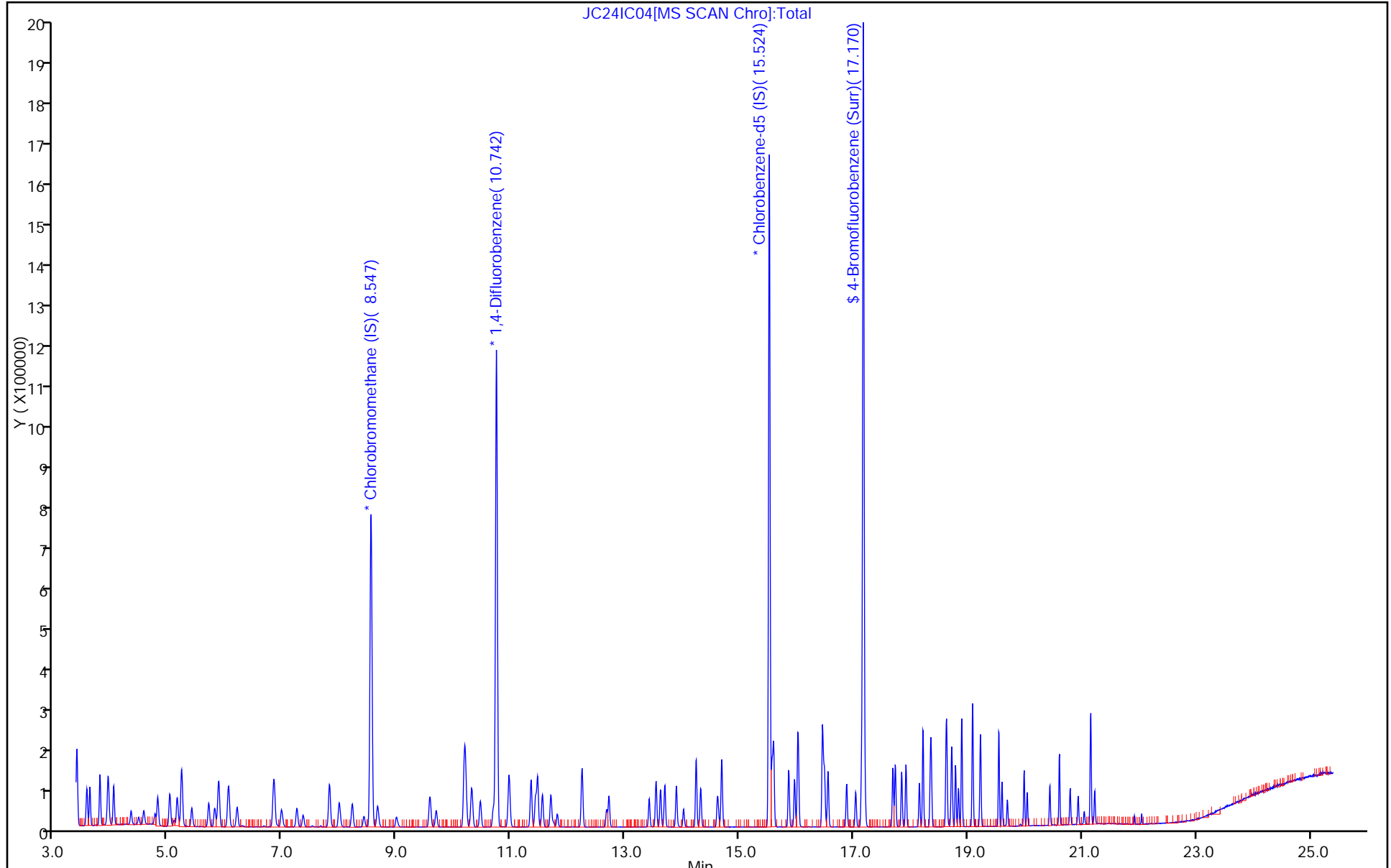
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC04.D

Injection Date: 24-Mar-2017 13:48:30

Instrument ID: MJ

Lims ID: IC L4

Client ID:

Operator ID: 007126

ALS Bottle#: 3

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

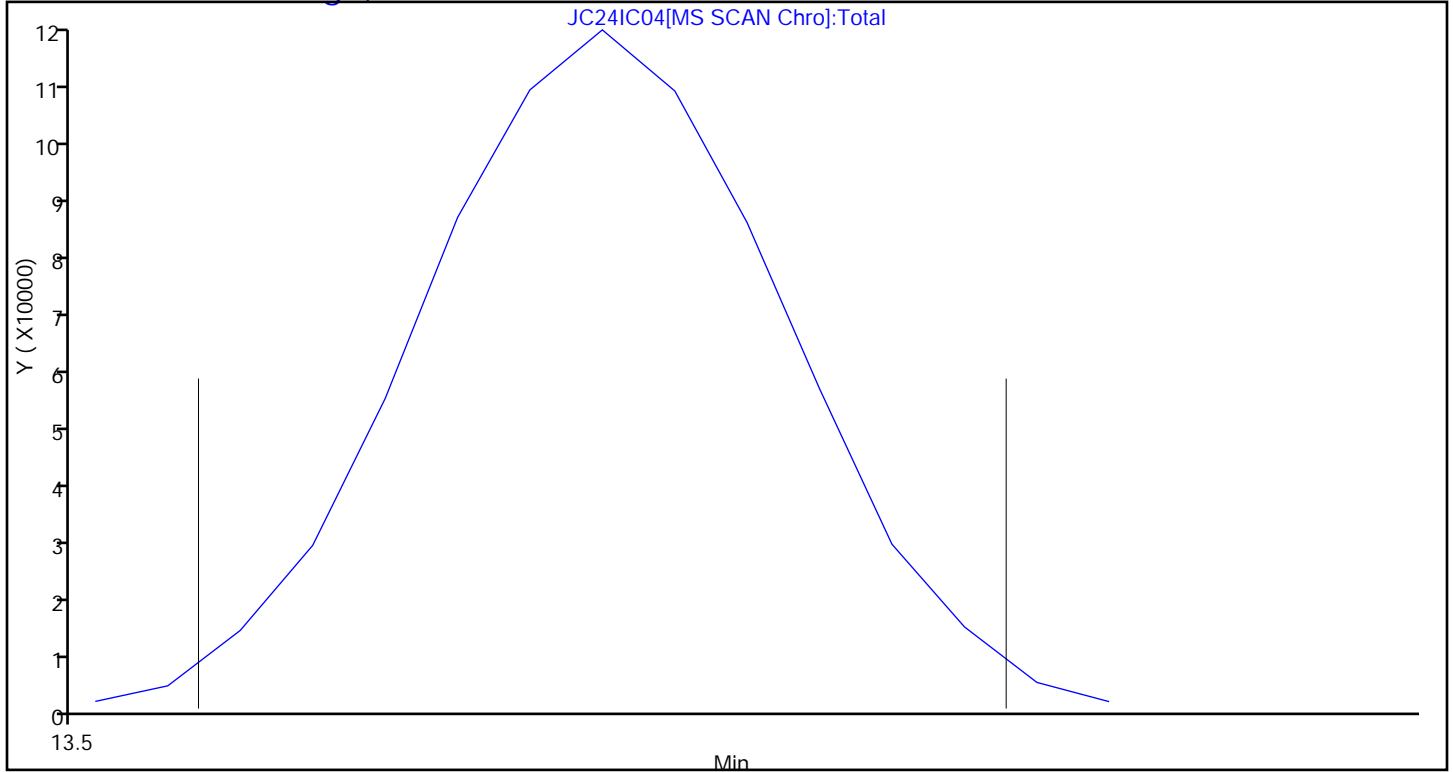
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC04.D

Injection Date: 24-Mar-2017 13:48:30

Instrument ID: MJ

Lims ID: IC L4

Client ID:

Operator ID: 007126

ALS Bottle#: 3

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

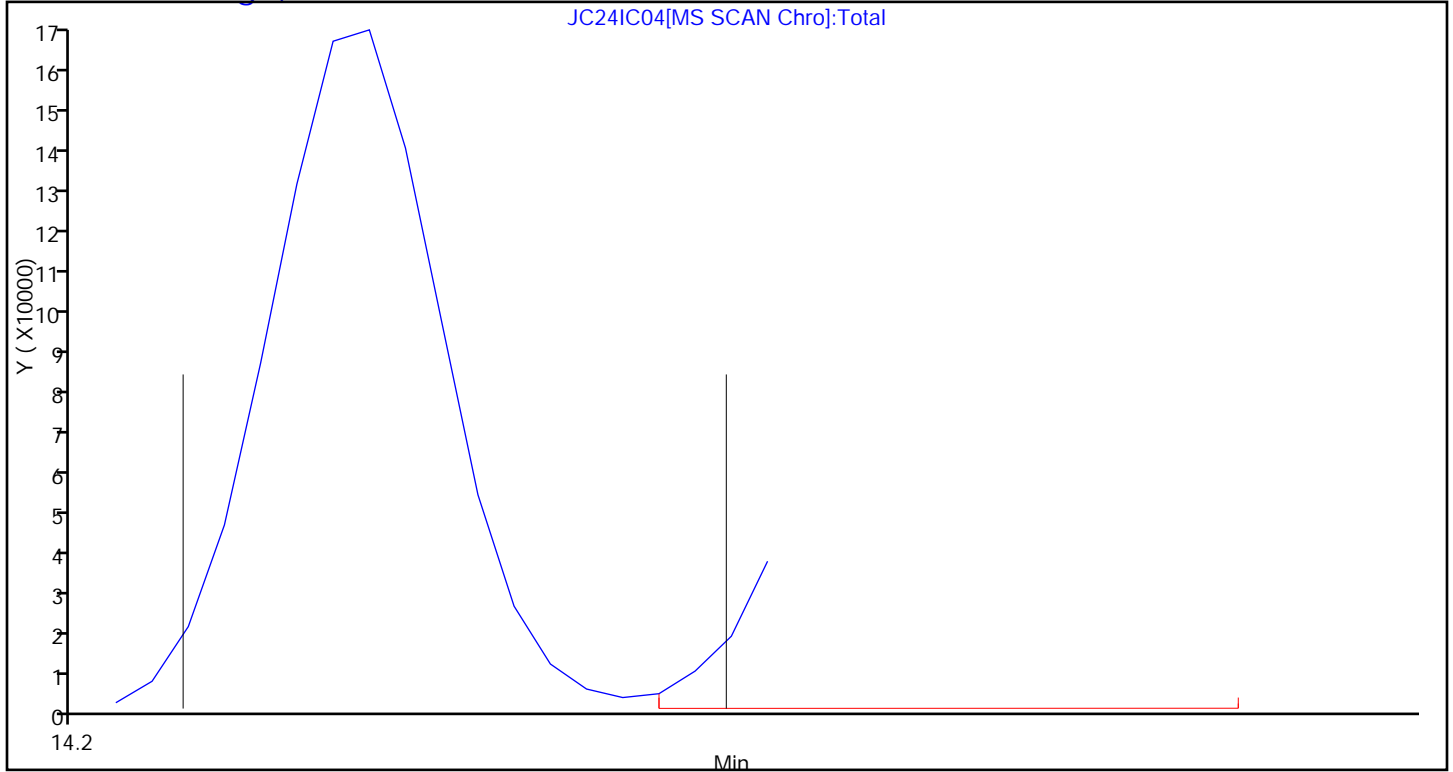
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC05.D
 Lims ID: IC L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 24-Mar-2017 14:35:30 ALS Bottle#: 4 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004355-006
 Misc. Info.: 083680
 Operator ID: 007126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 11:48:50 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh

Date: 24-Mar-2017 15:17:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.546	8.549	-0.003	96	265173	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.741	10.746	-0.005	95	1202269	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.523	15.525	-0.002	88	1106803	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.170	17.172	-0.002	95	767497	4.00	3.97	
6 Chlorodifluoromethane	67	3.560	3.563	-0.003	97	21639	1.00	0.9720	
7 Propene	41	3.570	3.572	-0.002	99	75414	1.00	0.9588	
8 Dichlorodifluoromethane	85	3.619	3.621	-0.002	100	219695	1.00	0.9666	
9 Chloromethane	52	3.791	3.795	-0.004	99	24297	1.00	0.9748	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.796	3.799	-0.003	92	108588	1.00	1.08	
11 Acetaldehyde	44	3.936	3.940	-0.004	99	125535	5.01	5.26	
12 Vinyl chloride	62	3.952	3.955	-0.003	99	72316	1.00	0.9865	
14 Butadiene	54	4.033	4.037	-0.004	68	53423	1.00	0.9724	
13 Butane	43	4.033	4.038	-0.005	85	108245	1.00	0.9797	
15 Bromomethane	94	4.340	4.343	-0.003	98	63511	1.00	0.9288	
16 Chloroethane	64	4.474	4.477	-0.003	94	31052	1.00	1.03	
17 Ethanol	31	4.560	4.568	-0.008	97	72742	5.01	4.65	
18 Vinyl bromide	106	4.759	4.762	-0.003	98	58059	1.00	0.9763	
19 2-Methylbutane	43	4.808	4.811	-0.003	94	96238	1.00	0.9727	
20 Trichlorofluoromethane	101	5.017	5.022	-0.005	99	208467	1.00	1.00	
21 Acrolein	56	5.033	5.034	-0.001	94	17846	1.00	0.9858	
22 Acetonitrile	40	5.093	5.098	-0.005	99	20225	1.00	0.8830	
23 Acetone	58	5.146	5.150	-0.004	98	66610	2.94	2.99	
24 Isopropyl alcohol	45	5.216	5.228	-0.012	95	247537	2.94	2.72	
25 Pentane	72	5.227	5.233	-0.006	97	12170	1.00	1.03	
26 Ethyl ether	31	5.399	5.407	-0.008	93	71239	1.00	1.01	
27 1,1-Dichloroethene	96	5.701	5.707	-0.006	96	79076	1.00	0.99	
28 2-Methyl-2-propanol	59	5.797	5.808	-0.011	95	92261	1.00	0.9383	
29 Acrylonitrile	53	5.808	5.809	-0.001	94	39574	1.00	1.00	
30 1,1,2-Trichloro-1,2,2-trif	101	5.873	5.878	-0.005	97	170020	1.00	1.01	
31 Methylene Chloride	84	6.039	6.043	-0.004	99	79092	1.00	0.9653	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.056	6.059	-0.003	94	77620	1.00	0.9675	
33 Carbon disulfide	76	6.201	6.203	-0.002	99	228634	1.00	0.9858	
34 trans-1,2-Dichloroethene	96	6.836	6.838	-0.002	97	82007	1.00	1.01	
35 2-Methylpentane	43	6.852	6.854	-0.002	96	188220	1.00	1.00	
36 Methyl tert-butyl ether	73	6.970	6.977	-0.007	97	117931	1.00	0.9709	
37 1,1-Dichloroethane	63	7.250	7.249	0.001	100	159357	1.00	1.00	
38 Vinyl acetate	43	7.357	7.359	-0.002	100	122602	1.00	0.9473	
39 2-Butanone (MEK)	72	7.804	7.810	-0.006	95	18341	1.00	0.9400	
40 Hexane	56	7.815	7.821	-0.006	89	69696	1.00	1.00	
41 Isopropyl ether	45	7.981	7.988	-0.007	98	162367	1.00	0.9412	
42 cis-1,2-Dichloroethene	96	8.218	8.220	-0.002	96	84853	1.00	1.00	
43 Ethyl acetate	43	8.417	8.423	-0.006	98	88516	1.00	0.9543	
44 Chloroform	83	8.557	8.561	-0.004	97	174118	1.00	0.99	
45 Tert-butyl ethyl ether	59	8.654	8.662	-0.008	96	131813	1.00	0.9563	
46 Tetrahydrofuran	42	8.982	8.989	-0.007	94	50465	1.00	0.9510	
47 1,1,1-Trichloroethane	97	9.579	9.579	0.000	96	180553	1.00	0.99	
48 1,2-Dichloroethane	62	9.687	9.691	-0.004	97	116036	1.00	1.01	
49 n-Butanol	31	10.160	10.166	-0.006	90	19278	1.00	0.9366	
50 Cyclohexane	69	10.182	10.185	-0.003	75	38721	1.00	1.07	
51 Benzene	78	10.182	10.186	-0.004	97	230160	1.00	0.9768	
52 Carbon tetrachloride	117	10.209	10.210	-0.001	97	186656	1.00	1.03	
53 2,3-Dimethylpentane	71	10.311	10.313	-0.002	91	52446	1.00	1.03	
54 Thiophene	84	10.461	10.464	-0.003	97	135457	1.00	1.01	
55 Tert-amyl methyl ether	73	10.682	10.688	-0.006	97	112168	1.00	0.9851	
56 Isooctane	57	10.962	10.965	-0.003	99	408197	1.00	1.00	
57 n-Heptane	71	11.349	11.353	-0.004	94	79541	1.00	1.01	
58 1,2-Dichloropropane	63	11.430	11.430	0.000	90	89216	1.00	1.04	
59 Trichloroethene	130	11.462	11.466	-0.004	98	125422	1.00	0.9852	
60 Dibromomethane	93	11.548	11.549	-0.001	96	99583	1.00	1.02	
62 Dichlorobromomethane	83	11.699	11.699	0.000	99	166313	1.00	1.02	
61 1,4-Dioxane	88	11.731	11.735	-0.004	91	19508	1.00	0.9665	
63 Methyl methacrylate	41	11.806	11.811	-0.005	93	51104	1.00	0.9350	
64 Methylcyclohexane	83	12.247	12.246	0.001	96	181878	1.00	1.03	
65 4-Methyl-2-pentanone (MIBK)	43	12.667	12.672	-0.005	97	92449	1.00	0.9159	
66 cis-1,3-Dichloropropene	75	12.715	12.717	-0.002	95	130533	1.00	1.02	
67 trans-1,3-Dichloropropene	75	13.420	13.421	-0.001	99	115599	1.00	1.05	
68 Toluene	91	13.538	13.542	-0.004	94	240173	1.00	1.03	
69 1,1,2-Trichloroethane	83	13.619	13.621	-0.002	98	76895	1.00	1.05	
70 2-Methylthiophene	97	13.694	13.695	-0.001	97	218937	1.00	1.04	
71 3-Methylthiophene	97	13.899	13.897	0.002	99	215106	1.00	1.04	
72 2-Hexanone	58	14.017	14.020	-0.003	93	47006	1.00	0.9734	
73 n-Octane	85	14.243	14.244	-0.001	96	81847	1.00	1.02	
74 Chlorodibromomethane	129	14.324	14.325	-0.001	98	162740	1.00	1.06	
75 Ethylene Dibromide	107	14.614	14.616	-0.002	99	143468	1.00	1.06	
76 Tetrachloroethene	129	14.690	14.690	0.000	96	100522	1.00	1.03	
78 Chlorobenzene	112	15.572	15.573	-0.001	95	209153	1.00	1.05	
77 2,3-Dimethylheptane	43	15.599	15.601	-0.002	96	254690	1.00	1.03	
79 Ethylbenzene	91	15.862	15.866	-0.004	99	284749	1.00	1.08	
80 2-Ethylthiophene	97	15.965	15.967	-0.002	98	228997	1.00	1.06	
81 m-Xylene & p-Xylene	91	16.029	16.029	0.000	99	423132	2.00	2.21	
82 n-Nonane	57	16.454	16.456	-0.002	94	178214	1.00	1.05	
83 Bromoform	173	16.476	16.474	0.002	97	165698	1.00	1.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	16.492	16.494	-0.002	99	156076	1.00	1.09	
85 o-Xylene	91	16.556	16.555	0.001	99	210753	1.00	1.08	
86 1,1,2,2-Tetrachloroethane	83	16.879	16.880	-0.001	99	140499	1.00	1.06	
87 1,2,3-Trichloropropane	110	17.040	17.039	0.001	98	33077	1.00	1.01	
88 Isopropylbenzene	105	17.143	17.143	0.000	97	256542	1.00	1.03	
89 N-Propylbenzene	120	17.691	17.690	0.001	99	65645	1.00	1.03	
90 2-Chlorotoluene	126	17.734	17.733	0.001	97	84237	1.00	1.06	
91 4-Ethyltoluene	105	17.842	17.845	-0.003	98	216891	1.00	1.00	
92 1,3,5-Trimethylbenzene	120	17.917	17.920	-0.003	93	101677	1.00	1.00	
93 Alpha Methyl Styrene	118	18.154	18.154	0.000	89	87652	1.00	1.00	
94 n-Decane	57	18.219	18.218	0.001	89	204347	1.00	1.08	
95 tert-Butylbenzene	119	18.348	18.349	-0.001	95	193770	1.00	1.00	
96 1,2,4-Trimethylbenzene	105	18.364	18.364	0.000	96	175803	1.00	1.00	
97 sec-Butylbenzene	105	18.622	18.623	-0.001	98	272134	1.00	1.02	
98 1,3-Dichlorobenzene	146	18.633	18.636	-0.003	98	179883	1.00	1.07	
99 Benzyl chloride	91	18.713	18.712	0.001	98	141453	1.00	1.03	
100 1,4-Dichlorobenzene	146	18.724	18.724	0.000	95	174308	1.00	1.07	
101 4-Isopropyltoluene	119	18.789	18.788	0.001	97	211366	1.00	1.01	
102 1,2,3-Trimethylbenzene	105	18.837	18.839	-0.002	98	133728	1.00	1.01	
103 Butylcyclohexane	83	18.896	18.897	-0.001	92	239041	1.00	1.06	
105 1,2-Dichlorobenzene	146	19.085	19.087	-0.002	91	163731	1.00	1.08	
104 2,3-Dihydroindene	117	19.085	19.087	-0.002	93	180784	1.00	1.03	
107 Indene	116	19.219	19.219	0.000	93	120836	1.00	1.01	
106 n-Butylbenzene	91	19.225	19.227	-0.003	99	209196	1.00	1.01	
108 Undecane	57	19.547	19.546	0.001	96	179487	1.00	1.08	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.601	19.602	-0.001	98	151244	1.00	1.00	
110 1,2-Dibromo-3-Chloropropan	157	19.698	19.698	0.000	94	48361	1.00	1.05	
111 1,2,4,5-Tetramethylbenzene	119	19.988	19.989	-0.001	97	173093	1.00	0.99	
112 1,2,3,5-Tetramethylbenzene	119	20.042	20.044	-0.002	95	107734	1.00	0.9751	
113 1,2,3,4-Tetramethylbenzene	119	20.440	20.440	0.000	97	143031	1.00	1.00	
114 Dodecane	57	20.607	20.607	0.000	95	161335	1.00	1.14	
115 1,2,4-Trichlorobenzene	180	20.795	20.796	-0.001	94	89202	1.00	1.08	
116 Naphthalene	128	20.935	20.937	-0.002	99	166284	1.00	1.09	
117 Benzo(b)thiophene	134	21.043	21.042	0.001	99	80463	1.00	1.04	
118 Hexachlorobutadiene	225	21.156	21.157	-0.001	95	162409	1.00	1.12	
119 1,2,3-Trichlorobenzene	180	21.226	21.227	-0.001	94	85944	1.00	1.10	
120 2-Methylnaphthalene	142	21.920	21.921	-0.001	100	36589	3.03	3.57	
121 1-Methylnaphthalene	142	22.049	22.049	0.000	99	41884	3.03	3.73	
A 124 Toluene Range	1	13.538	(13.508-13.568)		0	581924	1.00	1.02	
A 125 C8 Range	1	14.238	(14.199-14.296)		0	794616	1.00	1.06	
S 126 Xylenes, Total	100				0		3.01	3.29	
S 127 1,2-Dichloroethene, Total	1				0		2.00	2.01	

Reagents:

40L5DNP_00010

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC05.D

Injection Date: 24-Mar-2017 14:35:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: IC L5

Worklist Smp#: 6

Client ID:

Purge Vol: 500.000 mL

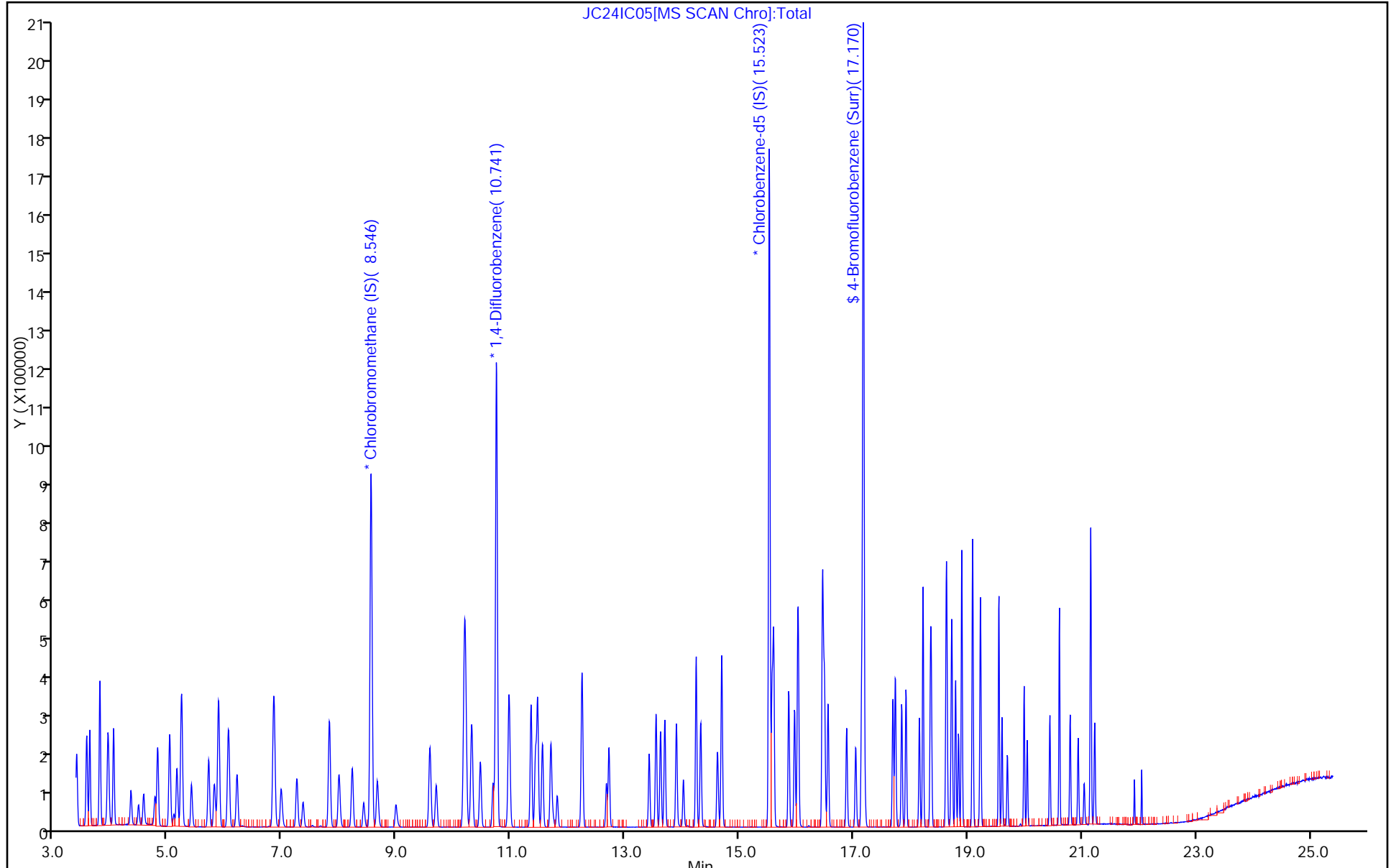
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC05.D

Injection Date: 24-Mar-2017 14:35:30

Instrument ID: MJ

Lims ID: IC L5

Client ID:

Operator ID: 007126

ALS Bottle#: 4

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

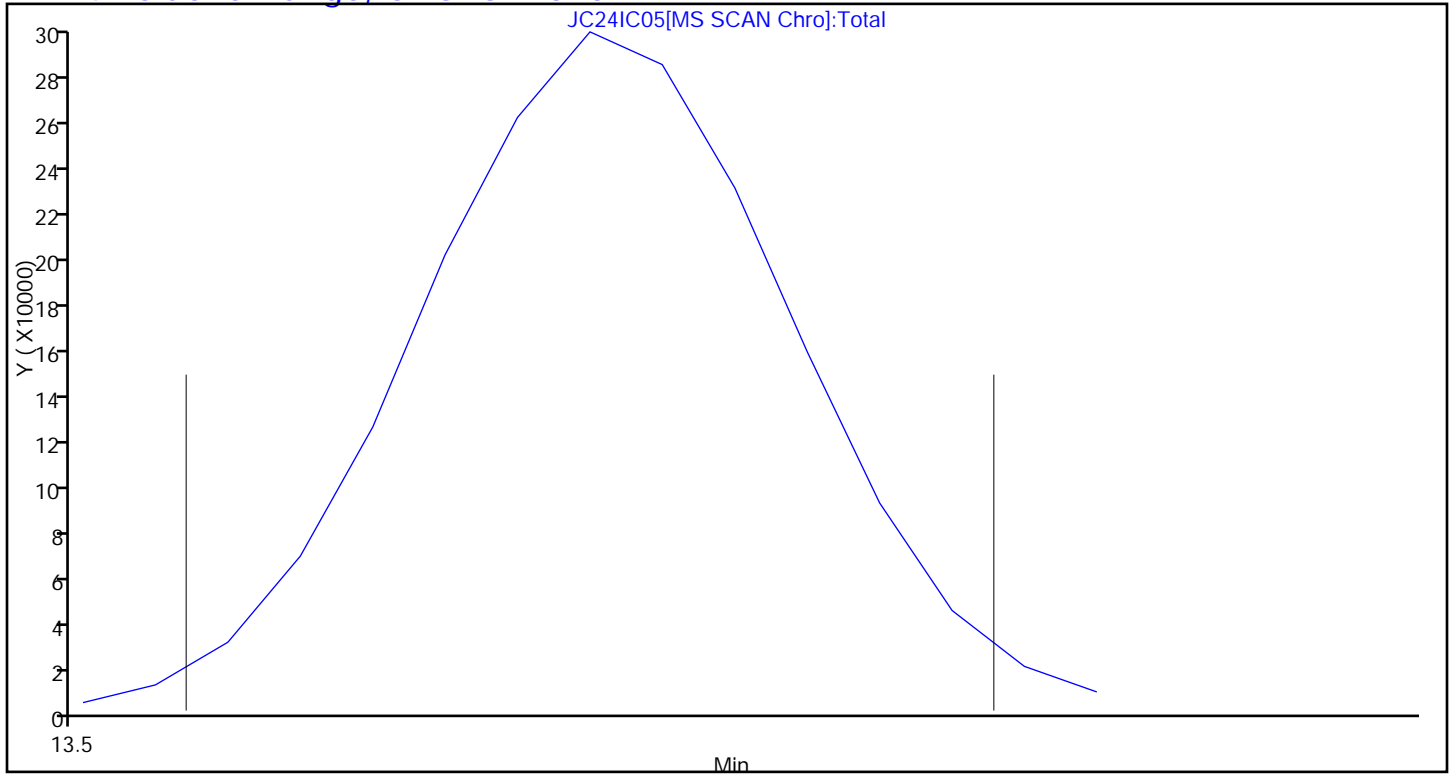
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC05.D

Injection Date: 24-Mar-2017 14:35:30

Instrument ID: MJ

Lims ID: IC L5

Client ID:

Operator ID: 007126

ALS Bottle#: 4

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

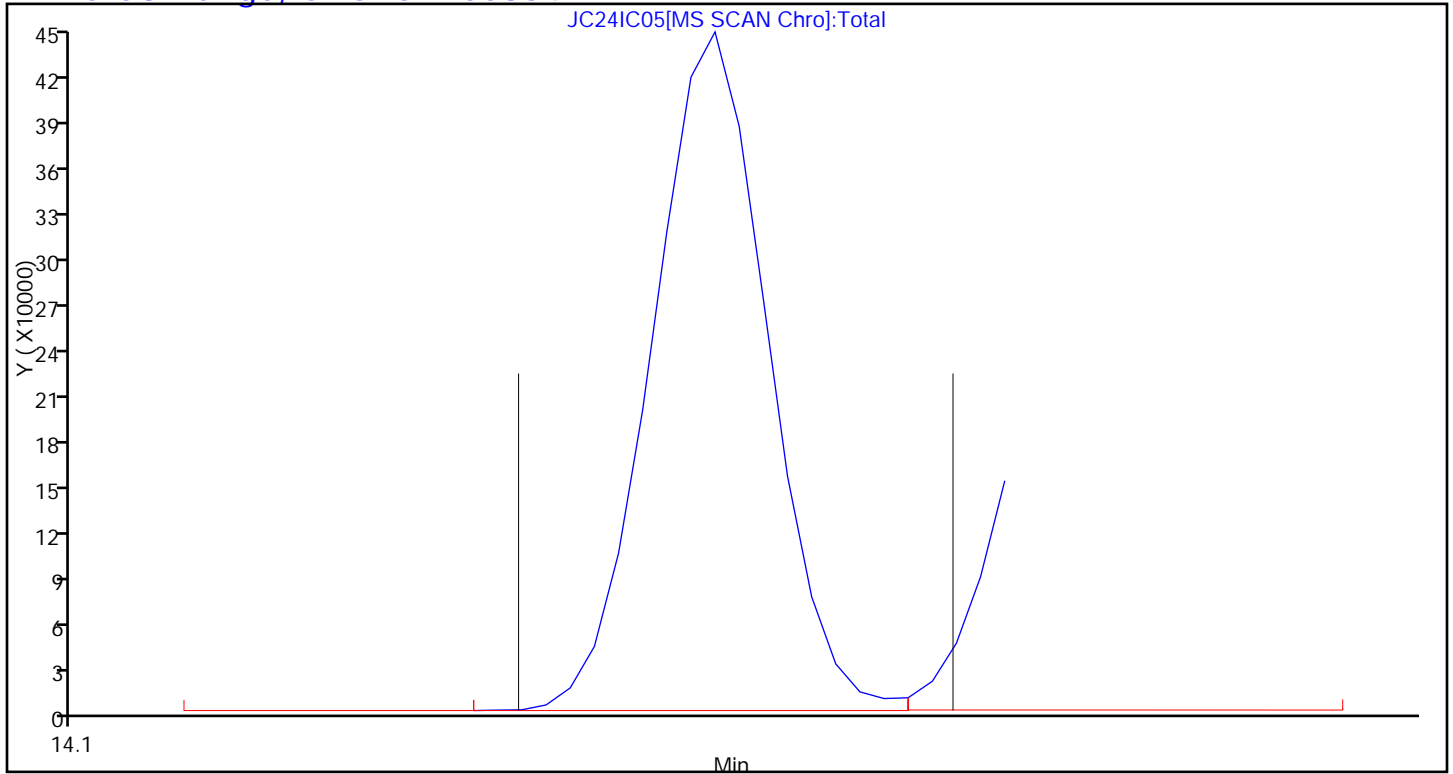
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC06.D
 Lims ID: ICIS L6
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 24-Mar-2017 15:21:30 ALS Bottle#: 5 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004355-007
 Misc. Info.: 083679
 Operator ID: 007126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 11:49:01 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh

Date: 24-Mar-2017 16:27:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.550	8.549	0.001	96	231580	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.745	10.746	-0.001	95	1083209	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.527	15.525	0.002	88	1056687	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.173	17.172	0.001	95	755928	4.00	4.10	
6 Chlorodifluoromethane	67	3.563	3.563	0.000	97	43402	2.00	2.23	
7 Propene	41	3.574	3.572	0.002	99	146518	2.00	2.13	
8 Dichlorodifluoromethane	85	3.622	3.621	0.001	100	433589	2.00	2.18	
9 Chloromethane	52	3.794	3.795	-0.001	99	45432	2.00	2.09	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.800	3.799	0.001	92	180886	2.00	2.06	
11 Acetaldehyde	44	3.940	3.940	0.000	99	209476	9.99	10.0	
12 Vinyl chloride	62	3.956	3.955	0.001	99	139468	2.00	2.18	
14 Butadiene	54	4.036	4.037	-0.001	68	104197	2.00	2.17	
13 Butane	43	4.036	4.038	-0.002	85	207548	2.00	2.15	
15 Bromomethane	94	4.343	4.343	0.000	98	122542	2.00	2.05	
16 Chloroethane	64	4.478	4.477	0.001	93	58830	2.00	2.23	
17 Ethanol	31	4.564	4.568	-0.004	96	146657	9.99	10.7	
18 Vinyl bromide	106	4.763	4.762	0.001	98	113140	2.00	2.18	
19 2-Methylbutane	43	4.811	4.811	0.000	92	180221	2.00	2.09	
20 Trichlorofluoromethane	101	5.021	5.022	-0.001	100	399106	2.00	2.19	
21 Acrolein	56	5.032	5.034	-0.002	92	30387	2.00	1.92	
22 Acetonitrile	40	5.096	5.098	-0.002	100	43287	2.00	2.16	
23 Acetone	58	5.145	5.150	-0.005	98	128336	5.87	6.60	
24 Isopropyl alcohol	45	5.220	5.228	-0.008	95	514406	5.87	6.46	
25 Pentane	72	5.236	5.233	0.003	95	23356	2.00	2.26	
26 Ethyl ether	31	5.403	5.407	-0.004	94	132014	2.00	2.15	
27 1,1-Dichloroethene	96	5.704	5.707	-0.003	96	152708	2.00	2.19	
28 2-Methyl-2-propanol	59	5.796	5.808	-0.012	95	193347	2.00	2.25	
29 Acrylonitrile	53	5.806	5.809	-0.003	94	73008	2.00	2.11	
30 1,1,2-Trichloro-1,2,2-trif	101	5.876	5.878	-0.002	97	328597	2.00	2.23	
31 Methylene Chloride	84	6.043	6.043	0.000	98	147376	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.059	6.059	0.000	95	160663	2.00	2.29	
33 Carbon disulfide	76	6.199	6.203	-0.004	99	449551	2.00	2.22	
34 trans-1,2-Dichloroethene	96	6.839	6.838	0.001	97	157327	2.00	2.22	
35 2-Methylpentane	43	6.855	6.854	0.001	96	359539	2.00	2.18	
36 Methyl tert-butyl ether	73	6.968	6.977	-0.009	97	234466	2.00	2.21	
37 1,1-Dichloroethane	63	7.248	7.249	-0.001	100	302332	2.00	2.18	
38 Vinyl acetate	43	7.356	7.359	-0.003	100	245483	2.00	2.17	
39 2-Butanone (MEK)	72	7.802	7.810	-0.008	95	38362	2.00	2.25	
40 Hexane	56	7.824	7.821	0.003	90	135250	2.00	2.22	
41 Isopropyl ether	45	7.985	7.988	-0.003	98	328842	2.00	2.18	
42 cis-1,2-Dichloroethene	96	8.222	8.220	0.002	96	163904	2.00	2.21	
43 Ethyl acetate	43	8.415	8.423	-0.008	99	187852	2.00	2.32	
44 Chloroform	83	8.561	8.561	0.000	97	330631	2.00	2.16	
45 Tert-butyl ethyl ether	59	8.657	8.662	-0.005	96	271417	2.00	2.25	
46 Tetrahydrofuran	42	8.980	8.989	-0.009	96	104869	2.00	2.26	
47 1,1,1-Trichloroethane	97	9.577	9.579	-0.002	96	351407	2.00	2.21	
48 1,2-Dichloroethane	62	9.690	9.691	-0.001	97	222582	2.00	2.16	
49 n-Butanol	31	10.153	10.166	-0.013	90	42083	2.00	2.27	
50 Cyclohexane	69	10.185	10.185	0.000	75	74470	2.00	2.28	
51 Benzene	78	10.185	10.186	-0.001	98	437140	2.00	2.06	
52 Carbon tetrachloride	117	10.212	10.210	0.002	97	362372	2.00	2.21	
53 2,3-Dimethylpentane	71	10.314	10.313	0.001	91	102755	2.00	2.23	
54 Thiophene	84	10.465	10.464	0.001	98	257056	2.00	2.13	
55 Tert-amyl methyl ether	73	10.685	10.688	-0.003	98	235550	2.00	2.17	M
56 Isooctane	57	10.965	10.965	0.000	99	778312	2.00	2.12	
57 n-Heptane	71	11.353	11.353	0.000	94	150262	2.00	2.13	
58 1,2-Dichloropropane	63	11.428	11.430	-0.002	91	166887	2.00	2.15	
59 Trichloroethene	130	11.466	11.466	0.000	97	248507	2.00	2.17	
60 Dibromomethane	93	11.552	11.549	0.003	96	194031	2.00	2.20	
62 Dichlorobromomethane	83	11.697	11.699	-0.002	99	321832	2.00	2.19	
61 1,4-Dioxane	88	11.729	11.735	-0.006	93	40831	2.00	2.25	
63 Methyl methacrylate	41	11.810	11.811	-0.001	92	112353	2.00	2.28	
64 Methylcyclohexane	83	12.246	12.246	0.000	95	347625	2.00	2.19	
65 4-Methyl-2-pentanone (MIBK)	43	12.671	12.672	-0.002	96	196853	2.00	2.16	
66 cis-1,3-Dichloropropene	75	12.719	12.717	0.002	95	254283	2.00	2.20	
67 trans-1,3-Dichloropropene	75	13.418	13.421	-0.003	99	222209	2.00	2.12	
68 Toluene	91	13.542	13.542	0.000	94	456364	2.00	2.04	
69 1,1,2-Trichloroethane	83	13.617	13.621	-0.004	99	144323	2.00	2.07	
70 2-Methylthiophene	97	13.693	13.695	-0.002	98	426102	2.00	2.12	
71 3-Methylthiophene	97	13.897	13.897	0.000	99	412267	2.00	2.10	
72 2-Hexanone	58	14.021	14.020	0.001	92	99511	2.00	2.16	
73 n-Octane	85	14.247	14.244	0.003	95	156495	2.00	2.04	
74 Chlorodibromomethane	129	14.322	14.325	-0.003	98	313571	2.00	2.15	
75 Ethylene Dibromide	107	14.618	14.616	0.002	99	278847	2.00	2.16	
76 Tetrachloroethene	129	14.688	14.690	-0.002	96	191531	2.00	2.06	
78 Chlorobenzene	112	15.575	15.573	0.002	94	397449	2.00	2.08	
77 2,3-Dimethylheptane	43	15.602	15.601	0.001	96	486182	2.00	2.05	
79 Ethylbenzene	91	15.866	15.866	0.000	99	517252	2.00	2.05	
80 2-Ethylthiophene	97	15.968	15.967	0.001	98	431981	2.00	2.09	
81 m-Xylene & p-Xylene	91	16.027	16.029	-0.002	99	735710	4.00	4.03	
82 n-Nonane	57	16.458	16.456	0.002	94	343171	2.00	2.11	
83 Bromoform	173	16.474	16.474	0.000	97	295766	2.00	2.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	16.495	16.494	0.001	99	284470	2.00	2.09	
85 o-Xylene	91	16.554	16.555	-0.001	99	367193	2.00	1.97	
86 1,1,2,2-Tetrachloroethane	83	16.877	16.880	-0.003	99	268605	2.00	2.12	
87 1,2,3-Trichloropropane	110	17.039	17.039	0.000	98	64921	2.00	2.08	
88 Isopropylbenzene	105	17.141	17.143	-0.002	97	464464	2.00	1.96	
89 N-Propylbenzene	120	17.690	17.690	0.000	99	126374	2.00	2.07	
90 2-Chlorotoluene	126	17.733	17.733	0.000	97	155813	2.00	2.06	
91 4-Ethyltoluene	105	17.846	17.845	0.001	98	431615	2.00	2.08	
92 1,3,5-Trimethylbenzene	120	17.921	17.920	0.001	93	204275	2.00	2.10	
93 Alpha Methyl Styrene	118	18.152	18.154	-0.002	88	178912	2.00	2.14	
94 n-Decane	57	18.217	18.218	-0.001	89	375067	2.00	2.08	
95 tert-Butylbenzene	119	18.351	18.349	0.002	93	386891	2.00	2.09	
96 1,2,4-Trimethylbenzene	105	18.362	18.364	-0.002	96	355471	2.00	2.13	
97 sec-Butylbenzene	105	18.620	18.623	-0.003	98	530500	2.00	2.09	
98 1,3-Dichlorobenzene	146	18.636	18.636	0.000	98	339062	2.00	2.12	
99 Benzyl chloride	91	18.712	18.712	0.000	98	291022	2.00	2.22	
100 1,4-Dichlorobenzene	146	18.722	18.724	-0.002	95	331460	2.00	2.14	
101 4-Isopropyltoluene	119	18.787	18.788	-0.001	97	432952	2.00	2.16	
102 1,2,3-Trimethylbenzene	105	18.841	18.839	0.002	98	267294	2.00	2.11	
103 Butylcyclohexane	83	18.895	18.897	-0.002	92	447237	2.00	2.08	
105 1,2-Dichlorobenzene	146	19.088	19.087	0.001	89	297580	2.00	2.06	
104 2,3-Dihydroindene	117	19.088	19.087	0.001	93	349528	2.00	2.09	
107 Indene	116	19.217	19.219	-0.002	92	244429	2.00	2.14	
106 n-Butylbenzene	91	19.228	19.227	0.001	98	423537	2.00	2.14	
108 Undecane	57	19.545	19.546	-0.001	96	340608	2.00	2.14	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.599	19.602	-0.003	98	311817	2.00	2.16	
110 1,2-Dibromo-3-Chloropropan	157	19.696	19.698	-0.002	97	94829	2.00	2.15	
111 1,2,4,5-Tetramethylbenzene	119	19.987	19.989	-0.002	97	358561	2.00	2.16	
112 1,2,3,5-Tetramethylbenzene	119	20.046	20.044	0.002	95	220501	2.00	2.09	
113 1,2,3,4-Tetramethylbenzene	119	20.438	20.440	-0.002	97	283775	2.00	2.07	
114 Dodecane	57	20.605	20.607	-0.002	95	309677	2.00	2.29	
115 1,2,4-Trichlorobenzene	180	20.793	20.796	-0.003	94	180641	2.00	2.30	
116 Naphthalene	128	20.933	20.937	-0.004	99	339004	2.00	2.32	
117 Benzo(b)thiophene	134	21.041	21.042	-0.001	99	166740	2.00	2.27	
118 Hexachlorobutadiene	225	21.159	21.157	0.002	95	284742	2.00	2.05	
119 1,2,3-Trichlorobenzene	180	21.224	21.227	-0.003	94	166727	2.00	2.24	
120 2-Methylnaphthalene	142	21.923	21.921	0.002	100	74396	6.04	7.60	
121 1-Methylnaphthalene	142	22.047	22.049	-0.002	99	78987	6.04	7.37	
A 124 Toluene Range	1	13.542	(13.512-13.572)		0	1117814	2.00	2.06	
A 125 C8 Range	1	14.241	(14.214-14.310)		0	1508522	2.00	2.11	
S 126 Xylenes, Total	100				0		5.99	6.00	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.43	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

40L6DNP_00011

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC06.D

Injection Date: 24-Mar-2017 15:21:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: ICIS L6

Worklist Smp#: 7

Client ID:

Purge Vol: 500.000 mL

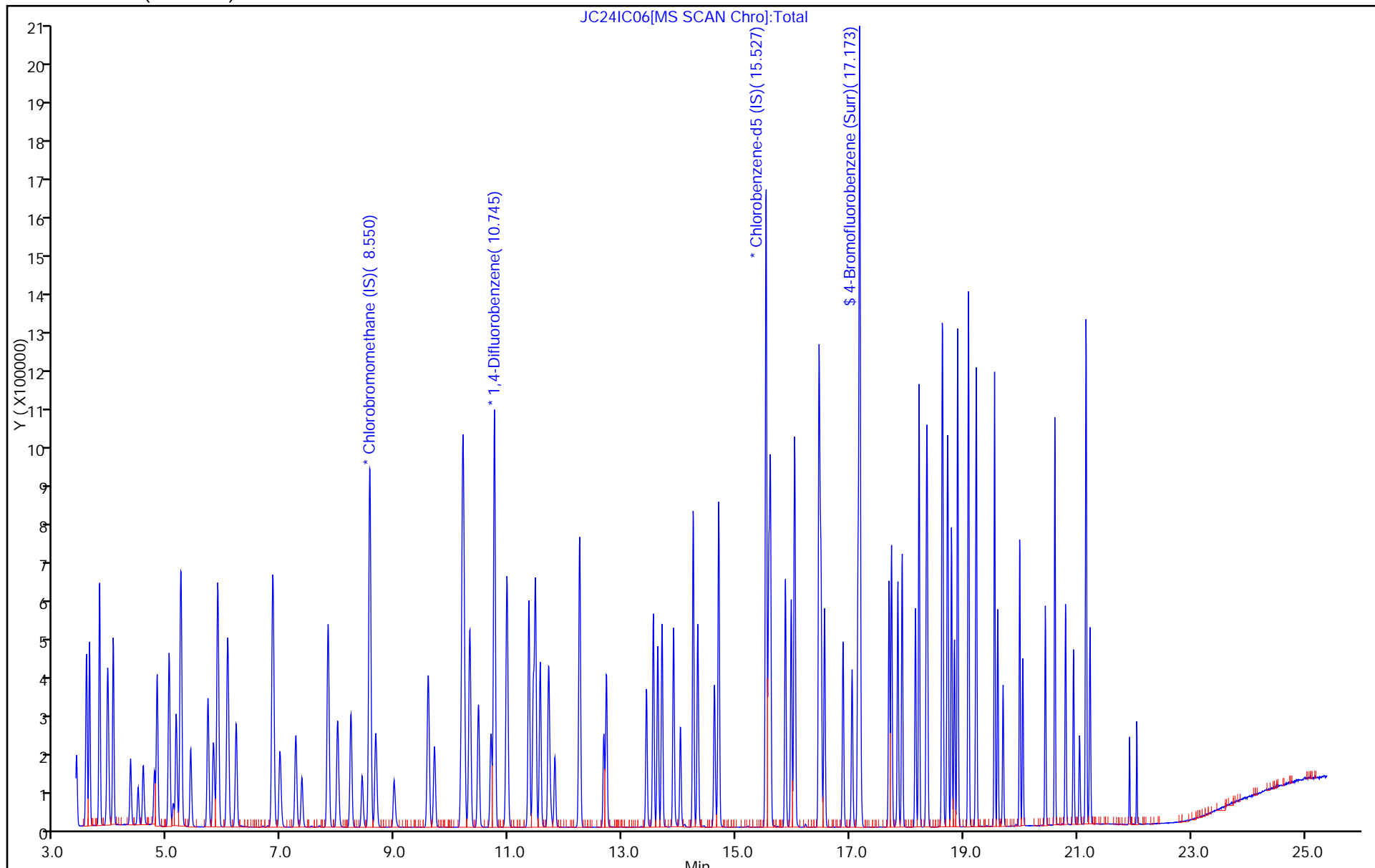
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC06.D

Injection Date: 24-Mar-2017 15:21:30

Instrument ID: MJ

Lims ID: ICIS L6

Client ID:

Operator ID: 007126

ALS Bottle#: 5

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

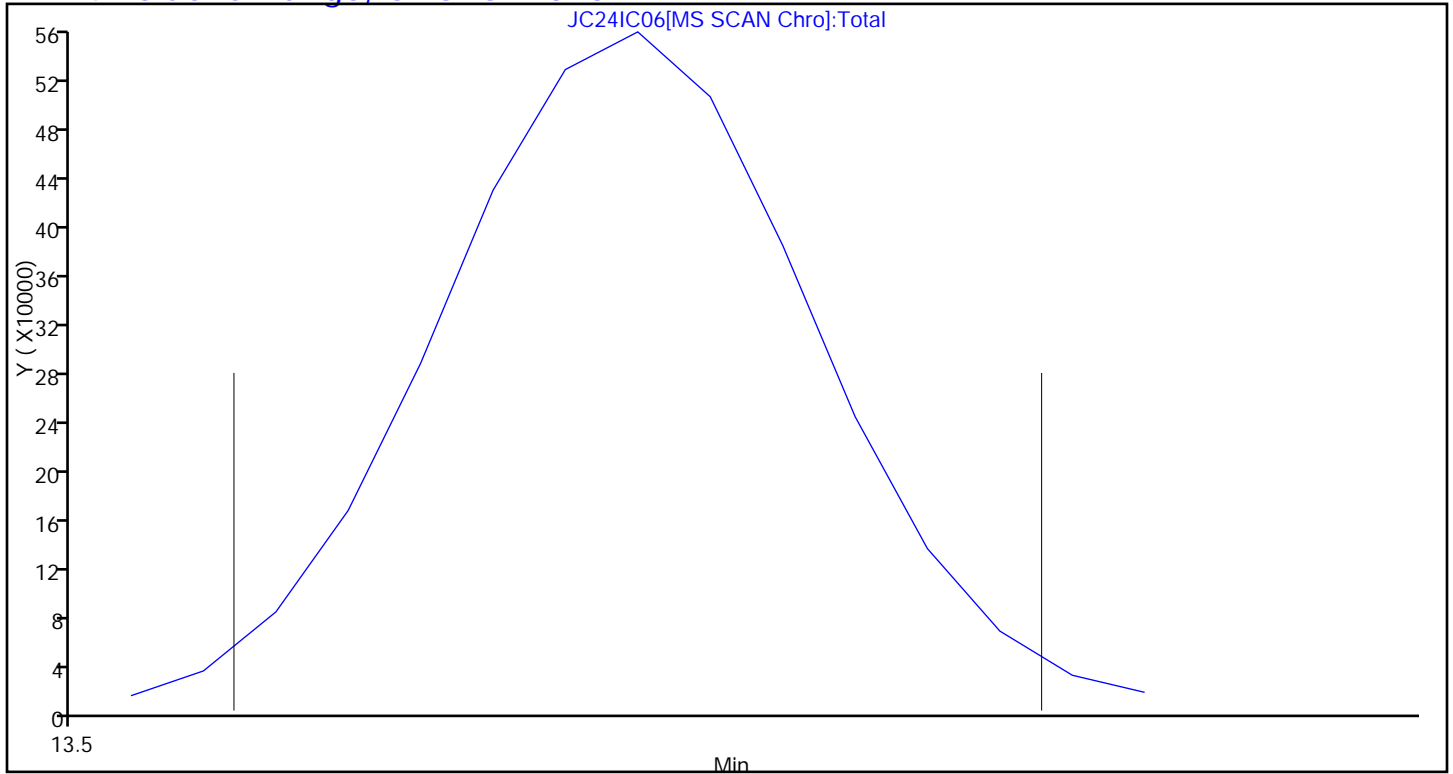
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC06.D

Injection Date: 24-Mar-2017 15:21:30

Instrument ID: MJ

Lims ID: ICIS L6

Client ID:

Operator ID: 007126

ALS Bottle#: 5

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

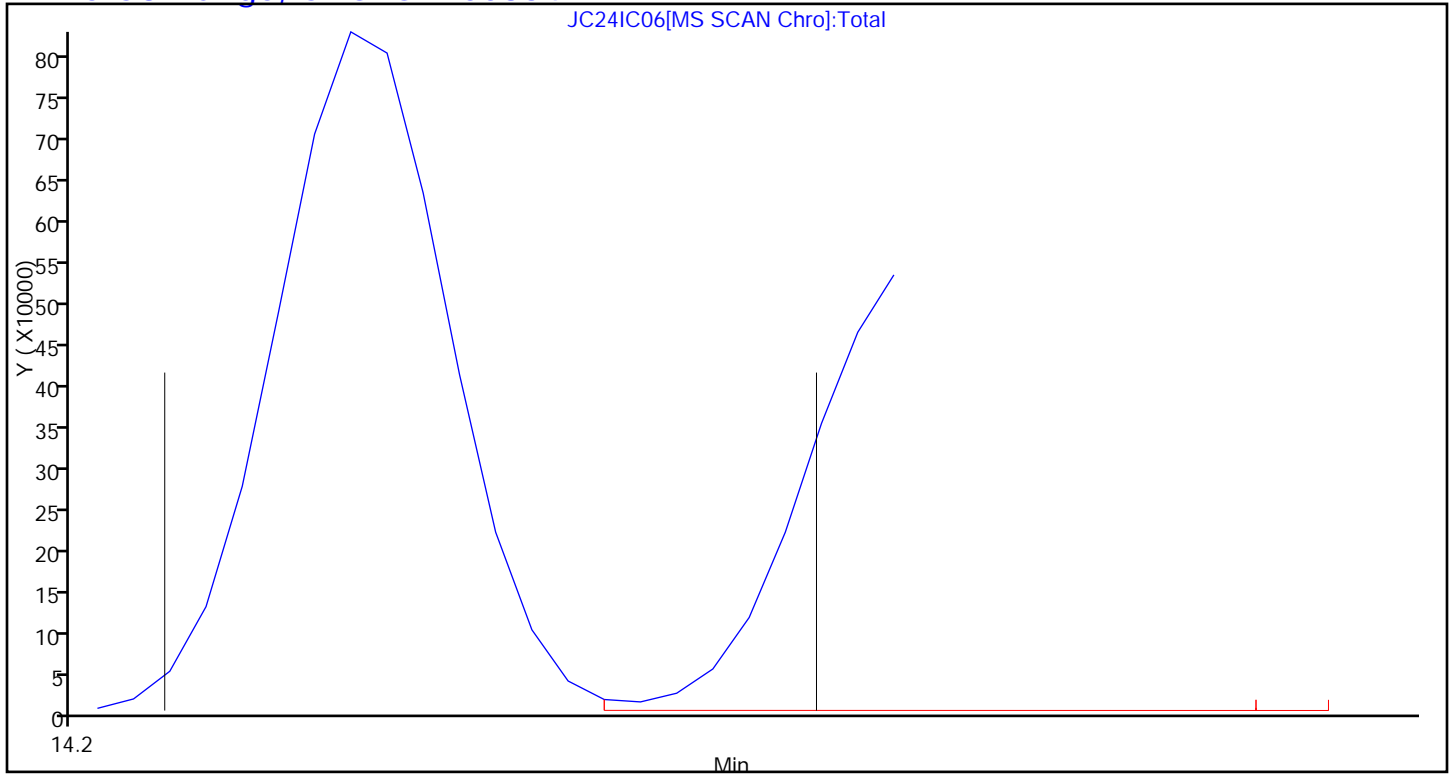
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville

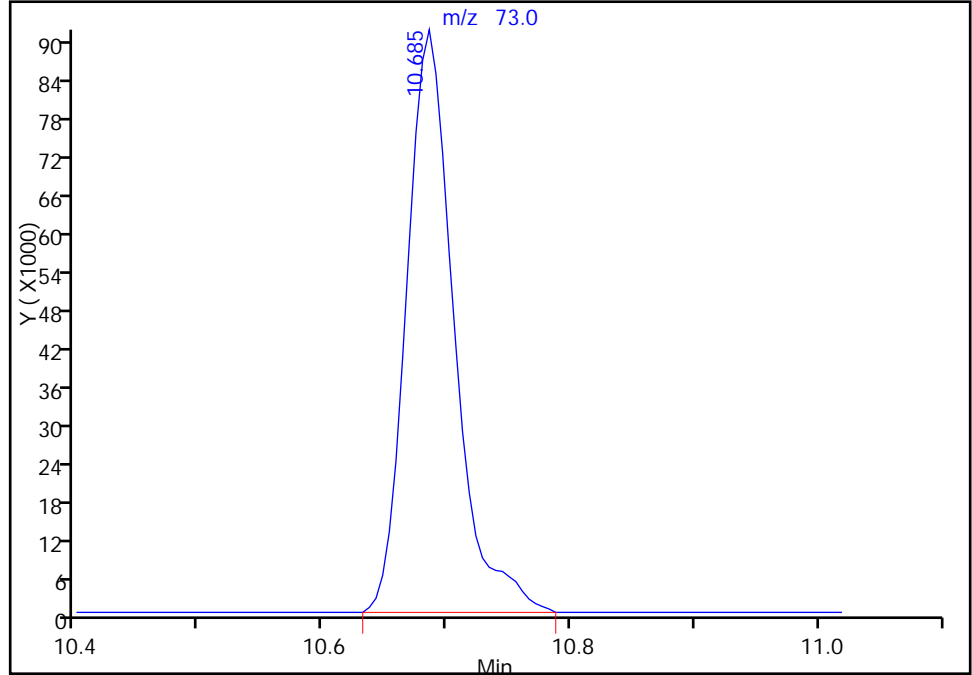
Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC06.D
Injection Date: 24-Mar-2017 15:21:30 Instrument ID: MJ
Lims ID: ICIS L6
Client ID:
Operator ID: 007126 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

55 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

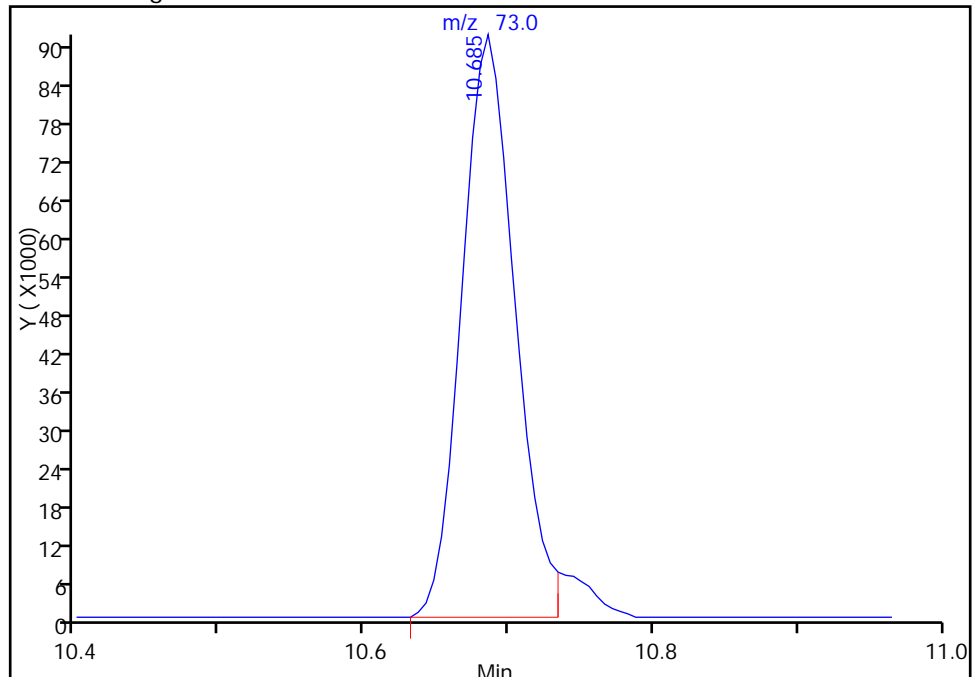
RT: 10.69
Area: 245824
Amount: 2.242244
Amount Units: ppb v/v

Processing Integration Results



RT: 10.69
Area: 235550
Amount: 2.166901
Amount Units: ppb v/v

Manual Integration Results



Reviewer: barlozhetskayaa, 27-Mar-2017 11:48:57

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC07.D
 Lims ID: IC L7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 24-Mar-2017 16:06:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004355-008
 Misc. Info.: 083678
 Operator ID: 007126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 11:49:24 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 25-Mar-2017 12:07:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.549	8.549	0.000	96	254765	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.750	10.746	0.004	95	1118607	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.527	15.525	0.002	87	1077711	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.173	17.172	0.001	95	759541	4.00	4.04	
6 Chlorodifluoromethane	67	3.563	3.563	0.000	97	85529	4.00	4.00	
7 Propene	41	3.573	3.572	0.001	99	283520	4.00	3.75	
8 Dichlorodifluoromethane	85	3.622	3.621	0.001	100	851279	4.00	3.90	
9 Chloromethane	52	3.794	3.795	-0.001	99	88555	4.00	3.70	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.799	3.799	0.000	92	365483	4.00	3.78	
11 Acetaldehyde	44	3.939	3.940	-0.001	99	388595	20.0	16.9	
12 Vinyl chloride	62	3.955	3.955	0.000	99	275832	4.00	3.92	
14 Butadiene	54	4.041	4.037	0.004	69	206478	4.00	3.91	
13 Butane	43	4.041	4.038	0.003	85	406745	4.00	3.83	
15 Bromomethane	94	4.343	4.343	0.000	99	248962	4.00	3.79	
16 Chloroethane	64	4.477	4.477	0.000	95	117703	4.00	4.06	
17 Ethanol	31	4.569	4.568	0.001	96	275139	20.0	18.3	
18 Vinyl bromide	106	4.762	4.762	0.000	98	231133	4.00	4.05	
19 2-Methylbutane	43	4.811	4.811	0.000	92	366269	4.00	3.85	
20 Trichlorofluoromethane	101	5.020	5.022	-0.002	100	815022	4.00	4.07	
21 Acrolein	56	5.031	5.034	-0.003	94	65230	4.00	3.75	
22 Acetonitrile	40	5.096	5.098	-0.002	98	81334	4.00	3.70	
23 Acetone	58	5.144	5.150	-0.006	98	223745	11.7	10.5	
24 Isopropyl alcohol	45	5.225	5.228	-0.003	97	992211	11.7	11.3	
25 Pentane	72	5.236	5.233	0.003	95	48246	4.00	4.24	
26 Ethyl ether	31	5.402	5.407	-0.005	94	258181	4.00	3.83	
27 1,1-Dichloroethene	96	5.709	5.707	0.002	96	312906	4.00	4.08	
28 2-Methyl-2-propanol	59	5.800	5.808	-0.008	95	383148	4.00	4.06	
29 Acrylonitrile	53	5.811	5.809	0.002	96	146018	4.00	3.84	
30 1,1,2-Trichloro-1,2,2-trif	101	5.876	5.878	-0.002	97	654655	4.00	4.04	
31 Methylene Chloride	84	6.048	6.043	0.005	99	284917	4.00	3.62	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.064	6.059	0.005	95	304356	4.00	3.95	
33 Carbon disulfide	76	6.204	6.203	0.001	99	903118	4.00	4.05	
34 trans-1,2-Dichloroethene	96	6.839	6.838	0.001	97	318056	4.00	4.08	
35 2-Methylpentane	43	6.855	6.854	0.001	96	714622	4.00	3.94	
36 Methyl tert-butyl ether	73	6.973	6.977	-0.004	97	449702	4.00	3.85	
37 1,1-Dichloroethane	63	7.253	7.249	0.004	100	605318	4.00	3.97	
38 Vinyl acetate	43	7.361	7.359	0.002	100	465416	4.00	3.74	
39 2-Butanone (MEK)	72	7.802	7.810	-0.008	94	69526	4.00	3.71	
40 Hexane	56	7.823	7.821	0.002	91	268736	4.00	4.02	
41 Isopropyl ether	45	7.990	7.988	0.002	98	622559	4.00	3.76	
42 cis-1,2-Dichloroethene	96	8.221	8.220	0.001	96	329150	4.00	4.03	
43 Ethyl acetate	43	8.420	8.423	-0.003	99	345012	4.00	3.87	
44 Chloroform	83	8.566	8.561	0.005	98	655318	4.00	3.90	
45 Tert-butyl ethyl ether	59	8.657	8.662	-0.005	96	512444	4.00	3.87	
46 Tetrahydrofuran	42	8.980	8.989	-0.009	95	196593	4.00	3.86	
47 1,1,1-Trichloroethane	97	9.582	9.579	0.003	96	706900	4.00	4.04	
48 1,2-Dichloroethane	62	9.690	9.691	-0.001	97	442977	4.00	4.16	
49 n-Butanol	31	10.152	10.166	-0.014	86	84359	4.00	4.40	
50 Cyclohexane	69	10.190	10.185	0.005	74	149186	4.00	4.42	
51 Benzene	78	10.185	10.186	-0.001	98	855015	4.00	3.90	
52 Carbon tetrachloride	117	10.212	10.210	0.002	97	732758	4.00	4.33	
53 2,3-Dimethylpentane	71	10.314	10.313	0.001	91	202681	4.00	4.27	
54 Thiophene	84	10.464	10.464	0.000	97	514735	4.00	4.14	
55 Tert-amyl methyl ether	73	10.685	10.688	-0.003	97	439396	4.00	3.96	M
56 Isooctane	57	10.965	10.965	0.000	99	1527164	4.00	4.03	
57 n-Heptane	71	11.352	11.353	-0.001	93	296746	4.00	4.07	
58 1,2-Dichloropropane	63	11.433	11.430	0.003	91	337576	4.00	4.22	
59 Trichloroethene	130	11.470	11.466	0.004	96	489195	4.00	4.13	
60 Dibromomethane	93	11.551	11.549	0.002	95	376491	4.00	4.13	
62 Dichlorobromomethane	83	11.702	11.699	0.003	99	647712	4.00	4.27	
61 1,4-Dioxane	88	11.729	11.735	-0.006	93	77550	4.00	4.13	
63 Methyl methacrylate	41	11.809	11.811	-0.002	92	207785	4.00	4.09	
64 Methylcyclohexane	83	12.245	12.246	-0.001	95	680111	4.00	4.15	
65 4-Methyl-2-pentanone (MIBK)	43	12.670	12.672	-0.002	96	385671	4.00	4.11	
66 cis-1,3-Dichloropropene	75	12.718	12.717	0.001	94	509357	4.00	4.26	
67 trans-1,3-Dichloropropene	75	13.423	13.421	0.002	99	454066	4.00	4.24	
68 Toluene	91	13.542	13.542	0.000	94	915773	4.00	4.02	
69 1,1,2-Trichloroethane	83	13.622	13.621	0.001	99	292125	4.00	4.11	
70 2-Methylthiophene	97	13.698	13.695	0.003	97	848277	4.00	4.14	
71 3-Methylthiophene	97	13.897	13.897	0.000	99	828956	4.00	4.13	
72 2-Hexanone	58	14.015	14.020	-0.005	93	200606	4.00	4.27	
73 n-Octane	85	14.246	14.244	0.002	95	308131	4.00	3.94	
74 Chlorodibromomethane	129	14.327	14.325	0.002	98	653988	4.00	4.39	
75 Ethylene Dibromide	107	14.617	14.616	0.001	100	557685	4.00	4.25	
76 Tetrachloroethene	129	14.693	14.690	0.003	96	375100	4.00	3.96	
78 Chlorobenzene	112	15.575	15.573	0.002	94	784490	4.00	4.03	
77 2,3-Dimethylheptane	43	15.602	15.601	0.001	96	930604	4.00	3.85	
79 Ethylbenzene	91	15.865	15.866	-0.001	99	1025077	4.00	3.98	
80 2-Ethylthiophene	97	15.968	15.967	0.001	98	859967	4.00	4.08	
81 m-Xylene & p-Xylene	91	16.027	16.029	-0.002	99	1471883	8.00	7.91	
82 n-Nonane	57	16.457	16.456	0.001	93	656530	4.00	3.96	
83 Bromoform	173	16.473	16.474	-0.001	97	691238	4.00	4.62	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	16.495	16.494	0.001	99	579696	4.00	4.17	
85 o-Xylene	91	16.554	16.555	-0.001	99	730773	4.00	3.85	
86 1,1,2,2-Tetrachloroethane	83	16.882	16.880	0.002	99	516240	4.00	4.00	
87 1,2,3-Trichloropropane	110	17.038	17.039	-0.001	98	122279	4.00	3.83	
88 Isopropylbenzene	105	17.140	17.143	-0.003	97	914971	4.00	3.79	
89 N-Propylbenzene	120	17.689	17.690	-0.001	99	241768	4.00	3.88	
90 2-Chlorotoluene	126	17.732	17.733	-0.001	97	307196	4.00	3.99	
91 4-Ethyltoluene	105	17.845	17.845	0.000	98	812221	4.00	3.84	
92 1,3,5-Trimethylbenzene	120	17.920	17.920	0.000	93	377863	4.00	3.81	
93 Alpha Methyl Styrene	118	18.152	18.154	-0.002	89	364260	4.00	4.27	
94 n-Decane	57	18.216	18.218	-0.002	89	731024	4.00	3.97	
95 tert-Butylbenzene	119	18.351	18.349	0.002	91	710529	4.00	3.76	
96 1,2,4-Trimethylbenzene	105	18.362	18.364	-0.002	96	651135	4.00	3.82	
97 sec-Butylbenzene	105	18.625	18.623	0.002	99	982166	4.00	3.80	
98 1,3-Dichlorobenzene	146	18.636	18.636	0.000	99	660724	4.00	4.04	
99 Benzyl chloride	91	18.711	18.712	-0.001	98	565161	4.00	4.22	
100 1,4-Dichlorobenzene	146	18.722	18.724	-0.002	95	648039	4.00	4.10	
101 4-Isopropyltoluene	119	18.787	18.788	-0.001	97	797486	4.00	3.90	
102 1,2,3-Trimethylbenzene	105	18.840	18.839	0.001	98	493601	4.00	3.82	
103 Butylcyclohexane	83	18.899	18.897	0.002	92	868816	4.00	3.97	
105 1,2-Dichlorobenzene	146	19.088	19.087	0.001	90	574045	4.00	3.90	
104 2,3-Dihydroindene	117	19.088	19.087	0.001	94	645298	4.00	3.78	
107 Indene	116	19.217	19.219	-0.002	90	461247	4.00	3.97	
106 n-Butylbenzene	91	19.228	19.227	0.001	98	763788	4.00	3.78	
108 Undecane	57	19.545	19.546	-0.001	96	636409	4.00	3.92	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.604	19.602	0.002	98	564527	4.00	3.84	
110 1,2-Dibromo-3-Chloropropan	157	19.696	19.698	-0.002	98	194383	4.00	4.33	
111 1,2,4,5-Tetramethylbenzene	119	19.992	19.989	0.003	97	657901	4.00	3.88	
112 1,2,3,5-Tetramethylbenzene	119	20.045	20.044	0.001	96	405521	4.00	3.77	
113 1,2,3,4-Tetramethylbenzene	119	20.438	20.440	-0.002	97	528556	4.00	3.79	
114 Dodecane	57	20.605	20.607	-0.002	95	557521	4.00	4.04	
115 1,2,4-Trichlorobenzene	180	20.798	20.796	0.002	94	333949	4.00	4.17	
116 Naphthalene	128	20.938	20.937	0.001	99	618026	4.00	4.16	
117 Benzo(b)thiophene	134	21.041	21.042	-0.001	99	307143	4.00	4.10	
118 Hexachlorobutadiene	225	21.159	21.157	0.002	95	538916	4.00	3.81	
119 1,2,3-Trichlorobenzene	180	21.229	21.227	0.002	94	300947	4.00	3.96	
120 2-Methylnaphthalene	142	21.923	21.921	0.002	99	137333	12.1	13.8	
121 1-Methylnaphthalene	142	22.046	22.049	-0.003	100	139874	12.1	12.8	
A 124 Toluene Range	1	13.542	(13.512-13.572)		0	2249708	4.00	4.07	
A 125 C8 Range	1	14.235	(14.202-14.299)		0	2944501	4.00	4.03	
S 126 Xylenes, Total	100				0		12.0	11.8	
S 127 1,2-Dichloroethene, Total	1				0		8.00	8.11	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

40L7DNP_00010

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC07.D

Injection Date: 24-Mar-2017 16:06:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: IC L7

Worklist Smp#: 8

Client ID:

Purge Vol: 500.000 mL

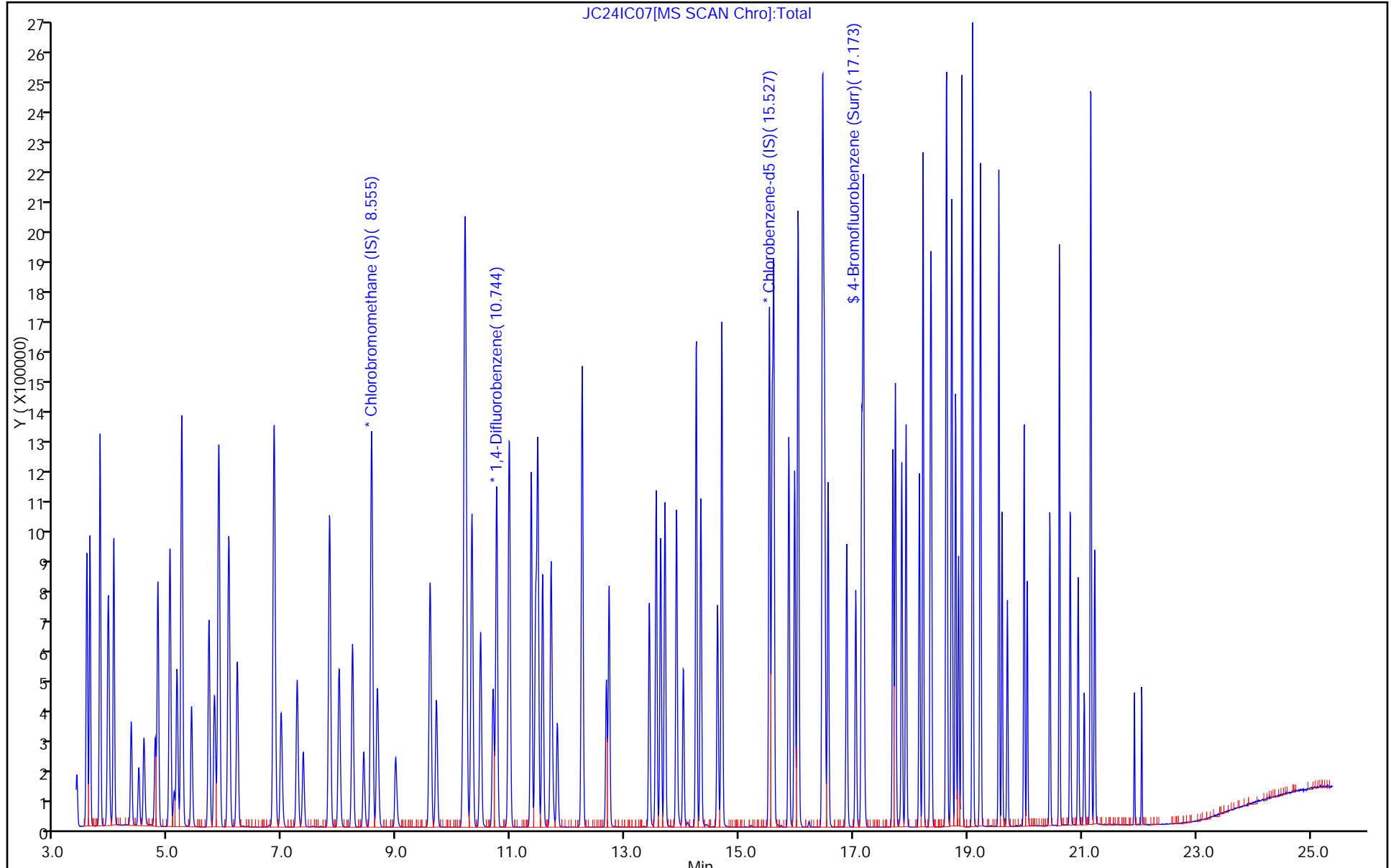
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC07.D

Injection Date: 24-Mar-2017 16:06:30

Instrument ID: MJ

Lims ID: IC L7

Client ID:

Operator ID: 007126

ALS Bottle#: 6

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

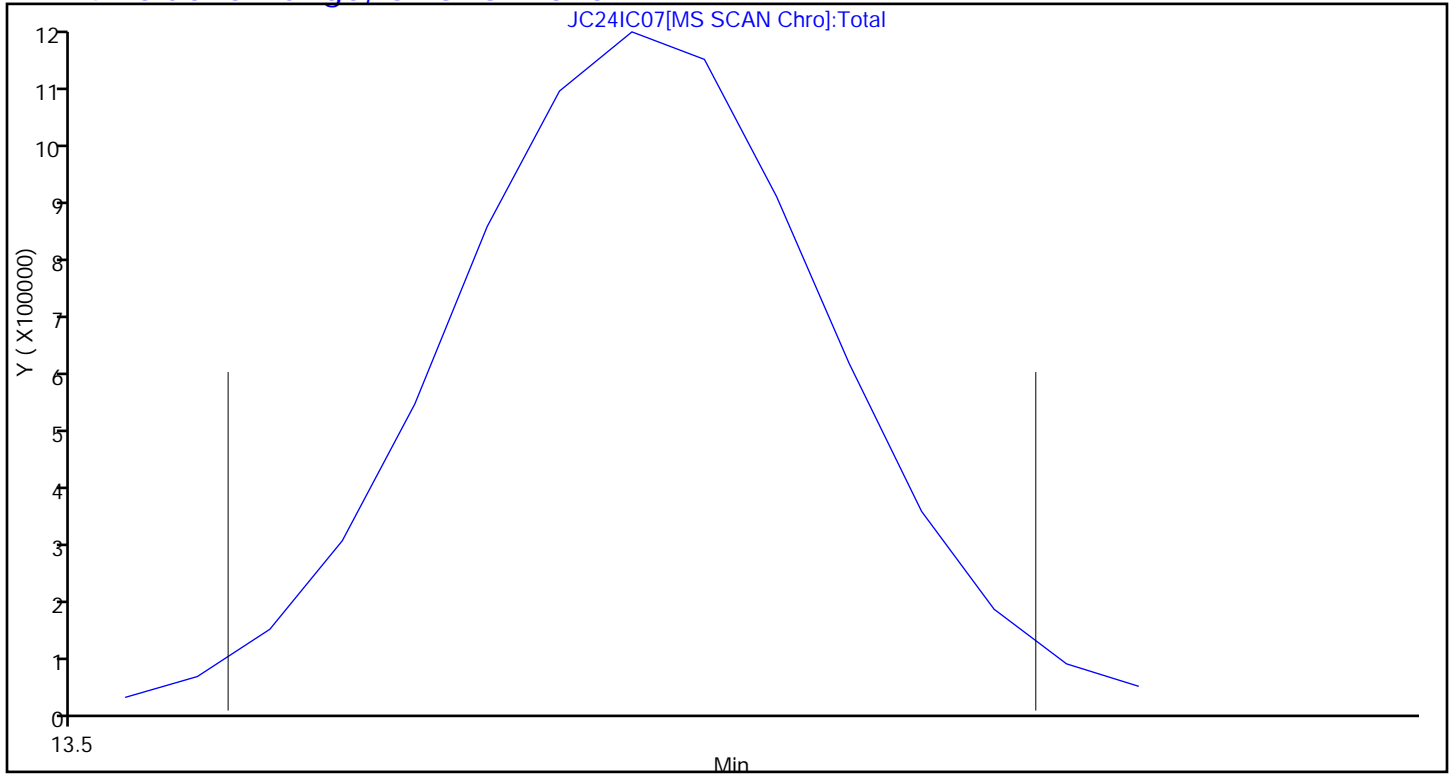
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC07.D

Injection Date: 24-Mar-2017 16:06:30

Instrument ID: MJ

Lims ID: IC L7

Client ID:

Operator ID: 007126

ALS Bottle#: 6

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

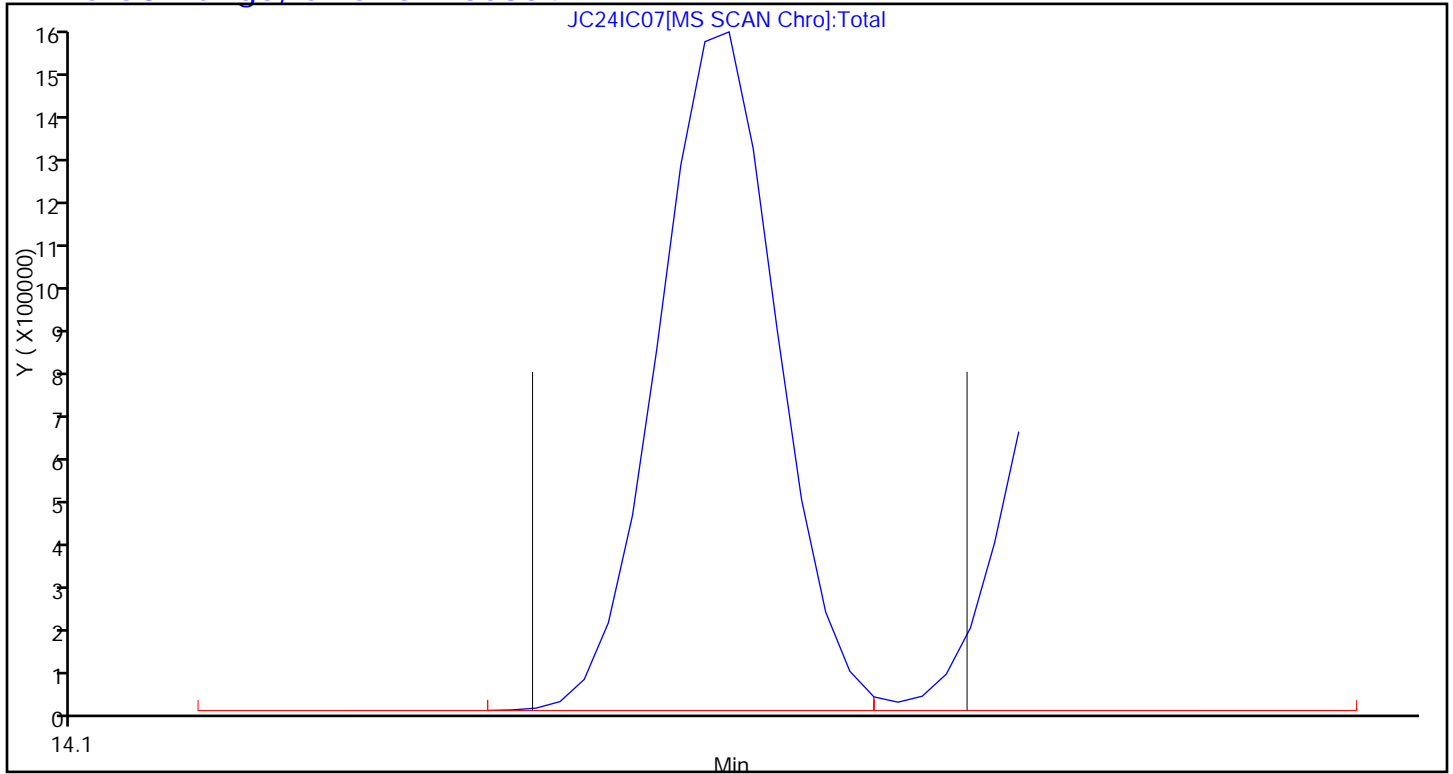
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville

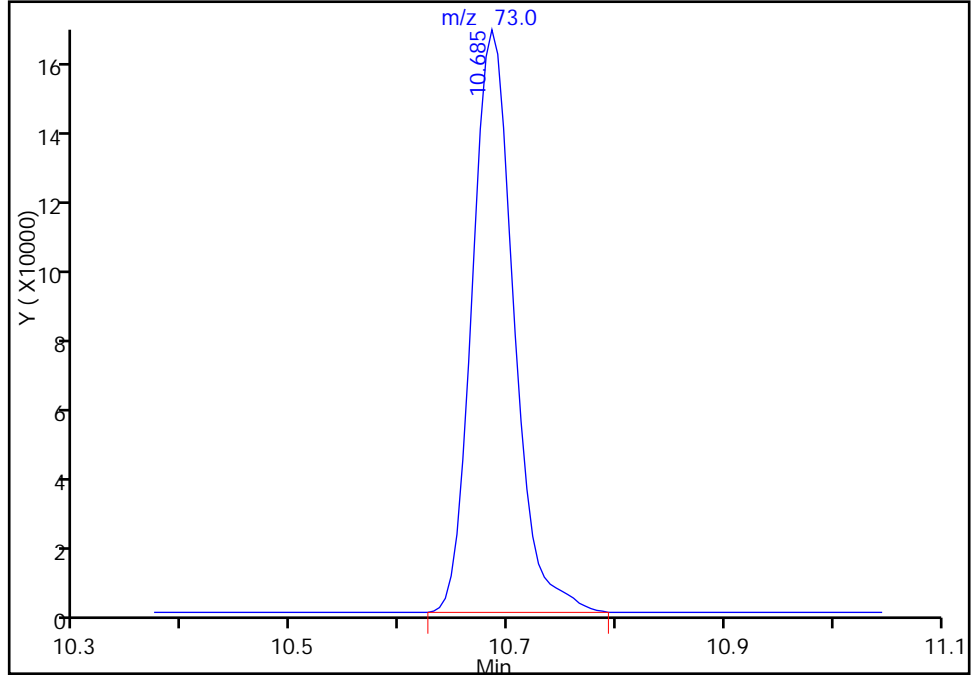
Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC07.D
Injection Date: 24-Mar-2017 16:06:30 Instrument ID: MJ
Lims ID: IC L7
Client ID:
Operator ID: 007126 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

55 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

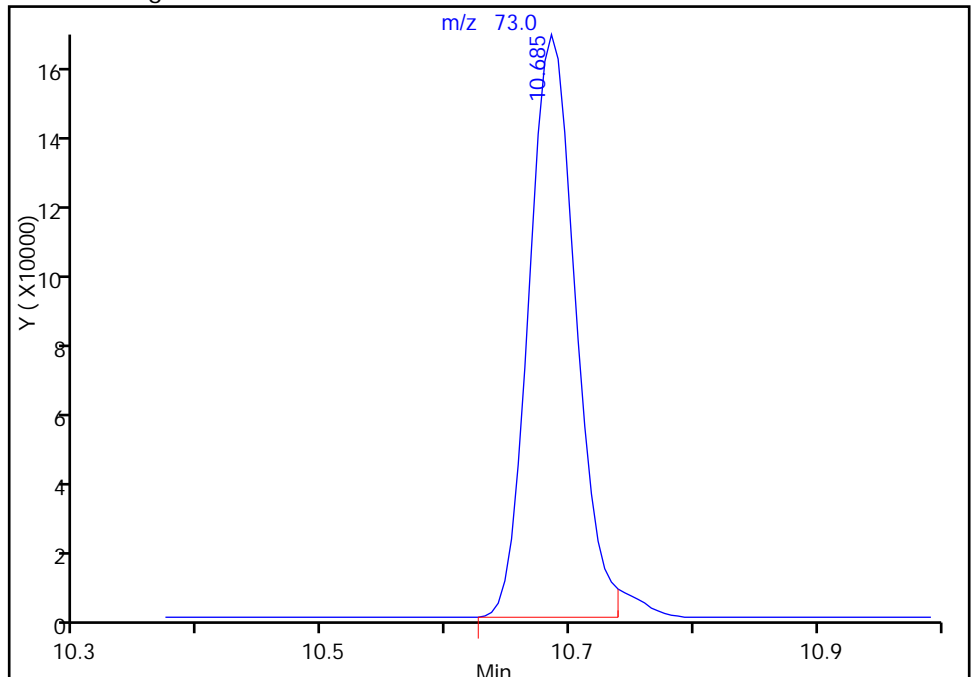
RT: 10.69
Area: 448750
Amount: 4.032060
Amount Units: ppb v/v

Processing Integration Results



RT: 10.69
Area: 439396
Amount: 3.963293
Amount Units: ppb v/v

Manual Integration Results



Reviewer: barlozhetskayaa, 27-Mar-2017 11:49:22

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC08.D
 Lims ID: IC L8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 24-Mar-2017 16:50:30 ALS Bottle#: 7 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004355-009
 Misc. Info.: 083677
 Operator ID: 007126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 11:49:35 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 25-Mar-2017 12:08:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.554	8.549	0.005	97	266070	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.749	10.746	0.003	95	1176035	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.526	15.525	0.001	87	1134953	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.172	17.172	0.000	95	809058	4.00	4.08	
6 Chlorodifluoromethane	67	3.562	3.563	-0.001	97	169716	8.00	7.60	
7 Propene	41	3.573	3.572	0.001	99	554396	8.00	7.02	
8 Dichlorodifluoromethane	85	3.621	3.621	0.000	100	1676054	8.00	7.35	
9 Chloromethane	52	3.793	3.795	-0.002	99	171125	8.00	6.84	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.798	3.799	-0.001	92	729958	8.00	7.23	
11 Acetaldehyde	44	3.938	3.940	-0.002	99	730718	40.0	30.5	
12 Vinyl chloride	62	3.954	3.955	-0.001	99	539544	8.00	7.34	
14 Butadiene	54	4.041	4.037	0.004	69	396694	8.00	7.20	
13 Butane	43	4.041	4.038	0.003	84	766368	8.00	6.91	
15 Bromomethane	94	4.342	4.343	-0.001	99	484577	8.00	7.06	
16 Chloroethane	64	4.476	4.477	-0.001	94	227756	8.00	7.52	
17 Ethanol	31	4.568	4.568	0.000	96	528666	40.0	33.7	
18 Vinyl bromide	106	4.767	4.762	0.005	98	452410	8.00	7.58	
19 2-Methylbutane	43	4.810	4.811	-0.001	92	700105	8.00	7.05	
20 Trichlorofluoromethane	101	5.025	5.022	0.003	100	1578566	8.00	7.54	
21 Acrolein	56	5.036	5.034	0.002	94	102471	8.00	5.64	
22 Acetonitrile	40	5.100	5.098	0.002	99	143017	8.00	6.22	
23 Acetone	58	5.143	5.150	-0.007	98	399470	23.5	17.9	
24 Isopropyl alcohol	45	5.224	5.228	-0.004	97	1931000	23.5	21.1	
25 Pentane	72	5.235	5.233	0.002	96	90887	8.00	7.65	
26 Ethyl ether	31	5.402	5.407	-0.005	94	478285	8.00	6.79	
27 1,1-Dichloroethene	96	5.708	5.707	0.001	96	603327	8.00	7.53	
28 2-Methyl-2-propanol	59	5.800	5.808	-0.008	95	780014	8.00	7.91	
29 Acrylonitrile	53	5.810	5.809	0.001	95	252183	8.00	6.35	
30 1,1,2-Trichloro-1,2,2-trif	101	5.880	5.878	0.002	98	1263946	8.00	7.46	
31 Methylene Chloride	84	6.047	6.043	0.004	99	548763	8.00	6.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.063	6.059	0.004	95	576469	8.00	7.16	
33 Carbon disulfide	76	6.203	6.203	0.000	99	1718809	8.00	7.39	
34 trans-1,2-Dichloroethene	96	6.838	6.838	0.000	97	616200	8.00	7.57	
35 2-Methylpentane	43	6.859	6.854	0.005	95	1372731	8.00	7.25	
36 Methyl tert-butyl ether	73	6.972	6.977	-0.005	97	852718	8.00	7.00	
37 1,1-Dichloroethane	63	7.252	7.249	0.003	100	1169271	8.00	7.34	
38 Vinyl acetate	43	7.360	7.359	0.001	100	815240	8.00	6.28	
39 2-Butanone (MEK)	72	7.806	7.810	-0.004	95	135045	8.00	6.90	
40 Hexane	56	7.822	7.821	0.001	91	523745	8.00	7.50	
41 Isopropyl ether	45	7.984	7.988	-0.004	98	1200487	8.00	6.94	
42 cis-1,2-Dichloroethene	96	8.226	8.220	0.006	96	631283	8.00	7.40	
43 Ethyl acetate	43	8.419	8.423	-0.004	99	661850	8.00	7.11	
44 Chloroform	83	8.565	8.561	0.004	98	1238922	8.00	7.06	
45 Tert-butyl ethyl ether	59	8.656	8.662	-0.006	95	1013817	8.00	7.33	
46 Tetrahydrofuran	42	8.974	8.989	-0.015	95	371130	8.00	6.97	
47 1,1,1-Trichloroethane	97	9.581	9.579	0.002	96	1345848	8.00	7.37	
48 1,2-Dichloroethane	62	9.694	9.691	0.003	97	848176	8.00	7.57	
49 n-Butanol	31	10.152	10.166	-0.014	76	172486	8.00	8.57	
50 Cyclohexane	69	10.189	10.185	0.004	95	278583	8.00	7.85	
51 Benzene	78	10.189	10.186	0.003	97	1586431	8.00	6.88	
52 Carbon tetrachloride	117	10.211	10.210	0.001	97	1387515	8.00	7.80	
53 2,3-Dimethylpentane	71	10.313	10.313	0.000	91	381951	8.00	7.65	
54 Thiophene	84	10.469	10.464	0.005	97	970981	8.00	7.42	
55 Tert-amyl methyl ether	73	10.684	10.688	-0.004	97	876189	8.00	7.50	
56 Isooctane	57	10.969	10.965	0.004	98	2839517	8.00	7.13	
57 n-Heptane	71	11.357	11.353	0.004	93	557129	8.00	7.26	
58 1,2-Dichloropropane	63	11.432	11.430	0.002	91	638984	8.00	7.59	
59 Trichloroethene	130	11.470	11.466	0.004	96	932122	8.00	7.49	
60 Dibromomethane	93	11.550	11.549	0.001	95	710629	8.00	7.42	
62 Dichlorobromomethane	83	11.701	11.699	0.002	100	1247198	8.00	7.82	
61 1,4-Dioxane	88	11.728	11.735	-0.007	93	154334	8.00	7.82	
63 Methyl methacrylate	41	11.809	11.811	-0.003	93	407854	8.00	7.63	
64 Methylcyclohexane	83	12.250	12.246	0.004	95	1279709	8.00	7.43	
65 4-Methyl-2-pentanone (MIBK)	43	12.669	12.672	-0.003	96	782519	8.00	7.93	
66 cis-1,3-Dichloropropene	75	12.718	12.717	0.001	94	977793	8.00	7.79	
67 trans-1,3-Dichloropropene	75	13.422	13.421	0.001	99	899809	8.00	7.99	
68 Toluene	91	13.546	13.542	0.004	94	1748504	8.00	7.29	
69 1,1,2-Trichloroethane	83	13.621	13.621	0.000	99	570770	8.00	7.62	
70 2-Methylthiophene	97	13.697	13.695	0.002	97	1634059	8.00	7.58	
71 3-Methylthiophene	97	13.901	13.897	0.004	99	1601255	8.00	7.58	
72 2-Hexanone	58	14.019	14.020	-0.001	93	413064	8.00	8.34	
73 n-Octane	85	14.245	14.244	0.001	94	589410	8.00	7.16	
74 Chlorodibromomethane	129	14.326	14.325	0.001	98	1303695	8.00	8.31	
75 Ethylene Dibromide	107	14.617	14.616	0.001	100	1085693	8.00	7.85	
76 Tetrachloroethene	129	14.692	14.690	0.002	96	705657	8.00	7.08	
78 Chlorobenzene	112	15.574	15.573	0.001	94	1510186	8.00	7.37	
77 2,3-Dimethylheptane	43	15.601	15.601	0.000	96	1738139	8.00	6.83	
79 Ethylbenzene	91	15.865	15.866	-0.001	98	1963698	8.00	7.25	
80 2-Ethylthiophene	97	15.972	15.967	0.005	98	1672512	8.00	7.54	
81 m-Xylene & p-Xylene	91	16.031	16.029	0.002	99	2771180	16.0	14.1	
82 n-Nonane	57	16.456	16.456	0.000	92	1206806	8.00	6.91	
83 Bromoform	173	16.478	16.474	0.004	97	1381449	8.00	8.77	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	16.494	16.494	0.000	99	1108413	8.00	7.57	
85 o-Xylene	91	16.553	16.555	-0.002	99	1393893	8.00	6.97	
86 1,1,2,2-Tetrachloroethane	83	16.881	16.880	0.001	99	953336	8.00	7.02	
87 1,2,3-Trichloropropane	110	17.037	17.039	-0.002	98	239633	8.00	7.14	
88 Isopropylbenzene	105	17.145	17.143	0.002	96	1733562	8.00	6.81	
89 N-Propylbenzene	120	17.694	17.690	0.004	99	468955	8.00	7.15	
90 2-Chlorotoluene	126	17.737	17.733	0.004	97	601349	8.00	7.41	
91 4-Ethyltoluene	105	17.844	17.845	-0.001	98	1604596	8.00	7.20	
92 1,3,5-Trimethylbenzene	120	17.920	17.920	0.000	93	747534	8.00	7.16	
93 Alpha Methyl Styrene	118	18.156	18.154	0.002	89	727504	8.00	8.10	
94 n-Decane	57	18.221	18.218	0.003	90	1363686	8.00	7.04	
95 tert-Butylbenzene	119	18.350	18.349	0.001	93	1397875	8.00	7.03	
96 1,2,4-Trimethylbenzene	105	18.366	18.364	0.002	96	1295741	8.00	7.22	
97 sec-Butylbenzene	105	18.624	18.623	0.001	98	1902507	8.00	6.98	
98 1,3-Dichlorobenzene	146	18.635	18.636	-0.001	99	1308965	8.00	7.61	
99 Benzyl chloride	91	18.716	18.712	0.004	98	1199154	8.00	8.50	
100 1,4-Dichlorobenzene	146	18.727	18.724	0.002	95	1286956	8.00	7.74	
101 4-Isopropyltoluene	119	18.791	18.788	0.003	97	1599862	8.00	7.42	
102 1,2,3-Trimethylbenzene	105	18.839	18.839	0.000	98	1002550	8.00	7.36	
103 Butylcyclohexane	83	18.899	18.897	0.002	92	1640613	8.00	7.11	
105 1,2-Dichlorobenzene	146	19.087	19.087	0.000	91	1111009	8.00	7.17	
104 2,3-Dihydroindene	117	19.087	19.087	0.000	94	1270545	8.00	7.07	
107 Indene	116	19.221	19.219	0.002	91	945358	8.00	7.72	
106 n-Butylbenzene	91	19.227	19.227	0.000	98	1549140	8.00	7.28	
108 Undecane	57	19.550	19.546	0.004	96	1216179	8.00	7.10	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.603	19.602	0.001	98	1177906	8.00	7.60	
110 1,2-Dibromo-3-Chloropropan	157	19.695	19.698	-0.003	99	433759	8.00	9.17	
111 1,2,4,5-Tetramethylbenzene	119	19.991	19.989	0.002	97	1374659	8.00	7.71	
112 1,2,3,5-Tetramethylbenzene	119	20.044	20.044	0.000	95	849841	8.00	7.50	
113 1,2,3,4-Tetramethylbenzene	119	20.443	20.440	0.003	97	1121362	8.00	7.63	
114 Dodecane	57	20.609	20.607	0.002	96	1131558	8.00	7.79	
115 1,2,4-Trichlorobenzene	180	20.798	20.796	0.002	93	746955	8.00	8.85	
116 Naphthalene	128	20.937	20.937	0.000	99	1372304	8.00	8.76	
117 Benzo(b)thiophene	134	21.040	21.042	-0.002	99	719374	8.00	9.11	
118 Hexachlorobutadiene	225	21.158	21.157	0.001	95	1062355	8.00	7.14	
119 1,2,3-Trichlorobenzene	180	21.228	21.227	0.001	94	662625	8.00	8.29	
120 2-Methylnaphthalene	142	21.922	21.921	0.001	99	328431	24.2	31.2	
121 1-Methylnaphthalene	142	22.051	22.049	0.002	99	316908	24.2	27.5	
A 124 Toluene Range	1	13.546	(13.516-13.576)		0	4358144	8.00	7.48	
A 125 C8 Range	1	14.240	(14.202-14.315)		0	5647961	8.00	7.34	
S 126 Xylenes, Total	100				0		24.0	21.1	
S 127 1,2-Dichloroethene, Total	1				0		16.0	15.0	

Reagents:

40L8DNP_00010

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC08.D

Injection Date: 24-Mar-2017 16:50:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: IC L8

Worklist Smp#: 9

Client ID:

Purge Vol: 500.000 mL

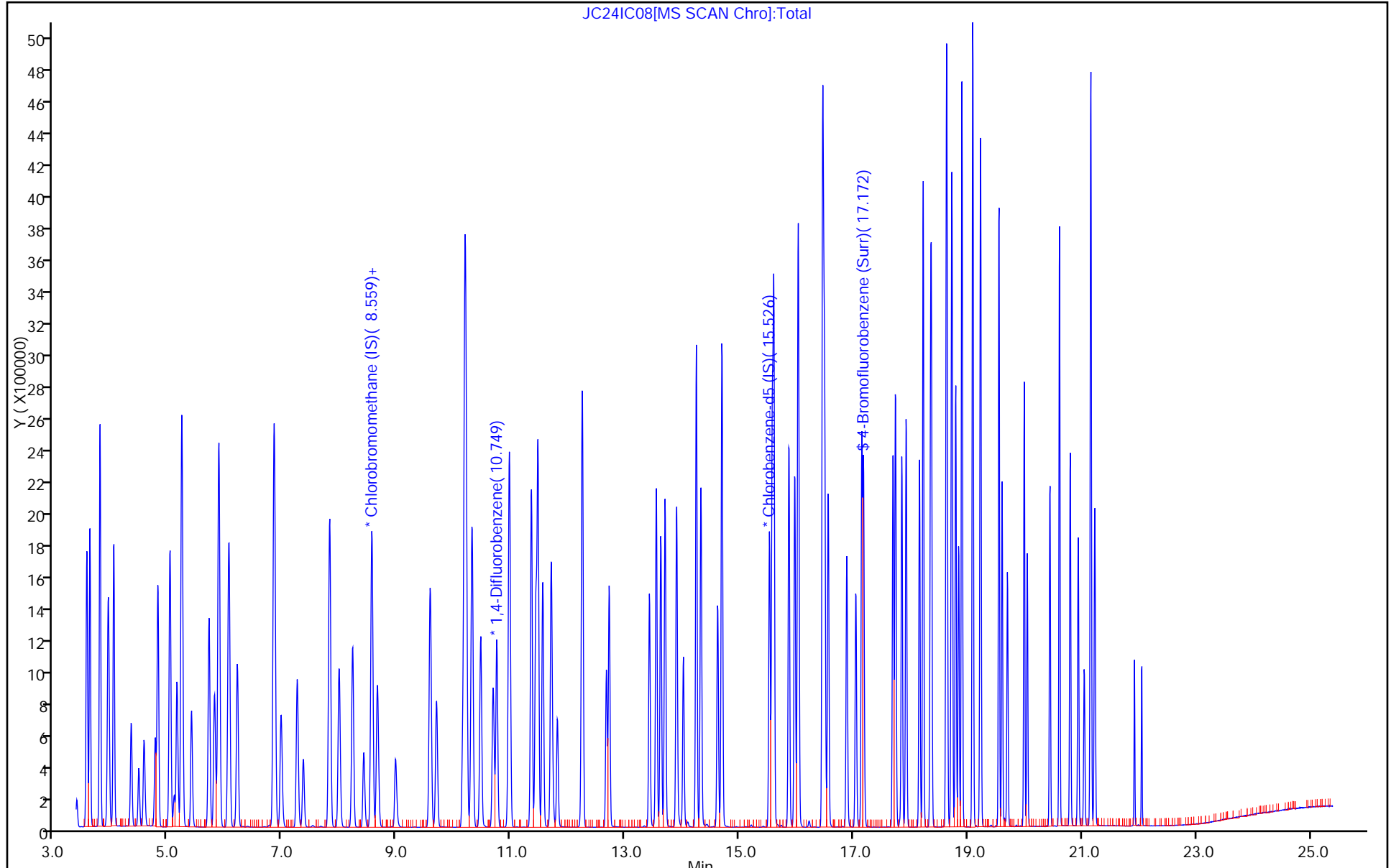
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC08.D

Injection Date: 24-Mar-2017 16:50:30

Instrument ID: MJ

Lims ID: IC L8

Client ID:

Operator ID: 007126

ALS Bottle#: 7

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

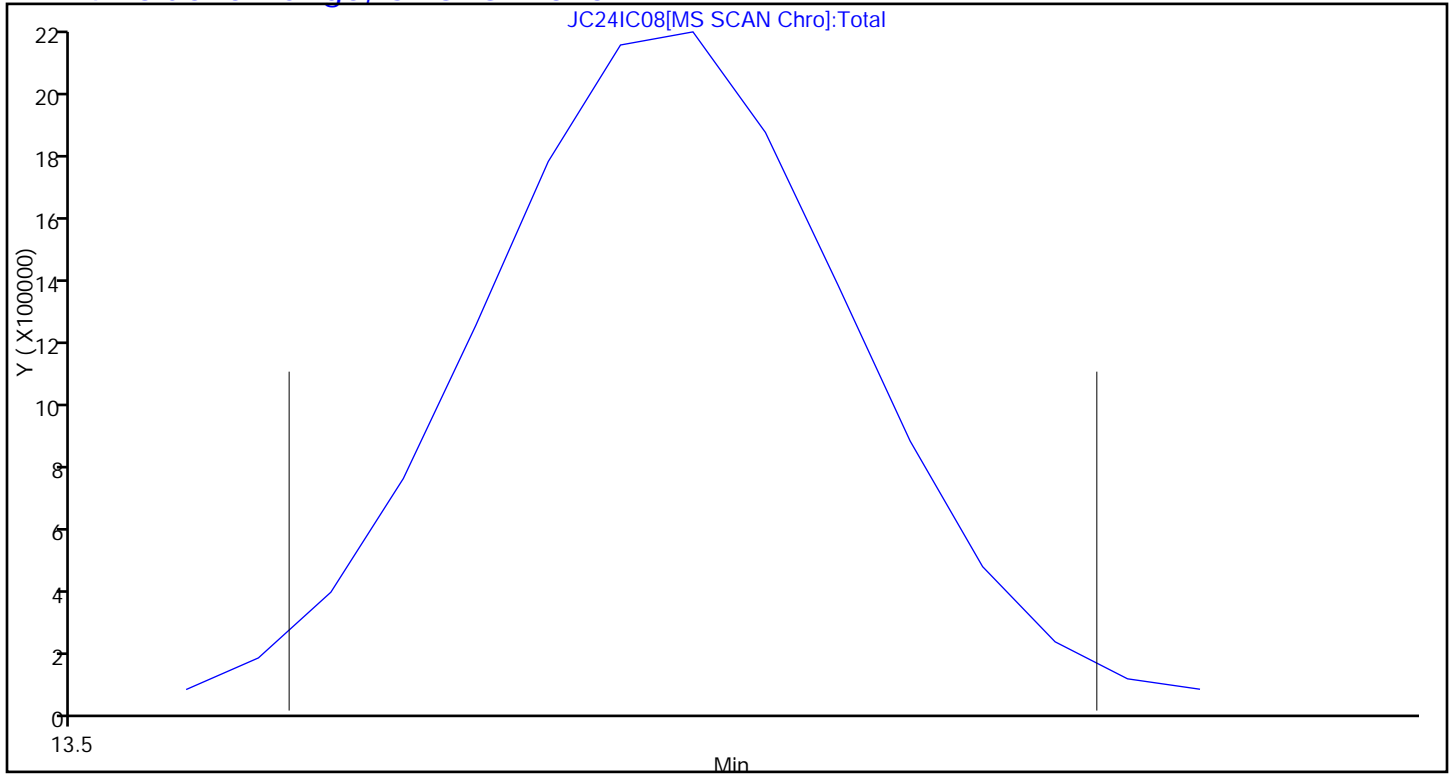
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC08.D

Injection Date: 24-Mar-2017 16:50:30

Instrument ID: MJ

Lims ID: IC L8

Client ID:

Operator ID: 007126

ALS Bottle#: 7

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

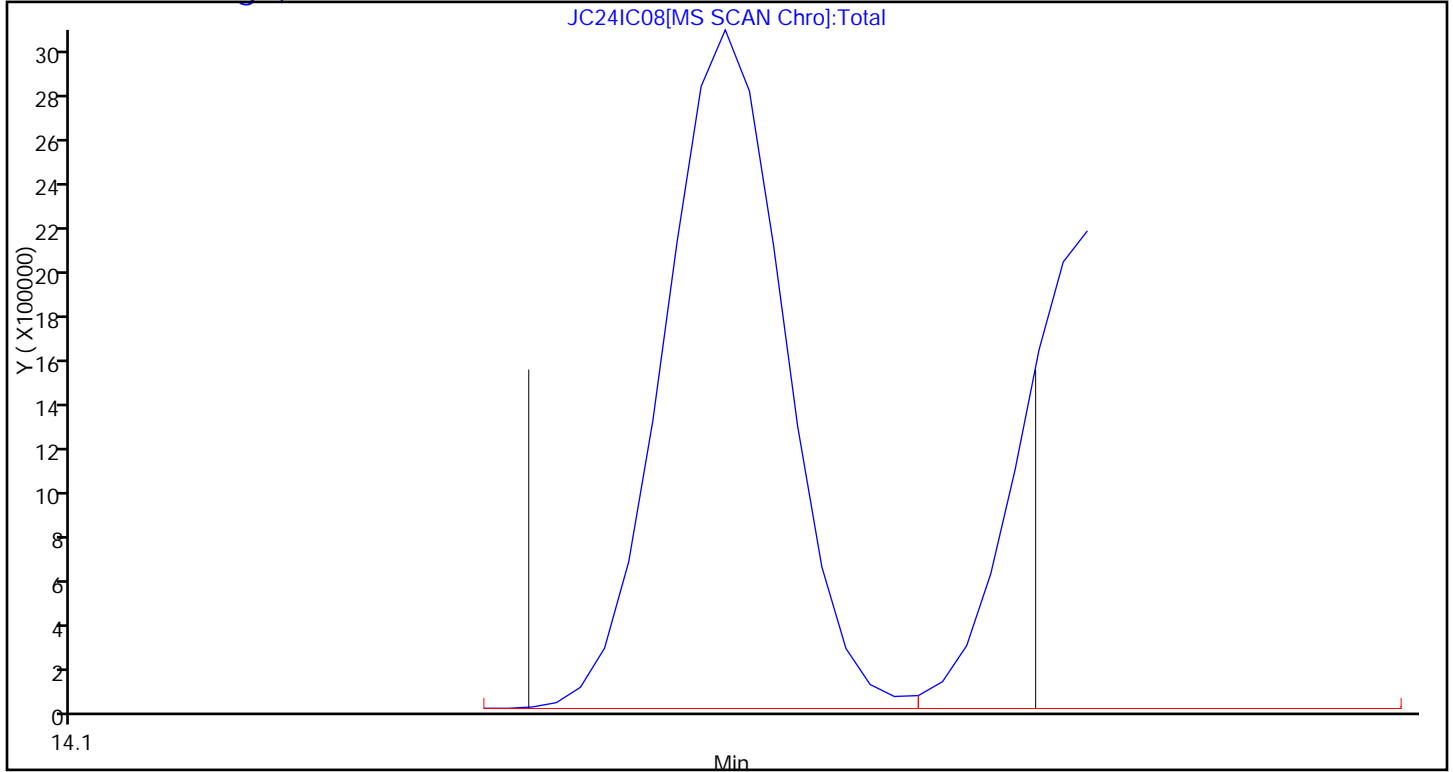
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Lims ID: IC L9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 24-Mar-2017 17:35:30 ALS Bottle#: 8 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004355-010
 Misc. Info.: 083675
 Operator ID: 007126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 11:49:47 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 25-Mar-2017 11:49:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.560	8.549	0.011	96	253448	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.755	10.746	0.009	95	1211299	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.532	15.525	0.007	87	1143526	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.178	17.172	0.006	95	813488	4.00	4.08	
6 Chlorodifluoromethane	67	3.562	3.563	-0.001	96	335135	16.0	15.7	
7 Propene	41	3.573	3.572	0.001	99	1045688	16.0	13.9	
8 Dichlorodifluoromethane	85	3.621	3.621	0.000	100	3228972	16.0	14.9	
9 Chloromethane	52	3.794	3.795	-0.001	99	331742	16.0	13.9	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.804	3.799	0.005	92	1351025	16.0	14.0	
11 Acetaldehyde	44	3.944	3.940	0.004	100	1634496	80.0	71.6	
12 Vinyl chloride	62	3.960	3.955	0.005	99	1092378	16.0	15.6	
14 Butadiene	54	4.041	4.037	0.004	69	811868	16.0	15.5	
13 Butane	43	4.041	4.038	0.003	84	1560166	16.0	14.8	
15 Bromomethane	94	4.348	4.343	0.005	99	980840	16.0	15.0	
16 Chloroethane	64	4.482	4.477	0.005	95	464349	16.0	16.1	
17 Ethanol	31	4.579	4.568	0.011	96	922606	80.0	61.7	
18 Vinyl bromide	106	4.767	4.762	0.005	99	919063	16.0	16.2	
19 2-Methylbutane	43	4.816	4.811	0.005	92	1412761	16.0	14.9	
20 Trichlorofluoromethane	101	5.025	5.022	0.003	100	3169455	16.0	15.9	
21 Acrolein	56	5.036	5.034	0.002	93	290691	16.0	16.8	
22 Acetonitrile	40	5.101	5.098	0.003	99	376004	16.0	17.2	
23 Acetone	58	5.149	5.150	-0.001	98	841632	47.0	39.6	
24 Isopropyl alcohol	45	5.235	5.228	0.007	93	3307384	47.0	38.0	
25 Pentane	72	5.241	5.233	0.008	96	179088	16.0	15.8	
26 Ethyl ether	31	5.402	5.407	-0.005	94	1079497	16.0	16.1	
27 1,1-Dichloroethene	96	5.714	5.707	0.007	96	1231917	16.0	16.1	
28 2-Methyl-2-propanol	59	5.811	5.808	0.003	95	1395017	16.0	14.8	
29 Acrylonitrile	53	5.816	5.809	0.007	97	667216	16.0	17.6	
30 1,1,2-Trichloro-1,2,2-trif	101	5.886	5.878	0.008	97	2483416	16.0	15.4	
31 Methylene Chloride	84	6.053	6.043	0.010	99	1078459	16.0	13.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.069	6.059	0.010	96	1151910	16.0	15.0	
33 Carbon disulfide	76	6.209	6.203	0.006	99	3490363	16.0	15.7	
34 trans-1,2-Dichloroethene	96	6.844	6.838	0.006	97	1211127	16.0	15.6	
35 2-Methylpentane	43	6.860	6.854	0.006	96	2613669	16.0	14.5	
36 Methyl tert-butyl ether	73	6.973	6.977	-0.004	97	1908670	16.0	16.4	
37 1,1-Dichloroethane	63	7.258	7.249	0.009	100	2334013	16.0	15.4	
38 Vinyl acetate	43	7.365	7.359	0.006	100	2227273	16.0	18.0	
39 2-Butanone (MEK)	72	7.812	7.810	0.002	95	233393	16.0	12.5	
40 Hexane	56	7.828	7.821	0.007	91	1030279	16.0	15.5	
41 Isopropyl ether	45	7.989	7.988	0.001	98	2570530	16.0	15.6	
42 cis-1,2-Dichloroethene	96	8.232	8.220	0.012	96	1271241	16.0	15.6	
43 Ethyl acetate	43	8.425	8.423	0.002	99	1226388	16.0	13.8	
44 Chloroform	83	8.570	8.561	0.009	97	2533326	16.0	15.1	
45 Tert-butyl ethyl ether	59	8.662	8.662	0.000	95	2068493	16.0	15.7	
46 Tetrahydrofuran	42	8.979	8.989	-0.010	95	810678	16.0	16.0	
47 1,1,1-Trichloroethane	97	9.587	9.579	0.008	96	2726347	16.0	15.7	
48 1,2-Dichloroethane	62	9.700	9.691	0.009	97	1745806	16.0	15.1	
49 n-Butanol	31	10.157	10.166	-0.009	82	299753	16.0	14.5	
50 Cyclohexane	69	10.190	10.185	0.005	76	524740	16.0	14.3	
51 Benzene	78	10.195	10.186	0.009	97	3035346	16.0	12.8	
52 Carbon tetrachloride	117	10.217	10.210	0.007	99	2735035	16.0	14.9	
53 2,3-Dimethylpentane	71	10.319	10.313	0.006	90	757792	16.0	14.7	
54 Thiophene	84	10.475	10.464	0.011	97	1976083	16.0	14.7	
55 Tert-amyl methyl ether	73	10.690	10.688	0.002	97	1663304	16.0	14.1	
56 Isooctane	57	10.975	10.965	0.010	98	5589142	16.0	13.6	
57 n-Heptane	71	11.362	11.353	0.009	92	1108390	16.0	14.0	
58 1,2-Dichloropropane	63	11.438	11.430	0.008	90	1304842	16.0	15.0	
59 Trichloroethene	130	11.475	11.466	0.009	96	1707390	16.0	13.3	
60 Dibromomethane	93	11.556	11.549	0.007	95	1424109	16.0	14.4	
62 Dichlorobromomethane	83	11.707	11.699	0.008	99	2573564	16.0	15.7	
61 1,4-Dioxane	88	11.734	11.735	-0.001	92	243836	16.0	12.0	
63 Methyl methacrylate	41	11.814	11.811	0.003	93	773766	16.0	14.1	
64 Methylcyclohexane	83	12.250	12.246	0.004	94	2455783	16.0	13.8	
65 4-Methyl-2-pentanone (MIBK)	43	12.675	12.672	0.003	96	1326528	16.0	13.0	
66 cis-1,3-Dichloropropene	75	12.723	12.717	0.006	95	2016227	16.0	15.6	
67 trans-1,3-Dichloropropene	75	13.428	13.421	0.007	99	1883809	16.0	16.6	
68 Toluene	91	13.546	13.542	0.004	94	3644860	16.0	15.1	
69 1,1,2-Trichloroethane	83	13.627	13.621	0.006	99	1148949	16.0	15.2	
70 2-Methylthiophene	97	13.702	13.695	0.007	97	3321530	16.0	15.3	
71 3-Methylthiophene	97	13.902	13.897	0.005	99	3242609	16.0	15.2	
72 2-Hexanone	58	14.020	14.020	0.000	93	707229	16.0	14.2	
73 n-Octane	85	14.251	14.244	0.007	93	1154854	16.0	13.9	
74 Chlorodibromomethane	129	14.332	14.325	0.007	98	2634433	16.0	16.7	
75 Ethylene Dibromide	107	14.622	14.616	0.006	100	2189748	16.0	15.7	
76 Tetrachloroethene	129	14.698	14.690	0.008	96	1403388	16.0	14.0	
78 Chlorobenzene	112	15.580	15.573	0.007	94	2942999	16.0	14.2	
77 2,3-Dimethylheptane	43	15.607	15.601	0.006	95	3172200	16.0	12.4	
79 Ethylbenzene	91	15.870	15.866	0.004	98	4150627	16.0	15.2	
80 2-Ethylthiophene	97	15.973	15.967	0.006	98	3483070	16.0	15.6	
81 m-Xylene & p-Xylene	91	16.032	16.029	0.003	99	5806752	32.0	29.4	
82 n-Nonane	57	16.457	16.456	0.001	89	2111184	16.0	12.0	
83 Bromoform	173	16.478	16.474	0.004	97	2620482	16.0	16.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	16.500	16.494	0.006	99	2306046	16.0	15.6	
85 o-Xylene	91	16.559	16.555	0.004	99	3100029	16.0	15.4	
86 1,1,2,2-Tetrachloroethane	83	16.882	16.880	0.002	99	2134850	16.0	15.6	
87 1,2,3-Trichloropropane	110	17.043	17.039	0.004	98	531499	16.0	15.7	
88 Isopropylbenzene	105	17.145	17.143	0.002	97	3911212	16.0	15.3	
89 N-Propylbenzene	120	17.694	17.690	0.004	99	1090460	16.0	16.5	
90 2-Chlorotoluene	126	17.737	17.733	0.004	97	1218343	16.0	14.9	
91 4-Ethyltoluene	105	17.850	17.845	0.005	98	3563117	16.0	15.9	
92 1,3,5-Trimethylbenzene	120	17.925	17.920	0.005	93	1640005	16.0	15.6	
93 Alpha Methyl Styrene	118	18.157	18.154	0.003	89	1680241	16.0	18.6	
94 n-Decane	57	18.221	18.218	0.003	91	2630997	16.0	13.5	
95 tert-Butylbenzene	119	18.350	18.349	0.001	94	2899542	16.0	14.5	
96 1,2,4-Trimethylbenzene	105	18.366	18.364	0.002	96	2649356	16.0	14.7	
97 sec-Butylbenzene	105	18.625	18.623	0.002	98	3825733	16.0	13.9	
98 1,3-Dichlorobenzene	146	18.641	18.636	0.005	99	2571995	16.0	14.8	
99 Benzyl chloride	91	18.716	18.712	0.004	98	2359025	16.0	16.6	
100 1,4-Dichlorobenzene	146	18.727	18.724	0.003	95	2581388	16.0	15.4	
101 4-Isopropyltoluene	119	18.791	18.788	0.003	97	3073644	16.0	14.1	
102 1,2,3-Trimethylbenzene	105	18.845	18.839	0.006	99	2015135	16.0	14.7	
103 Butylcyclohexane	83	18.899	18.897	0.002	93	3116127	16.0	13.4	
105 1,2-Dichlorobenzene	146	19.093	19.087	0.006	87	2246516	16.0	14.4	
104 2,3-Dihydroindene	117	19.093	19.087	0.006	94	2687490	16.0	14.8	
107 Indene	116	19.222	19.219	0.003	91	1944503	16.0	15.8	
106 n-Butylbenzene	91	19.227	19.227	0.000	99	2815357	16.0	13.1	
108 Undecane	57	19.550	19.546	0.004	95	2451756	16.0	14.2	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.604	19.602	0.002	98	2179865	16.0	14.0	
110 1,2-Dibromo-3-Chloropropan	157	19.701	19.698	0.003	98	813480	16.0	17.1	
111 1,2,4,5-Tetramethylbenzene	119	19.991	19.989	0.002	97	2471667	16.0	13.8	
112 1,2,3,5-Tetramethylbenzene	119	20.045	20.044	0.001	95	1554582	16.0	13.6	
113 1,2,3,4-Tetramethylbenzene	119	20.443	20.440	0.003	97	1999910	16.0	13.5	
114 Dodecane	57	20.610	20.607	0.003	96	1988165	16.0	13.6	
115 1,2,4-Trichlorobenzene	180	20.798	20.796	0.002	94	1543505	16.0	18.1	
116 Naphthalene	128	20.938	20.937	0.001	99	2480762	16.0	15.7	
117 Benzo(b)thiophene	134	21.045	21.042	0.003	99	1343287	16.0	16.9	
118 Hexachlorobutadiene	225	21.158	21.157	0.001	95	2093974	16.0	14.0	
119 1,2,3-Trichlorobenzene	180	21.228	21.227	0.001	94	1233209	16.0	15.3	
120 2-Methylnaphthalene	142	21.922	21.921	0.001	99	530404	48.4	50.1	
121 1-Methylnaphthalene	142	22.051	22.049	0.002	99	499473	48.4	43.1	
A 124 Toluene Range	1	13.546	(13.516-13.576)		0	9076964	16.0	15.5	
A 125 C8 Range	1	14.246	(14.202-14.315)		0	10840031	16.0	14.0	
S 126 Xylenes, Total	100				0		48.0	44.8	
S 127 1,2-Dichloroethene, Total	1				0		32.0	31.3	

Reagents:

40L9DNP_00013

Amount Added: 200.00

Units: ml

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D

Injection Date: 24-Mar-2017 17:35:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: IC L9

Worklist Smp#: 10

Client ID:

Purge Vol: 500.000 mL

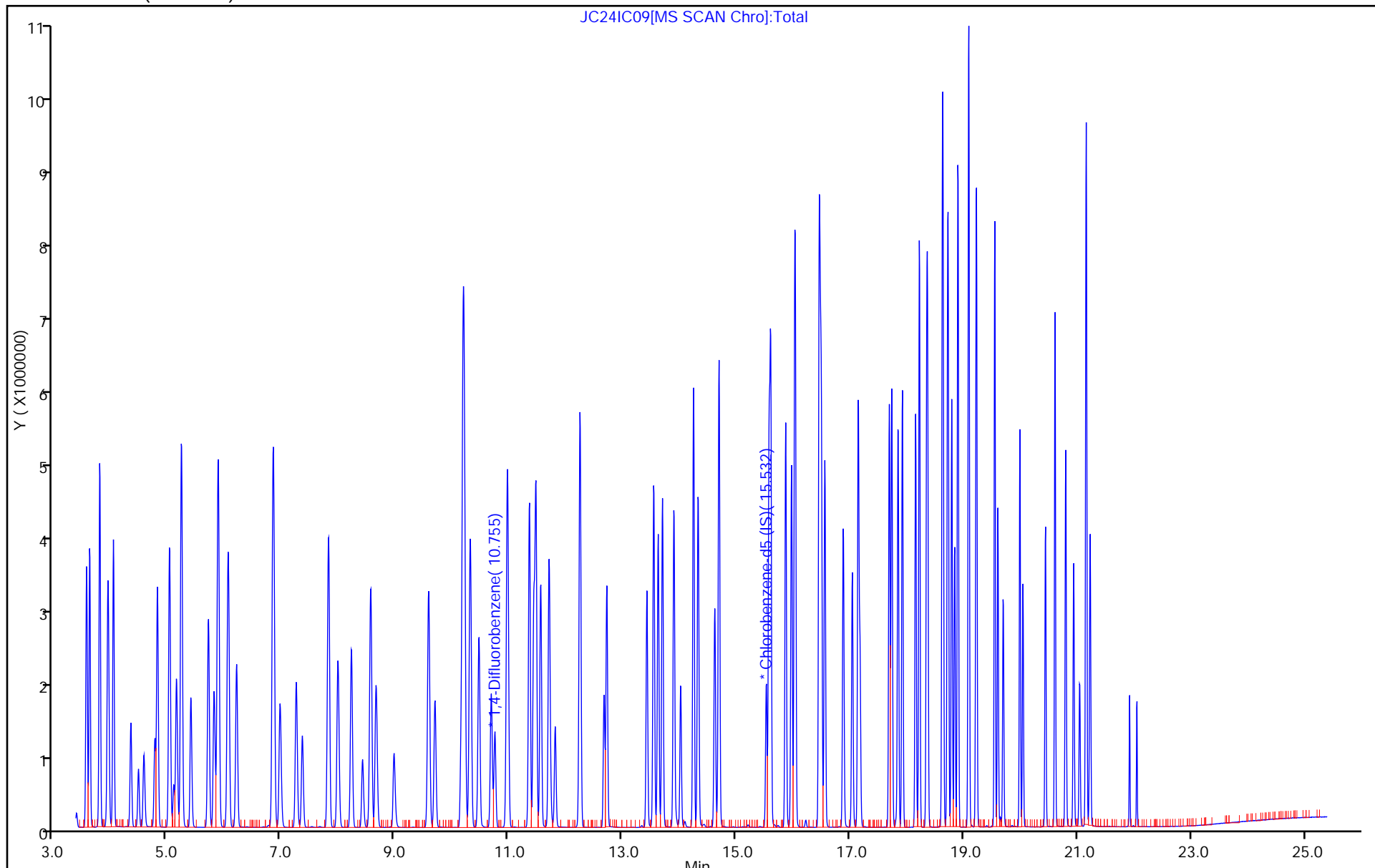
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D

Injection Date: 24-Mar-2017 17:35:30

Instrument ID: MJ

Lims ID: IC L9

Client ID:

Operator ID: 007126

ALS Bottle#: 8

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

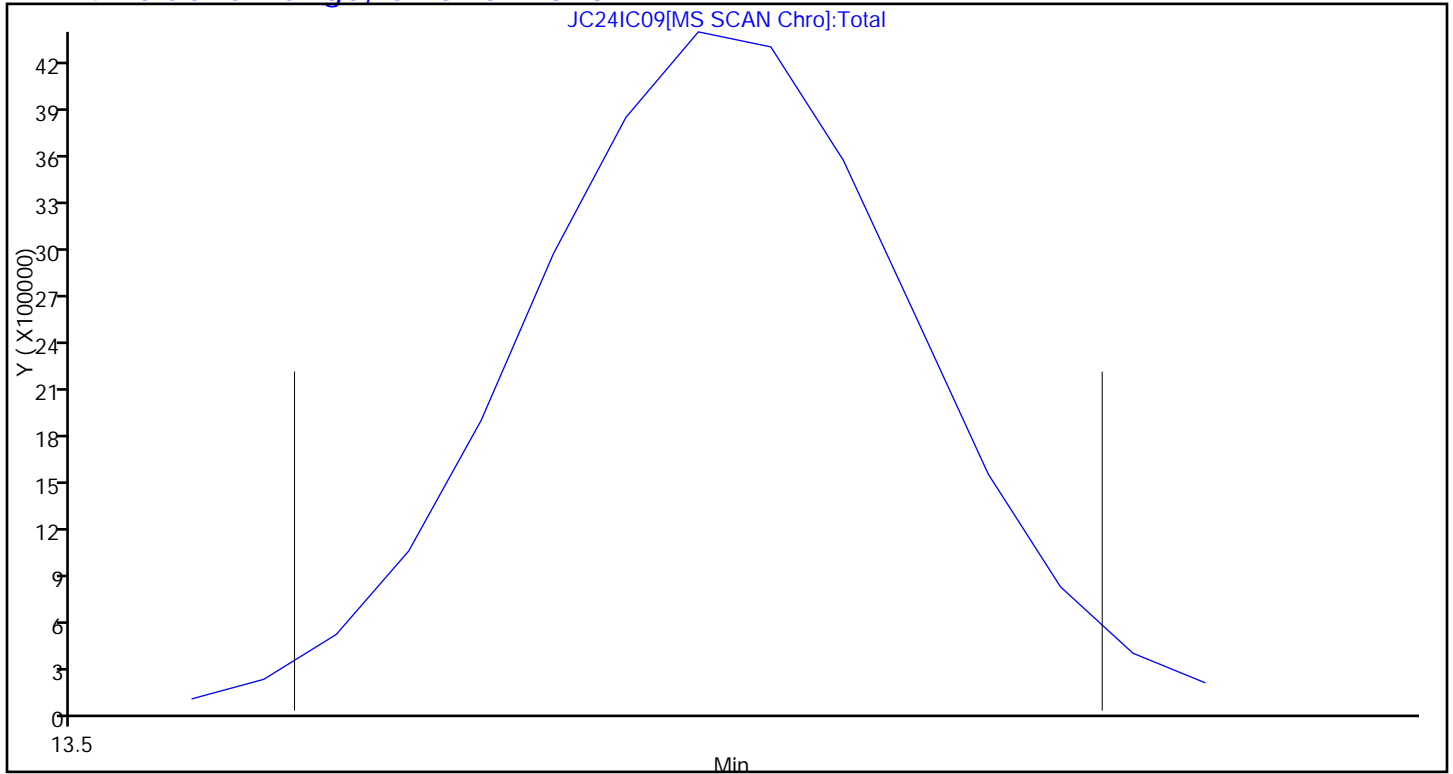
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D

Injection Date: 24-Mar-2017 17:35:30

Instrument ID: MJ

Lims ID: IC L9

Client ID:

Operator ID: 007126

ALS Bottle#: 8

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

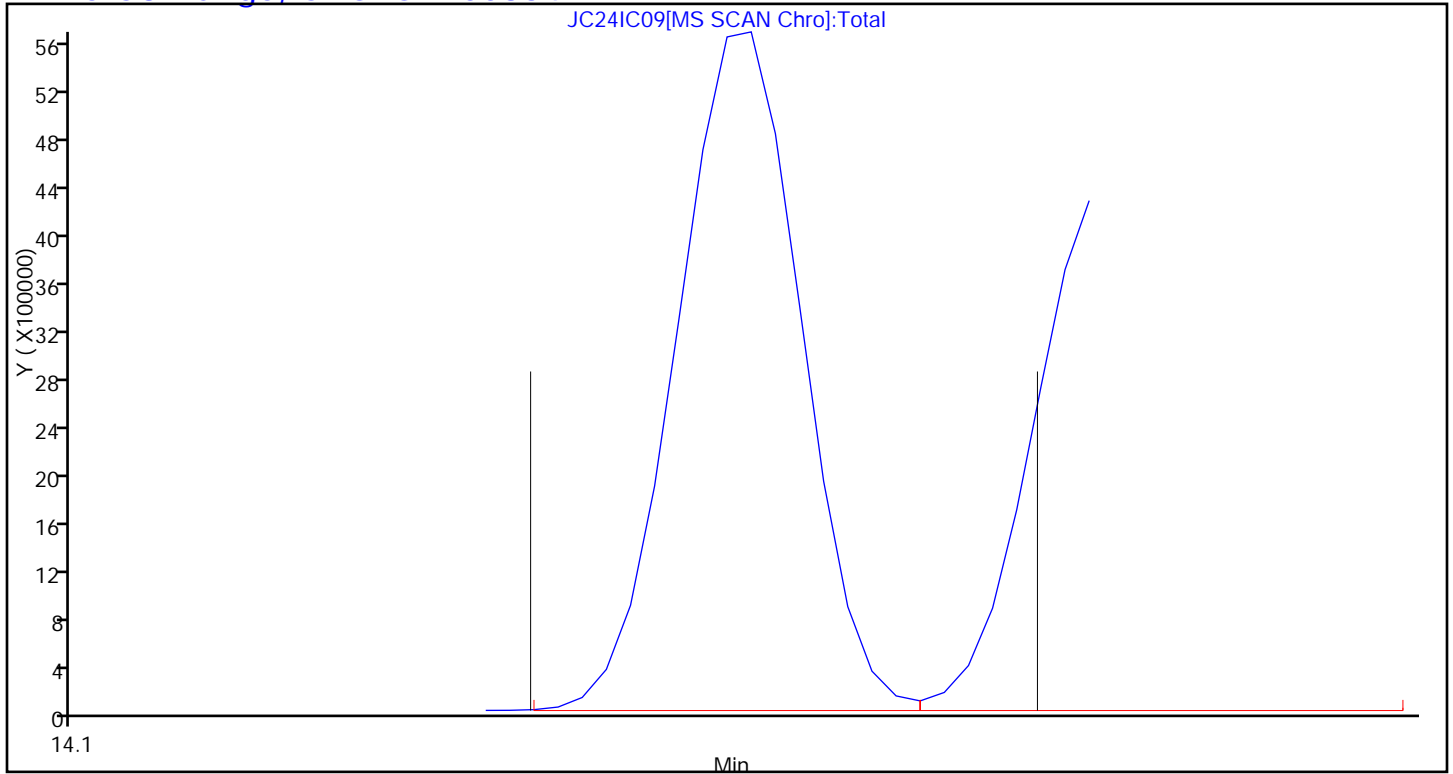
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: ICV 140-9482/13 Calibration Date: 03/15/2017 21:46
 Instrument ID: MG Calib Start Date: 03/15/2017 14:36
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/15/2017 20:21
 Lab File ID: GICVC15.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	0.4447	0.4195		1.89	2.00	-5.7	35.0
Propene	Ave	1.058	0.9888		1.87	2.00	-6.5	35.0
Dichlorodifluoromethane	Ave	4.233	4.005		1.89	2.00	-5.4	35.0
Chloromethane	Ave	0.2848	0.2718		1.91	2.00	-4.6	35.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.520	2.459		1.95	2.00	-2.4	35.0
Acetaldehyde	Ave	0.3344	0.2828		8.46	10.0	-15.4	35.0
Vinyl chloride	Ave	1.170	1.152		1.97	2.00	-1.6	35.0
1,3-Butadiene	Ave	0.7793	0.7583		1.95	2.00	-2.7	35.0
Butane	Ave	1.658	1.586		1.91	2.00	-4.3	35.0
Bromomethane	Ave	1.156	1.113		1.92	2.00	-3.8	35.0
Chloroethane	Ave	0.5663	0.5570		1.97	2.00	-1.6	35.0
Ethanol	Ave	0.4025	0.3613		8.98	10.0	-10.2	35.0
Vinyl bromide	Ave	1.096	1.145		2.09	2.00	4.5	35.0
2-Methylbutane	Ave	1.120	1.090		1.95	2.00	-2.7	35.0
Acrolein	Ave	0.1638	0.1720		2.10	2.00	5.0	35.0
Trichlorofluoromethane	Ave	4.216	3.908		1.85	2.00	-7.3	35.0
Acetonitrile	Ave	0.3357	0.2765		1.65	2.00	-17.6	35.0
Acetone	Ave	0.3928	0.2866		4.38	6.00	-27.0	35.0
Isopropyl alcohol	Ave	1.359	0.9130		4.03	6.00	-32.8	35.0
Pentane	Ave	0.2037	0.2013		1.98	2.00	-1.2	35.0
Ethyl ether	Ave	0.9241	0.7238		1.57	2.00	-21.7	35.0
1,1-Dichloroethene	Ave	1.066	1.018		1.91	2.00	-4.5	35.0
Acrylonitrile	Ave	0.4861	0.4093		1.68	2.00	-15.8	35.0
tert-Butyl alcohol	Ave	1.624	1.441		1.77	2.00	-11.3	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.459	2.373		1.93	2.00	-3.5	35.0
Methylene Chloride	Ave	0.9619	0.8705		1.81	2.00	-9.5	35.0
3-Chloropropene	Ave	1.034	0.9533		1.84	2.00	-7.8	35.0
Carbon disulfide	Ave	2.716	2.579		1.90	2.00	-5.1	35.0
trans-1,2-Dichloroethene	Ave	1.042	1.038		1.99	2.00	-0.4	35.0
2-Methylpentane	Ave	2.045	2.174		2.13	2.00	6.3	35.0
Methyl tert-butyl ether	Ave	3.096	2.652		1.71	2.00	-14.3	35.0
1,1-Dichloroethane	Ave	2.035	1.947		1.91	2.00	-4.3	35.0
Vinyl acetate	Ave	2.337	2.078		1.78	2.00	-11.1	35.0
2-Butanone (MEK)	Ave	0.4552	0.3871		1.70	2.00	-15.0	35.0
Hexane	Ave	0.7899	0.7696		1.95	2.00	-2.6	35.0
Isopropyl ether	Ave	2.907	2.543		1.75	2.00	-12.5	35.0
cis-1,2-Dichloroethene	Ave	1.107	1.110		2.00	2.00	0.2	35.0
Ethyl acetate	Ave	1.927	1.556		1.61	2.00	-19.3	35.0
Chloroform	Ave	2.806	2.675		1.91	2.00	-4.7	35.0
Tert-butyl ethyl ether	Ave	2.922	2.660		1.82	2.00	-9.0	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: ICV 140-9482/13 Calibration Date: 03/15/2017 21:46
 Instrument ID: MG Calib Start Date: 03/15/2017 14:36
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/15/2017 20:21
 Lab File ID: GICVC15.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
Tetrahydrofuran	Ave	1.021	0.8506		1.67	2.00	-16.7	35.0
1,1,1-Trichloroethane	Ave	3.246	3.062		1.89	2.00	-5.7	35.0
1,2-Dichloroethane	Ave	0.4038	0.3835		1.90	2.00	-5.0	35.0
Benzene	Ave	0.6795	0.6694		1.97	2.00	-1.5	35.0
1-Butanol	Ave	0.0727	0.0709		1.95	2.00	-2.5	35.0
Cyclohexane	Ave	0.1144	0.1156		2.02	2.00	1.0	35.0
Carbon tetrachloride	Ave	0.7102	0.6979		1.97	2.00	-1.7	35.0
2,3-Dimethylpentane	Ave	0.1564	0.1474		1.88	2.00	-5.8	35.0
Thiophene	Ave	0.3797	0.4001		2.11	2.00	5.4	35.0
Tert-amyl methyl ether	Ave	0.6230	0.5616		1.80	2.00	-9.9	35.0
2,2,4-Trimethylpentane	Ave	1.009	1.009		2.00	2.00	0.0	35.0
Heptane	Ave	0.2519	0.2479		1.97	2.00	-1.6	35.0
1,2-Dichloropropane	Ave	0.2308	0.2192		1.90	2.00	-5.0	35.0
Trichloroethene	Ave	0.3681	0.3977		2.16	2.00	8.0	35.0
Dibromomethane	Ave	0.3067	0.3038		1.98	2.00	-1.0	35.0
Bromodichloromethane	Ave	0.5888	0.5946		2.02	2.00	1.0	35.0
1,4-Dioxane	Ave	0.0920	0.0826		1.80	2.00	-10.2	35.0
Methyl methacrylate	Ave	0.2550	0.2190		1.72	2.00	-14.1	35.0
Methylcyclohexane	Ave	0.5294	0.4319		1.63	2.00	-18.4	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3903	0.3266		1.67	2.00	-16.3	35.0
cis-1,3-Dichloropropene	Ave	0.4274	0.4321		2.02	2.00	1.1	35.0
trans-1,3-Dichloropropene	Ave	0.4284	0.4207		1.96	2.00	-1.8	35.0
Toluene	Ave	0.7969	0.7662		1.92	2.00	-3.9	35.0
1,1,2-Trichloroethane	Ave	0.2389	0.2248		1.88	2.00	-5.9	35.0
2-Methylthiophene	Ave	0.6689	0.6855		2.05	2.00	2.5	35.0
3-Methylthiophene	Ave	0.6622	0.7015		2.12	2.00	5.9	35.0
2-Hexanone	Ave	0.1907	0.1692		1.77	2.00	-11.3	35.0
Octane	Ave	0.2880	0.2951		2.05	2.00	2.5	35.0
Dibromochloromethane	Ave	0.5960	0.6258		2.10	2.00	5.0	35.0
1,2-Dibromoethane (EDB)	Ave	0.4679	0.4673		2.00	2.00	-0.1	35.0
Tetrachloroethene	Ave	0.3645	0.3606		1.98	2.00	-1.1	35.0
Chlorobenzene	Ave	0.6744	0.6601		1.96	2.00	-2.1	35.0
2,3-Dimethylheptane	Ave	0.6822	0.6877		2.02	2.00	0.8	35.0
Ethylbenzene	Ave	1.113	0.9942		1.79	2.00	-10.7	35.0
2-Ethylthiophene	Ave	0.8768	0.8035		1.83	2.00	-8.4	35.0
m-Xylene & p-Xylene	Ave	0.8990	0.8022		3.57	4.00	-10.8	35.0
Bromoform	Ave	0.5594	0.6080		2.17	2.00	8.7	35.0
Nonane	Ave	0.4886	0.4940		2.02	2.00	1.1	35.0
Styrene	Ave	0.5931	0.5871		1.98	2.00	-1.0	35.0
o-Xylene	Ave	0.9191	0.8040		1.75	2.00	-12.5	35.0
1,1,2,2-Tetrachloroethane	Ave	0.5794	0.5324		1.84	2.00	-8.1	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: ICV 140-9482/13 Calibration Date: 03/15/2017 21:46
 Instrument ID: MG Calib Start Date: 03/15/2017 14:36
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/15/2017 20:21
 Lab File ID: GICVC15.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
1,2,3-Trichloropropane	Ave	0.2120	0.1848		1.74	2.00	-12.9	35.0
Isopropylbenzene	Ave	1.335	1.181		1.77	2.00	-11.6	35.0
Propylbenzene	Ave	0.3502	0.3227		1.84	2.00	-7.8	35.0
2-Chlorotoluene	Ave	0.3267	0.3097		1.90	2.00	-5.2	35.0
4-Ethyltoluene	Ave	1.257	1.076		1.71	2.00	-14.4	35.0
1,3,5-Trimethylbenzene	Ave	0.5895	0.5364		1.82	2.00	-9.0	35.0
Alpha Methyl Styrene	Ave	0.4751	0.4525		1.90	2.00	-4.8	35.0
Decane	Ave	0.5991	0.5941		1.98	2.00	-0.8	35.0
tert-Butylbenzene	Ave	1.242	1.099		1.77	2.00	-11.5	35.0
1,2,4-Trimethylbenzene	Ave	1.129	1.005		1.78	2.00	-11.0	35.0
1,3-Dichlorobenzene	Ave	0.8518	0.7863		1.85	2.00	-7.7	35.0
sec-Butylbenzene	Ave	1.590	1.436		1.81	2.00	-9.7	35.0
Benzyl chloride	Ave	1.065	0.9701		1.82	2.00	-8.9	35.0
1,4-Dichlorobenzene	Ave	0.8325	0.7695		1.85	2.00	-7.6	35.0
4-Isopropyltoluene	Ave	1.404	1.253		1.78	2.00	-10.8	35.0
1,2,3-Trimethylbenzene	Ave	0.8430	0.8126		1.93	2.00	-3.6	35.0
Butylcyclohexane	Ave	0.8320	0.7981		1.92	2.00	-4.1	35.0
1,2-Dichlorobenzene	Ave	0.8117	0.7324		1.80	2.00	-9.8	35.0
Indane	Ave	1.029	0.8707		1.69	2.00	-15.4	35.0
Indene	Ave	0.7517	0.8606		2.29	2.00	14.5	35.0
Butylbenzene	Ave	1.313	1.174		1.79	2.00	-10.6	35.0
Undecane	Ave	0.7029	0.6633		1.89	2.00	-5.6	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.048	1.175		2.24	2.00	12.1	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.3481	0.2673		1.54	2.00	-23.2	35.0
1,2,4,5-Tetramethylbenzene	Ave	1.259	1.269		2.02	2.00	0.8	35.0
1,2,3,5-Tetramethylbenzene	Ave	0.7577	0.7776		2.05	2.00	2.6	35.0
1,2,3,4-Tetramethylbenzene	Ave	1.035	1.033		2.00	2.00	-0.2	35.0
Dodecane	Ave	0.6236	0.5937		1.90	2.00	-4.8	35.0
1,2,4-Trichlorobenzene	Ave	0.7144	0.7323		2.05	2.00	2.5	35.0
Naphthalene	Ave	1.497	1.474		1.97	2.00	-1.5	35.0
Benzo (b) thiophene	Ave	0.8706	0.9324		2.14	2.00	7.1	35.0
Hexachlorobutadiene	Ave	0.7045	0.6788		1.93	2.00	-3.6	35.0
1,2,3-Trichlorobenzene	Ave	0.6741	0.7177		2.13	2.00	6.5	35.0
2-Methylnaphthalene	Ave	0.3108	0.2469		4.97	6.25	-20.6	50.0
1-Methylnaphthalene	Ave	0.3095	0.2503		5.06	6.25	-19.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7905	0.7720		3.91	4.00	-2.3	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GICVC15.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 15-Mar-2017 21:46:30 ALS Bottle#: 9 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004323-013
 Misc. Info.: 083671
 Operator ID: 7126 Instrument ID: MG
 Sublist:

Method: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Mar-2017 14:43:35 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: barlozhetskayaa Date: 16-Mar-2017 14:45:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.991	7.993	-0.002	81	414852	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.158	10.161	-0.003	94	2002906	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.033	15.034	-0.001	87	1960813	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.705	16.705	0.000	95	1513670	4.00	3.91	
6 Chlorodifluoromethane	67	3.456	3.457	-0.001	96	87006	2.00	1.89	
7 Propene	41	3.466	3.466	0.000	98	205110	2.00	1.87	
8 Dichlorodifluoromethane	85	3.510	3.510	0.000	99	830764	2.00	1.89	
9 Chloromethane	52	3.660	3.659	0.001	97	56384	2.00	1.91	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.666	3.669	-0.003	91	510128	2.00	1.95	
11 Acetaldehyde	44	3.785	3.786	-0.001	88	293266	10.0	8.46	
12 Vinyl chloride	62	3.801	3.803	-0.002	99	238858	2.00	1.97	
13 Butadiene	54	3.876	3.876	0.000	85	157294	2.00	1.95	
14 Butane	43	3.876	3.879	-0.003	94	328986	2.00	1.91	
15 Bromomethane	94	4.140	4.141	-0.001	98	230800	2.00	1.92	
16 Chloroethane	64	4.254	4.258	-0.004	93	115537	2.00	1.97	
17 Ethanol	31	4.345	4.357	-0.012	98	374711	10.0	8.98	
18 Vinyl bromide	106	4.507	4.511	-0.004	97	237558	2.00	2.09	
19 2-Methylbutane	43	4.556	4.560	-0.004	88	226177	2.00	1.95	
21 Acrolein	56	4.734	4.742	-0.008	29	35670	2.00	2.10	
20 Trichlorofluoromethane	101	4.739	4.743	-0.004	99	810646	2.00	1.85	
22 Acetonitrile	40	4.788	4.793	-0.005	98	57349	2.00	1.65	
23 Acetone	58	4.825	4.835	-0.010	99	178365	6.00	4.38	
25 Pentane	72	4.933	4.937	-0.004	95	41761	2.00	1.98	
24 Isopropyl alcohol	45	4.922	4.939	-0.017	94	568170	6.00	4.03	
26 Ethyl ether	31	5.068	5.075	-0.007	92	150139	2.00	1.57	
27 1,1-Dichloroethene	96	5.354	5.354	0.000	98	211079	2.00	1.91	
28 Acrylonitrile	53	5.429	5.435	-0.006	94	84890	2.00	1.68	
29 2-Methyl-2-propanol	59	5.445	5.467	-0.022	94	298931	2.00	1.77	
30 1,1,2-Trichloro-1,2,2-trif	101	5.521	5.521	0.000	93	492319	2.00	1.93	
31 Methylene Chloride	84	5.656	5.656	0.000	87	180559	2.00	1.81	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.666	5.673	-0.007	93	197747	2.00	1.84	
33 Carbon disulfide	76	5.796	5.797	-0.001	100	534876	2.00	1.90	
34 trans-1,2-Dichloroethene	96	6.389	6.393	-0.004	98	215378	2.00	1.99	
35 2-Methylpentane	43	6.421	6.426	-0.005	93	450992	2.00	2.13	
36 Methyl tert-butyl ether	73	6.502	6.513	-0.011	95	550186	2.00	1.71	
37 1,1-Dichloroethane	63	6.772	6.771	0.001	100	403782	2.00	1.91	
38 Vinyl acetate	43	6.874	6.881	-0.007	99	431077	2.00	1.78	
39 2-Butanone (MEK)	72	7.273	7.283	-0.010	99	80291	2.00	1.70	
40 Hexane	56	7.333	7.336	-0.003	87	159634	2.00	1.95	
41 Isopropyl ether	45	7.478	7.483	-0.005	94	527483	2.00	1.75	
42 cis-1,2-Dichloroethene	96	7.689	7.691	-0.002	95	230210	2.00	2.00	
43 Ethyl acetate	43	7.872	7.880	-0.008	98	322802	2.00	1.61	
44 Chloroform	83	8.018	8.019	-0.001	97	554919	2.00	1.91	
45 Tert-butyl ethyl ether	59	8.115	8.122	-0.007	94	551783	2.00	1.82	
46 Tetrahydrofuran	42	8.373	8.387	-0.014	90	176435	2.00	1.67	
47 1,1,1-Trichloroethane	97	8.994	8.997	-0.003	94	635165	2.00	1.89	
48 1,2-Dichloroethane	62	9.085	9.087	-0.002	99	384058	2.00	1.90	
49 Benzene	78	9.576	9.582	-0.006	96	670379	2.00	1.97	
50 Cyclohexane	69	9.592	9.590	0.002	94	115721	2.00	2.02	
52 n-Butanol	31	9.581	9.606	-0.025	61	70993	2.00	1.95	
51 Carbon tetrachloride	117	9.614	9.611	0.003	97	698916	2.00	1.97	
53 2,3-Dimethylpentane	71	9.732	9.740	-0.008	89	147657	2.00	1.88	
54 Thiophene	84	9.851	9.855	-0.004	95	400715	2.00	2.11	
55 Tert-amyl methyl ether	73	10.094	10.100	-0.006	98	562460	2.00	1.80	
56 Isooctane	57	10.412	10.414	-0.002	97	1010798	2.00	2.00	
57 n-Heptane	71	10.816	10.816	0.000	90	248245	2.00	1.97	
58 1,2-Dichloropropane	63	10.843	10.846	-0.003	84	219508	2.00	1.90	
59 Trichloroethene	130	10.897	10.897	0.000	97	398239	2.00	2.16	
60 Dibromomethane	93	10.962	10.961	0.001	94	304219	2.00	1.98	
61 Dichlorobromomethane	83	11.124	11.126	-0.002	98	595437	2.00	2.02	
62 1,4-Dioxane	88	11.140	11.152	-0.012	90	82734	2.00	1.80	
63 Methyl methacrylate	41	11.253	11.260	-0.007	94	219347	2.00	1.72	
64 Methylcyclohexane	83	11.701	11.704	-0.003	95	432488	2.00	1.63	
65 4-Methyl-2-pentanone (MIBK)	43	12.121	12.133	-0.012	96	327042	2.00	1.67	
66 cis-1,3-Dichloropropene	75	12.175	12.174	0.001	95	432682	2.00	2.02	
67 trans-1,3-Dichloropropene	75	12.892	12.897	-0.005	97	412484	2.00	1.96	
68 Toluene	91	13.022	13.021	0.001	94	751169	2.00	1.92	
69 1,1,2-Trichloroethane	83	13.092	13.091	0.001	99	220432	2.00	1.88	
70 2-Methylthiophene	97	13.173	13.173	0.000	97	672059	2.00	2.05	
71 3-Methylthiophene	97	13.378	13.381	-0.003	99	687752	2.00	2.12	
72 2-Hexanone	58	13.507	13.519	-0.012	94	165901	2.00	1.77	
73 n-Octane	85	13.777	13.780	-0.003	89	289336	2.00	2.05	
74 Chlorodibromomethane	129	13.798	13.803	-0.005	97	613573	2.00	2.10	
75 Ethylene Dibromide	107	14.089	14.092	-0.003	98	458135	2.00	2.00	
76 Tetrachloroethene	129	14.192	14.195	-0.003	95	353576	2.00	1.98	
77 Chlorobenzene	112	15.082	15.082	0.000	93	647192	2.00	1.96	
78 2,3-Dimethylheptane	43	15.152	15.155	-0.003	89	674189	2.00	2.02	
79 Ethylbenzene	91	15.389	15.393	-0.004	99	974667	2.00	1.79	
80 2-Ethylthiophene	97	15.486	15.491	-0.005	98	787782	2.00	1.83	
81 m-Xylene & p-Xylene	91	15.556	15.559	-0.003	99	1572879	4.00	3.57	
82 Bromoform	173	15.977	15.979	-0.002	96	596040	2.00	2.17	
83 Styrene	104	16.025	16.027	-0.002	98	575572	2.00	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 n-Nonane	57	16.025	16.029	-0.004	88	484291	2.00	2.02	
85 o-Xylene	91	16.085	16.088	-0.003	98	788290	2.00	1.75	
86 1,1,2,2-Tetrachloroethane	83	16.408	16.411	-0.003	99	521988	2.00	1.84	
87 1,2,3-Trichloropropane	110	16.564	16.565	-0.001	97	181130	2.00	1.74	
88 Isopropylbenzene	105	16.688	16.692	-0.004	96	1157421	2.00	1.77	
89 N-Propylbenzene	120	17.244	17.246	-0.002	99	316400	2.00	1.84	
90 2-Chlorotoluene	126	17.276	17.278	-0.002	97	303603	2.00	1.90	
91 4-Ethyltoluene	105	17.406	17.409	-0.003	98	1054948	2.00	1.71	
92 1,3,5-Trimethylbenzene	120	17.487	17.490	-0.003	92	525880	2.00	1.82	
93 Alpha Methyl Styrene	118	17.735	17.734	0.001	88	443671	2.00	1.90	
94 n-Decane	57	17.837	17.837	0.000	93	582480	2.00	1.98	
95 tert-Butylbenzene	119	17.939	17.939	0.000	94	1077330	2.00	1.77	
96 1,2,4-Trimethylbenzene	105	17.950	17.953	-0.003	96	985498	2.00	1.78	
97 1,3-Dichlorobenzene	146	18.220	18.223	-0.003	98	770930	2.00	1.85	
98 sec-Butylbenzene	105	18.225	18.225	0.000	98	1407422	2.00	1.81	
99 Benzyl chloride	91	18.301	18.303	-0.002	98	951071	2.00	1.82	
100 1,4-Dichlorobenzene	146	18.312	18.316	-0.004	95	754441	2.00	1.85	
101 4-Isopropyltoluene	119	18.398	18.402	-0.004	97	1228683	2.00	1.78	
102 1,2,3-Trimethylbenzene	105	18.446	18.445	0.001	98	796705	2.00	1.93	
103 Butylcyclohexane	83	18.516	18.520	-0.004	96	782474	2.00	1.92	
104 1,2-Dichlorobenzene	146	18.689	18.689	0.000	95	718038	2.00	1.80	
105 2,3-Dihydroindene	117	18.694	18.693	0.001	93	853643	2.00	1.69	
106 Indene	116	18.824	18.827	-0.003	95	843748	2.00	2.29	
107 n-Butylbenzene	91	18.851	18.854	-0.003	98	1150538	2.00	1.79	
108 Undecane	57	19.212	19.209	0.003	92	650345	2.00	1.89	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.239	19.239	0.000	97	1152241	2.00	2.24	
110 1,2-Dibromo-3-Chloropropan	157	19.309	19.308	0.001	97	262104	2.00	1.54	
111 1,2,4,5-Tetramethylbenzene	119	19.633	19.635	-0.002	96	1244340	2.00	2.02	
112 1,2,3,5-Tetramethylbenzene	119	19.687	19.689	-0.002	95	762366	2.00	2.05	
113 1,2,3,4-Tetramethylbenzene	119	20.080	20.083	-0.003	96	1012561	2.00	2.00	
114 Dodecane	57	20.280	20.280	0.000	94	582064	2.00	1.90	
115 1,2,4-Trichlorobenzene	180	20.420	20.418	0.002	94	717902	2.00	2.05	
116 Naphthalene	128	20.544	20.546	-0.002	99	1444732	2.00	1.97	
117 Benzo(b)thiophene	134	20.646	20.645	0.001	99	914096	2.00	2.14	
118 Hexachlorobutadiene	225	20.776	20.776	0.000	95	665473	2.00	1.93	
119 1,2,3-Trichlorobenzene	180	20.824	20.825	-0.001	95	703642	2.00	2.13	
120 2-Methylnaphthalene	142	21.622	21.623	-0.001	100	756538	6.25	4.97	
121 1-Methylnaphthalene	142	21.800	21.801	-0.001	100	767056	6.25	5.06	
A 122 C6 Range	1	7.343	(7.303-7.383)		0	1488733	2.00	1.94	
A 124 Toluene Range	1	13.011	(12.976-13.046)		0	1863072	2.00	1.94	
S 126 Xylenes, Total	100				0		6.00	5.32	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.00	

Reagents:

40CV101S_00036

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GICVC15.D

Injection Date: 15-Mar-2017 21:46:30

Instrument ID: MG

Operator ID: 7126

Lims ID: ICV

Worklist Smp#: 13

Client ID:

Purge Vol: 500.000 mL

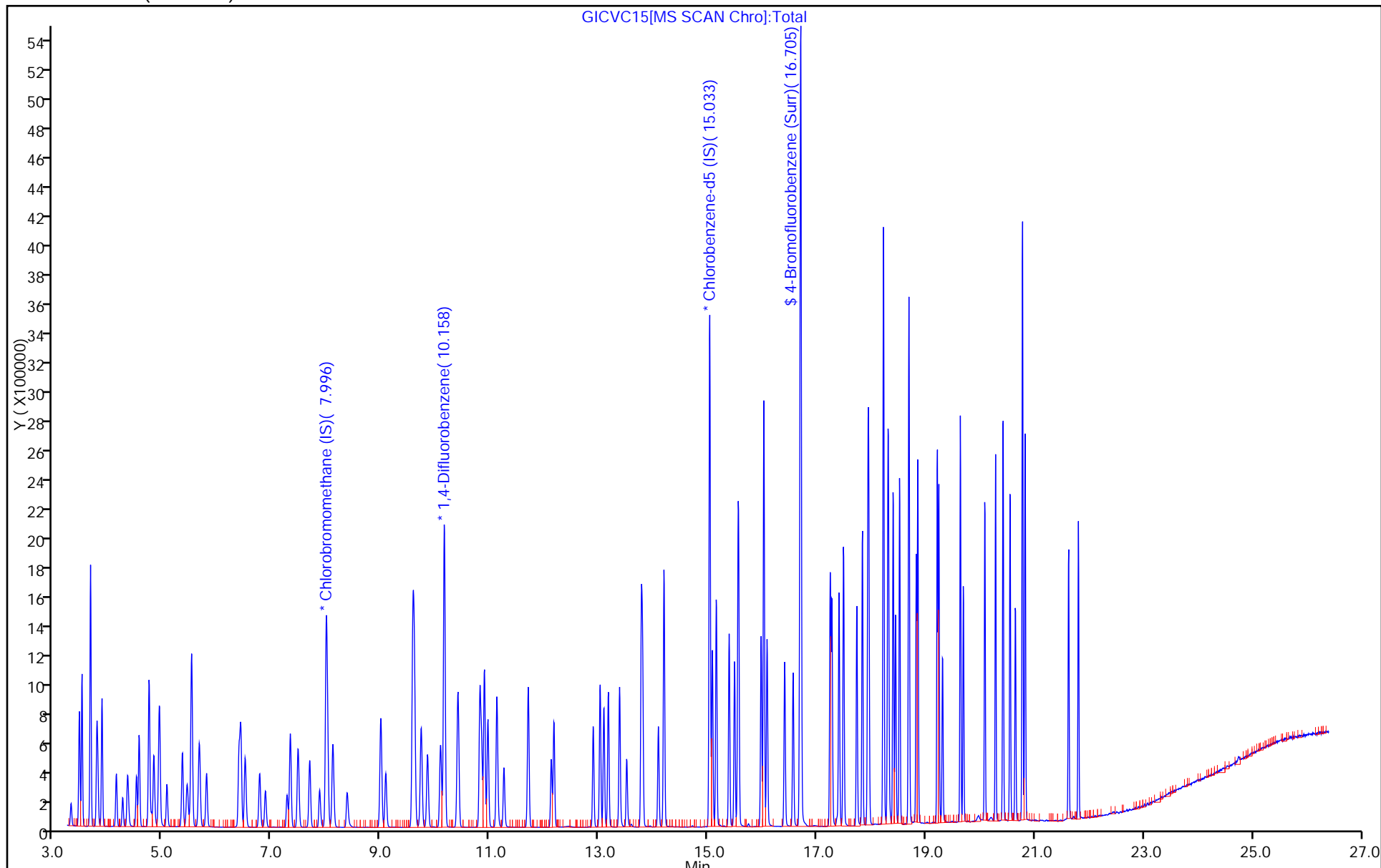
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MG_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.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-9922/6 Calibration Date: 03/28/2017 13:07
 Instrument ID: MG Calib Start Date: 03/15/2017 14:36
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/15/2017 20:21
 Lab File ID: GCCVC28A.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	0.4447	0.5185		2.33	2.00	16.6	30.0
Propene	Ave	1.058	0.8939		1.69	2.00	-15.5	30.0
Dichlorodifluoromethane	Ave	4.233	4.777		2.26	2.00	12.8	30.0
Chloromethane	Ave	0.2848	0.2586		1.82	2.00	-9.2	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.520	2.826		2.24	2.00	12.2	30.0
Acetaldehyde	Ave	0.3344	0.2626		7.85	10.0	-21.5	30.0
Vinyl chloride	Ave	1.170	1.142		1.95	2.00	-2.4	30.0
1,3-Butadiene	Ave	0.7793	0.7037		1.81	2.00	-9.7	30.0
Butane	Ave	1.658	1.529		1.85	2.00	-7.8	30.0
Bromomethane	Ave	1.156	1.173		2.03	2.00	1.4	30.0
Chloroethane	Ave	0.5663	0.5436		1.92	2.00	-4.0	30.0
Ethanol	Ave	0.4025	0.3689		9.17	10.0	-8.3	30.0
Vinyl bromide	Ave	1.096	1.227		2.24	2.00	11.9	30.0
2-Methylbutane	Ave	1.120	1.083		1.94	2.00	-3.3	30.0
Acrolein	Ave	0.1638	0.1899		2.32	2.00	15.9	30.0
Trichlorofluoromethane	Ave	4.216	5.009		2.38	2.00	18.8	30.0
Acetonitrile	Ave	0.3357	0.3259		1.94	2.00	-2.9	30.0
Acetone	Ave	0.3928	0.3355		5.13	6.00	-14.6	30.0
Pentane	Ave	0.2037	0.2264		2.22	2.00	11.1	30.0
Isopropyl alcohol	Ave	1.359	1.049		4.64	6.00	-22.8	30.0
Ethyl ether	Ave	0.9241	0.9426		2.04	2.00	2.0	30.0
1,1-Dichloroethene	Ave	1.066	1.134		2.13	2.00	6.3	30.0
Acrylonitrile	Ave	0.4861	0.4850		2.00	2.00	-0.2	30.0
tert-Butyl alcohol	Ave	1.624	1.728		2.13	2.00	6.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.459	2.772		2.26	2.00	12.7	30.0
Methylene Chloride	Ave	0.9619	0.9445		1.96	2.00	-1.8	30.0
3-Chloropropene	Ave	1.034	1.062		2.05	2.00	2.7	30.0
Carbon disulfide	Ave	2.716	2.857		2.10	2.00	5.2	30.0
trans-1,2-Dichloroethene	Ave	1.042	1.046		2.01	2.00	0.3	30.0
2-Methylpentane	Ave	2.045	2.013		1.97	2.00	-1.6	30.0
Methyl tert-butyl ether	Ave	3.096	3.208		2.07	2.00	3.6	30.0
1,1-Dichloroethane	Ave	2.035	1.999		1.97	2.00	-1.8	30.0
Vinyl acetate	Ave	2.337	2.300		1.97	2.00	-1.6	30.0
2-Butanone (MEK)	Ave	0.4552	0.4322		1.90	2.00	-5.0	30.0
Hexane	Ave	0.7899	0.7269		1.84	2.00	-8.0	30.0
Isopropyl ether	Ave	2.907	2.695		1.86	2.00	-7.3	30.0
cis-1,2-Dichloroethene	Ave	1.107	1.137		2.05	2.00	2.7	30.0
Ethyl acetate	Ave	1.927	1.735		1.80	2.00	-10.0	30.0
Chloroform	Ave	2.806	3.057		2.18	2.00	8.9	30.0
Tert-butyl ethyl ether	Ave	2.922	3.054		2.09	2.00	4.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-9922/6 Calibration Date: 03/28/2017 13:07
 Instrument ID: MG Calib Start Date: 03/15/2017 14:36
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/15/2017 20:21
 Lab File ID: GCCVC28A.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
Tetrahydrofuran	Ave	1.021	0.9368		1.84	2.00	-8.3	30.0
1,1,1-Trichloroethane	Ave	3.246	3.733		2.30	2.00	15.0	30.0
1,2-Dichloroethane	Ave	0.4038	0.4496		2.23	2.00	11.3	30.0
Benzene	Ave	0.6795	0.6624		1.95	2.00	-2.5	30.0
Cyclohexane	Ave	0.1144	0.1170		2.05	2.00	2.3	30.0
1-Butanol	Ave	0.0727	0.0769		2.12	2.00	5.7	30.0
Carbon tetrachloride	Ave	0.7102	0.8943		2.52	2.00	25.9	30.0
2,3-Dimethylpentane	Ave	0.1564	0.1464		1.87	2.00	-6.4	30.0
Thiophene	Ave	0.3797	0.4070		2.15	2.00	7.2	30.0
Tert-amyl methyl ether	Ave	0.6230	0.6927		2.23	2.00	11.2	30.0
2,2,4-Trimethylpentane	Ave	1.009	0.998		1.98	2.00	-1.1	30.0
Heptane	Ave	0.2519	0.2550		2.03	2.00	1.2	30.0
1,2-Dichloropropane	Ave	0.2308	0.2266		1.96	2.00	-1.8	30.0
Trichloroethene	Ave	0.3681	0.3879		2.11	2.00	5.4	30.0
Dibromomethane	Ave	0.3067	0.3466		2.26	2.00	13.0	30.0
Bromodichloromethane	Ave	0.5888	0.6970		2.37	2.00	18.4	30.0
1,4-Dioxane	Ave	0.0920	0.0927		2.02	2.00	0.8	30.0
Methyl methacrylate	Ave	0.2550	0.2689		2.11	2.00	5.5	30.0
Methylcyclohexane	Ave	0.5294	0.4442		1.68	2.00	-16.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3903	0.3979		2.04	2.00	1.9	30.0
cis-1,3-Dichloropropene	Ave	0.4274	0.4608		2.16	2.00	7.8	30.0
trans-1,3-Dichloropropene	Ave	0.4284	0.4765		2.23	2.00	11.2	30.0
Toluene	Ave	0.7969	0.8328		2.09	2.00	4.5	30.0
1,1,2-Trichloroethane	Ave	0.2389	0.2425		2.03	2.00	1.5	30.0
2-Methylthiophene	Ave	0.6689	0.7304		2.19	2.00	9.2	30.0
3-Methylthiophene	Ave	0.6622	0.7458		2.25	2.00	12.6	30.0
2-Hexanone	Ave	0.1907	0.1929		2.02	2.00	1.1	30.0
Octane	Ave	0.2880	0.3047		2.12	2.00	5.8	30.0
Dibromochloromethane	Ave	0.5960	0.7163		2.40	2.00	20.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.4679	0.5195		2.22	2.00	11.0	30.0
Tetrachloroethene	Ave	0.3645	0.3993		2.19	2.00	9.5	30.0
Chlorobenzene	Ave	0.6744	0.7057		2.09	2.00	4.6	30.0
2,3-Dimethylheptane	Ave	0.6822	0.6737		1.98	2.00	-1.2	30.0
Ethylbenzene	Ave	1.113	1.194		2.15	2.00	7.3	30.0
2-Ethylthiophene	Ave	0.8768	0.9656		2.20	2.00	10.1	30.0
m-Xylene & p-Xylene	Ave	0.8990	0.9896		4.41	4.00	10.1	30.0
Bromoform	Ave	0.5594	0.7160		2.56	2.00	28.0	30.0
Styrene	Ave	0.5931	0.6938		2.34	2.00	17.0	30.0
Nonane	Ave	0.4886	0.4900		2.01	2.00	0.3	30.0
o-Xylene	Ave	0.9191	0.9863		2.15	2.00	7.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5794	0.6253		2.16	2.00	7.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-9922/6 Calibration Date: 03/28/2017 13:07
 Instrument ID: MG Calib Start Date: 03/15/2017 14:36
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/15/2017 20:21
 Lab File ID: GCCVC28A.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
1,2,3-Trichloropropane	Ave	0.2120	0.2369		2.24	2.00	11.7	30.0
Isopropylbenzene	Ave	1.335	1.493		2.24	2.00	11.8	30.0
Propylbenzene	Ave	0.3502	0.3918		2.24	2.00	11.9	30.0
2-Chlorotoluene	Ave	0.3267	0.3587		2.20	2.00	9.8	30.0
4-Ethyltoluene	Ave	1.257	1.333		2.12	2.00	6.0	30.0
1,3,5-Trimethylbenzene	Ave	0.5895	0.6581		2.23	2.00	11.6	30.0
Alpha Methyl Styrene	Ave	0.4751	0.5527		2.33	2.00	16.3	30.0
Decane	Ave	0.5991	0.6298		2.10	2.00	5.1	30.0
tert-Butylbenzene	Ave	1.242	1.423		2.29	2.00	14.6	30.0
1,2,4-Trimethylbenzene	Ave	1.129	1.271		2.25	2.00	12.6	30.0
1,3-Dichlorobenzene	Ave	0.8518	0.9361		2.20	2.00	9.9	30.0
sec-Butylbenzene	Ave	1.590	1.817		2.29	2.00	14.3	30.0
Benzyl chloride	Ave	1.065	1.240		2.33	2.00	16.4	30.0
1,4-Dichlorobenzene	Ave	0.8325	0.9099		2.19	2.00	9.3	30.0
4-Isopropyltoluene	Ave	1.404	1.606		2.29	2.00	14.4	30.0
1,2,3-Trimethylbenzene	Ave	0.8430	1.011		2.40	2.00	19.9	30.0
Butylcyclohexane	Ave	0.8320	0.8642		2.08	2.00	3.9	30.0
1,2-Dichlorobenzene	Ave	0.8117	0.8901		2.19	2.00	9.7	30.0
Indane	Ave	1.029	1.073		2.09	2.00	4.3	30.0
Indene	Ave	0.7517	1.057		2.81	2.00	40.6*	30.0
Butylbenzene	Ave	1.313	1.478		2.25	2.00	12.6	30.0
Undecane	Ave	0.7029	0.7423		2.11	2.00	5.6	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	1.048	1.486		2.84	2.00	41.8*	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3481	0.3372		1.94	2.00	-3.1	30.0
1,2,4,5-Tetramethylbenzene	Ave	1.259	1.623		2.58	2.00	28.9	30.0
1,2,3,5-Tetramethylbenzene	Ave	0.7577	0.9794		2.59	2.00	29.3	30.0
1,2,3,4-Tetramethylbenzene	Ave	1.035	1.307		2.53	2.00	26.3	30.0
Dodecane	Ave	0.6236	0.6939		2.23	2.00	11.3	30.0
1,2,4-Trichlorobenzene	Ave	0.7144	0.8916		2.50	2.00	24.8	30.0
Naphthalene	Ave	1.497	1.784		2.39	2.00	19.2	30.0
Benzo (b) thiophene	Ave	0.8706	1.096		2.52	2.00	25.9	30.0
Hexachlorobutadiene	Ave	0.7045	0.8765		2.49	2.00	24.4	30.0
1,2,3-Trichlorobenzene	Ave	0.6741	0.8640		2.56	2.00	28.2	30.0
2-Methylnaphthalene	Ave	0.3108	0.2603		5.24	6.25	-16.2	50.0
1-Methylnaphthalene	Ave	0.3095	0.2586		5.23	6.25	-16.4	50.0
4-Bromofluorobenzene (Surr)	Ave	0.7905	0.8600		4.35	4.00	8.8	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GCCVC28A.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 28-Mar-2017 13:07:30 ALS Bottle#: 15 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-002
 Misc. Info.: S35
 Operator ID: 7126 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:55:34 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh

Date: 29-Mar-2017 10:55:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.996	7.996	0.000	77	250986	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.158	10.158	0.000	95	1223103	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.028	15.028	0.000	88	1222770	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.699	16.699	0.000	93	1051627	4.00	4.35	
6 Chlorodifluoromethane	67	3.472	3.472	0.000	96	65096	2.00	2.33	
7 Propene	41	3.477	3.477	0.000	95	112235	2.00	1.69	
8 Dichlorodifluoromethane	85	3.520	3.520	0.000	100	599768	2.00	2.26	
9 Chloromethane	52	3.671	3.671	0.000	51	32464	2.00	1.82	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.682	3.682	0.000	89	354866	2.00	2.24	
11 Acetaldehyde	44	3.795	3.795	0.000	84	164827	10.0	7.85	
12 Vinyl chloride	62	3.812	3.812	0.000	100	143413	2.00	1.95	
13 Butadiene	54	3.887	3.887	0.000	86	88353	2.00	1.81	
14 Butane	43	3.887	3.887	0.000	94	191958	2.00	1.85	
15 Bromomethane	94	4.151	4.151	0.000	97	147247	2.00	2.03	
16 Chloroethane	64	4.264	4.264	0.000	90	68248	2.00	1.92	
17 Ethanol	31	4.367	4.367	0.000	97	231602	10.0	9.17	
18 Vinyl bromide	106	4.518	4.518	0.000	96	154009	2.00	2.24	
19 2-Methylbutane	43	4.566	4.566	0.000	88	136013	2.00	1.94	
21 Acrolein	56	4.744	4.744	0.000	94	23844	2.00	2.32	
20 Trichlorofluoromethane	101	4.750	4.750	0.000	99	628968	2.00	2.38	
22 Acetonitrile	40	4.798	4.798	0.000	96	40922	2.00	1.94	
23 Acetone	58	4.836	4.836	0.000	100	126371	6.00	5.13	
25 Pentane	72	4.939	4.939	0.000	95	28428	2.00	2.22	
24 Isopropyl alcohol	45	4.944	4.944	0.000	97	395154	6.00	4.64	
26 Ethyl ether	31	5.073	5.073	0.000	91	118352	2.00	2.04	
27 1,1-Dichloroethene	96	5.359	5.359	0.000	98	142331	2.00	2.13	
28 Acrylonitrile	53	5.440	5.440	0.000	94	60891	2.00	2.00	
29 2-Methyl-2-propanol	59	5.467	5.467	0.000	95	216982	2.00	2.13	
30 1,1,2-Trichloro-1,2,2-trif	101	5.526	5.526	0.000	93	348111	2.00	2.26	
31 Methylene Chloride	84	5.661	5.661	0.000	89	118593	2.00	1.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	5.677	5.677	0.000	90	133291	2.00	2.05	
33 Carbon disulfide	76	5.801	5.801	0.000	99	358739	2.00	2.10	
34 trans-1,2-Dichloroethene	96	6.394	6.394	0.000	97	131337	2.00	2.01	
35 2-Methylpentane	43	6.427	6.427	0.000	90	252764	2.00	1.97	
36 Methyl tert-butyl ether	73	6.508	6.508	0.000	94	402848	2.00	2.07	
37 1,1-Dichloroethane	63	6.772	6.772	0.000	99	251010	2.00	1.97	
38 Vinyl acetate	43	6.880	6.880	0.000	99	288835	2.00	1.97	
39 2-Butanone (MEK)	72	7.273	7.273	0.000	98	54269	2.00	1.90	
40 Hexane	56	7.338	7.338	0.000	87	91274	2.00	1.84	
41 Isopropyl ether	45	7.478	7.478	0.000	91	338448	2.00	1.86	
42 cis-1,2-Dichloroethene	96	7.689	7.689	0.000	96	142749	2.00	2.05	
43 Ethyl acetate	43	7.872	7.872	0.000	97	217788	2.00	1.80	
44 Chloroform	83	8.018	8.018	0.000	96	383789	2.00	2.18	
45 Tert-butyl ethyl ether	59	8.115	8.115	0.000	95	383512	2.00	2.09	
46 Tetrahydrofuran	42	8.379	8.379	0.000	87	117626	2.00	1.84	
47 1,1,1-Trichloroethane	97	8.994	8.994	0.000	94	468770	2.00	2.30	
48 1,2-Dichloroethane	62	9.085	9.085	0.000	98	275108	2.00	2.23	
49 Benzene	78	9.576	9.576	0.000	96	405313	2.00	1.95	
50 Cyclohexane	69	9.587	9.587	0.000	88	71579	2.00	2.05	
52 n-Butanol	31	9.598	9.598	0.000	71	47056	2.00	2.12	
51 Carbon tetrachloride	117	9.608	9.608	0.000	98	547194	2.00	2.52	
53 2,3-Dimethylpentane	71	9.732	9.732	0.000	87	89584	2.00	1.87	
54 Thiophene	84	9.851	9.851	0.000	95	249061	2.00	2.15	
55 Tert-amyl methyl ether	73	10.088	10.088	0.000	97	423892	2.00	2.23	
56 Isooctane	57	10.412	10.412	0.000	95	610637	2.00	1.98	
57 n-Heptane	71	10.811	10.811	0.000	90	156015	2.00	2.03	
58 1,2-Dichloropropane	63	10.838	10.838	0.000	80	138628	2.00	1.96	
59 Trichloroethene	130	10.892	10.892	0.000	95	237341	2.00	2.11	
60 Dibromomethane	93	10.956	10.956	0.000	93	212067	2.00	2.26	
61 Dichlorobromomethane	83	11.124	11.124	0.000	98	426489	2.00	2.37	
62 1,4-Dioxane	88	11.140	11.140	0.000	92	56739	2.00	2.02	
63 Methyl methacrylate	41	11.253	11.253	0.000	92	164539	2.00	2.11	
64 Methylcyclohexane	83	11.695	11.695	0.000	94	271768	2.00	1.68	
65 4-Methyl-2-pentanone (MIBK)	43	12.121	12.121	0.000	95	243453	2.00	2.04	
66 cis-1,3-Dichloropropene	75	12.170	12.170	0.000	96	281970	2.00	2.16	
67 trans-1,3-Dichloropropene	75	12.892	12.892	0.000	97	291448	2.00	2.23	
68 Toluene	91	13.016	13.016	0.000	93	509430	2.00	2.09	
69 1,1,2-Trichloroethane	83	13.086	13.086	0.000	97	148367	2.00	2.03	
70 2-Methylthiophene	97	13.167	13.167	0.000	97	446778	2.00	2.19	
71 3-Methylthiophene	97	13.372	13.372	0.000	99	456181	2.00	2.25	
72 2-Hexanone	58	13.507	13.507	0.000	93	117973	2.00	2.02	
73 n-Octane	85	13.777	13.777	0.000	85	186408	2.00	2.12	
74 Chlorodibromomethane	129	13.798	13.798	0.000	97	438155	2.00	2.40	
75 Ethylene Dibromide	107	14.084	14.084	0.000	97	317797	2.00	2.22	
76 Tetrachloroethene	129	14.186	14.186	0.000	93	244254	2.00	2.19	
77 Chlorobenzene	112	15.076	15.076	0.000	92	431708	2.00	2.09	
78 2,3-Dimethylheptane	43	15.146	15.146	0.000	89	412118	2.00	1.98	
79 Ethylbenzene	91	15.384	15.384	0.000	99	730363	2.00	2.15	
80 2-Ethylthiophene	97	15.486	15.486	0.000	98	590651	2.00	2.20	
81 m-Xylene & p-Xylene	91	15.556	15.556	0.000	99	1210704	4.00	4.41	
82 Bromoform	173	15.971	15.971	0.000	95	438004	2.00	2.56	
83 Styrene	104	16.020	16.020	0.000	96	424418	2.00	2.34	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 n-Nonane	57	16.025	16.025	0.000	86	299720	2.00	2.01	
85 o-Xylene	91	16.079	16.079	0.000	98	603341	2.00	2.15	
86 1,1,2,2-Tetrachloroethane	83	16.403	16.403	0.000	97	382518	2.00	2.16	
87 1,2,3-Trichloropropane	110	16.559	16.559	0.000	95	144885	2.00	2.24	
88 Isopropylbenzene	105	16.683	16.683	0.000	98	913273	2.00	2.24	
89 N-Propylbenzene	120	17.239	17.239	0.000	99	239686	2.00	2.24	
90 2-Chlorotoluene	126	17.271	17.271	0.000	97	219405	2.00	2.20	
91 4-Ethyltoluene	105	17.400	17.400	0.000	98	815478	2.00	2.12	
92 1,3,5-Trimethylbenzene	120	17.487	17.487	0.000	92	402566	2.00	2.23	
93 Alpha Methyl Styrene	118	17.729	17.729	0.000	86	338119	2.00	2.33	
94 n-Decane	57	17.832	17.832	0.000	94	385243	2.00	2.10	
95 tert-Butylbenzene	119	17.934	17.934	0.000	94	870638	2.00	2.29	
96 1,2,4-Trimethylbenzene	105	17.950	17.950	0.000	96	777591	2.00	2.25	
97 1,3-Dichlorobenzene	146	18.215	18.215	0.000	97	572621	2.00	2.20	
98 sec-Butylbenzene	105	18.220	18.220	0.000	97	1111768	2.00	2.29	
99 Benzyl chloride	91	18.295	18.295	0.000	97	758813	2.00	2.33	
100 1,4-Dichlorobenzene	146	18.312	18.312	0.000	95	556600	2.00	2.19	
101 4-Isopropyltoluene	119	18.398	18.398	0.000	97	982324	2.00	2.29	
102 1,2,3-Trimethylbenzene	105	18.441	18.441	0.000	98	618255	2.00	2.40	
103 Butylcyclohexane	83	18.516	18.516	0.000	95	528624	2.00	2.08	
104 1,2-Dichlorobenzene	146	18.684	18.684	0.000	94	544482	2.00	2.19	
105 2,3-Dihydroindene	117	18.689	18.689	0.000	93	656436	2.00	2.09	
106 Indene	116	18.818	18.818	0.000	91	646556	2.00	2.81	
107 n-Butylbenzene	91	18.851	18.851	0.000	97	903996	2.00	2.25	
108 Undecane	57	19.207	19.207	0.000	91	454079	2.00	2.11	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.234	19.234	0.000	96	909231	2.00	2.84	
110 1,2-Dibromo-3-Chloropropan	157	19.304	19.304	0.000	96	206309	2.00	1.94	
111 1,2,4,5-Tetramethylbenzene	119	19.633	19.633	0.000	96	992789	2.00	2.58	
112 1,2,3,5-Tetramethylbenzene	119	19.687	19.687	0.000	94	599094	2.00	2.59	
113 1,2,3,4-Tetramethylbenzene	119	20.080	20.080	0.000	96	799440	2.00	2.53	
114 Dodecane	57	20.274	20.274	0.000	91	424466	2.00	2.23	
115 1,2,4-Trichlorobenzene	180	20.415	20.415	0.000	94	545392	2.00	2.50	
116 Naphthalene	128	20.544	20.544	0.000	98	1091477	2.00	2.39	
117 Benzo(b)thiophene	134	20.641	20.641	0.000	99	670684	2.00	2.52	
118 Hexachlorobutadiene	225	20.771	20.771	0.000	94	536166	2.00	2.49	
119 1,2,3-Trichlorobenzene	180	20.819	20.819	0.000	94	528504	2.00	2.56	
120 2-Methylnaphthalene	142	21.617	21.617	0.000	99	497696	6.25	5.24	
121 1-Methylnaphthalene	142	21.795	21.795	0.000	99	494341	6.25	5.23	
A 122 C6 Range	1	7.348	(7.308-7.388)		0	917283	2.00	1.96	
A 124 Toluene Range	1	13.011	(12.976-13.046)		0	1290064	2.00	2.20	
S 126 Xylenes, Total	100				0		6.00	6.55	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.06	

Reagents:

40CV101S_00035

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GCCVC28A.D

Injection Date: 28-Mar-2017 13:07:30

Instrument ID: MG

Operator ID: 7126

Lims ID: CCVIS

Worklist Smp#: 6

Client ID:

Purge Vol: 500.000 mL

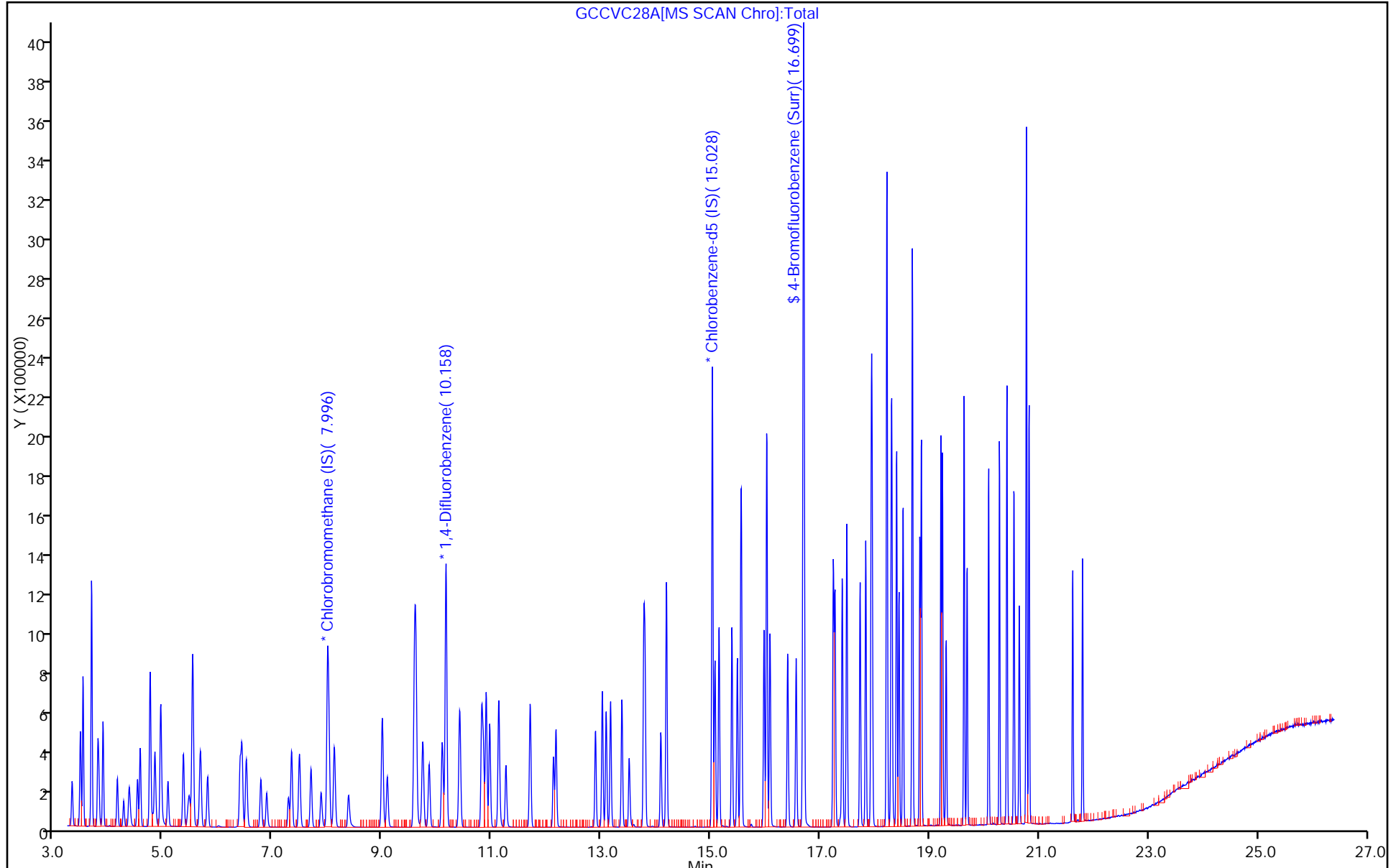
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MG_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.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: ICV 140-9602/18 Calibration Date: 03/24/2017 23:36
 Instrument ID: MJ Calib Start Date: 03/24/2017 11:31
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/24/2017 17:35
 Lab File ID: JLCSC24.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	0.3358	0.3662		2.18	2.00	9.0	35.0
Propene	Ave	1.187	1.151		1.94	2.00	-3.0	35.0
Dichlorodifluoromethane	Ave	3.428	3.531		2.06	2.00	3.0	35.0
Chloromethane	Ave	0.3760	0.3627		1.93	2.00	-3.5	35.0
1,2-Dichlorotetrafluoroethane	Ave	1.519	1.562		2.06	2.00	2.8	35.0
Acetaldehyde	Ave	0.3601	0.2357		6.55	10.0	-34.6	35.0
Vinyl chloride	Ave	1.106	1.161		2.10	2.00	5.0	35.0
1,3-Butadiene	Ave	0.8287	0.8291		2.00	2.00	0.0	35.0
Butane	Ave	1.667	1.693		2.03	2.00	1.6	35.0
Bromomethane	Ave	1.032	0.9844		1.91	2.00	-4.6	35.0
Chloroethane	Ave	0.4554	0.4769		2.10	2.00	4.7	35.0
Ethanol	Ave	0.2358	0.2278		9.67	10.0	-3.4	35.0
Vinyl bromide	Ave	0.8970	0.9745		2.17	2.00	8.6	35.0
2-Methylbutane	Ave	1.492	1.527		2.05	2.00	2.3	35.0
Trichlorofluoromethane	Ave	3.148	3.336		2.12	2.00	6.0	35.0
Acrolein	Ave	0.2731	0.2073		1.52	2.00	-24.1	35.0
Acetonitrile	Ave	0.3455	0.2486		1.44	2.00	-28.0	35.0
Acetone	Ave	0.3357	0.2409		4.31	6.00	-28.2	35.0
Isopropyl alcohol	Ave	1.375	1.146		5.00	6.00	-16.7	35.0
Pentane	Ave	0.1787	0.2014		2.25	2.00	12.7	35.0
Ethyl ether	Ave	1.059	0.8417		1.59	2.00	-20.6	35.0
1,1-Dichloroethene	Ave	1.205	1.265		2.10	2.00	5.0	35.0
t-Butyl alcohol	Ave	1.483	1.623		2.19	2.00	9.4	35.0
Acrylonitrile	Ave	0.5968	0.4223		1.42	2.00	-29.2	35.0
1,1,2-Trichlorotrifluoroethane	Ave	2.546	2.695		2.12	2.00	5.8	35.0
Methylene Chloride	Ave	1.236	1.195		1.94	2.00	-3.3	35.0
3-Chloropropene	Ave	1.210	1.137		1.88	2.00	-6.1	35.0
Carbon disulfide	Ave	3.498	3.616		2.07	2.00	3.4	35.0
trans-1,2-Dichloroethene	Ave	1.224	1.273		2.08	2.00	4.0	35.0
2-Methylpentane	Ave	2.848	3.198		2.25	2.00	12.3	35.0
Methyl tert-butyl ether	Ave	1.832	1.637		1.79	2.00	-10.6	35.0
1,1-Dichloroethane	Ave	2.394	2.426		2.03	2.00	1.3	35.0
Vinyl acetate	Ave	1.952	1.391		1.43	2.00	-28.7	35.0
2-Butanone	Ave	0.2943	0.2662		1.81	2.00	-9.6	35.0
Hexane	Ave	1.050	1.091		2.08	2.00	3.9	35.0
Isopropyl ether	Ave	2.602	2.329		1.79	2.00	-10.5	35.0
cis-1,2-Dichloroethene	Ave	1.283	1.325		2.07	2.00	3.3	35.0
Ethyl acetate	Ave	1.399	1.267		1.81	2.00	-9.5	35.0
Chloroform	Ave	2.640	2.546		1.93	2.00	-3.5	35.0
Tert-butyl ethyl ether	Ave	2.079	2.057		1.98	2.00	-1.1	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: ICV 140-9602/18 Calibration Date: 03/24/2017 23:36
 Instrument ID: MJ Calib Start Date: 03/24/2017 11:31
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/24/2017 17:35
 Lab File ID: JLCS24.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
Tetrahydrofuran	Ave	0.8005	0.7130		1.78	2.00	-10.9	35.0
1,1,1-Trichloroethane	Ave	2.745	2.793		2.04	2.00	1.7	35.0
1,2-Dichloroethane	Ave	0.3809	0.3813		2.00	2.00	0.0	35.0
1-Butanol	Ave	0.0685	0.0812		2.37	2.00	18.6	35.0
Benzene	Ave	0.7840	0.7580		1.93	2.00	-3.3	35.0
Cyclohexane	Ave	0.1208	0.1357		2.25	2.00	12.3	35.0
Carbon tetrachloride	Ave	0.6048	0.6565		2.17	2.00	8.6	35.0
2,3-Dimethylpentane	Ave	0.1698	0.1655		1.95	2.00	-2.5	35.0
Thiophene	Ave	0.4449	0.4595		2.07	2.00	3.3	35.0
Tert-amyl methyl ether	Ave	0.4115	0.4389		2.13	2.00	6.7	35.0
2,2,4-Trimethylpentane	Ave	1.354	1.324		1.96	2.00	-2.2	35.0
Heptane	Ave	0.2609	0.2546		1.95	2.00	-2.4	35.0
1,2-Dichloropropane	Ave	0.2863	0.2577		1.80	2.00	-10.0	35.0
Trichloroethene	Ave	0.4235	0.4468		2.11	2.00	5.5	35.0
Dibromomethane	Ave	0.3258	0.3283		2.02	2.00	0.8	35.0
Bromodichloromethane	Ave	0.5424	0.5485		2.02	2.00	1.1	35.0
1,4-Dioxane	Ave	0.0672	0.0722		2.15	2.00	7.5	35.0
Methyl methacrylate	Ave	0.1818	0.1691		1.86	2.00	-7.0	35.0
Methylcyclohexane	Ave	0.5859	0.4848		1.66	2.00	-17.3	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3358	0.3556		2.12	2.00	5.9	35.0
cis-1,3-Dichloropropene	Ave	0.4271	0.4330		2.03	2.00	1.4	35.0
trans-1,3-Dichloropropene	Ave	0.3971	0.3781		1.91	2.00	-4.8	35.0
Toluene	Ave	0.8458	0.7440		1.76	2.00	-12.0	35.0
1,1,2-Trichloroethane	Ave	0.2639	0.2462		1.87	2.00	-6.7	35.0
2-Methylthiophene	Ave	0.7600	0.7520		1.98	2.00	-1.1	35.0
3-Methylthiophene	Ave	0.7442	0.7590		2.04	2.00	2.0	35.0
2-Hexanone	Ave	0.1745	0.1978		2.27	2.00	13.4	35.0
Octane	Ave	0.2900	0.2899		2.00	2.00	-0.0	35.0
Dibromochloromethane	Ave	0.5530	0.5953		2.15	2.00	7.6	35.0
1,2-Dibromoethane	Ave	0.4876	0.4880		2.00	2.00	0.0	35.0
Tetrachloroethene	Ave	0.3511	0.3485		1.99	2.00	-0.8	35.0
Chlorobenzene	Ave	0.7227	0.7114		1.97	2.00	-1.6	35.0
2,3-Dimethylheptane	Ave	0.8964	0.9171		2.05	2.00	2.3	35.0
Ethylbenzene	Ave	0.9550	0.7826		1.64	2.00	-18.1	35.0
2-Ethylthiophene	Ave	0.7816	0.6641		1.70	2.00	-15.0	35.0
m-Xylene & p-Xylene	Ave	0.6909	0.5759		3.34	4.00	-16.6	35.0
Nonane	Ave	0.6159	0.6267		2.04	2.00	1.8	35.0
Bromoform	Ave	0.5555	0.5906		2.13	2.00	6.3	35.0
Styrene	Ave	0.5162	0.4513		1.75	2.00	-12.6	35.0
o-Xylene	Ave	0.7045	0.5803		1.65	2.00	-17.6	35.0
1,1,2,2-Tetrachloroethane	Ave	0.4787	0.4432		1.85	2.00	-7.4	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: ICV 140-9602/18 Calibration Date: 03/24/2017 23:36
 Instrument ID: MJ Calib Start Date: 03/24/2017 11:31
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/24/2017 17:35
 Lab File ID: JLCSC24.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
1,2,3-Trichloropropane	Ave	0.1184	0.1070		1.81	2.00	-9.6	35.0
Isopropylbenzene	Ave	0.8969	0.7634		1.70	2.00	-14.9	35.0
Propylbenzene	Ave	0.2311	0.2151		1.86	2.00	-7.0	35.0
2-Chlorotoluene	Ave	0.2859	0.2573		1.80	2.00	-10.0	35.0
4-Ethyltoluene	Ave	0.7855	0.6957		1.77	2.00	-11.4	35.0
1,3,5-Trimethylbenzene	Ave	0.3678	0.3517		1.91	2.00	-4.4	35.0
Alpha Methyl Styrene	Ave	0.3164	0.3093		1.96	2.00	-2.2	35.0
Decane	Ave	0.6827	0.6369		1.87	2.00	-6.7	35.0
tert-Butylbenzene	Ave	0.7007	0.6654		1.90	2.00	-5.0	35.0
1,2,4-Trimethylbenzene	Ave	0.6325	0.6204		1.96	2.00	-1.9	35.0
sec-Butylbenzene	Ave	0.9599	0.9225		1.92	2.00	-3.9	35.0
1,3-Dichlorobenzene	Ave	0.6064	0.5581		1.84	2.00	-8.0	35.0
Benzyl chloride	Ave	0.4970	0.5149		2.07	2.00	3.6	35.0
1,4-Dichlorobenzene	Ave	0.5863	0.5263		1.80	2.00	-10.2	35.0
4-Isopropyltoluene	Ave	0.7599	0.7560		1.99	2.00	-0.5	35.0
1,2,3-Trimethylbenzene	Ave	0.4800	0.5022		2.09	2.00	4.6	35.0
Butylcyclohexane	Ave	0.8128	0.7502		1.85	2.00	-7.7	35.0
1,2-Dichlorobenzene	Ave	0.5458	0.4859		1.78	2.00	-11.0	35.0
Indane	Ave	0.6332	0.5570		1.76	2.00	-12.0	35.0
Indene	Ave	0.4315	0.5246		2.43	2.00	21.6	35.0
Butylbenzene	Ave	0.7501	0.7475		1.99	2.00	-0.4	35.0
Undecane	Ave	0.6033	0.5859		1.94	2.00	-2.9	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.5459	0.6953		2.55	2.00	27.4	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.1668	0.1514		1.82	2.00	-9.2	35.0
1,2,4,5-Tetramethylbenzene	Ave	0.6287	0.7183		2.29	2.00	14.2	35.0
1,2,3,5-Tetramethylbenzene	Ave	0.3993	0.4588		2.30	2.00	14.9	35.0
1,2,3,4-Tetramethylbenzene	Ave	0.5177	0.5860		2.27	2.00	13.2	35.0
Dodecane	Ave	0.5120	0.5746		2.25	2.00	12.2	35.0
1,2,4-Trichlorobenzene	Ave	0.2975	0.3056		2.06	2.00	2.7	35.0
Naphthalene	Ave	0.5520	0.6112		2.22	2.00	10.7	35.0
Benzo (b) thiophene	Ave	0.2783	0.3047		2.19	2.00	9.5	35.0
Hexachlorobutadiene	Ave	0.5245	0.4803		1.83	2.00	-8.4	35.0
1,2,3-Trichlorobenzene	Ave	0.2818	0.3017		2.14	2.00	7.1	35.0
2-Methylnaphthalene	Ave	0.0371	0.0270		4.55	6.25	-27.3	50.0
1-Methylnaphthalene	Ave	0.0406	0.0259		3.99	6.25	-36.2	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6982	0.7059		4.04	4.00	1.1	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JLCSC24.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 24-Mar-2017 23:36:30 ALS Bottle#: 15 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004355-018
 Misc. Info.: 083670
 Operator ID: 007126 Instrument ID: MJ
 Sublist:

Method: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 13:12:28 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: barlozhetskayaa Date: 27-Mar-2017 13:12:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.551	8.549	0.002	97	256445	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.746	10.746	0.000	95	1157126	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.523	15.525	-0.002	88	1073197	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.174	17.169	0.002	95	757527	4.00	4.04	
6 Chlorodifluoromethane	67	3.564	3.563	0.001	97	46979	2.00	2.18	
7 Propene	41	3.575	3.573	0.003	99	147707	2.00	1.94	
8 Dichlorodifluoromethane	85	3.624	3.622	0.003	100	452957	2.00	2.06	
9 Chloromethane	52	3.796	3.796	0.001	98	46528	2.00	1.93	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.801	3.800	0.002	97	200368	2.00	2.06	
11 Acetaldehyde	44	3.941	3.941	0.001	99	151162	10.0	6.55	
12 Vinyl chloride	62	3.957	3.956	0.002	99	148894	2.00	2.10	
14 Butadiene	54	4.043	4.037	0.006	67	106369	2.00	2.00	
13 Butane	43	4.043	4.039	0.005	85	217182	2.00	2.03	
15 Bromomethane	94	4.344	4.344	0.001	98	126286	2.00	1.91	
16 Chloroethane	64	4.479	4.478	0.002	93	61183	2.00	2.10	
17 Ethanol	31	4.570	4.569	0.002	96	146124	10.0	9.67	
18 Vinyl bromide	106	4.764	4.763	0.002	98	125019	2.00	2.17	
19 2-Methylbutane	43	4.812	4.812	0.001	92	195921	2.00	2.05	
20 Trichlorofluoromethane	101	5.022	5.023	0.000	100	428016	2.00	2.12	
21 Acrolein	56	5.033	5.035	-0.001	92	26600	2.00	1.52	
22 Acetonitrile	40	5.097	5.099	-0.001	99	31897	2.00	1.44	
23 Acetone	58	5.151	5.151	0.001	98	92715	6.00	4.31	
24 Isopropyl alcohol	45	5.227	5.229	-0.001	94	440981	6.00	5.00	
25 Pentane	72	5.237	5.234	0.004	96	25831	2.00	2.25	
26 Ethyl ether	31	5.404	5.408	-0.003	94	107984	2.00	1.59	
27 1,1-Dichloroethene	96	5.711	5.708	0.004	96	162267	2.00	2.10	
28 2-Methyl-2-propanol	59	5.802	5.809	-0.006	95	208231	2.00	2.19	
29 Acrylonitrile	53	5.813	5.810	0.004	95	54172	2.00	1.42	
30 1,1,2-Trichloro-1,2,2-trif	101	5.878	5.879	0.000	97	345766	2.00	2.12	
31 Methylene Chloride	84	6.050	6.044	0.007	99	153371	2.00	1.94	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.060	6.061	0.001	95	145862	2.00	1.88	
33 Carbon disulfide	76	6.206	6.204	0.003	99	463864	2.00	2.07	
34 trans-1,2-Dichloroethene	96	6.840	6.839	0.002	97	163304	2.00	2.08	
35 2-Methylpentane	43	6.857	6.856	0.003	96	410327	2.00	2.25	
36 Methyl tert-butyl ether	73	6.975	6.978	-0.002	97	210060	2.00	1.79	
37 1,1-Dichloroethane	63	7.255	7.251	0.006	100	311171	2.00	2.03	
38 Vinyl acetate	43	7.362	7.360	0.003	100	178461	2.00	1.43	
39 2-Butanone (MEK)	72	7.809	7.811	-0.001	95	34144	2.00	1.81	
40 Hexane	56	7.825	7.822	0.004	90	139992	2.00	2.08	
41 Isopropyl ether	45	7.992	7.989	0.004	98	298787	2.00	1.79	
42 cis-1,2-Dichloroethene	96	8.223	8.221	0.003	96	169979	2.00	2.07	
43 Ethyl acetate	43	8.417	8.424	-0.006	99	162512	2.00	1.81	
44 Chloroform	83	8.562	8.562	0.001	98	326643	2.00	1.93	
45 Tert-butyl ethyl ether	59	8.659	8.664	-0.003	95	263870	2.00	1.98	
46 Tetrahydrofuran	42	8.981	8.991	-0.008	96	91470	2.00	1.78	
47 1,1,1-Trichloroethane	97	9.579	9.581	0.000	96	358301	2.00	2.04	
48 1,2-Dichloroethane	62	9.692	9.691	0.001	97	220697	2.00	2.00	
49 n-Butanol	31	10.160	10.167	-0.006	89	47020	2.00	2.37	
50 Cyclohexane	69	10.186	10.185	0.001	80	78530	2.00	2.25	
51 Benzene	78	10.186	10.186	0.000	97	438756	2.00	1.93	
52 Carbon tetrachloride	117	10.208	10.210	-0.002	97	380033	2.00	2.17	
53 2,3-Dimethylpentane	71	10.316	10.314	0.003	90	95772	2.00	1.95	
54 Thiophene	84	10.466	10.464	0.002	97	265991	2.00	2.07	
55 Tert-amyl methyl ether	73	10.687	10.687	-0.001	97	235684	2.00	2.13	
56 Isooctane	57	10.966	10.965	0.001	99	766599	2.00	1.96	
57 n-Heptane	71	11.354	11.354	0.001	94	147393	2.00	1.95	
58 1,2-Dichloropropane	63	11.429	11.430	-0.001	91	149196	2.00	1.80	
59 Trichloroethene	130	11.467	11.466	0.001	97	258610	2.00	2.11	
60 Dibromomethane	93	11.547	11.550	-0.002	96	190066	2.00	2.02	
62 Dichlorobromomethane	83	11.698	11.700	-0.001	99	317493	2.00	2.02	
61 1,4-Dioxane	88	11.730	11.736	-0.005	91	41774	2.00	2.15	
63 Methyl methacrylate	41	11.811	11.811	0.000	92	97897	2.00	1.86	
64 Methylcyclohexane	83	12.247	12.246	0.001	95	280636	2.00	1.66	
65 4-Methyl-2-pentanone (MIBK)	43	12.672	12.672	0.000	96	205822	2.00	2.12	
66 cis-1,3-Dichloropropene	75	12.715	12.717	-0.002	95	250628	2.00	2.03	
67 trans-1,3-Dichloropropene	75	13.420	13.419	-0.001	99	203011	2.00	1.91	
68 Toluene	91	13.543	13.539	0.001	94	399449	2.00	1.76	
69 1,1,2-Trichloroethane	83	13.619	13.623	-0.002	99	132163	2.00	1.87	
70 2-Methylthiophene	97	13.694	13.693	-0.001	98	403736	2.00	1.98	
71 3-Methylthiophene	97	13.898	13.895	0.001	99	407471	2.00	2.04	
72 2-Hexanone	58	14.017	14.018	-0.003	93	106213	2.00	2.27	
73 n-Octane	85	14.243	14.242	-0.001	95	155618	2.00	2.00	
74 Chlorodibromomethane	129	14.323	14.322	-0.002	98	319586	2.00	2.15	
75 Ethylene Dibromide	107	14.614	14.614	-0.002	98	262023	2.00	2.00	
76 Tetrachloroethene	129	14.694	14.688	0.004	95	187106	2.00	1.99	
78 Chlorobenzene	112	15.571	15.571	-0.002	94	381931	2.00	1.97	
77 2,3-Dimethylheptane	43	15.598	15.599	-0.003	96	492363	2.00	2.05	
79 Ethylbenzene	91	15.867	15.863	0.001	99	420165	2.00	1.64	
80 2-Ethylthiophene	97	15.969	15.965	0.002	98	356523	2.00	1.70	
81 m-Xylene & p-Xylene	91	16.029	16.026	0.000	99	618421	4.00	3.34	
82 n-Nonane	57	16.454	16.453	-0.002	94	336473	2.00	2.04	
83 Bromoform	173	16.475	16.471	0.001	97	317094	2.00	2.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	16.491	16.492	-0.003	98	242297	2.00	1.75	
85 o-Xylene	91	16.556	16.552	0.001	99	311550	2.00	1.65	
86 1,1,2,2-Tetrachloroethane	83	16.879	16.877	-0.001	99	237919	2.00	1.85	
87 1,2,3-Trichloropropane	110	17.040	17.036	0.001	98	57453	2.00	1.81	
88 Isopropylbenzene	105	17.142	17.140	-0.001	97	409873	2.00	1.70	
89 N-Propylbenzene	120	17.691	17.687	0.001	99	115459	2.00	1.86	
90 2-Chlorotoluene	126	17.734	17.730	0.001	97	138120	2.00	1.80	
91 4-Ethyltoluene	105	17.841	17.842	-0.004	98	373488	2.00	1.77	
92 1,3,5-Trimethylbenzene	120	17.922	17.917	0.002	93	188816	2.00	1.91	
93 Alpha Methyl Styrene	118	18.153	18.151	-0.001	89	166072	2.00	1.96	
94 n-Decane	57	18.218	18.215	0.000	89	341929	2.00	1.87	
95 tert-Butylbenzene	119	18.347	18.346	-0.002	91	357218	2.00	1.90	
96 1,2,4-Trimethylbenzene	105	18.363	18.361	-0.001	96	333097	2.00	1.96	
97 sec-Butylbenzene	105	18.621	18.620	-0.002	99	495269	2.00	1.92	
98 1,3-Dichlorobenzene	146	18.632	18.633	-0.004	98	299638	2.00	1.84	
99 Benzyl chloride	91	18.713	18.709	0.001	98	276420	2.00	2.07	
100 1,4-Dichlorobenzene	146	18.724	18.721	0.000	98	282541	2.00	1.80	
101 4-Isopropyltoluene	119	18.788	18.785	0.000	97	405896	2.00	1.99	
102 1,2,3-Trimethylbenzene	105	18.837	18.836	-0.002	98	269633	2.00	2.09	
103 Butylcyclohexane	83	18.896	18.894	-0.001	92	402782	2.00	1.85	
105 1,2-Dichlorobenzene	146	19.084	19.084	-0.003	89	260846	2.00	1.78	
104 2,3-Dihydroindene	117	19.089	19.084	0.002	93	299026	2.00	1.76	
107 Indene	116	19.219	19.216	0.000	91	281661	2.00	2.43	
106 n-Butylbenzene	91	19.224	19.223	-0.003	98	401298	2.00	1.99	
108 Undecane	57	19.547	19.543	0.001	96	314574	2.00	1.94	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.601	19.599	-0.001	98	373287	2.00	2.55	
110 1,2-Dibromo-3-Chloropropan	157	19.697	19.694	-0.001	97	81297	2.00	1.82	
111 1,2,4,5-Tetramethylbenzene	119	19.988	19.986	-0.001	97	385620	2.00	2.29	
112 1,2,3,5-Tetramethylbenzene	119	20.042	20.041	-0.002	95	246316	2.00	2.30	
113 1,2,3,4-Tetramethylbenzene	119	20.440	20.437	0.000	97	314630	2.00	2.27	
114 Dodecane	57	20.606	20.604	-0.001	95	308504	2.00	2.25	
115 1,2,4-Trichlorobenzene	180	20.795	20.793	-0.001	93	164083	2.00	2.06	
116 Naphthalene	128	20.935	20.933	-0.002	99	328118	2.00	2.22	
117 Benzo(b)thiophene	134	21.042	21.039	0.000	99	163568	2.00	2.19	
118 Hexachlorobutadiene	225	21.155	21.154	-0.002	95	257857	2.00	1.83	
119 1,2,3-Trichlorobenzene	180	21.225	21.224	-0.002	94	161992	2.00	2.14	
120 2-Methylnaphthalene	142	21.919	21.917	-0.002	99	45233	6.25	4.55	
121 1-Methylnaphthalene	142	22.048	22.045	-0.001	99	43441	6.25	3.99	
A 124 Toluene Range	1	13.546	(13.516-13.576)		0	990364	2.00	1.80	
A 125 C8 Range	1	14.239	(14.202-14.276)		0	1501727	2.00	2.07	
S 126 Xylenes, Total	100				0		6.00	4.98	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.15	

Reagents:

40CV101S_00035

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JLCSC24.D

Injection Date: 24-Mar-2017 23:36:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: ICV

Worklist Smp#: 18

Client ID:

Purge Vol: 500.000 mL

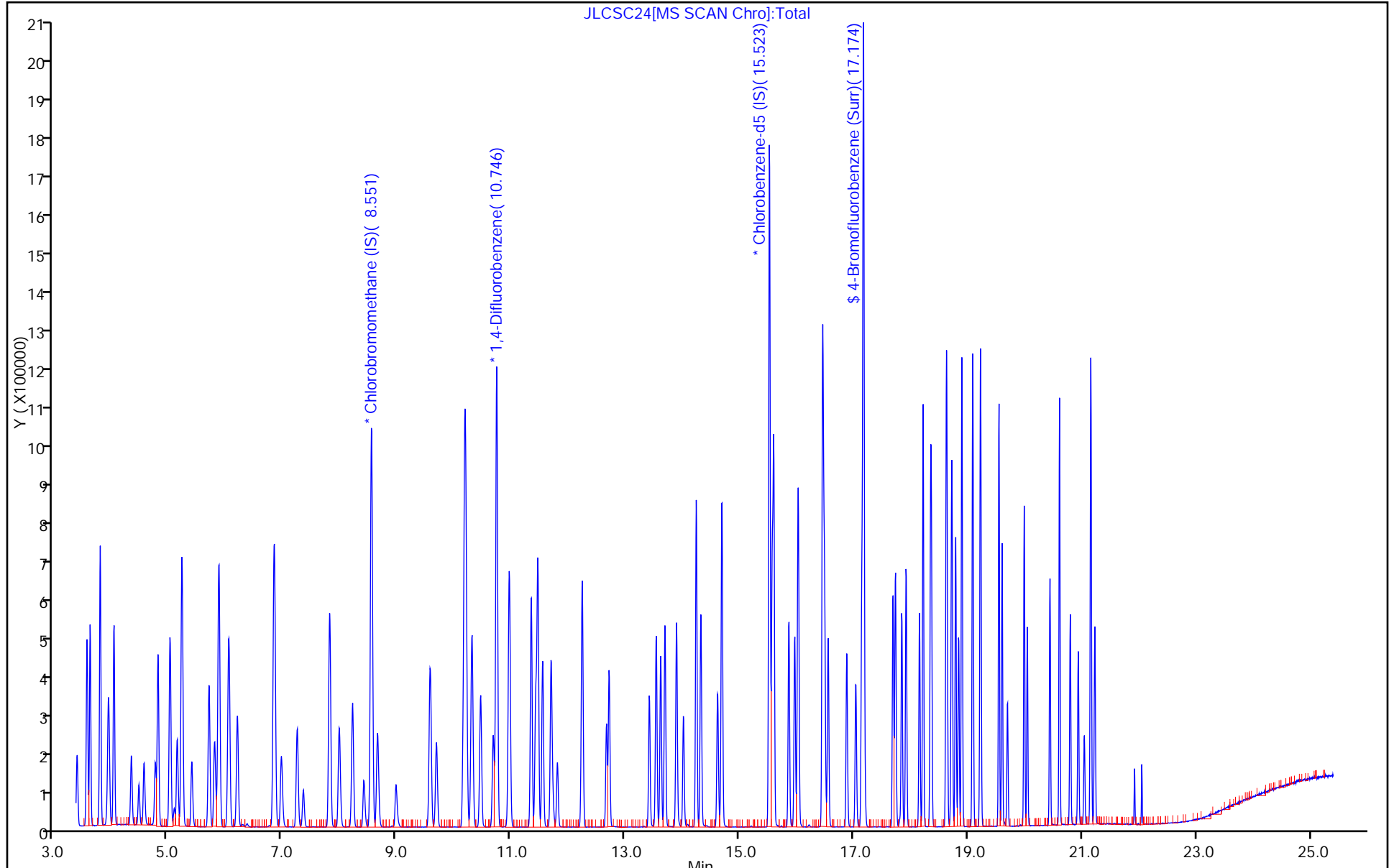
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-9850/2 Calibration Date: 03/26/2017 11:22
 Instrument ID: MJ Calib Start Date: 03/24/2017 11:31
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/24/2017 17:35
 Lab File ID: JCCVC26.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	0.3358	0.3844		2.29	2.00	14.4	30.0
Propene	Ave	1.187	1.242		2.09	2.00	4.7	30.0
Dichlorodifluoromethane	Ave	3.428	3.752		2.19	2.00	9.4	30.0
Chloromethane	Ave	0.3760	0.3607		1.92	2.00	-4.1	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.519	1.942		2.56	2.00	27.9	30.0
Acetaldehyde	Ave	0.3601	0.2626		7.30	10.0	-27.1	30.0
Vinyl chloride	Ave	1.106	1.123		2.03	2.00	1.6	30.0
1,3-Butadiene	Ave	0.8287	0.8338		2.01	2.00	0.6	30.0
Butane	Ave	1.667	1.683		2.02	2.00	1.0	30.0
Bromomethane	Ave	1.032	1.010		1.96	2.00	-2.1	30.0
Chloroethane	Ave	0.4554	0.4759		2.09	2.00	4.5	30.0
Ethanol	Ave	0.2358	0.2108		8.94	10.0	-10.6	30.0
Vinyl bromide	Ave	0.8970	0.9494		2.12	2.00	5.8	30.0
2-Methylbutane	Ave	1.492	1.589		2.13	2.00	6.5	30.0
Trichlorofluoromethane	Ave	3.148	3.537		2.25	2.00	12.3	30.0
Acrolein	Ave	0.2731	0.0416			2.00	-84.8*	30.0
Acetonitrile	Ave	0.3455	0.2814		1.63	2.00	-18.6	30.0
Acetone	Ave	0.3357	0.2665		4.67	5.88	-20.6	30.0
Isopropyl alcohol	Ave	1.375	1.350		5.77	5.88	-1.8	30.0
Pentane	Ave	0.1787	0.2044		2.29	2.00	14.4	30.0
Ethyl ether	Ave	1.059	0.9125		1.72	2.00	-13.9	30.0
1,1-Dichloroethene	Ave	1.205	1.311		2.18	2.00	8.8	30.0
t-Butyl alcohol	Ave	1.483	1.529		2.06	2.00	3.1	30.0
Acrylonitrile	Ave	0.5968	0.4674		1.57	2.00	-21.7	30.0
1,1,2-Trichlorotrifluoroethane	Ave	2.546	2.802		2.20	2.00	10.0	30.0
Methylene Chloride	Ave	1.236	1.238		2.00	2.00	0.1	30.0
3-Chloropropene	Ave	1.210	1.496		2.47	2.00	23.6	30.0
Carbon disulfide	Ave	3.498	3.858		2.21	2.00	10.3	30.0
trans-1,2-Dichloroethene	Ave	1.224	1.321		2.16	2.00	7.9	30.0
2-Methylpentane	Ave	2.848	3.096		2.18	2.00	8.7	30.0
Methyl tert-butyl ether	Ave	1.832	1.625		1.78	2.00	-11.3	30.0
1,1-Dichloroethane	Ave	2.394	2.459		2.06	2.00	2.7	30.0
Vinyl acetate	Ave	1.952	1.485		1.52	2.00	-23.9	30.0
2-Butanone	Ave	0.2943	0.2405		1.64	2.00	-18.3	30.0
Hexane	Ave	1.050	1.125		2.14	2.00	7.1	30.0
Isopropyl ether	Ave	2.602	2.293		1.76	2.00	-11.9	30.0
cis-1,2-Dichloroethene	Ave	1.283	1.299		2.03	2.00	1.3	30.0
Ethyl acetate	Ave	1.399	1.222		1.75	2.00	-12.6	30.0
Chloroform	Ave	2.640	2.594		1.97	2.00	-1.7	30.0
Tert-butyl ethyl ether	Ave	2.079	1.868		1.80	2.00	-10.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-9850/2 Calibration Date: 03/26/2017 11:22
 Instrument ID: MJ Calib Start Date: 03/24/2017 11:31
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/24/2017 17:35
 Lab File ID: JCCVC26.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
Tetrahydrofuran	Ave	0.8005	0.6934		1.73	2.00	-13.4	30.0
1,1,1-Trichloroethane	Ave	2.745	2.858		2.08	2.00	4.1	30.0
1,2-Dichloroethane	Ave	0.3809	0.3860		2.03	2.00	1.3	30.0
1-Butanol	Ave	0.0685	0.0709		2.07	2.00	3.5	30.0
Benzene	Ave	0.7840	0.7393		1.89	2.00	-5.7	30.0
Cyclohexane	Ave	0.1208	0.1337		2.22	2.00	10.7	30.0
Carbon tetrachloride	Ave	0.6048	0.6598		2.18	2.00	9.1	30.0
2,3-Dimethylpentane	Ave	0.1698	0.1759		2.07	2.00	3.6	30.0
Thiophene	Ave	0.4449	0.4318		1.94	2.00	-2.9	30.0
Tert-amyl methyl ether	Ave	0.4115	0.3924		1.91	2.00	-4.6	30.0
2,2,4-Trimethylpentane	Ave	1.354	1.315		1.94	2.00	-2.9	30.0
Heptane	Ave	0.2609	0.2554		1.96	2.00	-2.1	30.0
1,2-Dichloropropane	Ave	0.2863	0.2605		1.82	2.00	-9.0	30.0
Trichloroethene	Ave	0.4235	0.4381		2.07	2.00	3.4	30.0
Dibromomethane	Ave	0.3258	0.3223		1.98	2.00	-1.1	30.0
Bromodichloromethane	Ave	0.5424	0.5470		2.02	2.00	0.9	30.0
1,4-Dioxane	Ave	0.0672	0.0619		1.84	2.00	-7.8	30.0
Methyl methacrylate	Ave	0.1818	0.1534		1.69	2.00	-15.6	30.0
Methylcyclohexane	Ave	0.5859	0.5917		2.02	2.00	1.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3358	0.3101		1.85	2.00	-7.7	30.0
cis-1,3-Dichloropropene	Ave	0.4271	0.4147		1.94	2.00	-2.9	30.0
trans-1,3-Dichloropropene	Ave	0.3971	0.3545		1.79	2.00	-10.7	30.0
Toluene	Ave	0.8458	0.7374		1.74	2.00	-12.8	30.0
1,1,2-Trichloroethane	Ave	0.2639	0.2386		1.81	2.00	-9.6	30.0
2-Methylthiophene	Ave	0.7600	0.6999		1.84	2.00	-7.9	30.0
3-Methylthiophene	Ave	0.7442	0.6829		1.84	2.00	-8.2	30.0
2-Hexanone	Ave	0.1745	0.1700		1.95	2.00	-2.6	30.0
Octane	Ave	0.2900	0.2855		1.97	2.00	-1.6	30.0
Dibromochloromethane	Ave	0.5530	0.5595		2.02	2.00	1.2	30.0
1,2-Dibromoethane	Ave	0.4876	0.4667		1.92	2.00	-4.3	30.0
Tetrachloroethene	Ave	0.3511	0.3460		1.97	2.00	-1.5	30.0
Chlorobenzene	Ave	0.7227	0.6730		1.86	2.00	-6.9	30.0
2,3-Dimethylheptane	Ave	0.8964	0.9003		2.01	2.00	0.4	30.0
Ethylbenzene	Ave	0.9550	0.7710		1.62	2.00	-19.3	30.0
2-Ethylthiophene	Ave	0.7816	0.6600		1.69	2.00	-15.6	30.0
m-Xylene & p-Xylene	Ave	0.6909	0.5610		3.25	4.00	-18.8	30.0
Nonane	Ave	0.6159	0.6282		2.04	2.00	2.0	30.0
Bromoform	Ave	0.5555	0.4997		1.80	2.00	-10.0	30.0
Styrene	Ave	0.5162	0.4256		1.65	2.00	-17.5	30.0
o-Xylene	Ave	0.7045	0.5652		1.61	2.00	-19.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4787	0.4104		1.72	2.00	-14.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-9850/2 Calibration Date: 03/26/2017 11:22
 Instrument ID: MJ Calib Start Date: 03/24/2017 11:31
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 03/24/2017 17:35
 Lab File ID: JCCVC26.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
1,2,3-Trichloropropane	Ave	0.1184	0.1024		1.73	2.00	-13.5	30.0
Isopropylbenzene	Ave	0.8969	0.7270		1.62	2.00	-19.0	30.0
Propylbenzene	Ave	0.2311	0.1944		1.68	2.00	-15.9	30.0
2-Chlorotoluene	Ave	0.2859	0.2384		1.67	2.00	-16.6	30.0
4-Ethyltoluene	Ave	0.7855	0.6629		1.69	2.00	-15.6	30.0
1,3,5-Trimethylbenzene	Ave	0.3678	0.3102		1.69	2.00	-15.7	30.0
Alpha Methyl Styrene	Ave	0.3164	0.2675		1.69	2.00	-15.5	30.0
Decane	Ave	0.6827	0.6113		1.79	2.00	-10.5	30.0
tert-Butylbenzene	Ave	0.7007	0.5905		1.69	2.00	-15.7	30.0
1,2,4-Trimethylbenzene	Ave	0.6325	0.5447		1.72	2.00	-13.9	30.0
sec-Butylbenzene	Ave	0.9599	0.8256		1.72	2.00	-14.0	30.0
1,3-Dichlorobenzene	Ave	0.6064	0.5166		1.71	2.00	-14.8	30.0
Benzyl chloride	Ave	0.4970	0.4047		1.63	2.00	-18.6	30.0
1,4-Dichlorobenzene	Ave	0.5863	0.4829		1.65	2.00	-17.6	30.0
4-Isopropyltoluene	Ave	0.7599	0.6632		1.75	2.00	-12.7	30.0
1,2,3-Trimethylbenzene	Ave	0.4800	0.4091		1.71	2.00	-14.8	30.0
Butylcyclohexane	Ave	0.8128	0.7429		1.83	2.00	-8.6	30.0
1,2-Dichlorobenzene	Ave	0.5458	0.4562		1.67	2.00	-16.4	30.0
Indane	Ave	0.6332	0.5437		1.72	2.00	-14.1	30.0
Indene	Ave	0.4315	0.3642		1.69	2.00	-15.6	30.0
Butylbenzene	Ave	0.7501	0.6446		1.72	2.00	-14.1	30.0
Undecane	Ave	0.6033	0.5620		1.86	2.00	-6.9	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.5459	0.4767		1.75	2.00	-12.7	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1668	0.1173		1.41	2.00	-29.7	30.0
1,2,4,5-Tetramethylbenzene	Ave	0.6287	0.5666		1.80	2.00	-9.9	30.0
1,2,3,5-Tetramethylbenzene	Ave	0.3993	0.3478		1.74	2.00	-12.9	30.0
1,2,3,4-Tetramethylbenzene	Ave	0.5177	0.4520		1.75	2.00	-12.7	30.0
Dodecane	Ave	0.5120	0.4846		1.89	2.00	-5.4	30.0
1,2,4-Trichlorobenzene	Ave	0.2975	0.2386		1.60	2.00	-19.8	30.0
Naphthalene	Ave	0.5520	0.4566		1.66	2.00	-17.3	30.0
Benzo (b) thiophene	Ave	0.2783	0.2076		1.49	2.00	-25.4	30.0
Hexachlorobutadiene	Ave	0.5245	0.4449		1.70	2.00	-15.2	30.0
1,2,3-Trichlorobenzene	Ave	0.2818	0.2218		1.58	2.00	-21.3	30.0
2-Methylnaphthalene	Ave	0.0371	0.0298		4.87	6.06	-19.6	50.0
1-Methylnaphthalene	Ave	0.0406	0.0313		4.67	6.06	-22.9	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6982	0.7051		4.04	4.00	1.0	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JCCVC26.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 26-Mar-2017 11:22:30 ALS Bottle#: 15 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-002
 Misc. Info.: S35
 Operator ID: 403648 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 27-Mar-2017 13:18:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.547	8.547	0.000	97	232350	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.748	10.748	0.000	95	1065412	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.524	15.524	0.000	88	987172	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.171	17.171	0.000	94	696010	4.00	4.04	
6 Chlorodifluoromethane	67	3.566	3.566	0.000	97	44685	2.00	2.29	
7 Propene	41	3.577	3.577	0.000	99	144389	2.00	2.09	
8 Dichlorodifluoromethane	85	3.625	3.625	0.000	100	436217	2.00	2.19	
9 Chloromethane	52	3.797	3.797	0.000	98	41938	2.00	1.92	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.803	3.803	0.000	92	225834	2.00	2.56	
11 Acetaldehyde	44	3.942	3.942	0.000	97	152635	10.0	7.30	
12 Vinyl chloride	62	3.959	3.959	0.000	99	130615	2.00	2.03	
14 Butadiene	54	4.039	4.039	0.000	68	96939	2.00	2.01	
13 Butane	43	4.039	4.039	0.000	85	195640	2.00	2.02	
15 Bromomethane	94	4.346	4.346	0.000	98	117446	2.00	1.96	
16 Chloroethane	64	4.475	4.475	0.000	93	55323	2.00	2.09	
17 Ethanol	31	4.566	4.566	0.000	97	122513	10.0	8.94	
18 Vinyl bromide	106	4.766	4.766	0.000	98	110381	2.00	2.12	
19 2-Methylbutane	43	4.814	4.814	0.000	93	184750	2.00	2.13	
20 Trichlorofluoromethane	101	5.024	5.024	0.000	100	411163	2.00	2.25	
21 Acrolein	56	5.029	5.029	0.000	26	4833	2.00	0.3047	
22 Acetonitrile	40	5.099	5.099	0.000	99	32715	2.00	1.63	
23 Acetone	58	5.147	5.147	0.000	98	90966	5.88	4.67	
24 Isopropyl alcohol	45	5.223	5.223	0.000	96	460975	5.88	5.77	
25 Pentane	72	5.234	5.234	0.000	97	23768	2.00	2.29	
26 Ethyl ether	31	5.406	5.406	0.000	93	106089	2.00	1.72	
27 1,1-Dichloroethene	96	5.707	5.707	0.000	95	152384	2.00	2.18	
28 2-Methyl-2-propanol	59	5.804	5.804	0.000	95	177818	2.00	2.06	
29 Acrylonitrile	53	5.809	5.809	0.000	96	54341	2.00	1.57	
30 1,1,2-Trichloro-1,2,2-trif	101	5.879	5.879	0.000	97	325765	2.00	2.20	
31 Methylene Chloride	84	6.046	6.046	0.000	98	143907	2.00	2.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
32 3-Chloro-1-propene	39	6.062	6.062	0.000	95	173919	2.00	2.47	
33 Carbon disulfide	76	6.202	6.202	0.000	99	448509	2.00	2.21	
34 trans-1,2-Dichloroethene	96	6.837	6.837	0.000	97	153573	2.00	2.16	
35 2-Methylpentane	43	6.858	6.858	0.000	96	359913	2.00	2.18	
36 Methyl tert-butyl ether	73	6.976	6.976	0.000	97	188977	2.00	1.78	
37 1,1-Dichloroethane	63	7.251	7.251	0.000	100	285832	2.00	2.06	
38 Vinyl acetate	43	7.358	7.358	0.000	100	172636	2.00	1.52	
39 2-Butanone (MEK)	72	7.810	7.810	0.000	94	27956	2.00	1.64	
40 Hexane	56	7.821	7.821	0.000	90	130793	2.00	2.14	
41 Isopropyl ether	45	7.988	7.988	0.000	97	266562	2.00	1.76	
42 cis-1,2-Dichloroethene	96	8.225	8.225	0.000	96	151021	2.00	2.03	
43 Ethyl acetate	43	8.418	8.418	0.000	98	142107	2.00	1.75	
44 Chloroform	83	8.563	8.563	0.000	98	301542	2.00	1.97	
45 Tert-butyl ethyl ether	59	8.660	8.660	0.000	96	217169	2.00	1.80	
46 Tetrahydrofuran	42	8.983	8.983	0.000	95	80615	2.00	1.73	
47 1,1,1-Trichloroethane	97	9.580	9.580	0.000	96	332221	2.00	2.08	
48 1,2-Dichloroethane	62	9.693	9.693	0.000	97	205752	2.00	2.03	
49 n-Butanol	31	10.156	10.156	0.000	91	37775	2.00	2.07	
50 Cyclohexane	69	10.188	10.188	0.000	78	71259	2.00	2.22	
51 Benzene	78	10.188	10.188	0.000	97	394106	2.00	1.89	
52 Carbon tetrachloride	117	10.210	10.210	0.000	97	351717	2.00	2.18	
53 2,3-Dimethylpentane	71	10.317	10.317	0.000	90	93788	2.00	2.07	
54 Thiophene	84	10.462	10.462	0.000	97	230203	2.00	1.94	
55 Tert-amyl methyl ether	73	10.688	10.688	0.000	96	193829	2.00	1.91	
56 Isooctane	57	10.968	10.968	0.000	98	701109	2.00	1.94	
57 n-Heptane	71	11.355	11.355	0.000	94	136131	2.00	1.96	
58 1,2-Dichloropropane	63	11.431	11.431	0.000	90	138874	2.00	1.82	
59 Trichloroethene	130	11.468	11.468	0.000	96	233534	2.00	2.07	
60 Dibromomethane	93	11.549	11.549	0.000	96	171799	2.00	1.98	
62 Dichlorobromomethane	83	11.700	11.700	0.000	99	291629	2.00	2.02	
61 1,4-Dioxane	88	11.732	11.732	0.000	94	32994	2.00	1.84	
63 Methyl methacrylate	41	11.813	11.813	0.000	91	81773	2.00	1.69	
64 Methylcyclohexane	83	12.243	12.243	0.000	94	315438	2.00	2.02	
65 4-Methyl-2-pentanone (MIBK)	43	12.668	12.668	0.000	97	165308	2.00	1.85	
66 cis-1,3-Dichloropropene	75	12.716	12.716	0.000	95	221087	2.00	1.94	
67 trans-1,3-Dichloropropene	75	13.421	13.421	0.000	99	175083	2.00	1.79	
68 Toluene	91	13.539	13.539	0.000	94	364253	2.00	1.74	
69 1,1,2-Trichloroethane	83	13.620	13.620	0.000	99	117853	2.00	1.81	
70 2-Methylthiophene	97	13.695	13.695	0.000	98	345698	2.00	1.84	
71 3-Methylthiophene	97	13.900	13.900	0.000	99	337328	2.00	1.84	
72 2-Hexanone	58	14.018	14.018	0.000	92	83991	2.00	1.95	
73 n-Octane	85	14.244	14.244	0.000	95	141010	2.00	1.97	
74 Chlorodibromomethane	129	14.325	14.325	0.000	98	276349	2.00	2.02	
75 Ethylene Dibromide	107	14.615	14.615	0.000	99	230531	2.00	1.92	
76 Tetrachloroethene	129	14.691	14.691	0.000	95	170900	2.00	1.97	
78 Chlorobenzene	112	15.573	15.573	0.000	94	332445	2.00	1.86	
77 2,3-Dimethylheptane	43	15.600	15.600	0.000	96	444727	2.00	2.01	
79 Ethylbenzene	91	15.863	15.863	0.000	99	380820	2.00	1.62	
80 2-Ethylthiophene	97	15.966	15.966	0.000	98	326002	2.00	1.69	
81 m-Xylene & p-Xylene	91	16.030	16.030	0.000	99	554199	4.00	3.25	
82 n-Nonane	57	16.455	16.455	0.000	94	310300	2.00	2.04	
83 Bromoform	173	16.471	16.471	0.000	97	246824	2.00	1.80	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
84 Styrene	104	16.493	16.493	0.000	99	210236	2.00	1.65	
85 o-Xylene	91	16.552	16.552	0.000	98	279180	2.00	1.61	
86 1,1,2,2-Tetrachloroethane	83	16.880	16.880	0.000	99	202712	2.00	1.72	
87 1,2,3-Trichloropropane	110	17.036	17.036	0.000	98	50567	2.00	1.73	
88 Isopropylbenzene	105	17.144	17.144	0.000	97	359083	2.00	1.62	
89 N-Propylbenzene	120	17.692	17.692	0.000	99	96010	2.00	1.68	
90 2-Chlorotoluene	126	17.730	17.730	0.000	97	117754	2.00	1.67	
91 4-Ethyltoluene	105	17.843	17.843	0.000	98	327450	2.00	1.69	
92 1,3,5-Trimethylbenzene	120	17.918	17.918	0.000	93	153233	2.00	1.69	
93 Alpha Methyl Styrene	118	18.155	18.155	0.000	88	132138	2.00	1.69	
94 n-Decane	57	18.220	18.220	0.000	89	301936	2.00	1.79	
95 tert-Butylbenzene	119	18.349	18.349	0.000	91	291675	2.00	1.69	
96 1,2,4-Trimethylbenzene	105	18.365	18.365	0.000	96	269049	2.00	1.72	
97 sec-Butylbenzene	105	18.623	18.623	0.000	98	407785	2.00	1.72	
98 1,3-Dichlorobenzene	146	18.634	18.634	0.000	98	255188	2.00	1.71	
99 Benzyl chloride	91	18.714	18.714	0.000	98	199926	2.00	1.63	
100 1,4-Dichlorobenzene	146	18.725	18.725	0.000	97	238534	2.00	1.65	
101 4-Isopropyltoluene	119	18.790	18.790	0.000	97	327609	2.00	1.75	
102 1,2,3-Trimethylbenzene	105	18.838	18.838	0.000	98	202094	2.00	1.71	
103 Butylcyclohexane	83	18.897	18.897	0.000	92	366974	2.00	1.83	
104 2,3-Dihydroindene	117	19.086	19.086	0.000	93	268584	2.00	1.72	
105 1,2-Dichlorobenzene	146	19.086	19.086	0.000	88	225329	2.00	1.67	
107 Indene	116	19.220	19.220	0.000	90	179895	2.00	1.69	
106 n-Butylbenzene	91	19.226	19.226	0.000	98	318421	2.00	1.72	
108 Undecane	57	19.543	19.543	0.000	96	277592	2.00	1.86	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.602	19.602	0.000	98	235475	2.00	1.75	
110 1,2-Dibromo-3-Chloropropan	157	19.699	19.699	0.000	97	57918	2.00	1.41	
111 1,2,4,5-Tetramethylbenzene	119	19.989	19.989	0.000	97	279867	2.00	1.80	
112 1,2,3,5-Tetramethylbenzene	119	20.043	20.043	0.000	95	171774	2.00	1.74	
113 1,2,3,4-Tetramethylbenzene	119	20.441	20.441	0.000	98	223277	2.00	1.75	
114 Dodecane	57	20.608	20.608	0.000	94	239374	2.00	1.89	
115 1,2,4-Trichlorobenzene	180	20.796	20.796	0.000	94	117833	2.00	1.60	
116 Naphthalene	128	20.936	20.936	0.000	99	225545	2.00	1.66	
117 Benzo(b)thiophene	134	21.044	21.044	0.000	99	102528	2.00	1.49	
118 Hexachlorobutadiene	225	21.157	21.157	0.000	94	219770	2.00	1.70	
119 1,2,3-Trichlorobenzene	180	21.227	21.227	0.000	94	109541	2.00	1.58	
120 2-Methylnaphthalene	142	21.921	21.921	0.000	99	44527	6.06	4.87	
121 1-Methylnaphthalene	142	22.050	22.050	0.000	99	46708	6.06	4.67	
A 124 Toluene Range	1	13.539	(13.509-13.569)		0	901110	2.00	1.78	
A 125 C8 Range	1	14.241	(14.200-14.297)		0	1386051	2.00	2.07	
S 126 Xylenes, Total	100				0		6.00	4.86	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.19	

Reagents:

40CV101P_00035

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JCCVC26.D

Injection Date: 26-Mar-2017 11:22:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

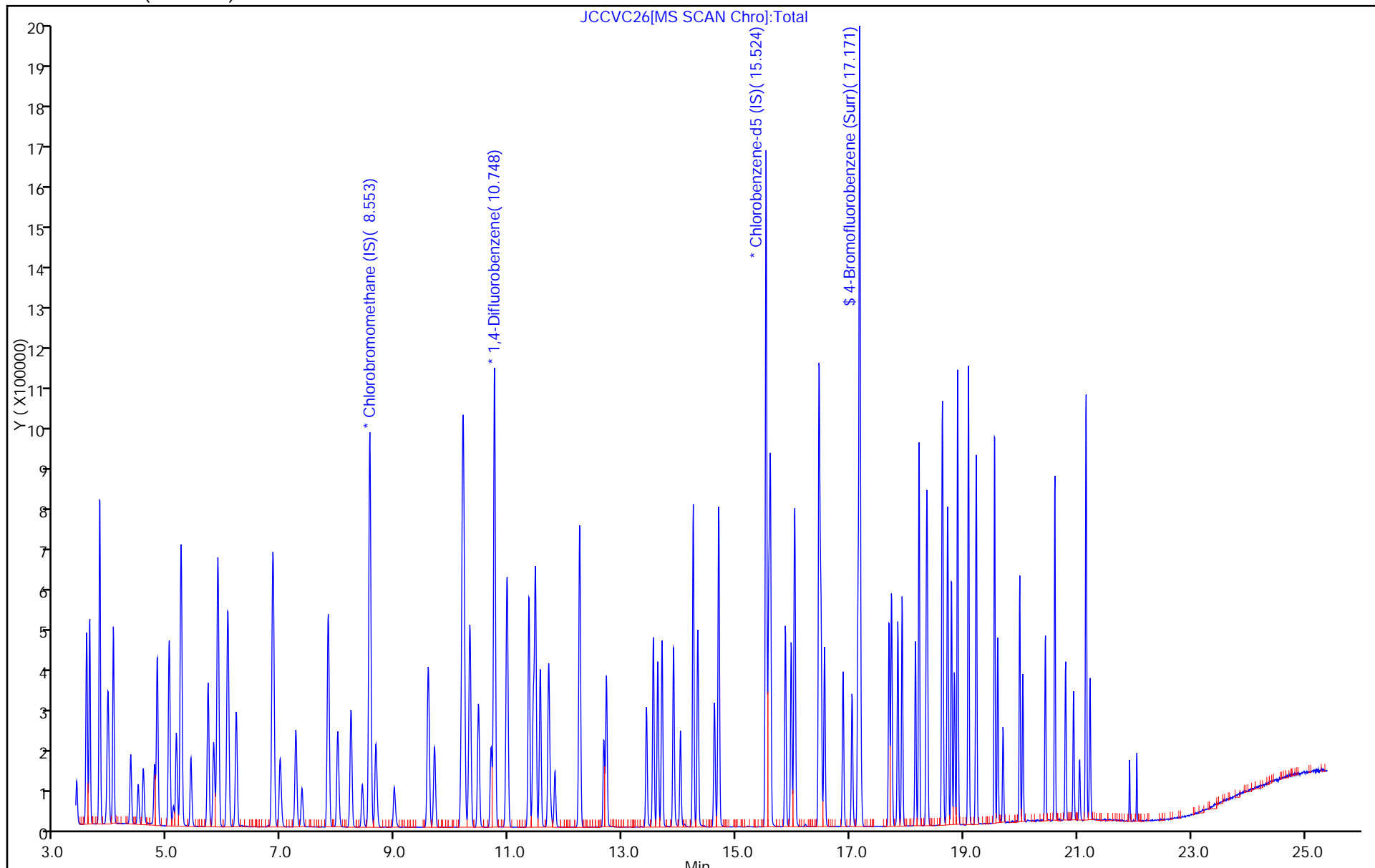
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GBFBC15.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 15-Mar-2017 14:04:30 ALS Bottle#: 16 Worklist Smp#: 1
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Sample Info: 140-0004323-001
 Misc. Info.: BFB
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 16-Mar-2017 12:19:31 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: tajh Date: 16-Mar-2017 12:19:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
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\$ 5 BFB	95	4.717	4.717	0.000	0	1116686	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

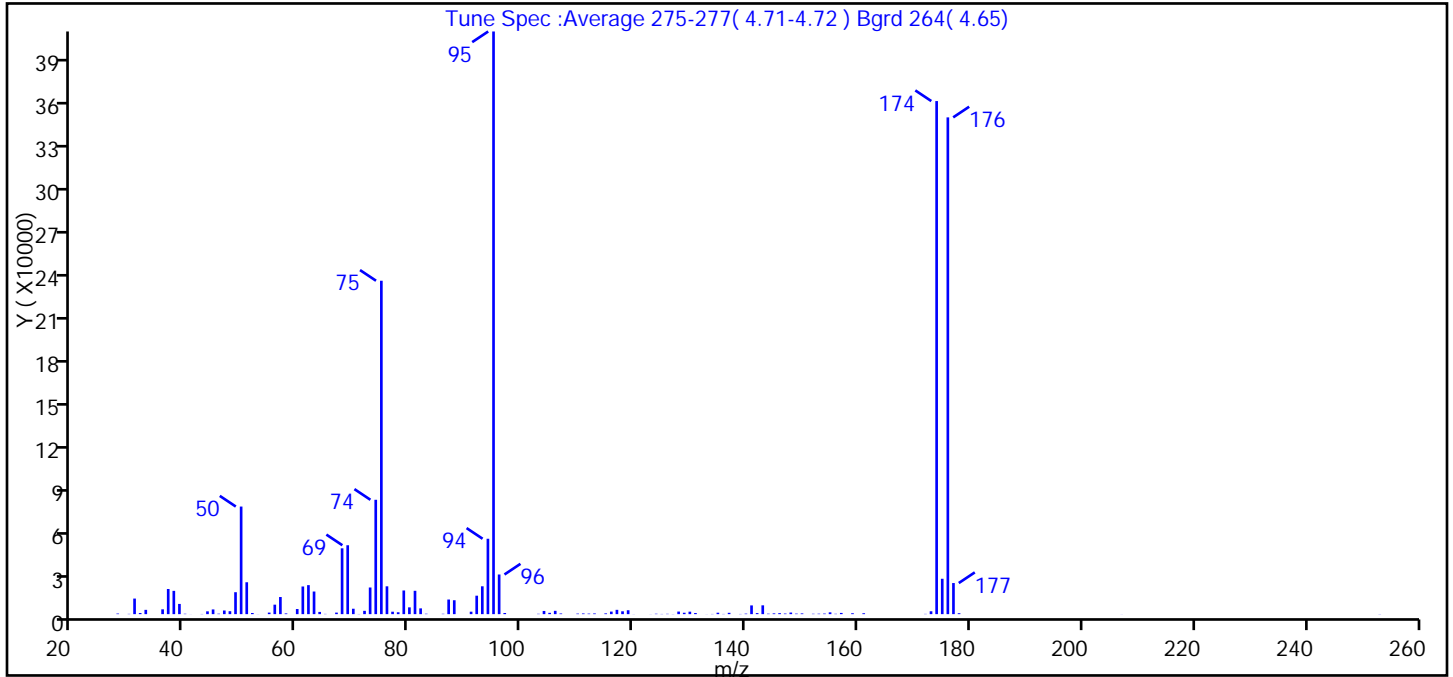
Reagents:

40MXSUR_00001 Amount Added: 40.00 Units: mL

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GBFBC15.D
 Injection Date: 15-Mar-2017 14:04:30 Instrument ID: MG
 Lims ID: BFB
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 1
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Method: MG_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.5
75	30 to 60% of m/z 95	57.2
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	88.1
175	5 to 9% of m/z 174	6.1 (6.9)
176	Greater than 95% but less than 101% of m/z 174	85.3 (96.8)
177	5 to 9% of m/z 176	5.3 (6.3)

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GBFBC15.D\MG_TO15.rslt\spectra.d
 Injection Date: 15-Mar-2017 14:04:30
 Spectrum: Tune Spec :Average 275-277(4.71-4.72) Bgrd 264(4.65)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 117

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	409	64.00	1536	104.00	2199	141.00	6035
30.00	188	65.00	166	105.00	907	142.00	723
31.00	10758	67.00	1069	106.00	2285	143.00	6088
32.00	766	68.00	45464	107.00	469	144.00	319
33.00	2961	69.00	47584	110.00	375	145.00	537
36.00	3330	70.00	3735	111.00	475	146.00	686
37.00	17360	71.00	120	112.00	373	147.00	417
38.00	16084	72.00	2290	113.00	485	148.00	1105
39.00	7056	73.00	18408	115.00	536	149.00	367
40.00	266	74.00	78984	116.00	1763	150.00	513
41.00	40	75.00	230272	117.00	2969	152.00	258
43.00	124	76.00	19224	118.00	1965	153.00	307
44.00	1942	77.00	1681	119.00	2695	154.00	401
45.00	3252	78.00	1293	120.00	60	155.00	1247
46.00	314	79.00	16348	123.00	52	156.00	242
47.00	2522	80.00	4690	124.00	273	157.00	846
48.00	2030	81.00	16127	125.00	134	159.00	624
49.00	15149	82.00	3989	126.00	226	161.00	624
50.00	74312	83.00	279	127.00	86	172.00	178
51.00	22024	86.00	248	128.00	1782	173.00	1987
52.00	791	87.00	10097	129.00	968	174.00	354368
53.00	50	88.00	9600	130.00	1708	175.00	24432
55.00	1070	91.00	1693	131.00	775	176.00	343104
56.00	6545	92.00	12747	133.00	52	177.00	21480
57.00	11828	93.00	19232	134.00	131	178.00	635
58.00	499	94.00	52072	135.00	989	207.00	46
60.00	3534	95.00	402432	136.00	138	253.00	102
61.00	19104	96.00	27384	137.00	918		
62.00	20032	97.00	791	139.00	127		
63.00	15625	103.00	237	140.00	350		

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GBFBC15.D

Injection Date: 15-Mar-2017 14:04:30

Instrument ID: MG

Operator ID: 7126

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 500.0 mL

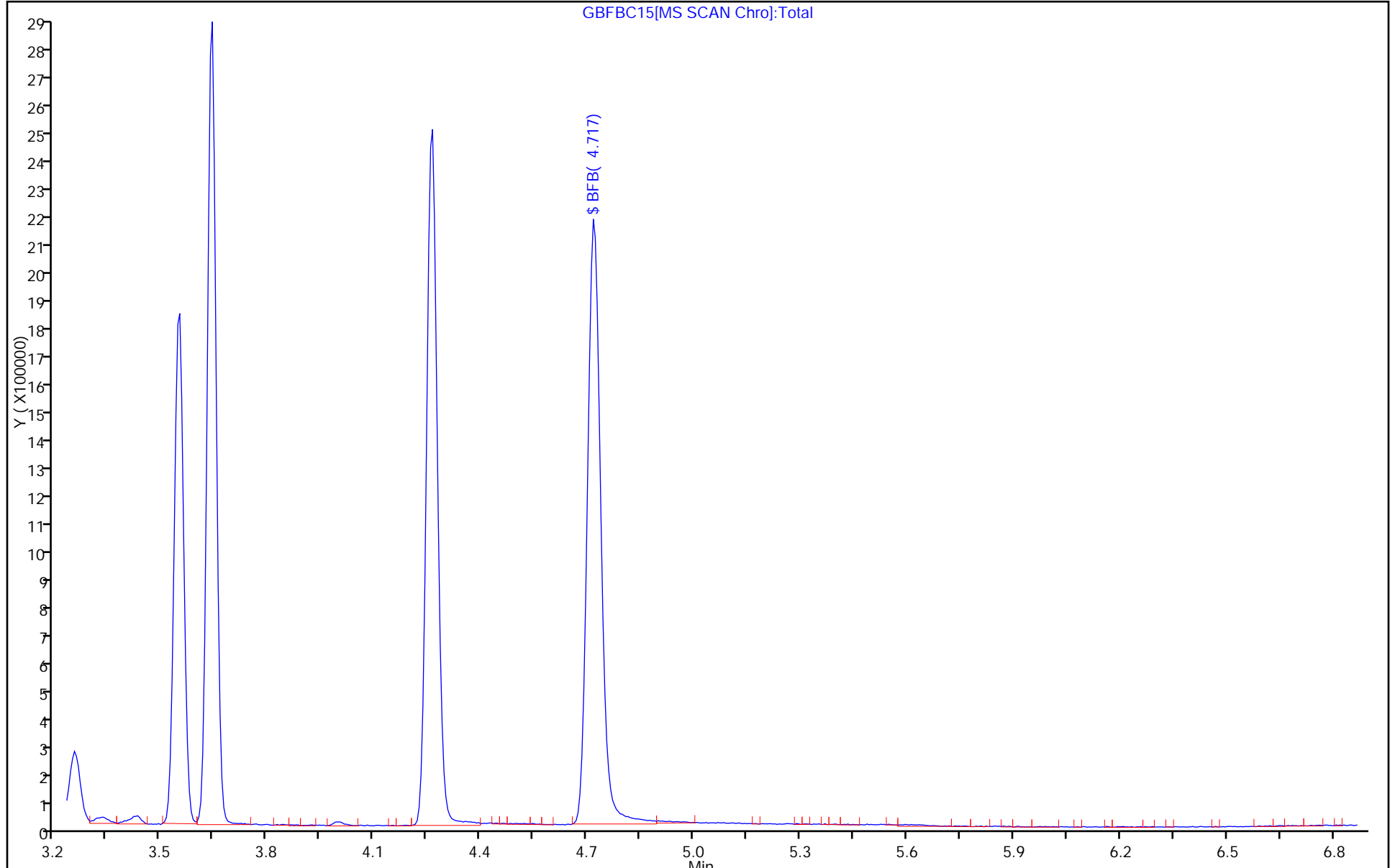
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GBFBC28A.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 28-Mar-2017 12:36:30 ALS Bottle#: 16 Worklist Smp#: 5
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-001
 Misc. Info.: BFB
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:50:28 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
\$ 5 BFB	95	4.750	4.750	0.000	0	1003561	NR	NR	

QC Flag Legend

Processing Flags
 NR - Missing Quant Standard

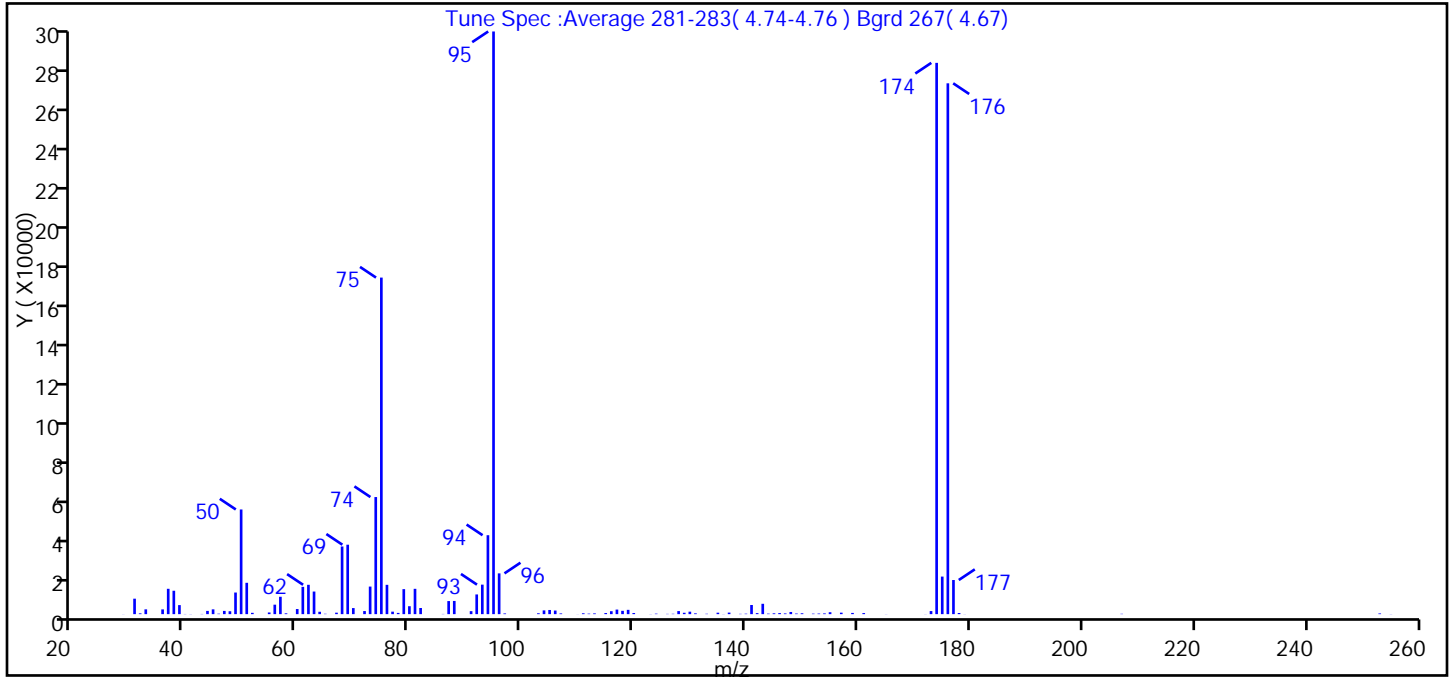
Reagents:

40MXSUR_00001 Amount Added: 40.00 Units: mL

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GBFBC28A.D
 Injection Date: 28-Mar-2017 12:36:30 Instrument ID: MG
 Lims ID: BFB
 Client ID:
 Operator ID: 7126 ALS Bottle#: 16 Worklist Smp#: 5
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Method: MG_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.0
75	30 to 60% of m/z 95	57.8
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	94.6
175	5 to 9% of m/z 174	6.4 (6.8)
176	Greater than 95% but less than 101% of m/z 174	91.1 (96.3)
177	5 to 9% of m/z 176	5.9 (6.4)

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GBFBC28A.D\MG_TO15.rsl\spectra.d
Injection Date: 28-Mar-2017 12:36:30
Spectrum: Tune Spec :Average 281-283(4.74-4.76) Bgrd 267(4.67)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	42	65.00	182	106.00	1808	144.00	257
31.00	7787	67.00	740	107.00	367	145.00	420
32.00	396	68.00	34080	110.00	38	146.00	536
33.00	2418	69.00	34976	111.00	431	147.00	364
36.00	2395	70.00	3052	112.00	258	148.00	1088
37.00	12768	72.00	1556	113.00	381	149.00	305
38.00	11786	73.00	13890	115.00	560	150.00	441
39.00	4551	74.00	58984	116.00	1483	152.00	251
40.00	84	75.00	169536	117.00	2299	153.00	304
41.00	66	76.00	14765	118.00	1672	154.00	375
43.00	96	77.00	1252	119.00	2164	155.00	967
44.00	1626	78.00	622	120.00	564	157.00	749
45.00	2415	79.00	12594	123.00	61	159.00	613
46.00	234	80.00	3998	124.00	246	161.00	537
47.00	1629	81.00	12758	126.00	138	165.00	52
48.00	1461	82.00	3097	127.00	183	172.00	50
49.00	10888	86.00	103	128.00	1543	173.00	1549
50.00	52728	87.00	6587	129.00	692	174.00	277696
51.00	15786	88.00	6643	130.00	1245	175.00	18920
52.00	663	91.00	1505	131.00	407	176.00	267392
55.00	843	92.00	9925	133.00	186	177.00	17192
56.00	4768	93.00	14862	135.00	728	178.00	576
57.00	8751	94.00	39760	136.00	57	179.00	50
58.00	413	95.00	293504	137.00	780	207.00	171
60.00	2573	96.00	20536	139.00	149	253.00	357
61.00	13749	97.00	356	140.00	228	255.00	62
62.00	14783	103.00	439	141.00	4607		
63.00	11383	104.00	1890	142.00	514		
64.00	1197	105.00	2097	143.00	5213		

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GBFBC28A.D

Injection Date: 28-Mar-2017 12:36:30

Instrument ID: MG

Operator ID: 7126

Lims ID: BFB

Worklist Smp#: 5

Client ID:

Injection Vol: 500.0 mL

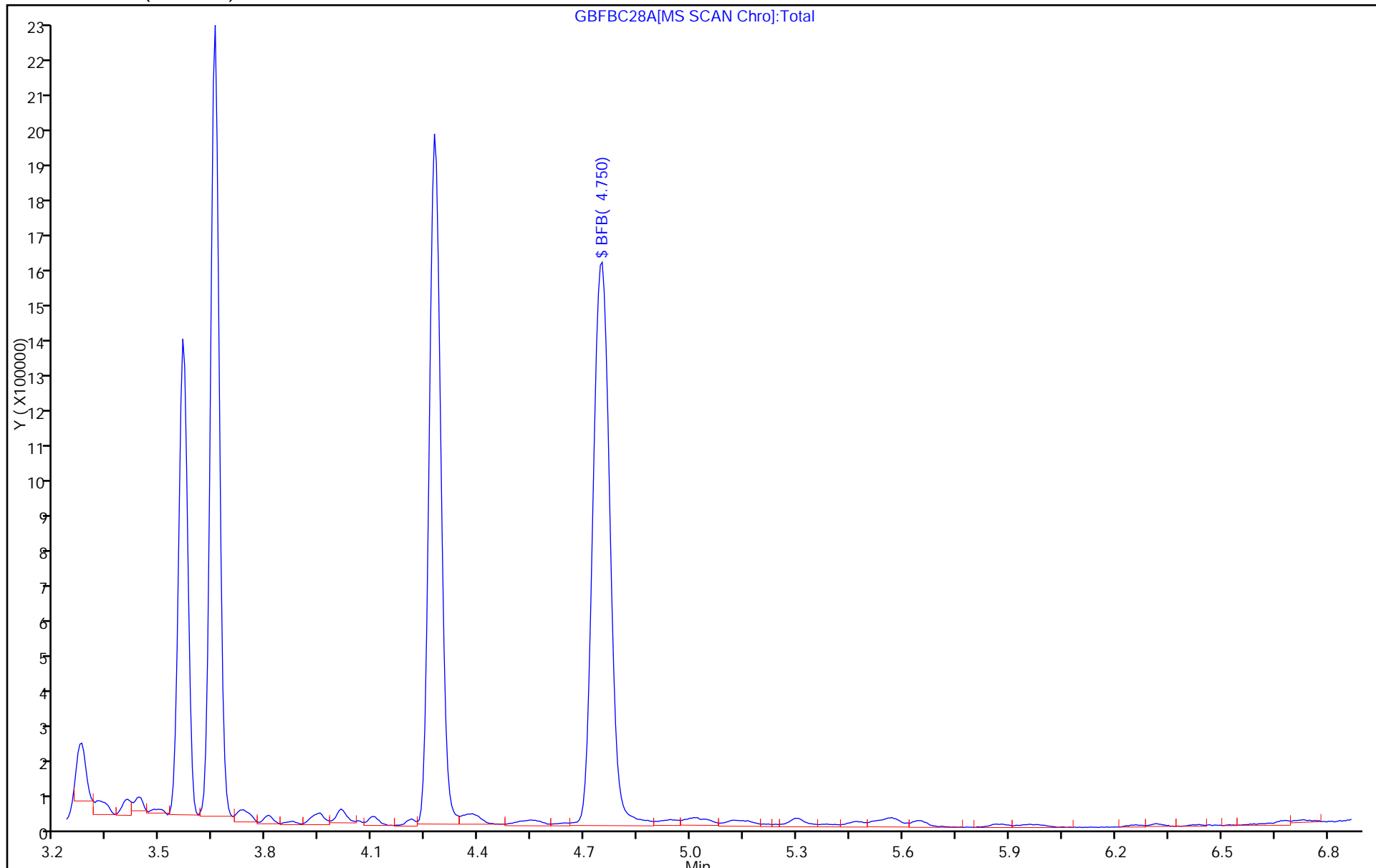
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JBFBC24.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 24-Mar-2017 11:04:30 ALS Bottle#: 16 Worklist Smp#: 1
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Sample Info: 140-0004355-001
 Misc. Info.: BFB
 Operator ID: 007126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 11:47:46 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa Date: 25-Mar-2017 14:57:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
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\$ 5 BFB	95	3.641	3.641	0.000	0	302297	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

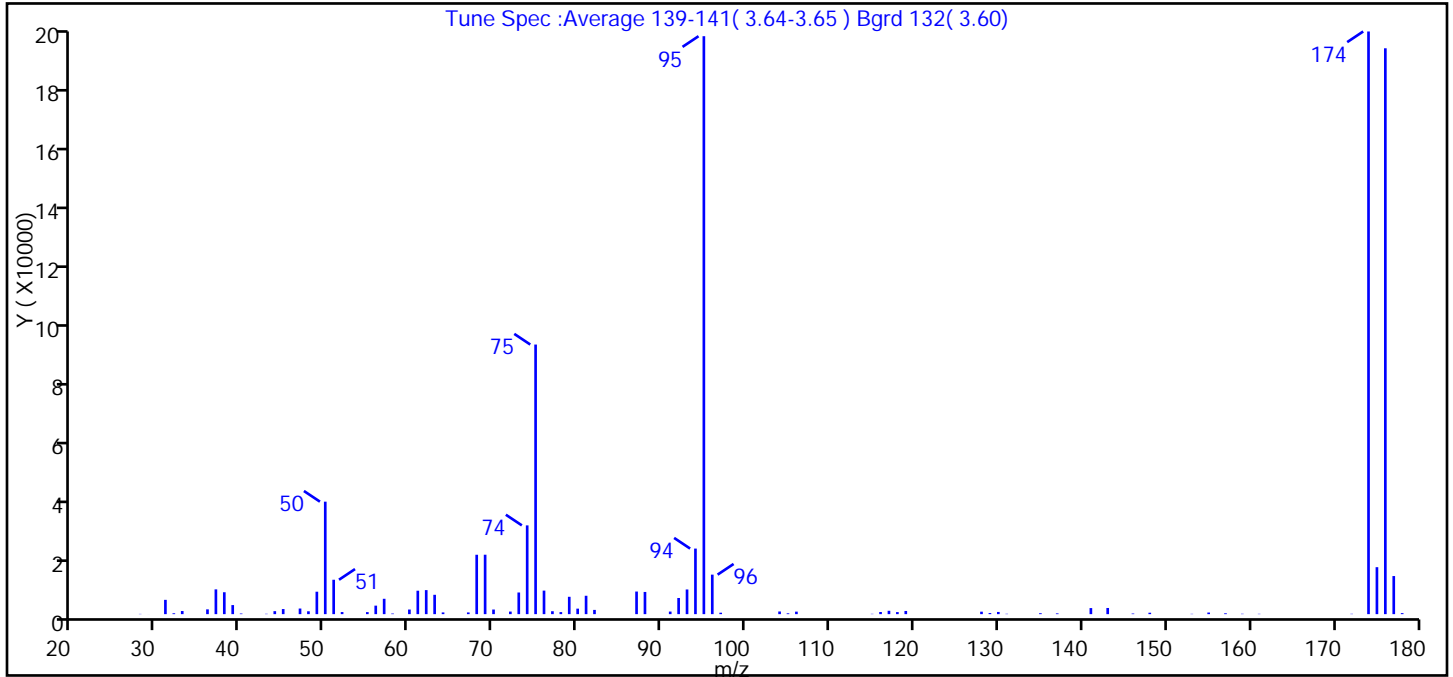
Reagents:

40MXSUR_00001 Amount Added: 40.00 Units: mL

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JBFBC24.D
 Injection Date: 24-Mar-2017 11:04:30 Instrument ID: MJ
 Lims ID: BFB
 Client ID:
 Operator ID: 007126 ALS Bottle#: 16 Worklist Smp#: 1
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.5
75	30 to 60% of m/z 95	46.6
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	100.8
175	5 to 9% of m/z 174	8.1 (8.1)
176	Greater than 95% but less than 101% of m/z 174	97.9 (97.1)
177	5 to 9% of m/z 176	6.6 (6.7)

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JBFBFC24.D\MJ_TO15.rslt\spectra.d
Injection Date: 24-Mar-2017 11:04:30
Spectrum: Tune Spec :Average 139-141(3.64-3.65) Bgrd 132(3.60)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	83	57.00	5206	82.00	1437	131.00	118
29.00	8	58.00	206	87.00	7662	135.00	312
31.00	4845	60.00	1564	88.00	7523	137.00	257
32.00	297	61.00	7940	91.00	874	141.00	2055
33.00	1055	62.00	8145	92.00	5474	143.00	2088
36.00	1624	63.00	6556	93.00	8363	146.00	210
37.00	8397	64.00	582	94.00	22224	148.00	480
38.00	7425	67.00	581	95.00	195904	153.00	102
39.00	3071	68.00	20128	96.00	13392	155.00	546
40.00	212	69.00	20144	97.00	487	157.00	287
43.00	118	70.00	1563	104.00	902	159.00	127
44.00	1010	72.00	873	105.00	281	161.00	110
45.00	1726	73.00	7339	106.00	851	172.00	114
47.00	1900	74.00	30088	115.00	108	174.00	197504
48.00	969	75.00	91384	116.00	727	175.00	15919
49.00	7605	76.00	7977	117.00	1137	176.00	191808
50.00	38128	77.00	989	118.00	698	177.00	12913
51.00	11660	78.00	694	119.00	1076	178.00	344
52.00	708	79.00	5882	128.00	836		
55.00	687	80.00	1863	129.00	375		
56.00	2881	81.00	6229	130.00	743		

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JBFBC24.D

Injection Date: 24-Mar-2017 11:04:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 500.0 mL

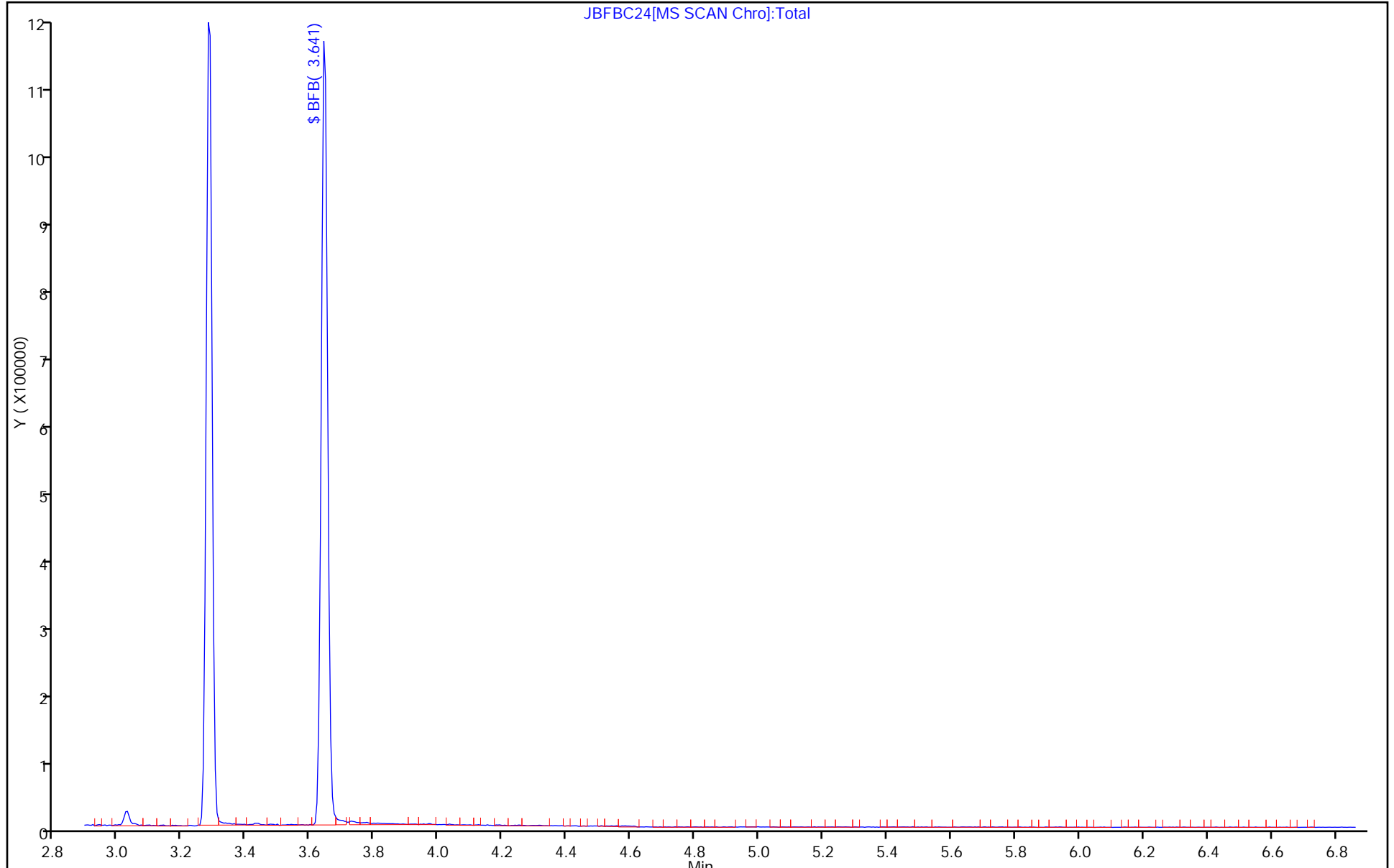
Dil. Factor: 1.0000

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: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JBFBC26.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 26-Mar-2017 10:56:30 ALS Bottle#: 16 Worklist Smp#: 1
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-001
 Misc. Info.: BFB
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:38 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa Date: 27-Mar-2017 13:17:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
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\$ 5 BFB	95	3.650	3.650	0.000	0	254388	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

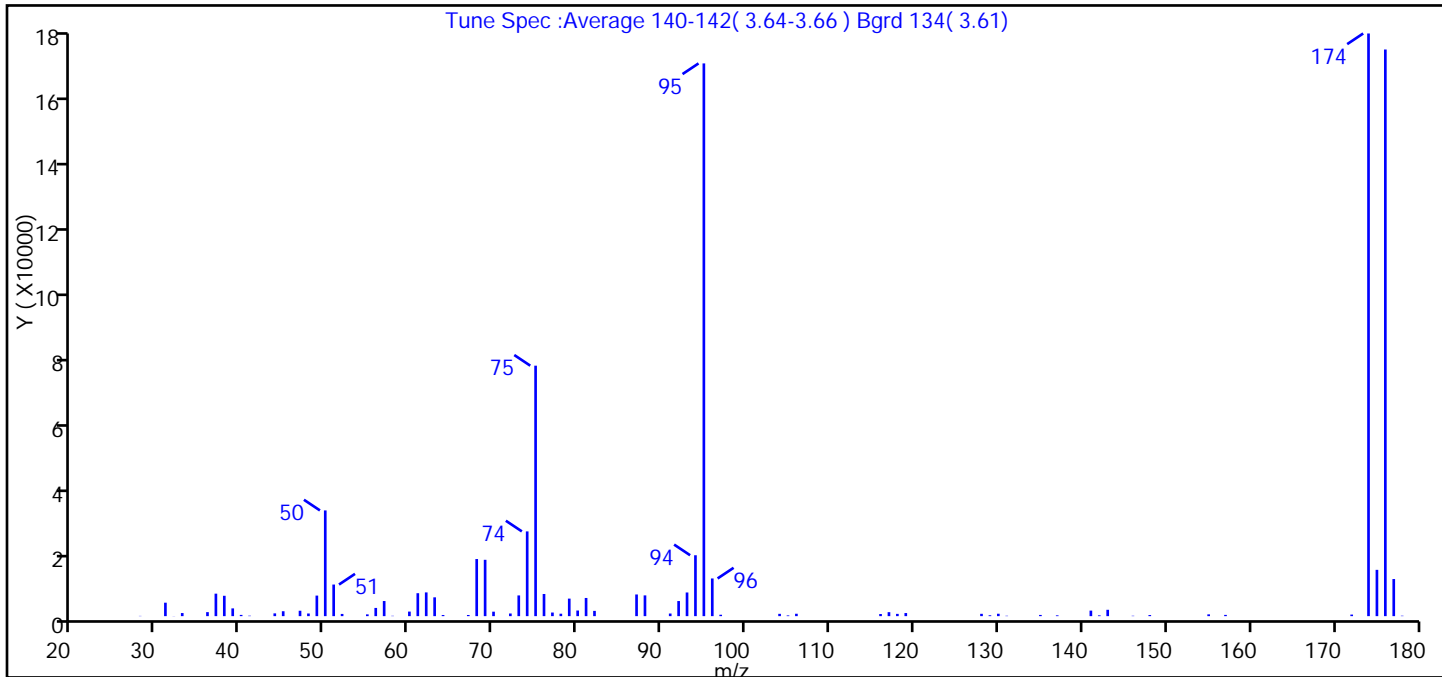
Reagents:

40MXSUR_00001 Amount Added: 40.00 Units: mL

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JBFBC26.D
 Injection Date: 26-Mar-2017 10:56:30 Instrument ID: MJ
 Lims ID: BFB
 Client ID:
 Operator ID: 403648 ALS Bottle#: 16 Worklist Smp#: 1
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Method: MJ_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.1
75	30 to 60% of m/z 95	45.3
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	105.4
175	5 to 9% of m/z 174	8.4 (7.9)
176	Greater than 95% but less than 101% of m/z 174	102.5 (97.3)
177	5 to 9% of m/z 176	6.7 (6.5)

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JBFB26.D\MJ_TO15.rslt\spectra.d
 Injection Date: 26-Mar-2017 10:56:30
 Spectrum: Tune Spec :Average 140-142(3.64-3.66) Bgrd 134(3.61)
 Base Peak: 174.00
 Minimum % Base Peak: 0
 Number of Points: 77

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	73	57.00	4588	81.00	5518	130.00	731
31.00	4082	58.00	101	82.00	1596	131.00	112
32.00	37	60.00	1385	87.00	6579	135.00	367
33.00	940	61.00	6965	88.00	6301	137.00	240
36.00	1216	62.00	7208	91.00	795	141.00	1680
37.00	6825	63.00	5711	92.00	4586	142.00	236
38.00	6181	64.00	341	93.00	7184	143.00	1928
39.00	2355	67.00	348	94.00	18488	146.00	113
40.00	378	68.00	17336	95.00	167808	148.00	329
41.00	132	69.00	17104	96.00	11440	155.00	542
44.00	840	70.00	1356	97.00	428	157.00	379
45.00	1492	72.00	803	104.00	701	172.00	476
47.00	1638	73.00	6290	105.00	217	174.00	176896
48.00	804	74.00	25728	106.00	727	175.00	14055
49.00	6240	75.00	76040	116.00	642	176.00	172032
50.00	32096	76.00	6726	117.00	1206	177.00	11265
51.00	9595	77.00	1097	118.00	690	178.00	127
52.00	672	78.00	741	119.00	942		
55.00	539	79.00	5321	128.00	708		
56.00	2493	80.00	1708	129.00	260		

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JBFBFC26.D

Injection Date: 26-Mar-2017 10:56:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 500.0 mL

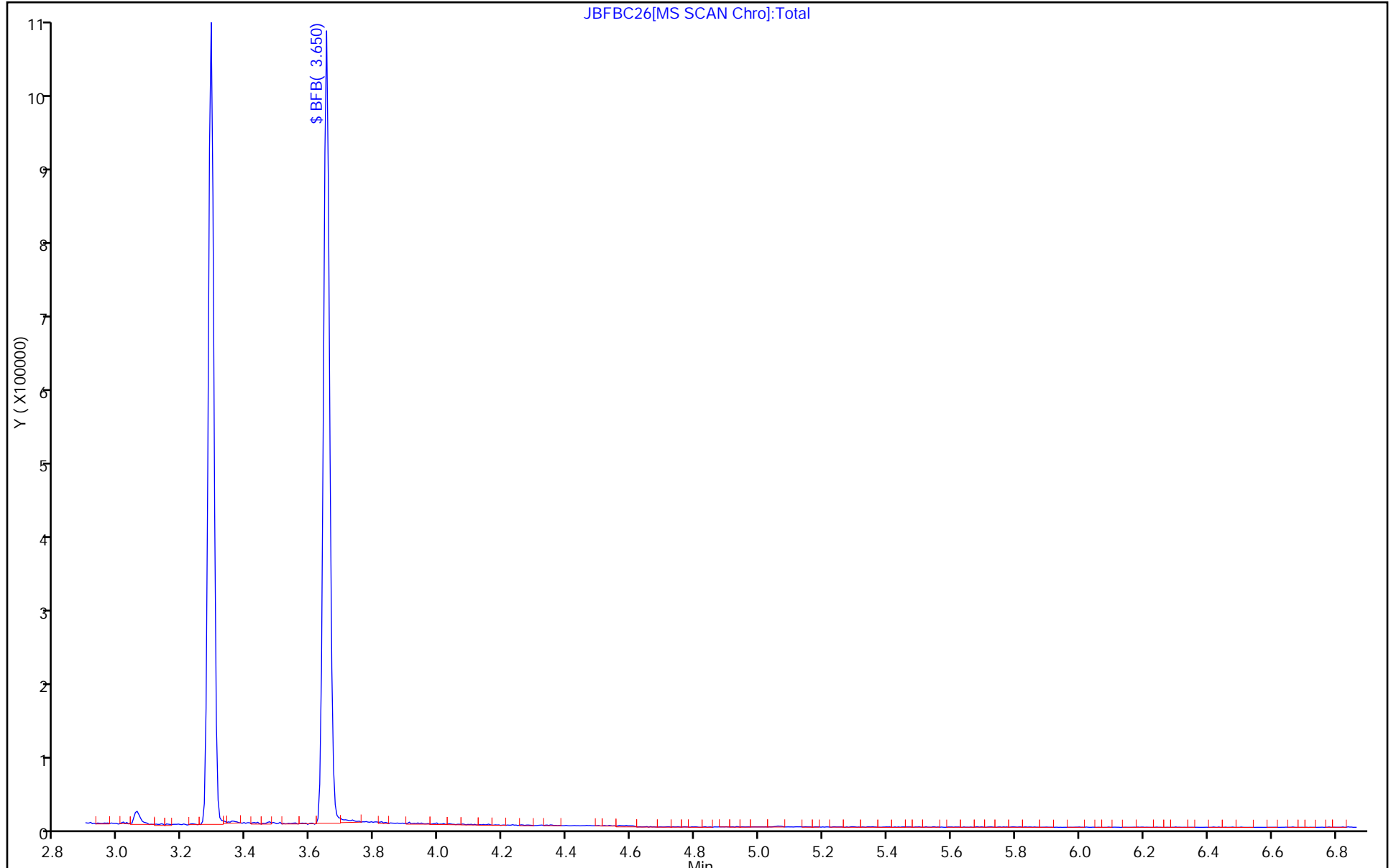
Dil. Factor: 1.0000

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.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-9850/15
 Matrix: Air Lab File ID: JMB500C26.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 03/26/2017 22:05
 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.: 9850 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
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20
78-93-3	2-Butanone	72.11	ND		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20
71-43-2	Benzene	78.11	ND		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	ND		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	ND		0.080
67-66-3	Chloroform	119.38	ND		0.080
74-87-3	Chloromethane	50.49	ND		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	ND		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-9850/15
 Matrix: Air Lab File ID: JMB500C26.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 22:05
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.080	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.080	
64-17-5	Ethanol	46.07	ND		2.0	
100-41-4	Ethylbenzene	106.17	ND		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	ND		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	ND		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.080	
95-47-6	o-Xylene	106.17	ND		0.080	
100-42-5	Styrene	104.15	ND		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
108-88-3	Toluene	92.14	ND		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-69-4	Trichlorofluoromethane	137.37	ND		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

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.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-9850/15
 Matrix: Air Lab File ID: JMB500C26.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 03/26/2017 22:05
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93
78-93-3	2-Butanone	72.11	ND		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82
71-43-2	Benzene	78.11	ND		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	ND		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	ND		0.39
74-87-3	Chloromethane	50.49	ND		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-9850/15
 Matrix: Air Lab File ID: JMB500C26.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 22:05
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	ND		0.40
64-17-5	Ethanol	46.07	ND		3.8
100-41-4	Ethylbenzene	106.17	ND		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	ND		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	ND		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.35
95-47-6	o-Xylene	106.17	ND		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	ND		0.54
108-88-3	Toluene	92.14	ND		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	ND		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

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

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JMB500C26.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 26-Mar-2017 22:05:30 ALS Bottle#: 16 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-015
 Misc. Info.: MB500mL
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh Date: 27-Mar-2017 15:36:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.544	8.547	-0.003	97	227575	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.744	10.748	-0.004	95	1035709	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.521	15.524	-0.003	88	932834	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.173	17.171	0.002	94	635243	4.00	3.90	
31 Methylene Chloride	84	6.043	6.046	-0.003	98	5480		0.0779	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JMB500C26.D

Injection Date: 26-Mar-2017 22:05:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: MB

Worklist Smp#: 15

Client ID:

Purge Vol: 500.000 mL

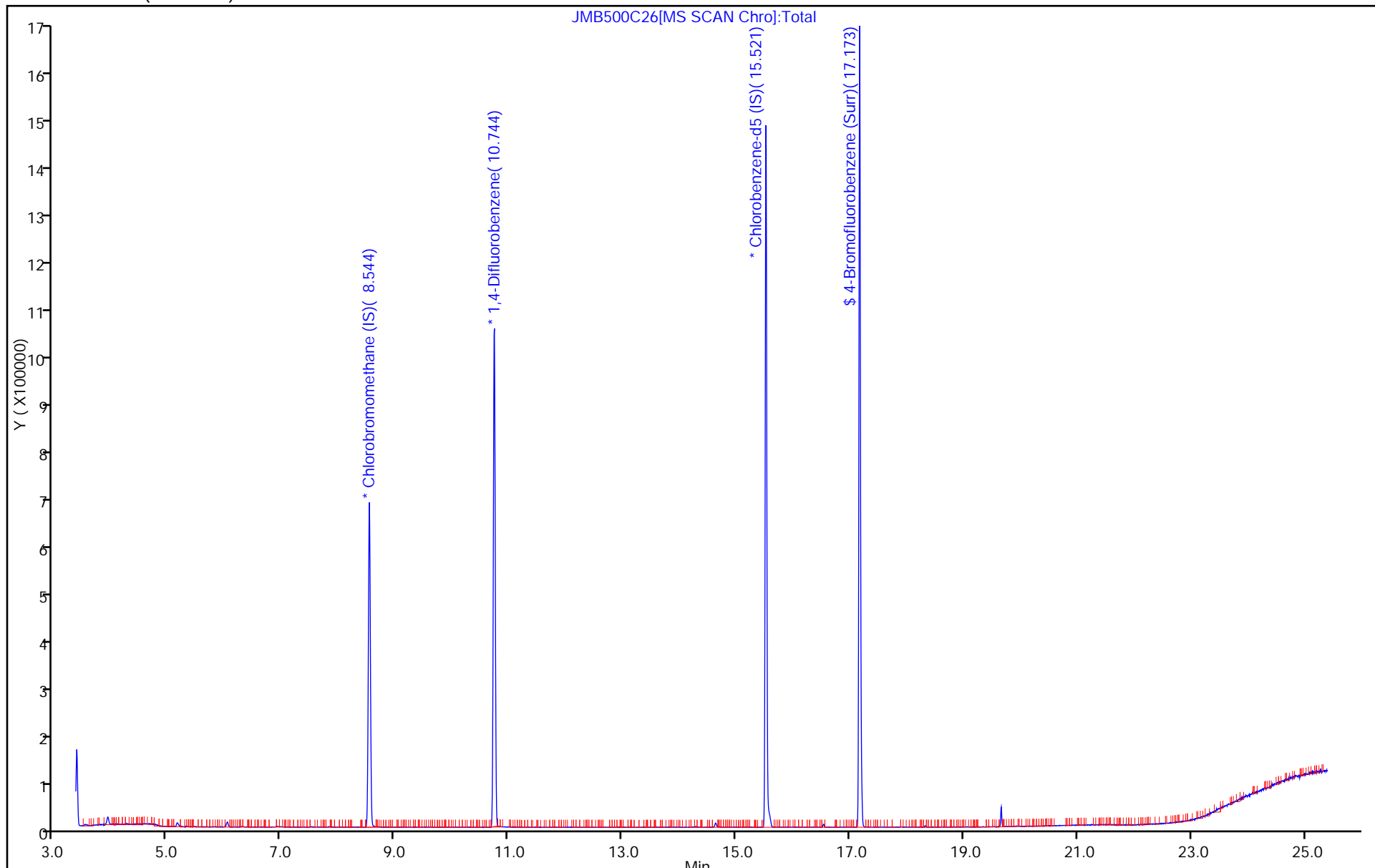
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JMB500C26.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 26-Mar-2017 22:05:30 ALS Bottle#: 16 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-015
 Misc. Info.: MB500mL
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: tajh Date: 27-Mar-2017 15:36:37

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	3.90	97.53

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-9922/8
 Matrix: Air Lab File ID: GMB500C28.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 03/28/2017 16:44
 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.: 9922 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	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080	
75-34-3	1,1-Dichloroethane	98.96	ND		0.080	
75-35-4	1,1-Dichloroethene	96.94	ND		0.080	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.080	
106-93-4	1,2-Dibromoethane	187.87	ND		0.080	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080	
107-06-2	1,2-Dichloroethane	98.96	ND		0.080	
78-87-5	1,2-Dichloropropane	112.99	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080	
123-91-1	1,4-Dioxane	88.11	ND		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20	
78-93-3	2-Butanone	72.11	ND		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20	
71-43-2	Benzene	78.11	ND		0.080	
100-44-7	Benzyl chloride	126.58	ND		0.16	
75-27-4	Bromodichloromethane	163.83	ND		0.080	
75-25-2	Bromoform	252.75	ND		0.080	
74-83-9	Bromomethane	94.94	ND		0.080	
56-23-5	Carbon tetrachloride	153.81	ND		0.040	
108-90-7	Chlorobenzene	112.56	ND		0.080	
75-00-3	Chloroethane	64.52	ND		0.080	
67-66-3	Chloroform	119.38	ND		0.080	
74-87-3	Chloromethane	50.49	ND		0.20	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080	
110-82-7	Cyclohexane	84.16	ND		0.20	

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-9922/8
 Matrix: Air Lab File ID: GMB500C28.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 03/28/2017 16:44
 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.: 9922 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.080	
75-71-8	Dichlorodifluoromethane	120.91	ND		0.080	
64-17-5	Ethanol	46.07	ND		2.0	
100-41-4	Ethylbenzene	106.17	ND		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	ND		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	ND		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.080	
95-47-6	o-Xylene	106.17	ND		0.080	
100-42-5	Styrene	104.15	ND		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	ND		0.080	
108-88-3	Toluene	92.14	ND		0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080	
79-01-6	Trichloroethene	131.39	ND		0.040	
75-69-4	Trichlorofluoromethane	137.37	ND		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-9922/8
 Matrix: Air Lab File ID: GMB500C28.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 03/28/2017 16:44
 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.: 9922 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93
78-93-3	2-Butanone	72.11	ND		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82
71-43-2	Benzene	78.11	ND		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	ND		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	ND		0.39
74-87-3	Chloromethane	50.49	ND		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-9922/8
 Matrix: Air Lab File ID: GMB500C28.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 03/28/2017 16:44
 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.: 9922 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	ND		0.40
64-17-5	Ethanol	46.07	ND		3.8
100-41-4	Ethylbenzene	106.17	ND		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	ND		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	ND		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.35
95-47-6	o-Xylene	106.17	ND		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	ND		0.54
108-88-3	Toluene	92.14	ND		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	ND		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GMB500C28.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 28-Mar-2017 16:44:30 ALS Bottle#: 16 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-008
 Misc. Info.: 500ML BLK
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:50:30 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh Date: 29-Mar-2017 10:05:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.980	7.996	-0.016	75	222809	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.148	10.158	-0.010	95	987068	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.022	15.028	-0.006	89	1006865	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.694	16.699	-0.005	92	829632	4.00	4.17	
31 Methylene Chloride	84	5.645	5.661	-0.016	86	4826		0.0901	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GMB500C28.D

Injection Date: 28-Mar-2017 16:44:30

Instrument ID: MG

Operator ID: 7126

Lims ID: mb

Worklist Smp#: 8

Client ID:

Purge Vol: 500.000 mL

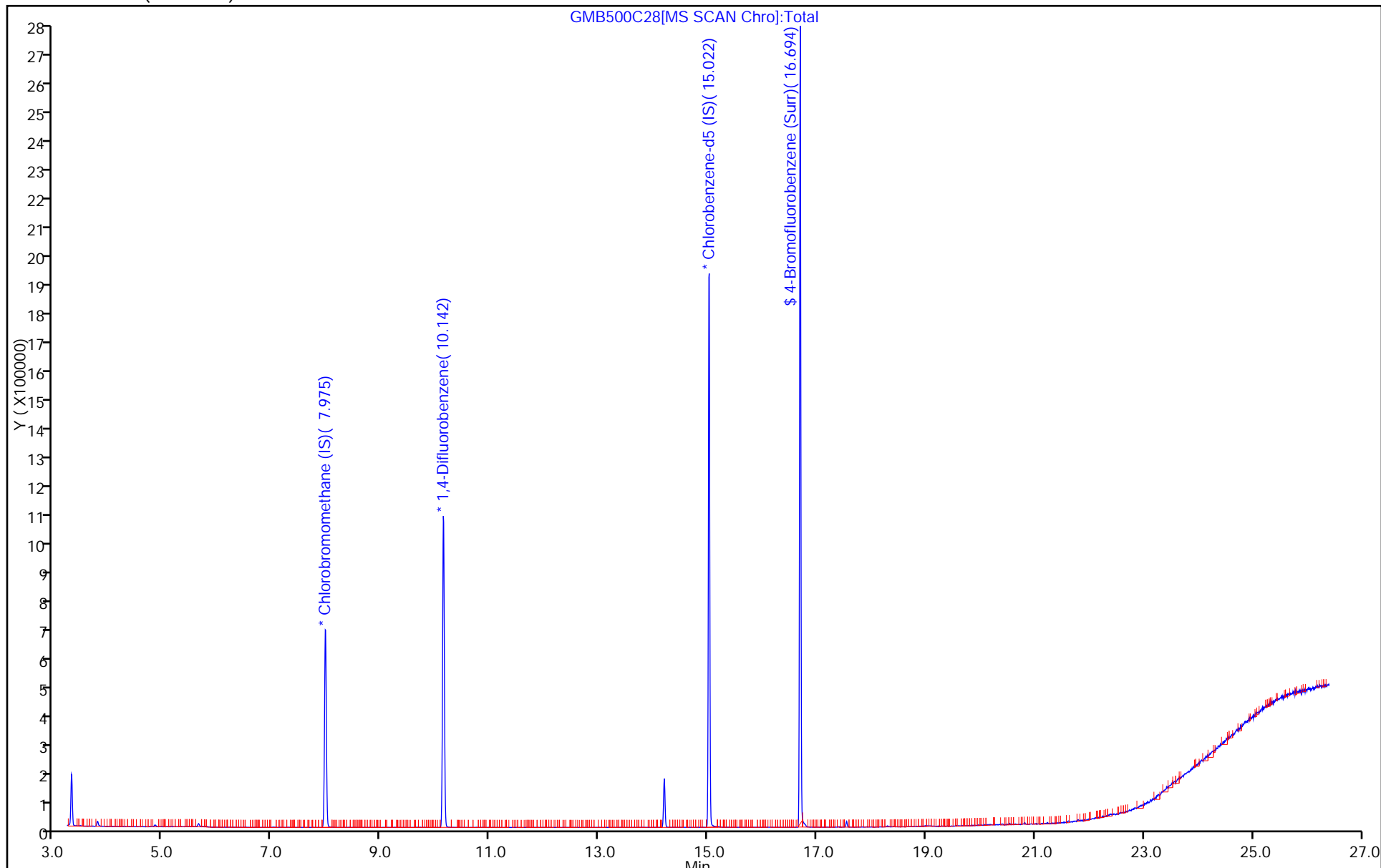
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GMB500C28.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 28-Mar-2017 16:44:30 ALS Bottle#: 16 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-008
 Misc. Info.: 500ML BLK
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:50:30 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh Date: 29-Mar-2017 10:05:53

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.17	104.24

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-9850/1002
 Matrix: Air Lab File ID: JCCVC26-LCS.d
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 11:22
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	2.08		0.080
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.72		0.080
79-00-5	1,1,2-Trichloroethane	133.41	1.81		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	2.20		0.080
75-34-3	1,1-Dichloroethane	98.96	2.06		0.080
75-35-4	1,1-Dichloroethene	96.94	2.18		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	1.60		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	1.72		0.080
106-93-4	1,2-Dibromoethane	187.87	1.92		0.080
95-50-1	1,2-Dichlorobenzene	147.00	1.67		0.080
107-06-2	1,2-Dichloroethane	98.96	2.03		0.080
78-87-5	1,2-Dichloropropane	112.99	1.82		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.56		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	1.69		0.080
541-73-1	1,3-Dichlorobenzene	147.00	1.71		0.080
106-46-7	1,4-Dichlorobenzene	147.00	1.65		0.080
123-91-1	1,4-Dioxane	88.11	1.84		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	1.94		0.20
78-93-3	2-Butanone	72.11	1.64		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.85		0.20
71-43-2	Benzene	78.11	1.89		0.080
100-44-7	Benzyl chloride	126.58	1.63		0.16
75-27-4	Bromodichloromethane	163.83	2.02		0.080
75-25-2	Bromoform	252.75	1.80		0.080
74-83-9	Bromomethane	94.94	1.96		0.080
56-23-5	Carbon tetrachloride	153.81	2.18		0.040
108-90-7	Chlorobenzene	112.56	1.86		0.080
75-00-3	Chloroethane	64.52	2.09		0.080
67-66-3	Chloroform	119.38	1.97		0.080
74-87-3	Chloromethane	50.49	1.92		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	2.03		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	1.94		0.080
110-82-7	Cyclohexane	84.16	2.22		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-9850/1002
 Matrix: Air Lab File ID: JCCVC26-LCS.d
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 11:22
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	2.02		0.080
75-71-8	Dichlorodifluoromethane	120.91	2.19		0.080
64-17-5	Ethanol	46.07	8.94		2.0
100-41-4	Ethylbenzene	106.17	1.62		0.080
87-68-3	Hexachlorobutadiene	260.76	1.70		0.080
110-54-3	Hexane	86.17	2.14		0.20
1634-04-4	Methyl tert-butyl ether	88.15	1.78		0.16
75-09-2	Methylene Chloride	84.93	2.00		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	3.25		0.080
95-47-6	o-Xylene	106.17	1.61		0.080
100-42-5	Styrene	104.15	1.65		0.080
75-65-0	t-Butyl alcohol	74.12	2.06		0.32
127-18-4	Tetrachloroethene	165.83	1.97		0.080
108-88-3	Toluene	92.14	1.74		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	2.16		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	1.79		0.080
79-01-6	Trichloroethene	131.39	2.07		0.040
75-69-4	Trichlorofluoromethane	137.37	2.25		0.080
75-01-4	Vinyl chloride	62.50	2.03		0.040

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

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JCCVC26-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 26-Mar-2017 11:22:30 ALS Bottle#: 15 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-002
 Misc. Info.: S35
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa

Date: 27-Mar-2017 13:18:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.547	8.547	0.000	97	232350	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.748	10.748	0.000	95	1065412	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.524	15.524	0.000	88	987172	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.171	17.171	0.000	94	696010	4.00	4.04	
6 Chlorodifluoromethane	67	3.566	3.566	0.000	97	44685	2.00	2.29	
7 Propene	41	3.577	3.577	0.000	99	144389	2.00	2.09	
8 Dichlorodifluoromethane	85	3.625	3.625	0.000	100	436217	2.00	2.19	
9 Chloromethane	52	3.797	3.797	0.000	98	41938	2.00	1.92	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.803	3.803	0.000	92	225834	2.00	2.56	
11 Acetaldehyde	44	3.942	3.942	0.000	97	152635	10.0	7.30	
12 Vinyl chloride	62	3.959	3.959	0.000	99	130615	2.00	2.03	
14 Butadiene	54	4.039	4.039	0.000	68	96939	2.00	2.01	
13 Butane	43	4.039	4.039	0.000	85	195640	2.00	2.02	
15 Bromomethane	94	4.346	4.346	0.000	98	117446	2.00	1.96	
16 Chloroethane	64	4.475	4.475	0.000	93	55323	2.00	2.09	
17 Ethanol	31	4.566	4.566	0.000	97	122513	10.0	8.94	
18 Vinyl bromide	106	4.766	4.766	0.000	98	110381	2.00	2.12	
19 2-Methylbutane	43	4.814	4.814	0.000	93	184750	2.00	2.13	
20 Trichlorofluoromethane	101	5.024	5.024	0.000	100	411163	2.00	2.25	
21 Acrolein	56	5.029	5.029	0.000	26	4833	2.00	0.3047	
22 Acetonitrile	40	5.099	5.099	0.000	99	32715	2.00	1.63	
23 Acetone	58	5.147	5.147	0.000	98	90966	5.88	4.67	
24 Isopropyl alcohol	45	5.223	5.223	0.000	96	460975	5.88	5.77	
25 Pentane	72	5.234	5.234	0.000	97	23768	2.00	2.29	
26 Ethyl ether	31	5.406	5.406	0.000	93	106089	2.00	1.72	
27 1,1-Dichloroethene	96	5.707	5.707	0.000	95	152384	2.00	2.18	
28 2-Methyl-2-propanol	59	5.804	5.804	0.000	95	177818	2.00	2.06	
29 Acrylonitrile	53	5.809	5.809	0.000	96	54341	2.00	1.57	
30 1,1,2-Trichloro-1,2,2-trif	101	5.879	5.879	0.000	97	325765	2.00	2.20	
31 Methylene Chloride	84	6.046	6.046	0.000	98	143907	2.00	2.00	
32 3-Chloro-1-propene	39	6.062	6.062	0.000	95	173919	2.00	2.47	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Carbon disulfide	76	6.202	6.202	0.000	99	448509	2.00	2.21	
34 trans-1,2-Dichloroethene	96	6.837	6.837	0.000	97	153573	2.00	2.16	
35 2-Methylpentane	43	6.858	6.858	0.000	96	359913	2.00	2.18	
36 Methyl tert-butyl ether	73	6.976	6.976	0.000	97	188977	2.00	1.78	
37 1,1-Dichloroethane	63	7.251	7.251	0.000	100	285832	2.00	2.06	
38 Vinyl acetate	43	7.358	7.358	0.000	100	172636	2.00	1.52	
39 2-Butanone (MEK)	72	7.810	7.810	0.000	94	27956	2.00	1.64	
40 Hexane	56	7.821	7.821	0.000	90	130793	2.00	2.14	
41 Isopropyl ether	45	7.988	7.988	0.000	97	266562	2.00	1.76	
42 cis-1,2-Dichloroethene	96	8.225	8.225	0.000	96	151021	2.00	2.03	
43 Ethyl acetate	43	8.418	8.418	0.000	98	142107	2.00	1.75	
44 Chloroform	83	8.563	8.563	0.000	98	301542	2.00	1.97	
45 Tert-butyl ethyl ether	59	8.660	8.660	0.000	96	217169	2.00	1.80	
46 Tetrahydrofuran	42	8.983	8.983	0.000	95	80615	2.00	1.73	
47 1,1,1-Trichloroethane	97	9.580	9.580	0.000	96	332221	2.00	2.08	
48 1,2-Dichloroethane	62	9.693	9.693	0.000	97	205752	2.00	2.03	
49 n-Butanol	31	10.156	10.156	0.000	91	37775	2.00	2.07	
50 Cyclohexane	69	10.188	10.188	0.000	78	71259	2.00	2.22	
51 Benzene	78	10.188	10.188	0.000	97	394106	2.00	1.89	
52 Carbon tetrachloride	117	10.210	10.210	0.000	97	351717	2.00	2.18	
53 2,3-Dimethylpentane	71	10.317	10.317	0.000	90	93788	2.00	2.07	
54 Thiophene	84	10.462	10.462	0.000	97	230203	2.00	1.94	
55 Tert-amyl methyl ether	73	10.688	10.688	0.000	96	193829	2.00	1.91	
56 Isooctane	57	10.968	10.968	0.000	98	701109	2.00	1.94	
57 n-Heptane	71	11.355	11.355	0.000	94	136131	2.00	1.96	
58 1,2-Dichloropropane	63	11.431	11.431	0.000	90	138874	2.00	1.82	
59 Trichloroethene	130	11.468	11.468	0.000	96	233534	2.00	2.07	
60 Dibromomethane	93	11.549	11.549	0.000	96	171799	2.00	1.98	
62 Dichlorobromomethane	83	11.700	11.700	0.000	99	291629	2.00	2.02	
61 1,4-Dioxane	88	11.732	11.732	0.000	94	32994	2.00	1.84	
63 Methyl methacrylate	41	11.813	11.813	0.000	91	81773	2.00	1.69	
64 Methylcyclohexane	83	12.243	12.243	0.000	94	315438	2.00	2.02	
65 4-Methyl-2-pentanone (MIBK)	43	12.668	12.668	0.000	97	165308	2.00	1.85	
66 cis-1,3-Dichloropropene	75	12.716	12.716	0.000	95	221087	2.00	1.94	
67 trans-1,3-Dichloropropene	75	13.421	13.421	0.000	99	175083	2.00	1.79	
68 Toluene	91	13.539	13.539	0.000	94	364253	2.00	1.74	
69 1,1,2-Trichloroethane	83	13.620	13.620	0.000	99	117853	2.00	1.81	
70 2-Methylthiophene	97	13.695	13.695	0.000	98	345698	2.00	1.84	
71 3-Methylthiophene	97	13.900	13.900	0.000	99	337328	2.00	1.84	
72 2-Hexanone	58	14.018	14.018	0.000	92	83991	2.00	1.95	
73 n-Octane	85	14.244	14.244	0.000	95	141010	2.00	1.97	
74 Chlorodibromomethane	129	14.325	14.325	0.000	98	276349	2.00	2.02	
75 Ethylene Dibromide	107	14.615	14.615	0.000	99	230531	2.00	1.92	
76 Tetrachloroethene	129	14.691	14.691	0.000	95	170900	2.00	1.97	
78 Chlorobenzene	112	15.573	15.573	0.000	94	332445	2.00	1.86	
77 2,3-Dimethylheptane	43	15.600	15.600	0.000	96	444727	2.00	2.01	
79 Ethylbenzene	91	15.863	15.863	0.000	99	380820	2.00	1.62	
80 2-Ethylthiophene	97	15.966	15.966	0.000	98	326002	2.00	1.69	
81 m-Xylene & p-Xylene	91	16.030	16.030	0.000	99	554199	4.00	3.25	
82 n-Nonane	57	16.455	16.455	0.000	94	310300	2.00	2.04	
83 Bromoform	173	16.471	16.471	0.000	97	246824	2.00	1.80	
84 Styrene	104	16.493	16.493	0.000	99	210236	2.00	1.65	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 o-Xylene	91	16.552	16.552	0.000	98	279180	2.00	1.61	
86 1,1,2,2-Tetrachloroethane	83	16.880	16.880	0.000	99	202712	2.00	1.72	
87 1,2,3-Trichloropropane	110	17.036	17.036	0.000	98	50567	2.00	1.73	
88 Isopropylbenzene	105	17.144	17.144	0.000	97	359083	2.00	1.62	
89 N-Propylbenzene	120	17.692	17.692	0.000	99	96010	2.00	1.68	
90 2-Chlorotoluene	126	17.730	17.730	0.000	97	117754	2.00	1.67	
91 4-Ethyltoluene	105	17.843	17.843	0.000	98	327450	2.00	1.69	
92 1,3,5-Trimethylbenzene	120	17.918	17.918	0.000	93	153233	2.00	1.69	
93 Alpha Methyl Styrene	118	18.155	18.155	0.000	88	132138	2.00	1.69	
94 n-Decane	57	18.220	18.220	0.000	89	301936	2.00	1.79	
95 tert-Butylbenzene	119	18.349	18.349	0.000	91	291675	2.00	1.69	
96 1,2,4-Trimethylbenzene	105	18.365	18.365	0.000	96	269049	2.00	1.72	
97 sec-Butylbenzene	105	18.623	18.623	0.000	98	407785	2.00	1.72	
98 1,3-Dichlorobenzene	146	18.634	18.634	0.000	98	255188	2.00	1.71	
99 Benzyl chloride	91	18.714	18.714	0.000	98	199926	2.00	1.63	
100 1,4-Dichlorobenzene	146	18.725	18.725	0.000	97	238534	2.00	1.65	
101 4-Isopropyltoluene	119	18.790	18.790	0.000	97	327609	2.00	1.75	
102 1,2,3-Trimethylbenzene	105	18.838	18.838	0.000	98	202094	2.00	1.71	
103 Butylcyclohexane	83	18.897	18.897	0.000	92	366974	2.00	1.83	
104 2,3-Dihydroindene	117	19.086	19.086	0.000	93	268584	2.00	1.72	
105 1,2-Dichlorobenzene	146	19.086	19.086	0.000	88	225329	2.00	1.67	
107 Indene	116	19.220	19.220	0.000	90	179895	2.00	1.69	
106 n-Butylbenzene	91	19.226	19.226	0.000	98	318421	2.00	1.72	
108 Undecane	57	19.543	19.543	0.000	96	277592	2.00	1.86	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.602	19.602	0.000	98	235475	2.00	1.75	
110 1,2-Dibromo-3-Chloropropan	157	19.699	19.699	0.000	97	57918	2.00	1.41	
111 1,2,4,5-Tetramethylbenzene	119	19.989	19.989	0.000	97	279867	2.00	1.80	
112 1,2,3,5-Tetramethylbenzene	119	20.043	20.043	0.000	95	171774	2.00	1.74	
113 1,2,3,4-Tetramethylbenzene	119	20.441	20.441	0.000	98	223277	2.00	1.75	
114 Dodecane	57	20.608	20.608	0.000	94	239374	2.00	1.89	
115 1,2,4-Trichlorobenzene	180	20.796	20.796	0.000	94	117833	2.00	1.60	
116 Naphthalene	128	20.936	20.936	0.000	99	225545	2.00	1.66	
117 Benzo(b)thiophene	134	21.044	21.044	0.000	99	102528	2.00	1.49	
118 Hexachlorobutadiene	225	21.157	21.157	0.000	94	219770	2.00	1.70	
119 1,2,3-Trichlorobenzene	180	21.227	21.227	0.000	94	109541	2.00	1.58	
120 2-Methylnaphthalene	142	21.921	21.921	0.000	99	44527	6.06	4.87	
121 1-Methylnaphthalene	142	22.050	22.050	0.000	99	46708	6.06	4.67	
A 124 Toluene Range	1	13.539	(13.509-13.569)		0	901110	2.00	1.78	
A 125 C8 Range	1	14.241	(14.200-14.297)		0	1386051	2.00	2.07	
S 126 Xylenes, Total	100				0		6.00	4.86	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.19	

Reagents:

40CV101P_00035

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Laboratories

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JCCVC26-LCS.d

Injection Date: 26-Mar-2017 11:22:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

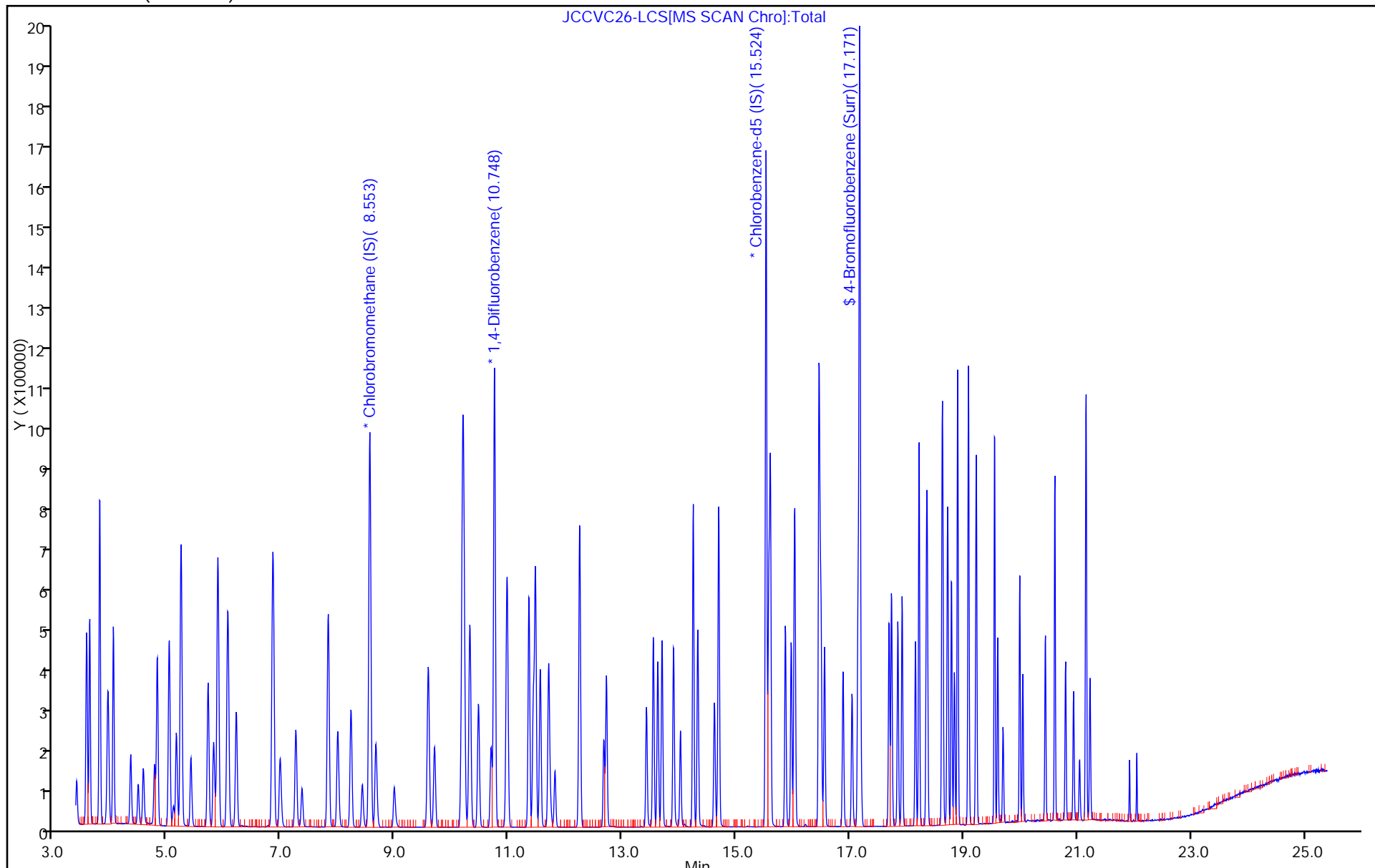
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Laboratories
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\JCCVC26-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 26-Mar-2017 11:22:30 ALS Bottle#: 15 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004417-002
 Misc. Info.: S35
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170325-4417.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Mar-2017 15:42:39 Calib Date: 24-Mar-2017 17:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20170319-4355.b\JC24IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: barlozhetskayaa Date: 27-Mar-2017 13:18:19

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.04	100.98

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-9922/1006
 Matrix: Air Lab File ID: GCCVC28A-LCS.d
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 03/28/2017 13:07
 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.: 9922 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	2.30		0.080
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.16		0.080
79-00-5	1,1,2-Trichloroethane	133.41	2.03		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	2.26		0.080
75-34-3	1,1-Dichloroethane	98.96	1.97		0.080
75-35-4	1,1-Dichloroethene	96.94	2.13		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	2.50		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	2.25		0.080
106-93-4	1,2-Dibromoethane	187.87	2.22		0.080
95-50-1	1,2-Dichlorobenzene	147.00	2.19		0.080
107-06-2	1,2-Dichloroethane	98.96	2.23		0.080
78-87-5	1,2-Dichloropropane	112.99	1.96		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.24		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	2.23		0.080
541-73-1	1,3-Dichlorobenzene	147.00	2.20		0.080
106-46-7	1,4-Dichlorobenzene	147.00	2.19		0.080
123-91-1	1,4-Dioxane	88.11	2.02		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	1.98		0.20
78-93-3	2-Butanone	72.11	1.90		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.04		0.20
71-43-2	Benzene	78.11	1.95		0.080
100-44-7	Benzyl chloride	126.58	2.33		0.16
75-27-4	Bromodichloromethane	163.83	2.37		0.080
75-25-2	Bromoform	252.75	2.56		0.080
74-83-9	Bromomethane	94.94	2.03		0.080
56-23-5	Carbon tetrachloride	153.81	2.52		0.040
108-90-7	Chlorobenzene	112.56	2.09		0.080
75-00-3	Chloroethane	64.52	1.92		0.080
67-66-3	Chloroform	119.38	2.18		0.080
74-87-3	Chloromethane	50.49	1.82		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	2.05		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	2.16		0.080
110-82-7	Cyclohexane	84.16	2.05		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-9922/1006
 Matrix: Air Lab File ID: GCCVC28A-LCS.d
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 03/28/2017 13:07
 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.: 9922 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	2.40		0.080
75-71-8	Dichlorodifluoromethane	120.91	2.26		0.080
64-17-5	Ethanol	46.07	9.17		2.0
100-41-4	Ethylbenzene	106.17	2.15		0.080
87-68-3	Hexachlorobutadiene	260.76	2.49		0.080
110-54-3	Hexane	86.17	1.84		0.20
1634-04-4	Methyl tert-butyl ether	88.15	2.07		0.16
75-09-2	Methylene Chloride	84.93	1.96		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	4.41		0.080
95-47-6	o-Xylene	106.17	2.15		0.080
100-42-5	Styrene	104.15	2.34		0.080
75-65-0	t-Butyl alcohol	74.12	2.13		0.32
127-18-4	Tetrachloroethene	165.83	2.19		0.080
108-88-3	Toluene	92.14	2.09		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	2.01		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	2.23		0.080
79-01-6	Trichloroethene	131.39	2.11		0.040
75-69-4	Trichlorofluoromethane	137.37	2.38		0.080
75-01-4	Vinyl chloride	62.50	1.95		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GCCVC28A-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 28-Mar-2017 13:07:30 ALS Bottle#: 15 Worklist Smp#: 1006
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-002
 Misc. Info.: S35
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:55:34 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh

Date: 29-Mar-2017 10:55:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	7.996	7.996	0.000	77	250986	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.158	10.158	0.000	95	1223103	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.028	15.028	0.000	88	1222770	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	16.699	16.699	0.000	93	1051627	4.00	4.35	
6 Chlorodifluoromethane	67	3.472	3.472	0.000	96	65096	2.00	2.33	
7 Propene	41	3.477	3.477	0.000	95	112235	2.00	1.69	
8 Dichlorodifluoromethane	85	3.520	3.520	0.000	100	599768	2.00	2.26	
9 Chloromethane	52	3.671	3.671	0.000	51	32464	2.00	1.82	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.682	3.682	0.000	89	354866	2.00	2.24	
11 Acetaldehyde	44	3.795	3.795	0.000	84	164827	10.0	7.85	
12 Vinyl chloride	62	3.812	3.812	0.000	100	143413	2.00	1.95	
13 Butadiene	54	3.887	3.887	0.000	86	88353	2.00	1.81	
14 Butane	43	3.887	3.887	0.000	94	191958	2.00	1.85	
15 Bromomethane	94	4.151	4.151	0.000	97	147247	2.00	2.03	
16 Chloroethane	64	4.264	4.264	0.000	90	68248	2.00	1.92	
17 Ethanol	31	4.367	4.367	0.000	97	231602	10.0	9.17	
18 Vinyl bromide	106	4.518	4.518	0.000	96	154009	2.00	2.24	
19 2-Methylbutane	43	4.566	4.566	0.000	88	136013	2.00	1.94	
21 Acrolein	56	4.744	4.744	0.000	94	23844	2.00	2.32	
20 Trichlorofluoromethane	101	4.750	4.750	0.000	99	628968	2.00	2.38	
22 Acetonitrile	40	4.798	4.798	0.000	96	40922	2.00	1.94	
23 Acetone	58	4.836	4.836	0.000	100	126371	6.00	5.13	
25 Pentane	72	4.939	4.939	0.000	95	28428	2.00	2.22	
24 Isopropyl alcohol	45	4.944	4.944	0.000	97	395154	6.00	4.64	
26 Ethyl ether	31	5.073	5.073	0.000	91	118352	2.00	2.04	
27 1,1-Dichloroethene	96	5.359	5.359	0.000	98	142331	2.00	2.13	
28 Acrylonitrile	53	5.440	5.440	0.000	94	60891	2.00	2.00	
29 2-Methyl-2-propanol	59	5.467	5.467	0.000	95	216982	2.00	2.13	
30 1,1,2-Trichloro-1,2,2-trif	101	5.526	5.526	0.000	93	348111	2.00	2.26	
31 Methylene Chloride	84	5.661	5.661	0.000	89	118593	2.00	1.96	
32 3-Chloro-1-propene	39	5.677	5.677	0.000	90	133291	2.00	2.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
33 Carbon disulfide	76	5.801	5.801	0.000	99	358739	2.00	2.10	
34 trans-1,2-Dichloroethene	96	6.394	6.394	0.000	97	131337	2.00	2.01	
35 2-Methylpentane	43	6.427	6.427	0.000	90	252764	2.00	1.97	
36 Methyl tert-butyl ether	73	6.508	6.508	0.000	94	402848	2.00	2.07	
37 1,1-Dichloroethane	63	6.772	6.772	0.000	99	251010	2.00	1.97	
38 Vinyl acetate	43	6.880	6.880	0.000	99	288835	2.00	1.97	
39 2-Butanone (MEK)	72	7.273	7.273	0.000	98	54269	2.00	1.90	
40 Hexane	56	7.338	7.338	0.000	87	91274	2.00	1.84	
41 Isopropyl ether	45	7.478	7.478	0.000	91	338448	2.00	1.86	
42 cis-1,2-Dichloroethene	96	7.689	7.689	0.000	96	142749	2.00	2.05	
43 Ethyl acetate	43	7.872	7.872	0.000	97	217788	2.00	1.80	
44 Chloroform	83	8.018	8.018	0.000	96	383789	2.00	2.18	
45 Tert-butyl ethyl ether	59	8.115	8.115	0.000	95	383512	2.00	2.09	
46 Tetrahydrofuran	42	8.379	8.379	0.000	87	117626	2.00	1.84	
47 1,1,1-Trichloroethane	97	8.994	8.994	0.000	94	468770	2.00	2.30	
48 1,2-Dichloroethane	62	9.085	9.085	0.000	98	275108	2.00	2.23	
49 Benzene	78	9.576	9.576	0.000	96	405313	2.00	1.95	
50 Cyclohexane	69	9.587	9.587	0.000	88	71579	2.00	2.05	
52 n-Butanol	31	9.598	9.598	0.000	71	47056	2.00	2.12	
51 Carbon tetrachloride	117	9.608	9.608	0.000	98	547194	2.00	2.52	
53 2,3-Dimethylpentane	71	9.732	9.732	0.000	87	89584	2.00	1.87	
54 Thiophene	84	9.851	9.851	0.000	95	249061	2.00	2.15	
55 Tert-amyl methyl ether	73	10.088	10.088	0.000	97	423892	2.00	2.23	
56 Isooctane	57	10.412	10.412	0.000	95	610637	2.00	1.98	
57 n-Heptane	71	10.811	10.811	0.000	90	156015	2.00	2.03	
58 1,2-Dichloropropane	63	10.838	10.838	0.000	80	138628	2.00	1.96	
59 Trichloroethene	130	10.892	10.892	0.000	95	237341	2.00	2.11	
60 Dibromomethane	93	10.956	10.956	0.000	93	212067	2.00	2.26	
61 Dichlorobromomethane	83	11.124	11.124	0.000	98	426489	2.00	2.37	
62 1,4-Dioxane	88	11.140	11.140	0.000	92	56739	2.00	2.02	
63 Methyl methacrylate	41	11.253	11.253	0.000	92	164539	2.00	2.11	
64 Methylcyclohexane	83	11.695	11.695	0.000	94	271768	2.00	1.68	
65 4-Methyl-2-pentanone (MIBK)	43	12.121	12.121	0.000	95	243453	2.00	2.04	
66 cis-1,3-Dichloropropene	75	12.170	12.170	0.000	96	281970	2.00	2.16	
67 trans-1,3-Dichloropropene	75	12.892	12.892	0.000	97	291448	2.00	2.23	
68 Toluene	91	13.016	13.016	0.000	93	509430	2.00	2.09	
69 1,1,2-Trichloroethane	83	13.086	13.086	0.000	97	148367	2.00	2.03	
70 2-Methylthiophene	97	13.167	13.167	0.000	97	446778	2.00	2.19	
71 3-Methylthiophene	97	13.372	13.372	0.000	99	456181	2.00	2.25	
72 2-Hexanone	58	13.507	13.507	0.000	93	117973	2.00	2.02	
73 n-Octane	85	13.777	13.777	0.000	85	186408	2.00	2.12	
74 Chlorodibromomethane	129	13.798	13.798	0.000	97	438155	2.00	2.40	
75 Ethylene Dibromide	107	14.084	14.084	0.000	97	317797	2.00	2.22	
76 Tetrachloroethene	129	14.186	14.186	0.000	93	244254	2.00	2.19	
77 Chlorobenzene	112	15.076	15.076	0.000	92	431708	2.00	2.09	
78 2,3-Dimethylheptane	43	15.146	15.146	0.000	89	412118	2.00	1.98	
79 Ethylbenzene	91	15.384	15.384	0.000	99	730363	2.00	2.15	
80 2-Ethylthiophene	97	15.486	15.486	0.000	98	590651	2.00	2.20	
81 m-Xylene & p-Xylene	91	15.556	15.556	0.000	99	1210704	4.00	4.41	
82 Bromoform	173	15.971	15.971	0.000	95	438004	2.00	2.56	
83 Styrene	104	16.020	16.020	0.000	96	424418	2.00	2.34	
84 n-Nonane	57	16.025	16.025	0.000	86	299720	2.00	2.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
85 o-Xylene	91	16.079	16.079	0.000	98	603341	2.00	2.15	
86 1,1,2,2-Tetrachloroethane	83	16.403	16.403	0.000	97	382518	2.00	2.16	
87 1,2,3-Trichloropropane	110	16.559	16.559	0.000	95	144885	2.00	2.24	
88 Isopropylbenzene	105	16.683	16.683	0.000	98	913273	2.00	2.24	
89 N-Propylbenzene	120	17.239	17.239	0.000	99	239686	2.00	2.24	
90 2-Chlorotoluene	126	17.271	17.271	0.000	97	219405	2.00	2.20	
91 4-Ethyltoluene	105	17.400	17.400	0.000	98	815478	2.00	2.12	
92 1,3,5-Trimethylbenzene	120	17.487	17.487	0.000	92	402566	2.00	2.23	
93 Alpha Methyl Styrene	118	17.729	17.729	0.000	86	338119	2.00	2.33	
94 n-Decane	57	17.832	17.832	0.000	94	385243	2.00	2.10	
95 tert-Butylbenzene	119	17.934	17.934	0.000	94	870638	2.00	2.29	
96 1,2,4-Trimethylbenzene	105	17.950	17.950	0.000	96	777591	2.00	2.25	
97 1,3-Dichlorobenzene	146	18.215	18.215	0.000	97	572621	2.00	2.20	
98 sec-Butylbenzene	105	18.220	18.220	0.000	97	1111768	2.00	2.29	
99 Benzyl chloride	91	18.295	18.295	0.000	97	758813	2.00	2.33	
100 1,4-Dichlorobenzene	146	18.312	18.312	0.000	95	556600	2.00	2.19	
101 4-Isopropyltoluene	119	18.398	18.398	0.000	97	982324	2.00	2.29	
102 1,2,3-Trimethylbenzene	105	18.441	18.441	0.000	98	618255	2.00	2.40	
103 Butylcyclohexane	83	18.516	18.516	0.000	95	528624	2.00	2.08	
104 1,2-Dichlorobenzene	146	18.684	18.684	0.000	94	544482	2.00	2.19	
105 2,3-Dihydroindene	117	18.689	18.689	0.000	93	656436	2.00	2.09	
106 Indene	116	18.818	18.818	0.000	91	646556	2.00	2.81	
107 n-Butylbenzene	91	18.851	18.851	0.000	97	903996	2.00	2.25	
108 Undecane	57	19.207	19.207	0.000	91	454079	2.00	2.11	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.234	19.234	0.000	96	909231	2.00	2.84	
110 1,2-Dibromo-3-Chloropropan	157	19.304	19.304	0.000	96	206309	2.00	1.94	
111 1,2,4,5-Tetramethylbenzene	119	19.633	19.633	0.000	96	992789	2.00	2.58	
112 1,2,3,5-Tetramethylbenzene	119	19.687	19.687	0.000	94	599094	2.00	2.59	
113 1,2,3,4-Tetramethylbenzene	119	20.080	20.080	0.000	96	799440	2.00	2.53	
114 Dodecane	57	20.274	20.274	0.000	91	424466	2.00	2.23	
115 1,2,4-Trichlorobenzene	180	20.415	20.415	0.000	94	545392	2.00	2.50	
116 Naphthalene	128	20.544	20.544	0.000	98	1091477	2.00	2.39	
117 Benzo(b)thiophene	134	20.641	20.641	0.000	99	670684	2.00	2.52	
118 Hexachlorobutadiene	225	20.771	20.771	0.000	94	536166	2.00	2.49	
119 1,2,3-Trichlorobenzene	180	20.819	20.819	0.000	94	528504	2.00	2.56	
120 2-Methylnaphthalene	142	21.617	21.617	0.000	99	497696	6.25	5.24	
121 1-Methylnaphthalene	142	21.795	21.795	0.000	99	494341	6.25	5.23	
A 122 C6 Range	1	7.348	(7.308-7.388)		0	917283	2.00	1.96	
A 124 Toluene Range	1	13.011	(12.976-13.046)		0	1290064	2.00	2.20	
S 126 Xylenes, Total	100				0		6.00	6.55	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.06	

Reagents:

40CV101S_00035

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Laboratories

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GCCVC28A-LCS.d

Injection Date: 28-Mar-2017 13:07:30

Instrument ID: MG

Operator ID: 7126

Lims ID: LCS

Worklist Smp#: 1006

Client ID:

Purge Vol: 500.000 mL

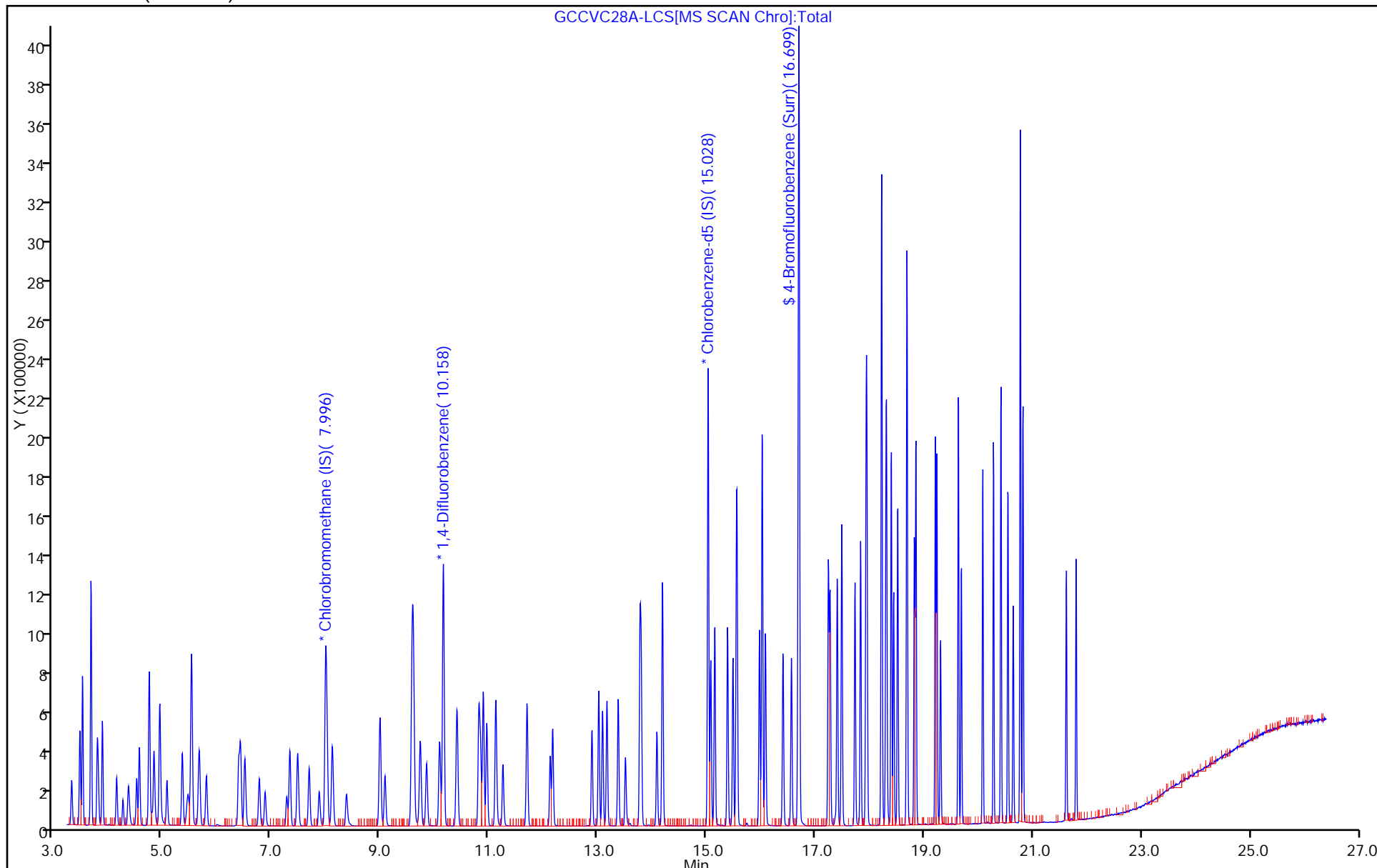
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Laboratories
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\GCCVC28A-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 28-Mar-2017 13:07:30 ALS Bottle#: 15 Worklist Smp#: 1006
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004429-002
 Misc. Info.: S35
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20170327-4429.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 29-Mar-2017 10:55:34 Calib Date: 15-Mar-2017 20:21:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20170315-4323.b\GC15IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: tajh Date: 29-Mar-2017 10:55:34

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.35	108.80

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1

SDG No.: _____

Instrument ID: MG Start Date: 03/15/2017 14:04

Analysis Batch Number: 9482 End Date: 03/15/2017 21:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-9482/1		03/15/2017 14:04	1	GBFBC15.D	RTX-5 0.32 (mm)
IC 140-9482/3		03/15/2017 14:36	1	GC15IC01.D	RTX-5 0.32 (mm)
IC 140-9482/4		03/15/2017 15:20	1	GC15IC02.D	RTX-5 0.32 (mm)
IC 140-9482/5		03/15/2017 16:02	1	GC15IC03.D	RTX-5 0.32 (mm)
IC 140-9482/6		03/15/2017 16:45	1	GC15IC04.D	RTX-5 0.32 (mm)
IC 140-9482/7		03/15/2017 17:29	1	GC15IC05.D	RTX-5 0.32 (mm)
ICIS 140-9482/8		03/15/2017 18:13	1	GC15IC06.D	RTX-5 0.32 (mm)
IC 140-9482/9		03/15/2017 18:56	1	GC15IC07.D	RTX-5 0.32 (mm)
IC 140-9482/10		03/15/2017 19:39	1	GC15IC08.D	RTX-5 0.32 (mm)
IC 140-9482/11		03/15/2017 20:21	1	GC15IC09.D	RTX-5 0.32 (mm)
ICV 140-9482/13		03/15/2017 21:46	1	GICVC15.D	RTX-5 0.32 (mm)

170315.ZZZ

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	psia	Date	Time
BFB	16 - 101 mL	34.3	3/15/2017	2:04:08 PM
ICAL01	1 - 101 mL	35.6	3/15/2017	2:36:45 PM
ICAL02	1 - 201 mL	35.4	3/15/2017	3:20:37 PM
ICAL03	2 - 201 mL	34.7	3/15/2017	4:02:35 PM
ICAL04	3 - 201 mL	34.9	3/15/2017	4:45:20 PM
ICAL05	4 - 201 mL	35	3/15/2017	5:29:49 PM
ICAL06	5 - 201 mL	34.9	3/15/2017	6:13:24 PM
ICAL07	6 - 201 mL	33.2	3/15/2017	6:56:24 PM
ICAL08	7 - 201 mL	31.1	3/15/2017	7:39:21 PM
ICAL09	8 - 201 mL	34.7	3/15/2017	8:21:54 PM
PRIME	9 - 51 mL	33.8	3/15/2017	9:03:56 PM
ICV	9 - 101 mL	33.1	3/15/2017	9:45:59 PM
PRIME	15 - 52 mL	33.8	3/15/2017	10:28:06 PM
LCS	15 - 101 mL	33.5	3/15/2017	11:10:25 PM
MB	16 - 500 mL	33.6	3/15/2017	11:56:20 PM
MB	16 - 500 mL	32.9	3/16/2017	12:42:02 AM
MDL	1 - 50 mL	35.4	3/16/2017	1:24:20 AM

MG WL 4323

TestAmerica Knoxville GC/MS Air - Initial Calibration Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 17 & KNOX-MS-0023, Rev 2

Analysis Date:	3/15/17	Instrument:	HG	Chrom WL #:	4323	TALS Batch & Event #	TO14/15: 9482962 DOD: 9502 / 964	AFCEE: 9503 / 965 OHIO: 9501 / 963						
Chrom/Worklist Review						1 st	Comments	2 nd						
1. Re-read each Limit Group [method editor-limit groups]						/								
2. Verify LODV in Chrom [method editor -> LOD -> LODV]						/								
3. 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]						/		✓						
4. Files linked properly to calibration levels? [Sample List- Lab ID vs. Info]						/		✓						
5. Did BFB meet tune criteria? [F8]						/		✓						
6. Were all standards injected within 24 hr of BFB? [F7]						/		✓						
7. High point checked for saturation and point removed if so? [Chrom]						✓	#98, #101, #111, #116	✓						
8. If manual integrations performed, are they properly performed, correct, baseline clearly identified, and correct reason given? [Chrom]						/		NA						
9. RT for each IS +20 sec avg. RT? [F6 IstdRec]						/		✓						
10. Area for each IS + 40% avg. area? [F6 IstdRec]						/		✓						
11. Each analyte ± 0.06 RRT of avg. RRT? [F6 - RRT]						/		✓						
12. Elution order checked on isomeric pairs? [Chrom]						/		✓						
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane						/		✓						
• 2-methyl butane / acrolein						/		✓						
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane						/		✓						
• vinyl acetate / hexane						/		✓						
• 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						/		✓						
13. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?						/	C6, to 1, (NO C8)	✓						
MLG Review						TO	AFC	DOD	OH	Comments	TO	AFC	DOD	OH
14. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%) 1& 2 methylnaphthalene ≤ 50% [F6 Σ]						✓	✓	✓	✓		✓	✓	✓	✓
15. Were at least 5 levels of each compound analyzed? [F6]						✓	✓	✓	✓		✓	✓	✓	✓
16. Is low level std at or <RL and are the remaining points consec.? [F6]						✓	✓	✓	✓		✓	✓	✓	✓
17. 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	→	→	
18. If curves were used, is correlation coefficient >0.990? [F6]						✓	✓	✓	✓	NA	NA	→	→	
19. Is the intercept less than the RL for each curve? [F6]						✓	✓	✓	✓	NA	NA	→	→	
20. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous. [Ctrl-C, details]						✓	✓	✓	✓	NA	NA	→	→	
21. Is the second source analysis within limits? [F8 - iev]						✓	✓	✓	✓	IPA 62%	✓	✓	✓	✓
22. Analyst/Date:						3/15/17				2nd Level Reviewer/Date:	Jrs 3/16/17			
Comments:														
TALS Review						TO	AFC	DOD	OH	Comments	TO	AFC	DOD	OH
23. Upload ICAL						✓	✓	✓	✓		✓	✓	✓	✓
24. Graphics uploaded? [Sample List Tab]						✓	✓	✓	✓		✓	✓	✓	✓
25. All points are in the most recent active calibration event? [Calibration Events --'Fix ICAL linkage' if needed]						✓	✓	✓	✓		✓	✓	✓	✓
26. Runs linked to BFB? [QC Links]						✓	✓	✓	✓		✓	✓	✓	✓
27. If criteria not met, was a NCM generated?						✓	✓	✓	✓		✓	✓	✓	✓
28. After review in TALS, approve the method in TALS.						✓	✓	✓	✓		✓	✓	✓	✓
29. After verifying TALS is correct, lock method in Chrom <resolve any error issue>						✓	✓	✓	✓		✓	✓	✓	✓
30. Checklist & Entech report scanned, attached & assigned properly						✓	✓	✓	✓		✓	✓	✓	✓
Analyst:						3/16/17				2nd Level Reviewer:	Jrs 3/16/17			
Date:														
Comments: UR8 (5) sec-butylbenz., 4 FPHD.														
IMSTHBE, N4PL.														

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/24/2017 11:04

Analysis Batch Number: 9602 End Date: 03/25/2017 00:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-9602/1		03/24/2017 11:04	1	JBFBC24.D	RTX-5 0.32 (mm)
IC 140-9602/2		03/24/2017 11:31	1	JC24IC01.D	RTX-5 0.32 (mm)
140-7158-A-1 MDLV		03/24/2017 11:31	1		RTX-5 0.32 (mm)
IC 140-9602/3		03/24/2017 12:16	1	JC24IC02.D	RTX-5 0.32 (mm)
140-7158-A-2 MDLV		03/24/2017 12:16	1		RTX-5 0.32 (mm)
IC 140-9602/4		03/24/2017 13:02	1	JC24IC03.D	RTX-5 0.32 (mm)
140-7158-A-3 MDLV		03/24/2017 13:02	1		RTX-5 0.32 (mm)
IC 140-9602/5		03/24/2017 13:48	1	JC24IC04.D	RTX-5 0.32 (mm)
140-7158-A-4 MDLV		03/24/2017 13:48	1		RTX-5 0.32 (mm)
IC 140-9602/6		03/24/2017 14:35	1	JC24IC05.D	RTX-5 0.32 (mm)
140-7158-A-5 MDLV		03/24/2017 14:35	1		RTX-5 0.32 (mm)
ICIS 140-9602/7		03/24/2017 15:21	1	JC24IC06.D	RTX-5 0.32 (mm)
IC 140-9602/8		03/24/2017 16:06	1	JC24IC07.D	RTX-5 0.32 (mm)
IC 140-9602/9		03/24/2017 16:50	1	JC24IC08.D	RTX-5 0.32 (mm)
IC 140-9602/10		03/24/2017 17:35	1	JC24IC09.D	RTX-5 0.32 (mm)
ICV 140-9602/18		03/24/2017 23:36	1	JLCSC24.D	RTX-5 0.32 (mm)
ZZZZZ		03/25/2017 00:49	1		RTX-5 0.32 (mm)

170324

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	psia	Date	Time
BFB	16 - 101 mL	29.7	3/24/2017	11:04:02 AM
IC01	1 - 101 mL	29.8	3/24/2017	11:31:44 AM
IC02	1 - 200 mL	29.1	3/24/2017	12:16:31 PM
IC03	2 - 200 mL	33.7	3/24/2017	1:02:15 PM
IC04	3 - 200 mL	33.5	3/24/2017	1:48:55 PM
IC05	4 - 200 mL	33.8	3/24/2017	2:35:43 PM
IC06	5 - 202 mL	33.7	3/24/2017	3:21:01 PM
IC07	6 - 201 mL	31.6	3/24/2017	4:06:02 PM
IC08	7 - 201 mL	30.4	3/24/2017	4:50:55 PM
IC09	8 - 201 mL	33.4	3/24/2017	5:35:41 PM
PRIME	9 - 22 mL	32.1	3/24/2017	6:20:22 PM
ICV	9 - 101 mL	30.9	3/24/2017	7:05:43 PM
EXPSTD10	10 - 21 mL	22.8	3/24/2017	7:51:45 PM
EXPSTD11	11 - 20 mL	20	3/24/2017	8:36:33 PM
EXPSTD12	12 - 21 mL	20.5	3/24/2017	9:21:26 PM
EXPSTD13	13 - 21 mL	28	3/24/2017	10:06:05 PM
EXPSTD14	14 - 20 mL	26	3/24/2017	10:51:04 PM
LCS	15 - 101 mL	27.6	3/24/2017	11:36:04 PM

MJ WL 4355 ICAL

TestAmerica Knoxville GC/MS Air - Initial Calibration Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 17 & KNOX-MS-0023, Rev 2

Analysis Date:	3/24/17	Instrument:	MJ	Chrom WL #:	4355	TALS Batch & Event #	TO14/15: 9602 / 938	AFCEE: 9743 / 981											
							DOD: 9742 / 980	OHIO: 9741 / 979											
Chrom/Worklist Review						1 st	Comments		2 nd										
1. Re-read each Limit Group [method editor-limit groups]						✓													
2. Verify LODV in Chrom [method editor -> edit -> MDL]						✓													
3. 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]						✓			/										
4. Files linked properly to calibration levels? [Sample List- Lab ID vs. Info]						✓			/										
5. Did BFB meet tune criteria? [F8]						✓			/										
6. Were all standards injected within 24 hr of BFB? [F7]						✓			/										
7. High point checked for saturation and point removed if so? [Chrom]						✓			/										
8. If manual integrations performed, are they properly performed, correct, baseline clearly identified, and correct reason given? [Chrom]						✓	✓		/										
9. RT for each IS +20 sec avg. RT? [F6 IstdRec]						✓			/										
10. Area for each IS + 40% avg. area? [F6 IstdRec]						✓			/										
11. Each analyte ± 0.06 RRT of avg. RRT? [F6 - RRT]						✓			/										
12. Elution order checked on isomeric pairs? [Chrom]																			
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane						✓			/										
• 2-methyl butane / acrolein						✓			/										
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane						✓			/										
• vinyl acetate / hexane						✓			/										
• 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						✓			/										
13. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?						✓	DNU TPH as C6.		/										
MLG Review						TO-	AFC	DOD	OH	Comments	TO-	AFC	DOD	OH					
14. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%) 1 & 2 methylnaphthalene ≤ 50% [F6 Σ _i]						✓	✓	✓	✓		✓	✓	✓	✓					
15. Were at least 5 levels of each compound analyzed? [F6]						✓	✓	✓	✓		✓	✓	✓	✓					
16. Is low level std at or <RL and are the remaining points consec.? [F6]						✓	✓	✓	✓		✓	✓	✓	✓					
17. 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	→	→	→					
18. If curves were used, is correlation coefficient >0.990? [F6]						NA	→	→	→		NA	→	→	→					
19. Is the intercept less than the RL for each curve? [F6]						NA	→	→	→		NA	→	→	→					
20. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous. [Cntl-C, details]						NA	→	→	→		NA	→	→	→					
21. Is the second source analysis within limits? [F8 - icv]						✓	✓	✓	✓		✓	✓	✓	✓					
22. Analyst/Date:						JRS 3/25/17				2nd Level Reviewer/Date:				JH 3/27/17					
Comments:																			
TALS Review						TO-	AFC	DOD	OH	Comments	TO-	AFC	DOD	OH					
23. Upload ICAL						✓	✓	✓	✓		✓	✓	✓	✓					
24. Graphics uploaded? [Sample List Tab]						✓	✓	✓	✓		✓	✓	✓	✓					
25. All points are in the most recent active calibration event? [Calibration Events --Fix ICAL linkage if needed]						✓	✓	✓	✓		✓	✓	✓	✓					
26. Runs linked to BFB? [QC Links]						✓	✓	✓	✓		✓	✓	✓	✓					
27. If criteria not met, was a NCM generated?						NA	→	→	→		NA	→	→	→					
28. After review in TALS, approve the method in TALS.																			
29. After verifying TALS is correct, lock method in Chrom <resolve any error issues>														✓					
30. Checklist & Entech report scanned, attached & assigned properly?											✓	✓	✓	✓					
Analyst:						JRS 3/27/17				2nd Level Reviewer:				JRS 3/27/17					
Comments:																			

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1

SDG No.: _____

Instrument ID: MJ Start Date: 03/26/2017 10:56

Analysis Batch Number: 9850 End Date: 03/27/2017 04:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-9850/1		03/26/2017 10:56	1	JBFBC26.D	RTX-5 0.32 (mm)
CCVIS 140-9850/2		03/26/2017 11:22	1	JCCVC26.D	RTX-5 0.32 (mm)
LCS 140-9850/1002		03/26/2017 11:22	1	JCCVC26-LCS.d	RTX-5 0.32 (mm)
ZZZZZ		03/26/2017 13:42	1		RTX-5 0.32 (mm)
ZZZZZ		03/26/2017 14:27	1		RTX-5 0.32 (mm)
ZZZZZ		03/26/2017 15:11	1		RTX-5 0.32 (mm)
ZZZZZ		03/26/2017 15:56	1		RTX-5 0.32 (mm)
ZZZZZ		03/26/2017 16:41	151.84		RTX-5 0.32 (mm)
ZZZZZ		03/26/2017 18:13	195.1		RTX-5 0.32 (mm)
ZZZZZ		03/26/2017 18:58	1		RTX-5 0.32 (mm)
ZZZZZ		03/26/2017 19:43	1		RTX-5 0.32 (mm)
MB 140-9850/15		03/26/2017 22:05	1	JMB500C26.D	RTX-5 0.32 (mm)
140-7503-1		03/26/2017 22:52	1	JC26P101.D	RTX-5 0.32 (mm)
140-7503-2		03/26/2017 23:40	1	JC26P102.D	RTX-5 0.32 (mm)
140-7503-3		03/27/2017 00:25	46.08	JC26P103.D	RTX-5 0.32 (mm)
140-7503-4		03/27/2017 01:13	1	JC26P104.D	RTX-5 0.32 (mm)
140-7503-5		03/27/2017 02:01	1	JC26P105.D	RTX-5 0.32 (mm)
ZZZZZ		03/27/2017 02:48	1		RTX-5 0.32 (mm)
140-7503-6		03/27/2017 03:36	1	JC26P106.D	RTX-5 0.32 (mm)
140-7503-7		03/27/2017 04:23	1	JC26P107.D	RTX-5 0.32 (mm)

170326

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	psia	Date	Time
BFB	16 - 100 mL	28.3	3/26/2017	10:56:27 AM
CCV	6 - 100 mL	27.8	3/26/2017	11:22:46 AM
FLUSH	16 - 100 mL	28.3	3/26/2017	1:14:40 PM
MB200	16 - 200 mL	27.9	3/26/2017	1:42:08 PM
7591-01	8 - 200 mL	8.7	3/26/2017	2:27:03 PM
7569-01	9 - 20 mL	10.5	3/26/2017	3:11:53 PM
79748-01	10 - 200 mL	6.6	3/26/2017	3:56:42 PM
7560-01	11 - 251 mL	13.5	3/26/2017	4:41:57 PM
7572-01	12 - 101 mL	22	3/26/2017	5:27:20 PM
7572-01R	12 - 301 mL	20.3	3/26/2017	6:13:49 PM
77195-01DU	13 - 201 mL	10.9	3/26/2017	6:58:36 PM
77195-01	13 - 200 mL	9.9	3/26/2017	7:43:21 PM
CS2C10409	14 - 501 mL	9.8	3/26/2017	8:30:13 PM
CS2C11212	15 - 500 mL	16.8	3/26/2017	9:18:00 PM
MB500	16 - 501 mL	27.3	3/26/2017	10:05:47 PM
7503-01	1 - 501 mL	3.4	3/26/2017	10:52:42 PM
7503-02	2 - 500 mL	5.7	3/26/2017	11:40:33 PM
7503-03	3 - 25 mL	46.8	3/27/2017	12:25:23 AM
7503-04	4 - 500 mL	7.7	3/27/2017	1:13:26 AM
7503-05	5 - 500 mL	6.8	3/27/2017	2:01:07 AM
7503-06DU	6 - 501 mL	11	3/27/2017	2:48:41 AM
7503-06	6 - 501 mL	8.7	3/27/2017	3:36:15 AM
7503-07	7 - 500 mL	4.8	3/27/2017	4:23:34 AM

MJ WL 4417

TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 17 & KNOX-MS-0023, Rev 2

Page 1 of 2

Instrument/Date	<u>Routine</u>	<u>AFCEE</u>	<u>DOD</u>	<u>OHIO</u>
CCAL Chrom WL # <u>4417</u>	CCAL Batch # <u>9850</u>	<u>MA</u>	<u>MA</u>	<u>MA</u>
ICAL Chrom WL # <u>4355</u>	ICAL Batch # / Event # <u>9602, 978</u>			
Chrom Review	1 st	If No, why is data reportable?		2 nd
1. Are the reagents & init/final volumes correct? (Verify reagents & amt. injected) [WL Sample Reagent Tab]	/			✓
2. Did BFB meet tune criteria? [F8]	/	<input type="checkbox"/> [Failed TO-14A, but passes TO-15] (NCM# _____)		✓
3. Was the CCAL compared to the most recent & correct ICAL (correct last ICAL File batch #/start/end Cal date/time)? [F8]	/			✓
4. Is the %D ≤ 30% for all target analytes? [≤ 40% for AFCEE non-table analytes] [≤ 50% for 1&2 methylnaphthalene] [Chrom-F8] [TALS-Sample Results Tab]	/	<input type="checkbox"/> CCV - %D - LCS criteria met (NCM# _____) <input type="checkbox"/> CCV - %D high - outside criteria, samples ND, Sample IDs Included (NCM# _____)		✓
5. Elution order checked on isomeric pairs? [Chrom]	/			✓
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane	/			✓
• 2-methyl butane / acrolein	/			✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane	/			✓
• vinyl acetate / hexane	/			✓
• 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-trichlorobenzene/1,2,3-trichlorobenzene	/			✓
• 2-, and 1-methylnaphthalene	/			✓
6. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?	ng			MA
7. Has the RT been updated to the method?	Date: <u>3/28/17</u>	2nd Level Reviewer: <u>AS</u>	Date: <u>3/28/17</u>	
Analyst:	Comments:			
8. Has the vol injected been verified vs Entech & corrected if actual amount differs >5%? [WL Sample Info: init amt * sample amt; final amt = 500 mL]	/			✓
9. Do the lab ID, Info 1 and Dilution Factor columns correlate in Chrom? [Sample List - Lab ID vs. Info 1 vs. Dilution]	/			✓
10. Were all samples/QC analyzed within 24 hr of BFB? [F7]	/			✓
11. Are all analytes present in the system blank < RL? (<1/2 RL for DoD). If no, list blank ID: <u>mcl (3) 3660-39748</u>	/	<input type="checkbox"/> Method Blank - Report, ND (NCM# _____) <u>ncm#</u> <input type="checkbox"/> Method Blank - Report, 10X (NCM# _____) <u>7046</u>		✓
12. All runs - peaks ID'd correctly and false positives removed?	/			✓
13. If manual integrations performed, are they properly performed, correctly ID'd, baseline clearly identified, and reason given?	/			✓
14. IS/Surr within limits? List samples and reason (e.g., 1 thru 5): [Batch Results IS & SUR Tab]	/	<input type="checkbox"/> (1) Surrogate - Matrix (NCM# _____) <input type="checkbox"/> (2) Surrogate - High, ND (NCM# _____) <input type="checkbox"/> (3) ISTD - RA/RA Concur (NCM# _____) <input type="checkbox"/> (4) Surrogate - RX concur, Report both (NCM# _____) <input type="checkbox"/> (5) ISTD - Matrix, DL required (NCM# _____)		✓
15. Samples outside calibration range scheduled for dilution? Samples:	/	<input type="checkbox"/> ICAL - Range Exceeded; Minimum Dilution		✓
Chrom Review	1 st	If No, why is data reportable?		2 nd
16. For first analysis that is at a dilution, is highest target analyte >20% cal range? List samples and reason:	/	<input type="checkbox"/> (1) Reporting Limit - Dilution, Matrix (NCM# _____) <input type="checkbox"/> (2) Reporting Limit - Dilution, Non-Target (NCM# _____) <input type="checkbox"/> (3) Issues with initial collection volume; see DRC.		✓
Sample Reason Sample Reason	ng	<u>7569 (1L)</u>		MA
17. RIC inspected for proper integration for TPH?	/			MA
18. Obvious non-TPH peaks excluded?	/			MA

TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 17 & KNOX-MS-0023, Rev 2

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19. Individual TPH peak area < octane high point area?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
TALS Review	1st	If No, why is data reportable?	2nd														
20. Graphics uploaded? [Sample List Tab]	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
21. Undiluted volume analyzed meets the method requirement (200 mL vs. 500 mL)?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
22. Sample special instructions verified?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
23. 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: No LCS required for OH VAP.	<input checked="" type="checkbox"/>	<input type="checkbox"/> Marginal Exceedances - Within ME Limits and Random; Report (NCM# ___) <input checked="" type="checkbox"/> LCS/LCSD - %R High (NCM# _____)	<input checked="" type="checkbox"/>														
<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																
24. Suffixes assigned properly (DL/RE)? [Sample List Tab]	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
25. Each job has QC created (BFB, CCV, LCS, MB)? [Sample List Tab]	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
26. Analytes over calibration range set to secondary [Conditions Review Tab]	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
27. Samples not reported set to 'Acceptable' or 'Rejected'? [Sample Results Tab]	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
28. 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)	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
29. Samples linked to proper blank (200 mL or 500 mL)? [QC links]	<input checked="" type="checkbox"/>	500 mL blank ID: 15 ✓ 200 mL blank ID: 4 ✓	<input checked="" type="checkbox"/>														
30. Samples linked to job's BFB/CCV/LCS/MB? [QC Links]	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
31. Correct ICV linked to each MB? [QC Links]	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
32. If criteria were not met, was a NCM generated, and assigned to proper QC & samples? [Also see Conditions Review Tab]	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
33. Runs set to 1 st level review?	<input checked="" type="checkbox"/>	Runs set to 2 nd level review?	<input checked="" type="checkbox"/>														
34. QC checker run and items addressed?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
35. Checklist & Entech report scanned, attached & assigned properly?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														

Analyst: [Signature]	Date: 3/27/17	2nd Level Reviewer: [Signature]	Date: 3/28/17
Comments: intake 79748 NCM 7077 ✓		Comments: [Signature] 3/28/17	

Example Calculation: 7500-1 PL0

On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF

7,0066 x 25mL x 19.84 = 2127.76

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1

SDG No.: _____

Instrument ID: MG Start Date: 03/28/2017 12:36

Analysis Batch Number: 9922 End Date: 03/29/2017 10:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-9922/5		03/28/2017 12:36	1	GBFBC28A.D	RTX-5 0.32 (mm)
CCVIS 140-9922/6		03/28/2017 13:07	1	GCCVC28A.D	RTX-5 0.32 (mm)
LCS 140-9922/1006		03/28/2017 13:07	1	GCCVC28A-LCS.d	RTX-5 0.32 (mm)
MB 140-9922/8		03/28/2017 16:44	1	GMB500C28.D	RTX-5 0.32 (mm)
ZZZZZ		03/28/2017 17:26	1		RTX-5 0.32 (mm)
ZZZZZ		03/28/2017 18:11	1.54		RTX-5 0.32 (mm)
ZZZZZ		03/28/2017 18:57	1.55		RTX-5 0.32 (mm)
ZZZZZ		03/28/2017 19:44	1.59		RTX-5 0.32 (mm)
ZZZZZ		03/28/2017 20:28	1.78		RTX-5 0.32 (mm)
ZZZZZ		03/28/2017 21:15	1.58		RTX-5 0.32 (mm)
ZZZZZ		03/28/2017 22:00	1.46		RTX-5 0.32 (mm)
ZZZZZ		03/28/2017 22:45	1.54		RTX-5 0.32 (mm)
ZZZZZ		03/28/2017 23:30	1.43		RTX-5 0.32 (mm)
ZZZZZ		03/29/2017 00:14	1.48		RTX-5 0.32 (mm)
ZZZZZ		03/29/2017 00:58	1.53		RTX-5 0.32 (mm)
ZZZZZ		03/29/2017 01:41	1.53		RTX-5 0.32 (mm)
ZZZZZ		03/29/2017 02:23	1		RTX-5 0.32 (mm)
140-7503-4 DL		03/29/2017 03:05	1	GC28P112.D	RTX-5 0.32 (mm)
140-7503-5 DL		03/29/2017 03:47	1	GC28P113.D	RTX-5 0.32 (mm)
140-7503-7 DL		03/29/2017 04:28	1	GC28P114.D	RTX-5 0.32 (mm)
ZZZZZ		03/29/2017 05:12	3.93		RTX-5 0.32 (mm)
ZZZZZ		03/29/2017 09:43	1		RTX-5 0.32 (mm)
ZZZZZ		03/29/2017 10:28	1		RTX-5 0.32 (mm)

170328.ZZZ

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	psia	Date	Time
BFB	16 - 100 mL	31.9	3/28/2017	12:36:14 PM
CCVIS	15 - 101 mL	24.4	3/28/2017	1:07:51 PM
DNULEAK	16 - 20 mL	31.9	3/28/2017	4:09:20 PM
BLANK	16 - 501 mL	28.2	3/28/2017	4:44:06 PM
BLANK	16 - 202 mL	31.1	3/28/2017	5:26:07 PM
7627-01	1 - 309 mL	11.4	3/28/2017	6:11:33 PM
7627-02	2 - 311 mL	12.7	3/28/2017	6:57:51 PM
7627-03	3 - 319 mL	12.3	3/28/2017	7:44:00 PM
7627-05	4 - 357 mL	12.7	3/28/2017	8:28:04 PM
7627-06	5 - 317 mL	12.8	3/28/2017	9:15:30 PM
7627-08	6 - 292 mL	11	3/28/2017	10:00:17 PM
7627-09	7 - 309 mL	11.7	3/28/2017	10:45:44 PM
7627-10	8 - 287 mL	12.4	3/28/2017	11:30:18 PM
7627-11	9 - 297 mL	13.1	3/29/2017	12:14:04 AM
7627-12	10 - 307 mL	12.5	3/29/2017	12:58:39 AM
7627-12	10 - 307 mL	11.5	3/29/2017	1:41:09 AM
7567-04	11 - 100 mL	7.8	3/29/2017	2:23:16 AM
7503-04	12 - 50 mL	9	3/29/2017	3:05:07 AM
7503-05	13 - 40 mL	8.3	3/29/2017	3:47:42 AM
7503-07	14 - 50 mL	7.2	3/29/2017	4:28:52 AM
7601-02	15 - 197 mL	12.3	3/29/2017	5:12:48 AM
7627-04	1 - 200 mL	11.7	3/29/2017	9:43:33 AM
7627-07	2 - 200 mL	10.1	3/29/2017	10:28:49 AM

MG WL 4429

TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 17 & KNOX-MS-0023, Rev 2

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Instrument/Date	M6 3/28/17	Routine	AFCEE	DOD	OHIO
CCAL Chrom WL #	4429	CCAL Batch #	9922		
ICAL Chrom WL #	4323	ICAL Batch # / Event #	9482 / 962	/	/
Chrom Review		1st	If No, why is data reportable?		2nd
1. Are the reagents & init/final volumes correct? (Verify reagents & amt. injected) [WL Sample Reagent Tab]		/			/
2. Did BFB meet tune criteria? [F8]		/	<input type="checkbox"/> [Failed TO-14A, but passes TO-15] (NCM# _____)		/
3. Was the CCAL compared to the most recent & correct ICAL (correct last ICAL File batch #/start/end Cal date/time)? [F8]		/			/
4. Is the %D ≤ 30% for all target analytes? [≤ 40% for AFCEE non-table analytes] [≤ 50% for 1&2 methylnaphthalene] [Chrom-F8] [TALS-Sample Results Tab]		/	<input type="checkbox"/> CCV - %D - LCS criteria met (NCM# _____) <input type="checkbox"/> CCV - %D high - outside criteria, samples ND, Sample IDs Included (NCM# _____)		/
5. Elution order checked on isomeric pairs? [Chrom]		/			/
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane		/			/
• 2-methyl butane / acrolein		/			/
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane		/			/
• vinyl acetate / hexane		/			/
• 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-trichlorobenzene/1,2,3-trichlorobenzene		/			/
• 2-, and 1-methylnaphthalene		/			/
6. "Range" analytes & internal standard RIC ID'd correctly, inspected for interferences & proper integration?		/			/
7. Has the RT been updated to the method?		/			/
Analyst:	[Signature]	Date:	3/28/17	2nd Level Reviewer:	[Signature]
Comments:				Date:	03/29/17
8. Has the vol injected been verified vs Entech & corrected if actual amount differs >5%? [WL Sample Info: init amt = sample amt; final amt = 500 mL]		/			/
9. Do the lab ID, Info 1 and Dilution Factor columns correlate in Chrom? [Sample List - Lab ID vs. Info 1 vs. Dilution]		/			/
10. Were all samples/QC analyzed within 24 hr of BFB? [F7]		/			/
11. Are all analytes present in the system blank < RL? (<1/2 RL for DoD). If no, list blank ID:		/	<input type="checkbox"/> Method Blank - Report, ND (NCM# _____) <input type="checkbox"/> Method Blank - Report, 10X (NCM# _____)		/
12. All runs - peaks ID'd correctly and false positives removed?		/			/
13. If manual integrations performed, are they properly performed, correctly ID'd, baseline clearly identified, and reason given?		/			/
14. IS/Surr within limits? List samples and reason (e.g., 1 thru 5): [Batch Results IS & SUR Tab]		/	<input type="checkbox"/> (1) Surrogate - Matrix (NCM# _____) <input type="checkbox"/> (2) Surrogate - High, ND (NCM# _____) <input type="checkbox"/> (3) ISTD - RA/RA Concur (NCM# _____) <input type="checkbox"/> (4) Surrogate -RX concur, Report both (NCM# _____) <input type="checkbox"/> (5) ISTD - Matrix, DL required (NCM# _____)		/
Sample Reason Sample Reason					
15. Samples outside calibration range scheduled for dilution? Samples:		/	<input type="checkbox"/> ICAL - Range Exceeded; Minimum Dilution		/
Chrom Review		1st	If No, why is data reportable?		2nd
16. For first analysis that is at a dilution, is highest target analyte >20% cal range? List samples and reason: Sample Reason Sample Reason		/	<input type="checkbox"/> (1) Reporting Limit - Dilution, Matrix (NCM# _____) <input type="checkbox"/> (2) Reporting Limit - Dilution, Non-Target (NCM# _____) <input type="checkbox"/> (3) Issues with initial collection volume; see DRC.		/
17. RIC inspected for proper integration for TPH?		/			/
18. Obvious non-TPH peaks excluded?		/			/

TestAmerica Knoxville GC/MS Air - Batch Data Review Checklist
Methods: TO-14 and TO-15 - KNOX-MS-0001, Rev 17 & KNOX-MS-0023, Rev 2

Page 2 of 2

19. Individual TPH peak area < octane high point area?	M		M														
TALS Review	1 st	If No, why is data reportable?	2 nd														
20. Graphics uploaded? [Sample List Tab]	/		/														
21. Undiluted volume analyzed meets the method requirement (200 mL vs. 500 mL)?	/		/														
22. Sample special instructions verified?	/		/														
23. 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: No LCS required for OH VAP.	/	<input type="checkbox"/> Marginal Exceedances - Within ME Limits and Random; Report (NCM# ___) <input type="checkbox"/> LCS/LCSD - %R High (NCM# _____)	/														
<table border="1" style="width:100%; border-collapse: collapse; margin-left: 20px;"> <thead> <tr> <th style="width:50%;">Number of target analytes in LCS</th> <th style="width:50%;"># marginal exceedances of LCS control limits allowed</th> </tr> </thead> <tbody> <tr><td style="text-align:center;">>90</td><td style="text-align:center;">5</td></tr> <tr><td style="text-align:center;">71 - 90</td><td style="text-align:center;">4</td></tr> <tr><td style="text-align:center;">51 - 70</td><td style="text-align:center;">3</td></tr> <tr><td style="text-align:center;">31 - 50</td><td style="text-align:center;">2</td></tr> <tr><td style="text-align:center;">11 - 30</td><td style="text-align:center;">1</td></tr> <tr><td style="text-align:center;"><11</td><td style="text-align:center;">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																
24. Suffixes assigned properly (DL/RE)? [Sample List Tab]	/		/														
25. Each job has QC created (BFB, CCV, LCS, MB)? [Sample List Tab]	/		/														
26. Analytes over calibration range set to secondary [Conditions Review Tab]	/		/														
27. Samples not reported set to 'Acceptable' or 'Rejected'? [Sample Results Tab]	/		/														
28. 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)	/		/														
29. Samples linked to proper blank (200 mL or 500 mL)? [QC links]	/	500 mL blank ID: <u>8</u> 200 mL blank ID: <u>9</u>	/														
30. Samples linked to job's BFB/CCV/LCS/MB? [QC Links]	/		/														
31. Correct ICV linked to each MB? [QC Links]	/		/														
32. If criteria were not met, was a NCM generated, and assigned to proper QC & samples? [Also see Conditions Review Tab]	/		/														
33. Runs set to 1 st level review?	/	Runs set to 2 nd level review?	/														
34. QC checker run and items addressed?	/		/														
35. Checklist & Entech report scanned, attached & assigned properly?	/		/														

Analyst: <u>[Signature]</u>	Date: <u>3/29/13</u>	2nd Level Reviewer: <u>[Signature]</u>	Date: <u>032913</u>
Comments:		Comments:	
Example Calculation:	<u>7601-2</u>	<u>70</u>	
On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF			
<u>5.7322 x 197 x 3.93 = 57.18</u>			

Summa Canister Dilution Worksheet

Client: New York State D.E.C.

Job No.: 140-7503-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Date	Time	Analyst
140-7503-3	6	-5.0	0.83	5.00	29.7	3.02	18.12		3.63	3.63	03/20/17	12:30	Goss, Scot E
140-7503-3	6	-5.4	0.82	4.92	29.6	3.01	18.08		3.68	13.34	03/20/17	12:35	Goss, Scot E
140-7503-3	6	0.0	1.00	6.00	36.1	3.46	20.73		3.46	46.08	03/20/17	12:37	Goss, Scot E

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg

Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig

Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury ("Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

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

Lab Name: TestAmerica Knoxville Job No.: 140-7224-1
 SDG No.: _____
 Client Sample ID: 11150 Lab Sample ID: 140-7224-5
 Matrix: Air Lab File ID: JB26lot7224.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2017 08:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/26/2017 14:55
 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.: 8842 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.: 140-7224-1
 SDG No.: _____
 Client Sample ID: 11150 Lab Sample ID: 140-7224-5
 Matrix: Air Lab File ID: JB26lot7224.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2017 08:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/26/2017 14:55
 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.: 8842 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		2.0	
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.: 140-7224-1
 SDG No.: _____
 Client Sample ID: 11150 Lab Sample ID: 140-7224-5
 Matrix: Air Lab File ID: JB26lot7224.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2017 08:00
 Sample wt/vol: 500(mL) Date Analyzed: 02/26/2017 14:55
 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.: 8842 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-Butadine	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.: 140-7224-1
 SDG No.: _____
 Client Sample ID: 11150 Lab Sample ID: 140-7224-5
 Matrix: Air Lab File ID: JB26lot7224.D
 Analysis Method: TO 15 LL Date Collected: 02/24/2017 08:00
 Sample wt/vol: 500 (mL) Date Analyzed: 02/26/2017 14:55
 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.: 8842 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: \\ChromNA\Knoxville\ChromData\MJ\20170222-4121.b\JB26lot7224.D
 Lims ID: 140-7224-A-5
 Client ID: 11150
 Sample Type: Client
 Inject. Date: 26-Feb-2017 14:55:30 ALS Bottle#: 14 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004121-005
 Misc. Info.: 11150
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170222-4121.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Feb-2017 08:56:44 Calib Date: 26-Nov-2016 01:58:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20161121-3656.b\JK25IC09X.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: barlozhetskayaa Date: 26-Feb-2017 15:44:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.569	8.569	0.000	99	377801	4.00	
* 2 1,4-Difluorobenzene	114	10.769	10.769	0.000	94	1688365	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.546	15.546	0.000	86	1373688	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.192	17.192	0.000	95	710587	3.27	
31 Methylene Chloride	84	6.051	6.057	-0.006	94	7788	0.0699	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170222-4121.b\JB26lot7224.D

Injection Date: 26-Feb-2017 14:55:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-7224-A-5

Lab Sample ID: 140-7224-5

Worklist Smp#: 5

Client ID: 11150

Purge Vol: 500.000 mL

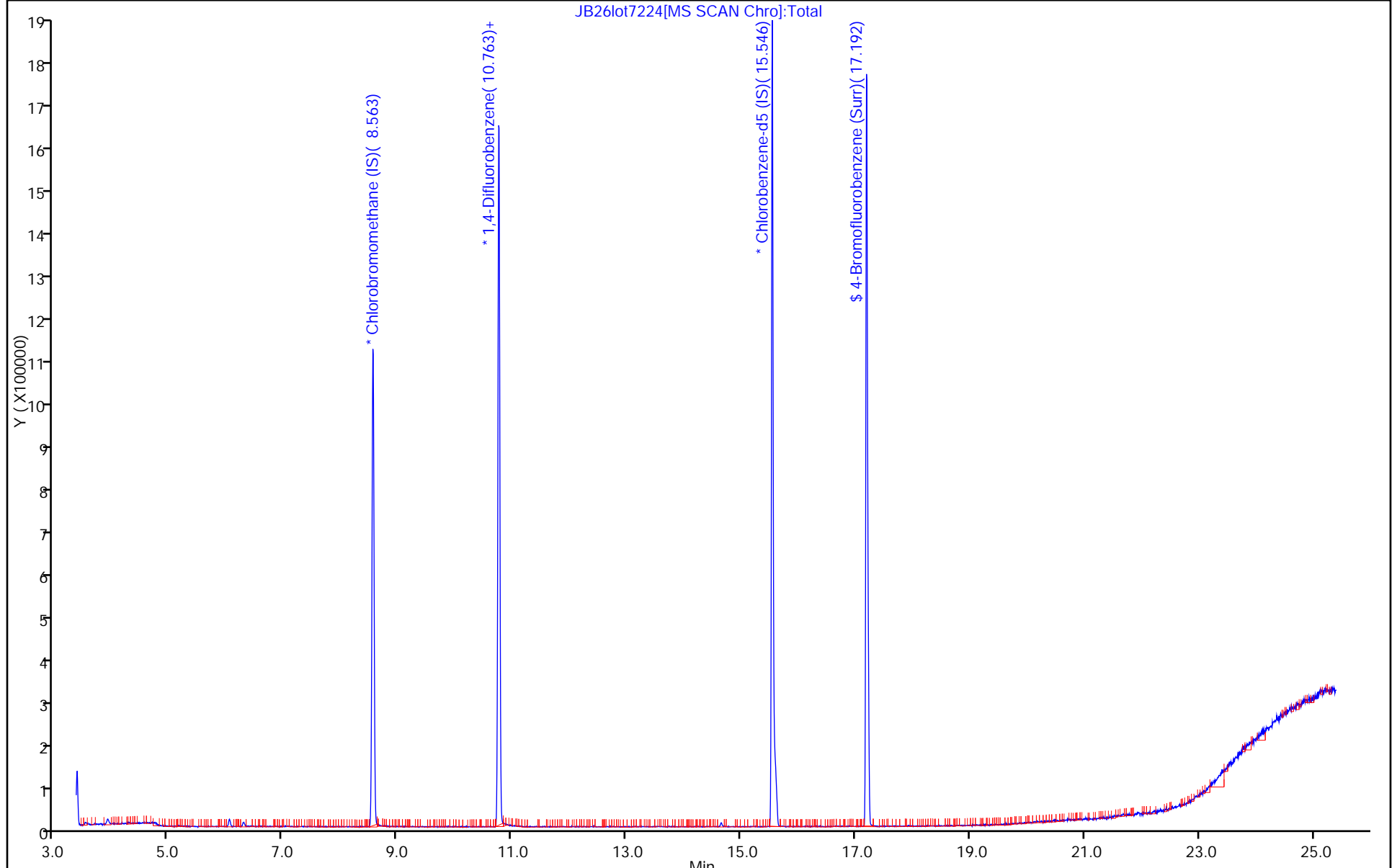
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



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

Lab Name: TestAmerica Knoxville Job No.: 140-7248-1
 SDG No.: _____
 Client Sample ID: 10026 Lab Sample ID: 140-7248-7
 Matrix: Air Lab File ID: JB26lot7248.D
 Analysis Method: TO 15 LL Date Collected: 02/25/2017 12:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/26/2017 15:42
 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.: 8842 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.: 140-7248-1
 SDG No.: _____
 Client Sample ID: 10026 Lab Sample ID: 140-7248-7
 Matrix: Air Lab File ID: JB26lot7248.D
 Analysis Method: TO 15 LL Date Collected: 02/25/2017 12:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/26/2017 15:42
 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.: 8842 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		2.0	
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.: 140-7248-1
 SDG No.: _____
 Client Sample ID: 10026 Lab Sample ID: 140-7248-7
 Matrix: Air Lab File ID: JB26lot7248.D
 Analysis Method: TO 15 LL Date Collected: 02/25/2017 12:15
 Sample wt/vol: 500(mL) Date Analyzed: 02/26/2017 15:42
 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.: 8842 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.: 140-7248-1
 SDG No.: _____
 Client Sample ID: 10026 Lab Sample ID: 140-7248-7
 Matrix: Air Lab File ID: JB26lot7248.D
 Analysis Method: TO 15 LL Date Collected: 02/25/2017 12:15
 Sample wt/vol: 500 (mL) Date Analyzed: 02/26/2017 15:42
 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.: 8842 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: \\ChromNA\Knoxville\ChromData\MJ\20170222-4121.b\JB26lot7248.D
 Lims ID: 140-7248-A-7
 Client ID: 10026
 Sample Type: Client
 Inject. Date: 26-Feb-2017 15:42:30 ALS Bottle#: 15 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0004121-006
 Misc. Info.: 10026
 Operator ID: 403648 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20170222-4121.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Feb-2017 08:56:44 Calib Date: 26-Nov-2016 01:58:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20161121-3656.b\JK25IC09X.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: barlozhetskayaa Date: 26-Feb-2017 16:23:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.568	8.569	-0.001	99	343755	4.00	
* 2 1,4-Difluorobenzene	114	10.768	10.769	-0.001	94	1447087	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.545	15.546	-0.001	87	1171530	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.192	17.192	0.000	96	624271	3.37	
31 Methylene Chloride	84	6.051	6.057	-0.006	94	7487	0.0739	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20170222-4121.b\JB26lot7248.D

Injection Date: 26-Feb-2017 15:42:30

Instrument ID: MJ

Operator ID: 403648

Lims ID: 140-7248-A-7

Lab Sample ID: 140-7248-7

Worklist Smp#: 6

Client ID: 10026

Purge Vol: 500.000 mL

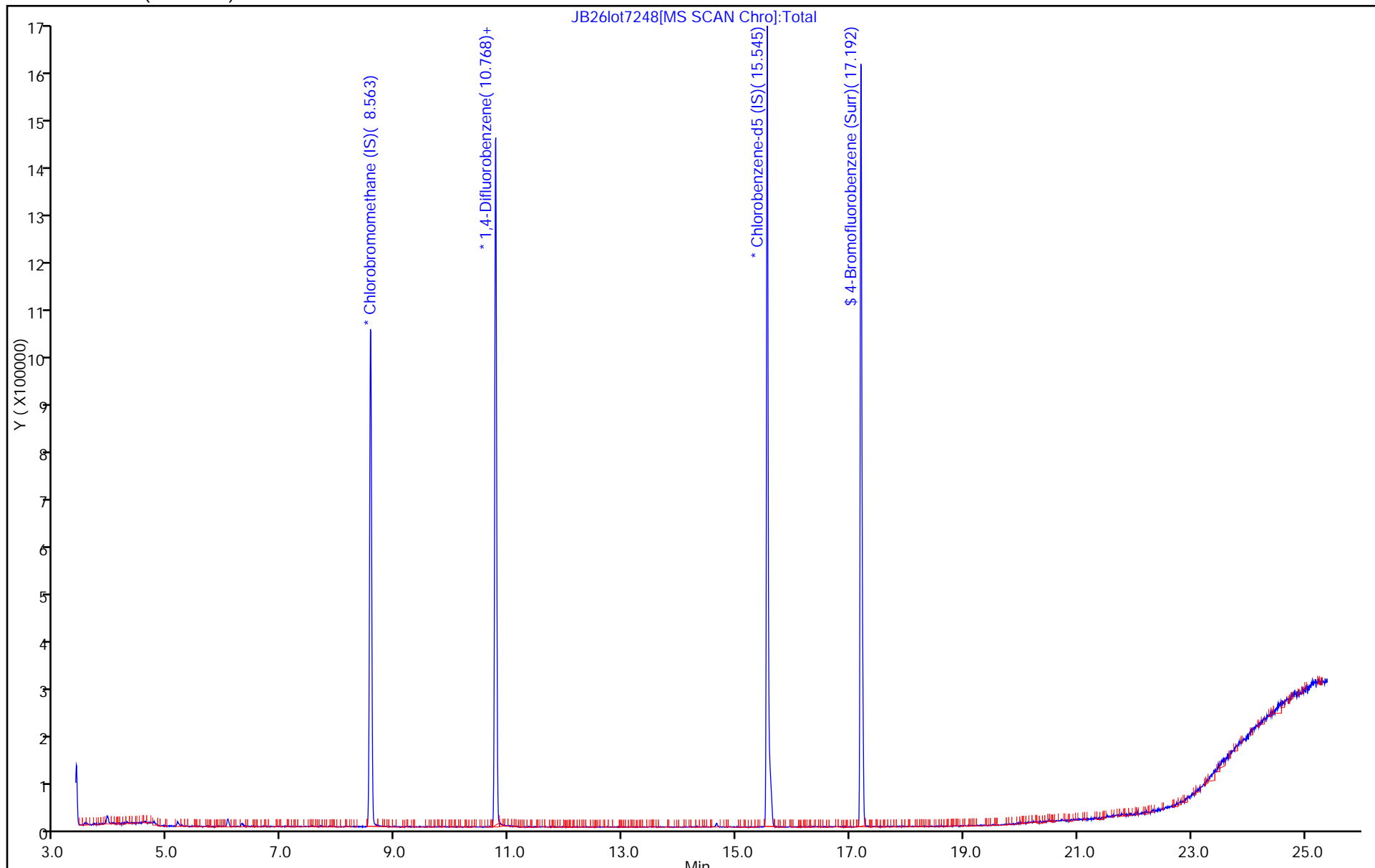
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)




JB26lot7248[MS SCAN Chro]:Total

Shipping and Receiving Documents

Canister Samples Chain of Custody Record

TAL Knoxville
 5815 Middlebrook Pike
 Knoxville, TN 37921
 phone 865-291-3000 fax 865-584-4315

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information Company: <u>EMERSON</u> Address: <u>5010 DICKENS</u> City/State/Zip: <u>YARROWVILLE, TN</u> Phone: <u>615-924-3001</u> FAX: _____ Project Name: <u>Fuhr Melrose Dry Clean</u> Site/location: _____ PO # _____		Project Manager: <u>DAVE HARRINGTON</u> Phone: <u>631-924-3001</u> Site Contact: <u>DAVE HARRINGTON</u> TAL Contact: <u>JAMIE MCKINNEY</u>		Sampled By: <u>VICTOR CARDOZA</u> 1 of 2 COCS									
Analysis Turnaround Time Standard (Specify) <u>X</u> Rush (Specify) _____		 140-7503 Chain of Custody		Other (Please specify in notes section) _____ Landfill Gas _____ Soil Gas _____ Ambient Air _____ Indoor Air _____ Sample Type _____ Other (Please specify in notes section) _____									
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)
SUB SHAB #1	3/10-3/11	0852	0843	30	9	09946	09689	X					
AMBIENT #1	3/10-3/11	0853	0844	30	8	10552	11040						
SUB SHAB #2	3/10-3/11	0928	0912	28	5	10855	09592						
AMBIENT #2	3/10-3/11	0929	0914	30	6	10240	10092						
AMBIENT #3	3/10-3/11	1018	1010	30	6	10624	10279						
OUTDOOR AMBIENT #1	3/10-3/11	1015	1011	30	2	11489	10260	↓					
Sampled by: _____ Temperature (Fahrenheit) Ambient _____ Interior _____ Start _____ Stop _____ Pressure (inches of Hg) Ambient _____ Interior _____ Start _____ Stop _____													
Special Instructions/QC Requirements & Comments: Received @ ambient, 3 boxes FedEx SOI # 778667158480 " 8310 No custody seal, KW 3/17/17 " 1667													
Canisters Shipped by: <u>V. Cardoza</u> Date/Time: <u>3/13/17 @ 6:29 am</u>		Canisters Received by: <u>[Signature]</u>		12 cans									
Samples Relinquished by: <u>[Signature]</u> Date/Time: <u>3/16/17</u>		Received by: <u>[Signature]</u>		12 flows									
Relinquished by: _____ Date/Time: _____		Received by: _____		12 cc 1-T									

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica


TestAmerica assumes no liability with respect to the collection and shipment of these samples.

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information		Project Manager: <u>DAVE HARRINGTON</u>		Sampled By: <u>VICTOR CARDOZA</u>		2 of 2 COCS													
Company: <u>ZWILDRONIC LTD.</u>		Phone: <u>865 631-924-3001</u>		EPA 26C		Other (Please specify in notes section)													
Address: <u>5015 DUCKER RD</u>		Site Contact: <u>DAVE HARRINGTON</u>		EPA 3C		Soil Gas													
City/State/Zip: <u>YADPARK, NY</u>		TAL Contact: <u>JAMIE MCKINNEY</u>		TO-14A		Ambient Air													
Phone: <u>631-924-3001</u>				TO-15		Indoor Air													
FAX:				Canister ID		Sample Type													
Project Name: <u>Four Melrose Dry Cleaners</u>		Analysis Turnaround Time		Flow Controller ID		Other (Please specify in notes section)													
Site/location:		Standard (Specify)		Canister Vacuum in Field, "Hg (Stop)		ASTM D-1946													
PO #		Rush (Specify)		Canister Vacuum in Field, "Hg (Start)		Landfill Gas													
				Time Start															
				Time Stop															
				Sample Date(s)															
SUB LAB #1		3/10-3/11		1100		1055		8		09553		09518 X							
CAN# 11265												NOT USED							
CAN# 10032												NOT USED							
CAN# 09601												NOT USED							
CAN# 10207												NOT USED							
Sampled by:																			
Interior		Temperature (Fahrenheit)																	
Start		Ambient																	
Stop																			
Interior		Pressure (Inches of Hg)																	
Start		Ambient																	
Stop																			
Special Instructions/QC Requirements & Comments:																			
Canisters Shipped by: <u>V. Cardoza</u>		Date/Time: <u>3/13/17 @ 1029 AM</u>		Canisters Received by: <u>[Signature]</u>															
Samples Relinquished by: <u>[Signature]</u>		Date/Time: <u>3/16/17</u>		Received by: <u>[Signature]</u>															
Relinquished by:				Date/Time:															

Log In Number:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem? Containers, Broken Checked in lab Yes NA	Comments/Actions Taken
1. Are the shipping containers intact?	/				
2. Were ambient air containers received intact?					
3. The coolers/containers custody seal if present, is it intact?					
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID: _____ Correction factor: _____					7. a) The container tags for the following samples were left blank. sub lot #1, ambient #1, sub slab #4
5. Were all of the sample containers received intact?	/				b) The container tag for sample sub lot ambient #1 was missing
6. Were samples received in appropriate containers?	/				With All samples filed were initialed by the container gret numbers.
7. Do sample container labels match COC? (IDs, Dates, Times)	/				
8. Were all of the samples listed on the COC received?	/				
9. Is the date/time of sample collection noted?	/				
10. Was the sampler identified on the COC?	/				
11. Is the client and project name/# identified?	/				
12. Are tests/parameters listed for each sample?	/				
13. Is the matrix of the samples noted?	/				
14. Was COC relinquished? (Signed/Dated/Timed)	/				
15. Were samples received within holding time?	/				
16. Were samples received with correct chemical preservative (excluding Encore)?	/				
17. Were VOA samples received without headspace?	/				
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:	/				
19. For 1613B water samples is pH<9?	/				
20. For rad samples was sample activity info. Provided?	/				
Project #: 14002204 PM Instructions: _____					
Sample Receiving Associate:  Date: 3/17/17					
Labeling Verified by: _____ Date: _____					
pH test strip lot number: _____					
Box 16A: pH Preservation					Box 18A: Residual Chlorine
Preservative: _____					
Lot Number: _____					
Exp Date: _____					
Analyst: _____					
Date: _____					
Time: _____					

APPENDIX E

Data Usability Summary Reports

**DATA USABILITY SUMMARY REPORT
FORMER MELROSE AVENUE DRY CLEANER, BRONX, NEW YORK**

Client: EnviroTrac Ltd., Yaphank, New York
SDG: 140-7503-1
Laboratory: TestAmerica, Inc., Knoxville, Tennessee
Site: Former Melrose Avenue Dry Cleaner Site, Bronx, New York
Date: April 19, 2017

EDS ID	Client ID	Laboratory ID	Matrix
1	SUB SLAB #1	140-7503-1	Air
2	AMBIENT #1	140-7503-2	Air
3	SUB SLAB #2	140-7503-3	Air
4	AMBIENT #2	140-7503-4	Air
5	AMBIENT #3	140-7503-5	Air
6	OUTDOOR AMBIENT #1	140-7503-6	Air
7	SUB SLAB #4	140-7503-7	Air

A Data Usability Summary Review was performed on the analytical data for seven air samples collected on March 11, 2017 by EnviroTrac at the Former Melrose Avenue Dry Cleaner site in the Bronx, New York. The samples were analyzed under “*Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition January 1999, EPA/625/R-96/010B*”, Compendium Method TO-15, “*Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*”.

The data have been evaluated according to the protocols and quality control (QC) requirements of the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-31, Revision 6, June 2014: Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Cover letter, Narrative, and Data Reporting Forms
- Canister Certification Blanks
- Canister Certification Pressures Differences
- Chains-of-Custody and Traffic Reports
- Holding Times and sample preservation
- Laboratory Control Sample (LCS) recoveries
- Surrogate Compound Recoveries
- GC/MS Tuning

- Method Blank Contamination
- Initial and Continuing Calibration Summaries
- Compound Quantitation
- Internal Standard (IS) Area Performance
- Field Duplicate Sample Precision

Overall Evaluation of Data and Potential Usability Issues

There were no rejections of data.

Overall the data are acceptable for the intended purposes. There were no qualifications.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Cover letter, Narrative, and Data Reporting Forms

- All criteria were met.

Canister Certification Blanks

- The batch blank checks were non-detect or < RL.

Canister Certification Pressures Differences

- All criteria were met.

Chains-of-Custody and Traffic Reports

- There were some discrepancies with sample labels and chain-of-custody information. The laboratory resolved these issues with the client and no action was required by the reviewer.

Holding Times

- All samples were analyzed within 30 days for air samples.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Surrogate Compound Recoveries

- All samples exhibited acceptable surrogate recoveries.

GC/MS Tuning

- All criteria were met.

Method Blank

- The method blanks were free of contamination.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D and RRF values.

Compound Quantitation

- EDS Sample ID #s 4 and 5 exhibited high concentrations of ethanol and were flagged (E) by the laboratory. The samples were diluted and reanalyzed and the dilution results for ethanol should be used for reporting purposes.
- EDS Sample ID #7 exhibited a high concentration of 4-methyl-2-pentanone and was flagged (E) by the laboratory. The sample was diluted and reanalyzed and the dilution result for 4-methyl-2-pentanone should be used for reporting purposes.

Internal Standard (IS) Area Performance

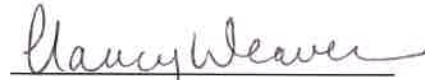
- All internal standards met response and retention time (RT) criteria.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed:



Nancy Weaver
Senior Chemist

Dated: 4/20/17

Data Qualifiers

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was analyzed for, but was not detected above the sample reporting limit.
- R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #1 Lab Sample ID: 140-7503-1
 Matrix: Air Lab File ID: JC26P101.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:43
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 22:52
 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.: 9850 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
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	2.1		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	0.51		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	0.19		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.20		0.20
78-93-3	2-Butanone	72.11	10		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.37		0.20
71-43-2	Benzene	78.11	0.15		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	0.057		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	0.20		0.080
67-66-3	Chloroform	119.38	ND		0.080
74-87-3	Chloromethane	50.49	0.49		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	ND		0.20

NW 4/19/17

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #1 Lab Sample ID: 140-7503-1
 Matrix: Air Lab File ID: JC26P101.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:43
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 22:52
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.080
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.080
64-17-5	Ethanol	46.07	4.0		2.0
100-41-4	Ethylbenzene	106.17	0.89		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	0.33		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.26		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	4.3		0.080
95-47-6	o-Xylene	106.17	1.6		0.080
100-42-5	Styrene	104.15	0.12		0.080
75-65-0	t-Butyl alcohol	74.12	0.34		0.32
127-18-4	Tetrachloroethene	165.83	8.1		0.080
108-88-3	Toluene	92.14	3.1		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080
79-01-6	Trichloroethene	131.39	ND		0.040
75-69-4	Trichlorofluoromethane	137.37	0.22		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

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

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Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #1 Lab Sample ID: 140-7503-1
 Matrix: Air Lab File ID: JC26P101.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:43
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 22:52
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	10		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	2.5		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	1.1		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	0.96		0.93
78-93-3	2-Butanone	72.11	31		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.5		0.82
71-43-2	Benzene	78.11	0.48		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.36		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	0.53		0.21
67-66-3	Chloroform	119.38	ND		0.39
74-87-3	Chloromethane	50.49	1.0		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #1 Lab Sample ID: 140-7503-1
 Matrix: Air Lab File ID: JC26P101.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:43
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 22:52
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.40
64-17-5	Ethanol	46.07	7.5		3.8
100-41-4	Ethylbenzene	106.17	3.9		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	1.2		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	0.91		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	19		0.35
95-47-6	o-Xylene	106.17	7.0		0.35
100-42-5	Styrene	104.15	0.51		0.34
75-65-0	t-Butyl alcohol	74.12	1.0		0.97
127-18-4	Tetrachloroethene	165.83	55		0.54
108-88-3	Toluene	92.14	12		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	1.2		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

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

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #1 Lab Sample ID: 140-7503-2
 Matrix: Air Lab File ID: JC26P102.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:44
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 23:40
 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.: 9850 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
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	0.40		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	0.094		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	0.096		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20
78-93-3	2-Butanone	72.11	0.75		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.35		0.20
71-43-2	Benzene	78.11	0.17		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	0.069		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	ND		0.080
67-66-3	Chloroform	119.38	0.43		0.080
74-87-3	Chloromethane	50.49	0.60		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	ND		0.20

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #1 Lab Sample ID: 140-7503-2
 Matrix: Air Lab File ID: JC26P102.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:44
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 23:40
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.080
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.080
64-17-5	Ethanol	46.07	16		2.0
100-41-4	Ethylbenzene	106.17	0.088		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	ND		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.45		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	0.32		0.080
95-47-6	o-Xylene	106.17	0.12		0.080
100-42-5	Styrene	104.15	ND		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	3.0		0.080
108-88-3	Toluene	92.14	0.49		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080
79-01-6	Trichloroethene	131.39	ND		0.040
75-69-4	Trichlorofluoromethane	137.37	0.24		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

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

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #1 Lab Sample ID: 140-7503-2
 Matrix: Air Lab File ID: JC26P102.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:44
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 23:40
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	0.46		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	0.58		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93
78-93-3	2-Butanone	72.11	2.2		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.4		0.82
71-43-2	Benzene	78.11	0.53		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.43		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	2.1		0.39
74-87-3	Chloromethane	50.49	1.2		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #1 Lab Sample ID: 140-7503-2
 Matrix: Air Lab File ID: JC26P102.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 08:44
 Sample wt/vol: 500 (mL) Date Analyzed: 03/26/2017 23:40
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.40
64-17-5	Ethanol	46.07	29		3.8
100-41-4	Ethylbenzene	106.17	0.38		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	ND		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	1.6		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	1.4		0.35
95-47-6	o-Xylene	106.17	0.50		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	20		0.54
108-88-3	Toluene	92.14	1.9		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	1.3		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

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

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #2 Lab Sample ID: 140-7503-3
 Matrix: Air Lab File ID: JC26P103.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:12
 Sample wt/vol: 25 (mL) Date Analyzed: 03/27/2017 00:25
 Soil Aliquot Vol.: _____ Dilution Factor: 46.08
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		74
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		74
79-00-5	1,1,2-Trichloroethane	133.41	ND		74
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		74
75-34-3	1,1-Dichloroethane	98.96	ND		74
75-35-4	1,1-Dichloroethene	96.94	ND		74
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		74
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		74
106-93-4	1,2-Dibromoethane	187.87	ND		74
95-50-1	1,2-Dichlorobenzene	147.00	ND		74
107-06-2	1,2-Dichloroethane	98.96	ND		74
78-87-5	1,2-Dichloropropane	112.99	ND		74
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		74
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		74
541-73-1	1,3-Dichlorobenzene	147.00	ND		74
106-46-7	1,4-Dichlorobenzene	147.00	ND		74
123-91-1	1,4-Dioxane	88.11	ND		180
540-84-1	2,2,4-Trimethylpentane	114.23	ND		180
78-93-3	2-Butanone	72.11	ND		290
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		180
71-43-2	Benzene	78.11	ND		74
100-44-7	Benzyl chloride	126.58	ND		150
75-27-4	Bromodichloromethane	163.83	ND		74
75-25-2	Bromoform	252.75	ND		74
74-83-9	Bromomethane	94.94	ND		74
56-23-5	Carbon tetrachloride	153.81	ND		37
108-90-7	Chlorobenzene	112.56	ND		74
75-00-3	Chloroethane	64.52	ND		74
67-66-3	Chloroform	119.38	ND		74
74-87-3	Chloromethane	50.49	ND		180
156-59-2	cis-1,2-Dichloroethene	96.94	ND		74
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		74
110-82-7	Cyclohexane	84.16	ND		180

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #2 Lab Sample ID: 140-7503-3
 Matrix: Air Lab File ID: JC26P103.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:12
 Sample wt/vol: 25(mL) Date Analyzed: 03/27/2017 00:25
 Soil Aliquot Vol.: _____ Dilution Factor: 46.08
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		74
75-71-8	Dichlorodifluoromethane	120.91	ND		74
64-17-5	Ethanol	46.07	ND		1800
100-41-4	Ethylbenzene	106.17	ND		74
87-68-3	Hexachlorobutadiene	260.76	ND		74
110-54-3	Hexane	86.17	ND		180
1634-04-4	Methyl tert-butyl ether	88.15	ND		150
75-09-2	Methylene Chloride	84.93	ND		180
179601-23-1	m-Xylene & p-Xylene	106.17	ND		74
95-47-6	o-Xylene	106.17	ND		74
100-42-5	Styrene	104.15	ND		74
75-65-0	t-Butyl alcohol	74.12	ND		290
127-18-4	Tetrachloroethene	165.83	7200		74
108-88-3	Toluene	92.14	ND		110
156-60-5	trans-1,2-Dichloroethene	96.94	ND		74
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		74
79-01-6	Trichloroethene	131.39	ND		37
75-69-4	Trichlorofluoromethane	137.37	ND		74
75-01-4	Vinyl chloride	62.50	ND		37

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #2 Lab Sample ID: 140-7503-3
 Matrix: Air Lab File ID: JC26P103.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:12
 Sample wt/vol: 25(mL) Date Analyzed: 03/27/2017 00:25
 Soil Aliquot Vol.: _____ Dilution Factor: 46.08
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		400
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		510
79-00-5	1,1,2-Trichloroethane	133.41	ND		400
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		570
75-34-3	1,1-Dichloroethane	98.96	ND		300
75-35-4	1,1-Dichloroethene	96.94	ND		290
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		550
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		360
106-93-4	1,2-Dibromoethane	187.87	ND		570
95-50-1	1,2-Dichlorobenzene	147.00	ND		440
107-06-2	1,2-Dichloroethane	98.96	ND		300
78-87-5	1,2-Dichloropropane	112.99	ND		340
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		520
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		360
541-73-1	1,3-Dichlorobenzene	147.00	ND		440
106-46-7	1,4-Dichlorobenzene	147.00	ND		440
123-91-1	1,4-Dioxane	88.11	ND		660
540-84-1	2,2,4-Trimethylpentane	114.23	ND		860
78-93-3	2-Butanone	72.11	ND		870
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		760
71-43-2	Benzene	78.11	ND		240
100-44-7	Benzyl chloride	126.58	ND		760
75-27-4	Bromodichloromethane	163.83	ND		490
75-25-2	Bromoform	252.75	ND		760
74-83-9	Bromomethane	94.94	ND		290
56-23-5	Carbon tetrachloride	153.81	ND		230
108-90-7	Chlorobenzene	112.56	ND		340
75-00-3	Chloroethane	64.52	ND		190
67-66-3	Chloroform	119.38	ND		360
74-87-3	Chloromethane	50.49	ND		380
156-59-2	cis-1,2-Dichloroethene	96.94	ND		290
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		330
110-82-7	Cyclohexane	84.16	ND		630

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUB SLAB #2 Lab Sample ID: 140-7503-3
 Matrix: Air Lab File ID: JC26P103.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:12
 Sample wt/vol: 25 (mL) Date Analyzed: 03/27/2017 00:25
 Soil Aliquot Vol.: _____ Dilution Factor: 46.08
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		630
75-71-8	Dichlorodifluoromethane	120.91	ND		360
64-17-5	Ethanol	46.07	ND		3500
100-41-4	Ethylbenzene	106.17	ND		320
87-68-3	Hexachlorobutadiene	260.76	ND		790
110-54-3	Hexane	86.17	ND		650
1634-04-4	Methyl tert-butyl ether	88.15	ND		530
75-09-2	Methylene Chloride	84.93	ND		640
179601-23-1	m-Xylene & p-Xylene	106.17	ND		320
95-47-6	o-Xylene	106.17	ND		320
100-42-5	Styrene	104.15	ND		310
75-65-0	t-Butyl alcohol	74.12	ND		890
127-18-4	Tetrachloroethene	165.83	49000		500
108-88-3	Toluene	92.14	ND		420
156-60-5	trans-1,2-Dichloroethene	96.94	ND		290
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		330
79-01-6	Trichloroethene	131.39	ND		200
75-69-4	Trichlorofluoromethane	137.37	ND		410
75-01-4	Vinyl chloride	62.50	ND		94

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 Lab Sample ID: 140-7503-4
 Matrix: Air Lab File ID: JC26P104.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 01:13
 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.: 9850 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
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	0.83		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	0.24		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20
78-93-3	2-Butanone	72.11	0.38		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20
71-43-2	Benzene	78.11	0.31		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	0.069		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	ND		0.080
67-66-3	Chloroform	119.38	0.69		0.080
74-87-3	Chloromethane	50.49	0.59		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	ND		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 Lab Sample ID: 140-7503-4
 Matrix: Air Lab File ID: JC26P104.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 01:13
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.080
75-71-8	Dichlorodifluoromethane	120.91	0.47		0.080
64-17-5	Ethanol	46.07	440	400 E	20 2.0
100-41-4	Ethylbenzene	106.17	0.67		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	ND		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.29		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	1.7		0.080
95-47-6	o-Xylene	106.17	0.84		0.080
100-42-5	Styrene	104.15	ND		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	2.4		0.080
108-88-3	Toluene	92.14	0.54		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080
79-01-6	Trichloroethene	131.39	ND		0.040
75-69-4	Trichlorofluoromethane	137.37	0.23		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 Lab Sample ID: 140-7503-4
 Matrix: Air Lab File ID: JC26P104.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 01:13
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	4.1		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	1.2		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93
78-93-3	2-Butanone	72.11	1.1		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82
71-43-2	Benzene	78.11	1.0		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.43		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	3.4		0.39
74-87-3	Chloromethane	50.49	1.2		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 Lab Sample ID: 140-7503-4
 Matrix: Air Lab File ID: JC26P104.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 01:13
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.40
64-17-5	Ethanol	46.07	830	760 E	38 3.8
100-41-4	Ethylbenzene	106.17	2.9		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	ND		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	1.0		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	7.3		0.35
95-47-6	o-Xylene	106.17	3.7		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	17		0.54
108-88-3	Toluene	92.14	2.0		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	1.3		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

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4DL

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 DL Lab Sample ID: 140-7503-4 DL
 Matrix: Air Lab File ID: GC28P112.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 50 (mL) Date Analyzed: 03/29/2017 03:05
 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.: 9922 Units: ppb v/v

use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
64-17-5	Ethanol	46.07	440	D	20

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

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40L

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #2 DL Lab Sample ID: 140-7503-4 DL
 Matrix: Air Lab File ID: GC28P112.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 09:14
 Sample wt/vol: 50 (mL) Date Analyzed: 03/29/2017 03:05
 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.: 9922 Units: ug/m3

use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
64-17-5	Ethanol	46.07	830	D	38

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

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 Lab Sample ID: 140-7503-5
 Matrix: Air Lab File ID: JC26P105.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 02:01
 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.: 9850 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
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	1.5		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	0.38		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.73		0.20
78-93-3	2-Butanone	72.11	0.53		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.93		0.20
71-43-2	Benzene	78.11	0.62		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	0.066		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	ND		0.080
67-66-3	Chloroform	119.38	0.12		0.080
74-87-3	Chloromethane	50.49	0.60		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	0.53		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 Lab Sample ID: 140-7503-5
 Matrix: Air Lab File ID: JC26P105.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 02:01
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.080
75-71-8	Dichlorodifluoromethane	120.91	0.97		0.080
64-17-5	Ethanol	46.07	590 480 E		25 2.0
100-41-4	Ethylbenzene	106.17	0.49		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	1.3		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.29		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	1.9		0.080
95-47-6	o-Xylene	106.17	0.76		0.080
100-42-5	Styrene	104.15	ND		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	ND		0.080
108-88-3	Toluene	92.14	2.1		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080
79-01-6	Trichloroethene	131.39	ND		0.040
75-69-4	Trichlorofluoromethane	137.37	0.22		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

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

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 Lab Sample ID: 140-7503-5
 Matrix: Air Lab File ID: JC26P105.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 02:01
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	7.3		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	1.9		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	3.4		0.93
78-93-3	2-Butanone	72.11	1.6		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	3.8		0.82
71-43-2	Benzene	78.11	2.0		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.41		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	0.60		0.39
74-87-3	Chloromethane	50.49	1.2		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	1.8		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 Lab Sample ID: 140-7503-5
 Matrix: Air Lab File ID: JC26P105.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 02:01
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	4.8		0.40
64-17-5	Ethanol	46.07	1100 910 E		47 3.8
100-41-4	Ethylbenzene	106.17	2.1		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	4.4		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	1.0		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	8.3		0.35
95-47-6	o-Xylene	106.17	3.3		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	ND		0.54
108-88-3	Toluene	92.14	8.1		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	1.2		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

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.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 DL Lab Sample ID: 140-7503-5 DL
 Matrix: Air Lab File ID: GC28P113.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 40 (mL) Date Analyzed: 03/29/2017 03:47
 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.: 9922 Units: ppb v/v

Use ORIGINAL RESULTS

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
64-17-5	Ethanol	46.07	590	D	25

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

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: AMBIENT #3 DL Lab Sample ID: 140-7503-5 DL
 Matrix: Air Lab File ID: GC28P113.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:10
 Sample wt/vol: 40 (mL) Date Analyzed: 03/29/2017 03:47
 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.: 9922 Units: ug/m3

Use ORIGINAL RESULTS

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
64-17-5	Ethanol	46.07	1100	✓	47

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

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: OUTDOOR AMBIENT #1 Lab Sample ID: 140-7503-6
 Matrix: Air Lab File ID: JC26P106.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:11
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 03:36
 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.: 9850 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
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20
78-93-3	2-Butanone	72.11	0.35		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20
71-43-2	Benzene	78.11	0.23		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	0.071		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	ND		0.080
67-66-3	Chloroform	119.38	ND		0.080
74-87-3	Chloromethane	50.49	0.65		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	ND		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: OUTDOOR AMBIENT #1 Lab Sample ID: 140-7503-6
 Matrix: Air Lab File ID: JC26P106.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:11
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 03:36
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.080
75-71-8	Dichlorodifluoromethane	120.91	0.49		0.080
64-17-5	Ethanol	46.07	7.6		2.0
100-41-4	Ethylbenzene	106.17	ND		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	ND		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.35		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	0.24		0.080
95-47-6	o-Xylene	106.17	0.089		0.080
100-42-5	Styrene	104.15	ND		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	ND		0.080
108-88-3	Toluene	92.14	0.38		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080
79-01-6	Trichloroethene	131.39	ND		0.040
75-69-4	Trichlorofluoromethane	137.37	0.24		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: OUTDOOR AMBIENT #1 Lab Sample ID: 140-7503-6
 Matrix: Air Lab File ID: JC26P106.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:11
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 03:36
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93
78-93-3	2-Butanone	72.11	1.0		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82
71-43-2	Benzene	78.11	0.72		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.45		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	ND		0.39
74-87-3	Chloromethane	50.49	1.3		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: OUTDOOR AMBIENT #1 Lab Sample ID: 140-7503-6
 Matrix: Air Lab File ID: JC26P106.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:11
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 03:36
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.40
64-17-5	Ethanol	46.07	14		3.8
100-41-4	Ethylbenzene	106.17	ND		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	ND		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	1.2		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	1.1		0.35
95-47-6	o-Xylene	106.17	0.39		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	ND		0.54
108-88-3	Toluene	92.14	1.4		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	ND		0.21
75-69-4	Trichlorofluoromethane	137.37	1.3		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 Lab Sample ID: 140-7503-7
 Matrix: Air Lab File ID: JC26P107.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 04:23
 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.: 9850 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
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.080
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.080
75-34-3	1,1-Dichloroethane	98.96	ND		0.080
75-35-4	1,1-Dichloroethene	96.94	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0		0.080
106-93-4	1,2-Dibromoethane	187.87	ND		0.080
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.080
107-06-2	1,2-Dichloroethane	98.96	ND		0.080
78-87-5	1,2-Dichloropropane	112.99	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	0.53		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	0.091		0.080
123-91-1	1,4-Dioxane	88.11	ND		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	0.24		0.20
78-93-3	2-Butanone	72.11	7.9		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	28	56	2.0 0.20
71-43-2	Benzene	78.11	0.28		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	ND		0.080
75-25-2	Bromoform	252.75	ND		0.080
74-83-9	Bromomethane	94.94	ND		0.080
56-23-5	Carbon tetrachloride	153.81	0.068		0.040
108-90-7	Chlorobenzene	112.56	ND		0.080
75-00-3	Chloroethane	64.52	ND		0.080
67-66-3	Chloroform	119.38	ND		0.080
74-87-3	Chloromethane	50.49	ND		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.080
110-82-7	Cyclohexane	84.16	ND		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 Lab Sample ID: 140-7503-7
 Matrix: Air Lab File ID: JC26P107.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 04:23
 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.: 9850 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.080
75-71-8	Dichlorodifluoromethane	120.91	0.53		0.080
64-17-5	Ethanol	46.07	3.4		2.0
100-41-4	Ethylbenzene	106.17	0.89		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	0.26		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.26		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	4.2		0.080
95-47-6	o-Xylene	106.17	1.6		0.080
100-42-5	Styrene	104.15	0.082		0.080
75-65-0	t-Butyl alcohol	74.12	0.48		0.32
127-18-4	Tetrachloroethene	165.83	8.4		0.080
108-88-3	Toluene	92.14	3.1		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.080
79-01-6	Trichloroethene	131.39	0.28		0.040
75-69-4	Trichlorofluoromethane	137.37	0.25		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

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

NW 4/19/17

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 Lab Sample ID: 140-7503-7
 Matrix: Air Lab File ID: JC26P107.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 04:23
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.44
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.55
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.44
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.61
75-34-3	1,1-Dichloroethane	98.96	ND		0.32
75-35-4	1,1-Dichloroethene	96.94	ND		0.32
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.59
95-63-6	1,2,4-Trimethylbenzene	120.20	9.7		0.39
106-93-4	1,2-Dibromoethane	187.87	ND		0.61
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.48
107-06-2	1,2-Dichloroethane	98.96	ND		0.32
78-87-5	1,2-Dichloropropane	112.99	ND		0.37
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.56
108-67-8	1,3,5-Trimethylbenzene	120.20	2.6		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	0.55		0.48
123-91-1	1,4-Dioxane	88.11	ND		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	1.1		0.93
78-93-3	2-Butanone	72.11	23		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	120 230 E		8.2 0.82
71-43-2	Benzene	78.11	0.91		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	ND		0.54
75-25-2	Bromoform	252.75	ND		0.83
74-83-9	Bromomethane	94.94	ND		0.31
56-23-5	Carbon tetrachloride	153.81	0.43		0.25
108-90-7	Chlorobenzene	112.56	ND		0.37
75-00-3	Chloroethane	64.52	ND		0.21
67-66-3	Chloroform	119.38	ND		0.39
74-87-3	Chloromethane	50.49	ND		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.32
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.36
110-82-7	Cyclohexane	84.16	ND		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 Lab Sample ID: 140-7503-7
 Matrix: Air Lab File ID: JC26P107.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 500 (mL) Date Analyzed: 03/27/2017 04:23
 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.: 9850 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.6		0.40
64-17-5	Ethanol	46.07	6.3		3.8
100-41-4	Ethylbenzene	106.17	3.9		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	0.93		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	0.90		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	18		0.35
95-47-6	o-Xylene	106.17	6.8		0.35
100-42-5	Styrene	104.15	0.35		0.34
75-65-0	t-Butyl alcohol	74.12	1.5		0.97
127-18-4	Tetrachloroethene	165.83	57		0.54
108-88-3	Toluene	92.14	12		0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.32
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.36
79-01-6	Trichloroethene	131.39	1.5		0.21
75-69-4	Trichlorofluoromethane	137.37	1.4		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

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

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7 DL

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 DL Lab Sample ID: 140-7503-7 DL
 Matrix: Air Lab File ID: GC28P114.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 50 (mL) Date Analyzed: 03/29/2017 04:28
 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.: 9922 Units: ppb v/v

Use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	28	P	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

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7 DL

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

Lab Name: TestAmerica Knoxville Job No.: 140-7503-1
 SDG No.: _____
 Client Sample ID: SUBSLAB #4 DL Lab Sample ID: 140-7503-7 DL
 Matrix: Air Lab File ID: GC28P114.D
 Analysis Method: TO 15 LL Date Collected: 03/11/2017 10:55
 Sample wt/vol: 50 (mL) Date Analyzed: 03/29/2017 04:28
 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.: 9922 Units: ug/m3

Use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	120	1	8.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

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