

Soil Vapor Investigation Report

Site Number: 231008
Call Out ID: 126887
1st Avenue and East 90th Street
Manhattan, New York 10001

Report Date:

December 14, 2016

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

*A Full Service Environmental Consulting
and Contracting Firm*



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

Soil Vapor Investigation Report

**1st Avenue and East 90th Street
Manhattan, New York 10001**



Jeffrey A. Bohlen
Senior Project Manager/Hydrogeologist



Donna Amoscato
Project Scientist

December 14, 2016

Date

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1.0 Introduction

EnviroTrac Ltd. (EnviroTrac) was retained by the New York State Department of Environmental Conservation (NYSDEC) under Contract No. C100902 to conduct a soil vapor investigation at the area surrounding 1st Avenue and East 90th Street in the Upper East Side of Manhattan, New York, herein referred to as the Site (Site No: 231008). A United States Geological Survey (USGS) topographic map is included as **Figure 1**. Photographic documentation of Site and soil vapor sampling are included in **Appendix A**. This investigation was conducted pursuant to the NYSDEC Standby Contractor Work Authorization (Call Out) Form received by EnviroTrac on August 22, 2016, which is included in **Appendix B**.

2.0 Site Background

The Site is located in the Upper East Side of Manhattan (**Figure 1**). It is approximately centered on a 22-story apartment building located at the southeast corner of the intersection of 1st Avenue and 90th Street (**Figure 2**). The location was previously a Mobil Station, which closed in 1998. As part of the closure activities, all underground storage tanks (USTs), dispenser islands, and associated piping were removed in 1999. In addition, petroleum-contaminated soil was excavated and disposed off-site. Chlorinated compounds were detected in the groundwater samples collected in the spring of 2002 which included tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (DCE) at concentrations in exceedance of their respective Title 6 New York Codes, Rules and Regulations (6 NYCRR) Part 703.5, Class GA standards. These chlorinated volatile organic compounds (CVOCs) are not commonly associated with a petroleum release, but are typical solvents used in dry cleaning operations. Historically many dry cleaners most likely existed in the immediate vicinity of the Site. The potential source area was estimated to be located up-gradient of the apartment building property.

The depth of groundwater is approximately 12 feet below grade (fbg). Due to the depth of groundwater, there is a potential for vapor encroachment.

The NYSDEC assigned URS to conduct investigative work in 2002 and 2003. A Phase I (Immediate Investigation Work Assignment), Soil-Gas Conduit Installation and Sampling, and subsequent field work were completed in November 2003. A Field Investigation Report was issued by URS in January, 2004.

A Phase II Site Characterization, which included soil-gas conduit installation and sampling, monitoring well installation and groundwater sampling, was conducted in 2005 by URS.

A Phase III Site Characterization, which included monitoring well installation and groundwater sampling, were performed completed in June 2005. Additional monitoring well installation and groundwater sampling were performed in May, 2006, August, 2006, January, 2007 and October, 2008.

In accordance with Call-Out ID 118556, EnviroTrac was directed to install a total of twelve (12) groundwater monitoring wells at the Site (MW-47 through 51, MW-51A, MW-52 through MW-57, MW-57 A, and MW-58 and MW-59). Installation took place during the period of September 28 through October 26, 2009. Each boring was continually sampled to the water table and soil samples were collected from each boring at the dry intervals immediately above the water table. Each newly-installed monitoring well was developed and monitored for turbidity, temperature, conductivity, and pH in November 2009. Water level measurements were collected from all of the 12 newly installed groundwater monitoring wells in addition to pre-existing groundwater monitoring wells MW-7, MW-8 ,MW-8D, MW-9 through MW-12, MW-16 through MW-19, MW-21, MW-27, MW-31 through MW-34, MW-37 through MW-40, and MW-44, through MW-46 (24 total). Following the collection of water level measurements, a sample of groundwater was collected from each of the 12 new and 24 existing wells using low-flow techniques from November 11 through December 2, 2009.

Additionally, during the period of October 14 through 26, 2009, a total of 25 permanent soil gas conduits (VP-100 through VP-124) were installed at the Site to depths between two (2) to eight (8) feet bgs. Between November 2 through 6, 2009, soil gas samples

were collected from the 25 newly installed soil gas conduit at the Site. A summary of the soil, groundwater and air analytical results were presented in a Data Summary Report dated March 9, 2010.

EnviroTrac, under Call-Out ID 123948, was assigned to the Site to conduct low-flow groundwater sampling, gauging activities, well maintenance, and select well abandonment from July through August, 2015.

Call-Out ID 126887 was then issued to EnviroTrac on August 22, 2016 for the installation of six (6) additional permanent soil vapor points using a limited access rig, collection of soil vapor samples at the new soil vapor point locations, additional soil vapor point samples collected from existing locations selected by the NYSDEC, and sidewalk restoration at locations also determined by the NYSDEC. A summary of this work is presented below.

3.0 Soil Boring Installation Procedures

From September 6th, 2016 to September 7th, 2016, EnviroTrac provided oversight for the installation of six (6) new permanent soil vapor points (VP125, VP126, VP127, VP128, VP129, and VP130) on several streets surrounding the Site. **Figure 2** depicts the soil vapor point locations. Prior to installation, all underground utilities at and in the vicinity of the soil boring locations were marked using the one-call public utility notification process (NY 811). Additionally, Underground Utility Location and Damage Prevention (USIC) of Hauppauge, NY, scanned the boring location areas for the presence of underground utilities using a combination of toning equipment and ground penetrating radar (GPR). The six (6) boring locations were pre-cleared to a minimum of five (5) feet below grade (fbg) utilizing hand clearing equipment operated by Associated Environmental Services (Associated) of Hauppauge, New York. All drilling activities at the Site were performed by Associated using Geoprobe® direct-push technology.

Pre-cleared material was screened and inspected for visual and olfactory indications of contamination, and also using a photo-ionization detector (PID) for the presence of

volatile organic compounds (VOCs). Soil consisted of coarse to fine-grained sand at all of the boring locations. No PID readings were recorded above 0.0 parts per million (ppm) at any of the soil vapor point locations. Soil characterization is summarized in the geological boring logs provided in **Appendix C**.

Soil cuttings generated during the installation of the borings were placed into two (2) 55-gallon drums. Following waste characterization sampling, the drums were removed by Metro Environmental Contracting Corporation (Metro) of Lindenhurst, New York for proper off-Site disposal. Soil samples were not collected for any additional analysis. Copies of the waste manifests are provided as **Appendix D**.

4.0 Soil Vapor Points

4.1 Soil Vapor Point Installation Procedures

On September 15, 2016, six (6) soil vapor points (VP-125 through VP-130) were installed using Geoprobe® equipment at the pre-determined boring locations on East 89th Street, East 88th Street, East 87th Street, and 1st Avenue. The new (VP-125 through VP-130) and existing (VP-100, VP-102, VP-104, VP-110, VP-112, and VP-113) soil vapor points were sampled according to the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October, 2006 (NYSDOH Soil Vapor Guidance). The new soil vapor point locations were pre-cleared to a minimum of five (5) fbg utilizing hand clearing equipment. The remaining three (3) fbg were advanced utilizing Geoprobe® equipment to completion depths of approximately eight (8) fbg. Due to refusal, the soil vapor point VP-125 was installed at approximately 6 fbg, and soil vapor point VP-128 was installed at 4 feet 3 inches bg. Six (6)-inch stainless steel Geoprobe® soil vapor implants connected to 1/4-inch diameter by approximately eight (8) feet long polyethylene tubing were installed to the completion depth at each soil vapor point location. Morie #00 well gravel was used to backfill around the implant to approximately one (1) to two (2) feet above the screen. A layer of bentonite was placed around the remainder of the soil vapor tubing to grade to seal off the infiltration of ambient air into the sample. Soil vapor point locations are depicted on **Figure 2**.

4.2 Soil Vapor Point Sampling Procedures

Soil vapor sampling was conducted by connecting the polyethylene tubing at grade, to a six (6) liter Summa Canister equipped with a one (1) hour flow regulator. A helium tracer gas was utilized prior to sampling of the soil 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 well 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 bentonite seal at the well was sufficient and the sample was collected. No elevated concentrations of helium were detected prior to the sample collection in either of the soil vapor points.

4.3 Soil Vapor Point Analytical Results

A total of fourteen (14) Summa Canisters and flow regulators were supplied by Test America. Twelve (12) soil vapor samples, one (1) duplicate, and one (1) ambient air sample were collected on September 15, 2016. The soil vapor samples were submitted to the Test America for analysis of VOCs via EPA Method TO-15. A chain of custody form was completed to document sample possession. A summary of the VOC detections are presented as **Table 1** and depicted on **Figures 3 and 4**. The laboratory reports are provided in **Appendix E**.

Based on the analytical results, several VOCs were detected in all of the samples collected on September 15, 2016. The highest detection was for tetrachloroethene [5,900 E micrograms per cubic meter (ug/m³)] at the VP-128 located on the east side of 1st Avenue between East 87th Street and East 88th Street. Tetrachloroethane was also

present in all of the remaining samples except VP-126. Other notable detections include hexane (540 ug/m³) in VP-113 located on East 87th Street. Cyclohexane (210 ug/m³) was also detected in VP-113. Several other VOCs were detected in the remaining soil vapor point samples that were collected, but they appeared to be low level detections.

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 **Figures 3 and 4**. A copy of the DUSR is provided in **Appendix F**.

5.0 Site Restoration

Under the direction of the NYSDEC, EnviroTrac was asked to abandon several soil vapor point locations, replace the sidewalks flags as determined by the NYDEC, and/or re-core and install larger manhole covers at certain locations. This work was completed on October 19th through the 21st, 2016.

On October 19th, 2016, new manholes were installed at SG-076 and SG-078 and SG-048 was abandoned. On October 20th, 2016, a new manhole and sidewalk flag were replaced at SG-079, a sidewalk flag was replaced at VP-128, and SG-016 was abandoned.

Scaffolding was present at the SG-089 location preventing the sidewalk replacement and installation of a new manhole. Photographic documentation of the site restoration is provided in **Appendix A**.

6.0 Summary

A total of six (6) soil vapor points were installed at the Site on September 6 through 7, 2016. A total of 12 soil vapor point (6 new and 6 existing) samples, one duplicate soil

vapor sample and one ambient air sample were collected on September 15, 2016 and analyzed VOCs. Upon the completion of the sampling event, a total of three (3) sidewalk flags were replaced as per direction from the NYSDEC, new manholes were installed at three (3) existing locations, and two (2) vapor point locations were abandoned during October 19 through 21, 2016.

Detections of several VOCs were present in all of the soil vapor point samples that were collected on September 15, 2016. The highest detection was tetrachloroethene (5,900 E ug/m³) at VP-128 located on the east side of 1st Avenue between East 87th Street and East 88th Street. Tetrachloroethane was also present in all of the remaining samples except VP-126. Other notable detections include hexane (540 ug/m³) in the soil vapor sample collected from VP-113 located on East 87th Street. Cyclohexane (210 ug/m³) was also present in the sample collected from VP-113.

TABLES

Table 1

Summary of Air Sampling Analytical Results for Detected VOCs

1st Avenue and East 90th Street
Manhattan, New York
NYSDEC # 231008

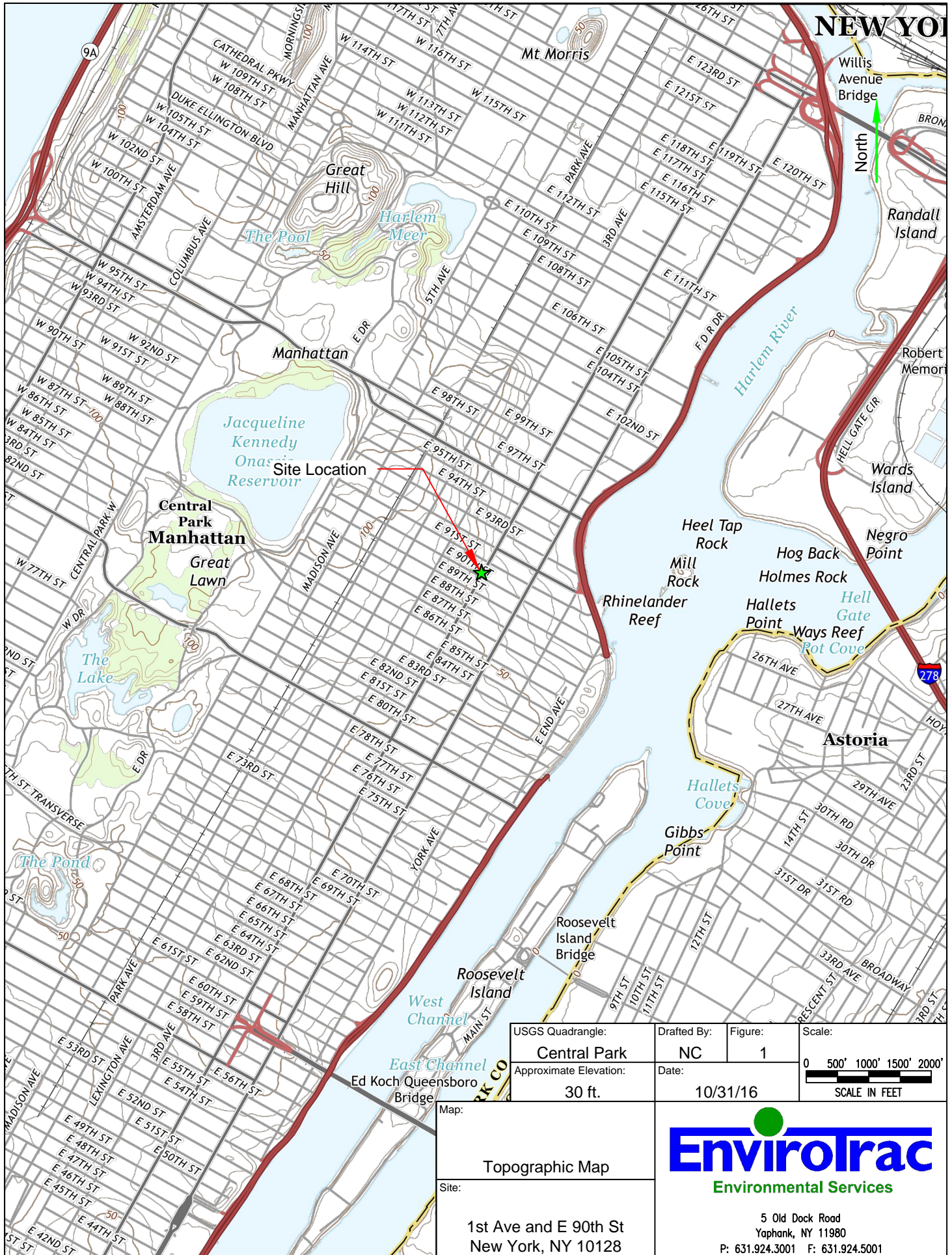
Sample ID	VP-100	VP-102	VP-104	VP-110	VP-112	VP-113	VP-125	VP-126	VP-127	VP-128	VP-129	VP-130	VP-Blind Dup for VP-104	Ambient Air
Matrix	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS	SOIL GAS-Blind Dup	AMBIENT
Date Sampled	9/15/2016	9/15/2016	9/15/2016	9/15/2016	9/15/2016	9/15/2016	9/15/2016	9/15/2016	9/15/2016	9/15/2016	9/15/2016	9/15/2016	9/15/2016	9/15/2016
Analytical Parameter	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95	1.9	ND	ND
Ethanol	UJ	UJ	5 J	3.7 J	UJ	UJ	UJ	UJ	UJ	UJ	9.6 J	UJ	6.8 J	11 J
Ethylbenzene	2.2	2.5	ND	2.8	ND	ND	3.1	8.2	3	ND	0.8	3.3	ND	ND
Trichlorofluoromethane	2.0 J	UJ	1.8 J	1.9 J	1.6 J	ND	1.7 J	2.9 J	2.2 J	UJ	1.6 J	1.8 J	1.6 J	1.7 J
Hexachlorobutadiene	ND	ND	ND	ND	ND	UJ	ND	ND	ND	ND	ND	ND	ND	ND
Hexane	4.4	4.1	ND	0.71	ND	540	0.96	ND	1.8	ND	ND	1.3	ND	0.87
2,2,4-Trimethylpentane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97	ND
Methylene chloride	2.3	ND	1.6	ND	1.2	80	ND	5.8	3.1	ND	0.95	1	1	5.1
Benzene	1.9	2.3	0.28	0.75	0.7	120	1.5	ND	0.55	35	0.58	1.1	0.53	0.18
Benzyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.87	ND	ND	1.2	1.1	ND	3.5	6.1	4	ND	1.2	2.0 J	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	170 E	140	10	290 E	450 E	74	18	ND	84	5900 E	23	470 E	10	2.3
Tetrachloroethene-DL	140 D	ND	ND	170 D	230 D	ND	ND	ND	ND	3000 D	ND	280 D	ND	ND
Toluene	5.8	7.9	1.2	8.4	8	ND	7.1	4.4	6.7	54	2	11	1.3	2.2
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.59	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.78	ND	ND	0.4	1.3	ND	ND	ND	ND	750	ND	1.4	ND	ND
1,2,4-Trimethylbenzene	5.9	6.3	0.49	7.6	6.8	ND	8.5	26	8.6	ND	2.3	5	0.57	ND
1,3,5-Trimethylbenzene	1.4	ND	ND	1.6	1.4	ND	1.7	11	2.1	ND	0.61	1.3	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND
o-Xylene	3.9	4	0.36	4.4	4.1	ND	4.1	11	4.8	ND	1.1	4.2	0.97	ND
Methyl tert-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ND	ND	ND	0.75	0.62	ND	ND	ND	0.75	ND	ND	ND	ND	ND
m-Xylene & p-Xylene	8.8	10	0.88	12	10	ND	11	24	13	ND	3.1	13	1	0.73
Bromodichloromethane	ND	ND	ND	ND	ND	ND	2.5	3.2	ND	ND	ND	0.63	ND	ND
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	7.5	4.8	ND	17	36	ND	3.3	5.6	5.5	ND	3.3	8.3	1.5	ND
4-Methyl-2-pentanone (MIBK)	UJ	UJ	9.1 J	2.5 J	1.9 J	ND	11 J	UJ	14 J	UJ	UJ	UJ	3.3 J	4.6 J
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.37	ND	0.53	0.49	0.62	ND	ND	ND	0.37	ND	0.59	1.4	0.53	0.58
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	12	2.3	2.9	7.2	6.3	ND	40	53	49	270	1.3	3.5	2.9	ND
Chloromethane	ND	8.1	0.69	ND	ND	UJ	ND	ND	1.4	ND	0.82	ND	0.65	0.91
Cyclohexane	3.3	ND	ND	ND	ND	210	ND	ND	1.9	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	100 E	86	6.6	120 E	100 E	ND	17	23	14	ND	4.4	47	7.6	ND
1,4-Dichlorobenzene- DL	84 D	ND	ND	76 D	70 D	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	2.3 J	2.3 J	2.7 J	3.2 J	2.0 J	ND	2.7 J	3.4 J	2.0 J	UJ	2.9 J	2.3 J	2.6 J	3.0 J
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700	ND	0.6	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	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
4. Dup = Duplicate Sample
5. E = Results Exceeded Calibration Range
6. D = Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
7. UJ= The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
8. J= The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.



FIGURES



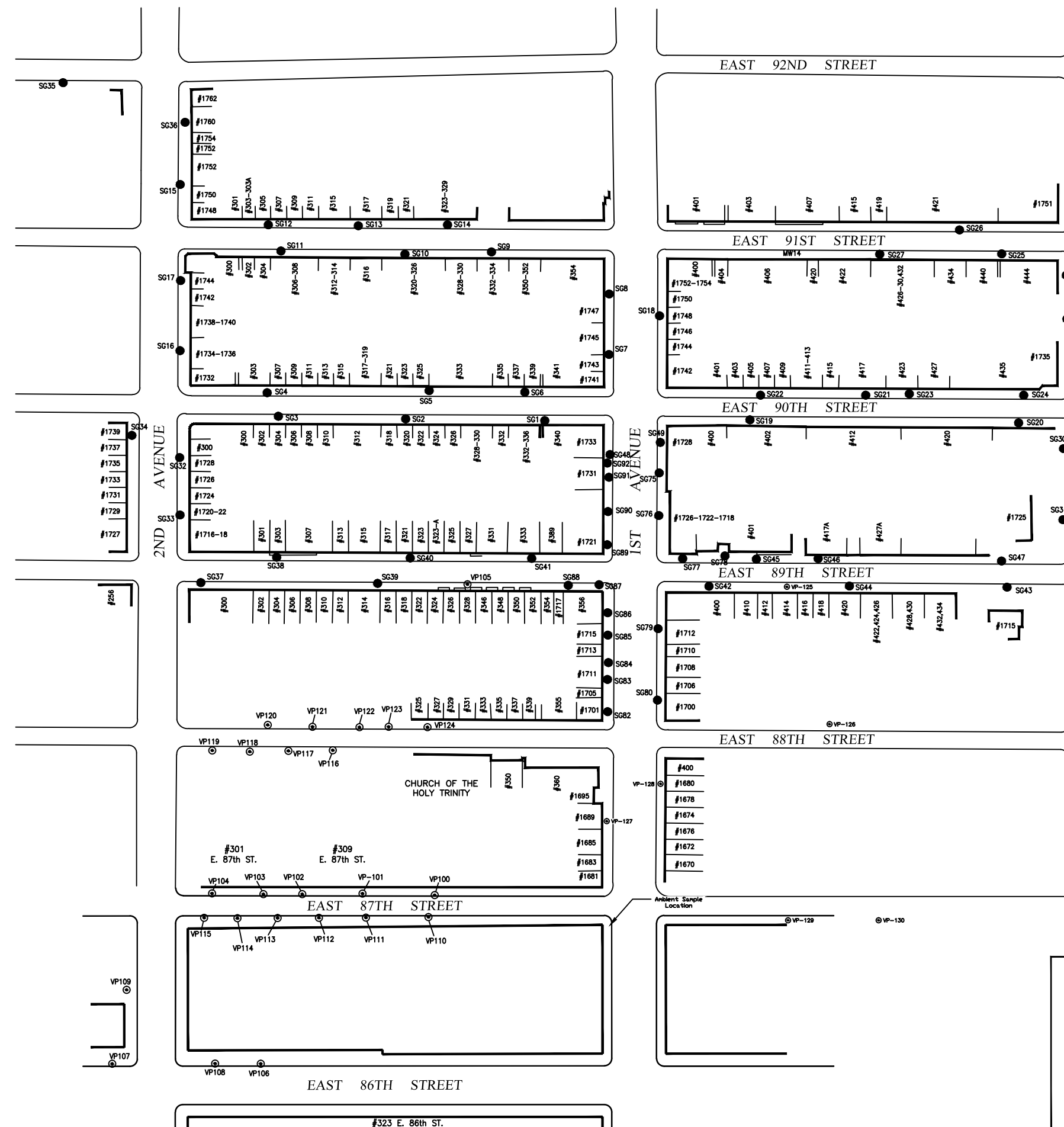
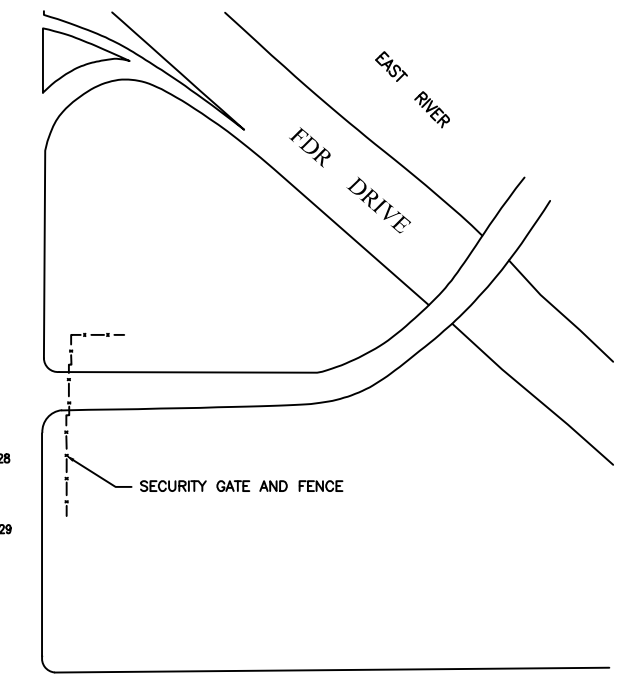
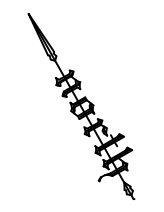
USGS Quadrangle:	Drafted By:	Figure:	Scale:
Central Park	NC	1	0 500' 1000' 1500' 2000'
Approximate Elevation:	Date:		SCALE IN FEET
30 ft.	10/31/16		

Map:
 Topographic Map
 Site:
 1st Ave and E 90th St
 New York, NY 10128

EnviroTrac
 Environmental Services

5 Old Dock Road
 Yaphank, NY 11980
 P: 631.924.3001 F: 631.924.5001

ORIGINAL DRAWING FROM USGS.



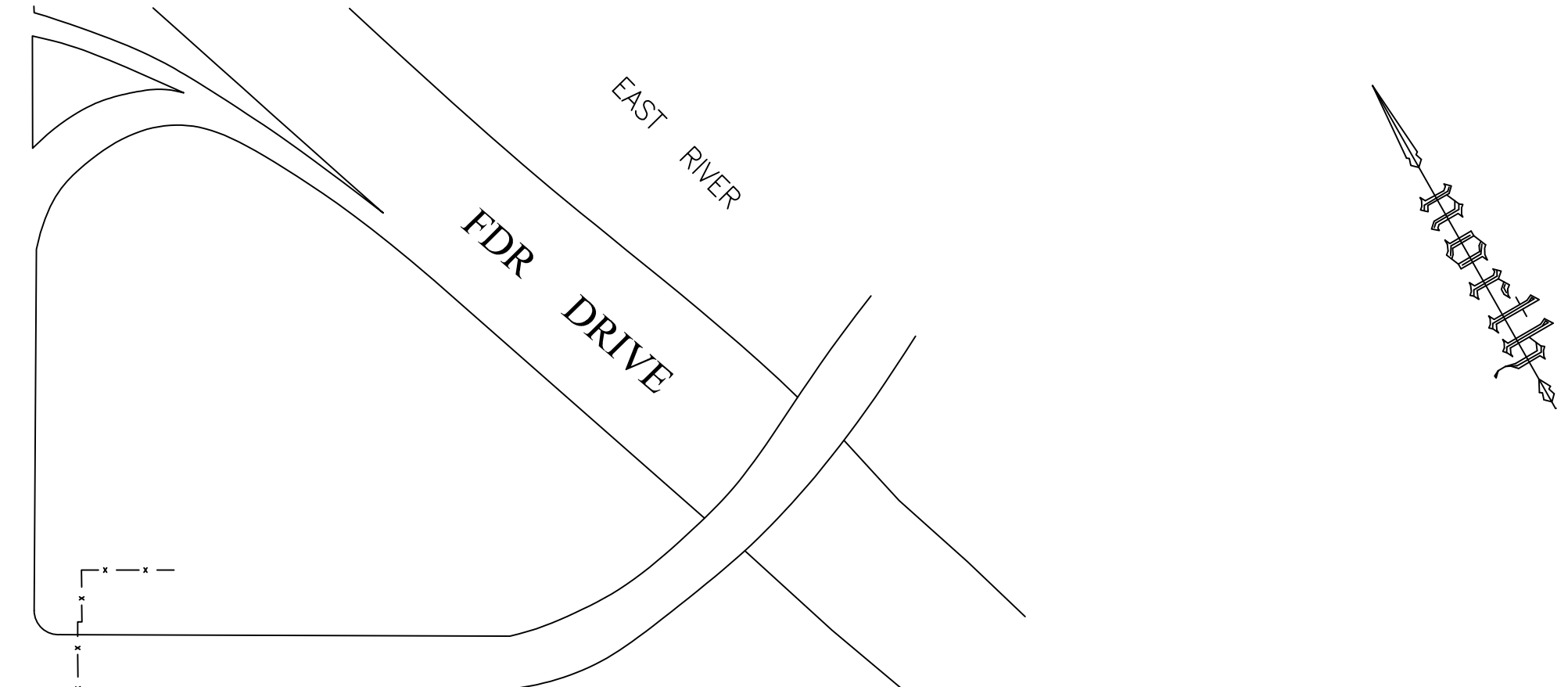
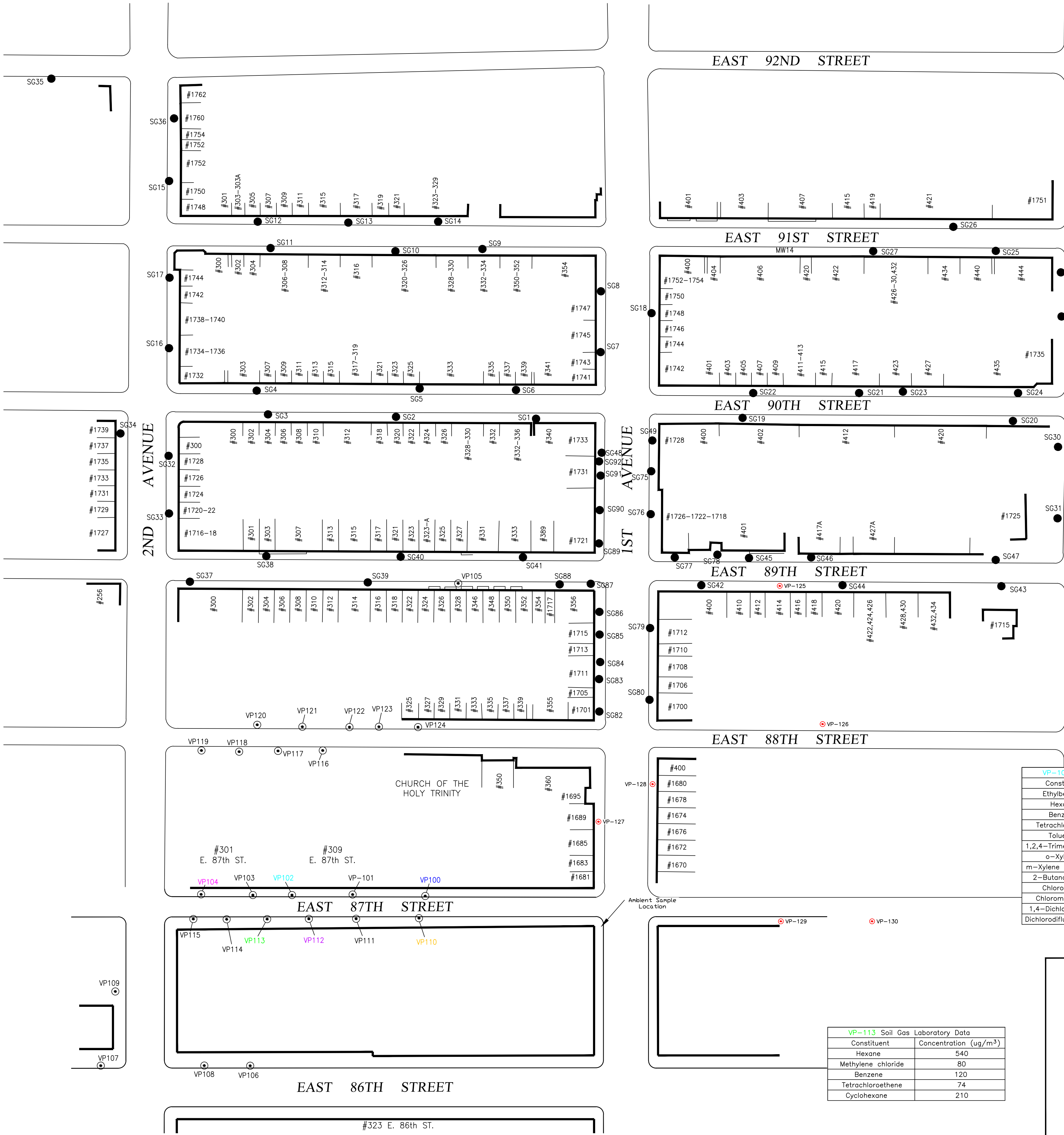
LEGEND:

- ⊙ SOIL GAS CONDUIT INSTALLED BY ENVIROTRAC
- SOIL GAS CONDUIT INSTALLED BY OTHERS

FIGURE 2
SOIL GAS CONDUIT LOCATION MAP

1st AVENUE AND 90th STREET
 MANHATTAN, NEW YORK

DRAWN BY: B.J.S./NC	 SCALE IN FEET	 ENVIRONMENTAL SERVICES 5 OLD DOCK ROAD, YAPHANK, NEW YORK 11980 PHONE: (631)924-3001 FAX: (631)924-5001
DATE:		
10/31/16		



VP-112 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)	Constituent	Concentration (ug/m ³)
Trichlorofluoromethane	1.6 J	o-Xylene	4.1
Methylene chloride	1.2	1,1,2-Trichlorotrifluoroethane	0.62
Benzene	0.7	m-Xylene & p-Xylene	10
Styrene	1.1	2-Butanone (MEK)	36
Tetrachloroethene	450 E	4-Methyl-2-pentanone (MIBK)	1.9 J
Tetrachloroethene-DL	230 D	Carbon tetrachloride	0.62
Toluene	8	Chloroform	6.3
Trichloroethene	1.3	1,4-Dichlorobenzene	100 E
1,2,4-Trimethylbenzene	6.8	1,4-Dichlorobenzene-DL	70 D
1,3,5-Trimethylbenzene	1.4	Dichlorodifluoromethane	2.0 J

VP-110 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)	Constituent	Concentration (ug/m ³)
Ethanol	3.7	1,3,5-Trimethylbenzene	1.6
Ethylbenzene	2.8	o-Xylene	4.4
Trichlorofluoromethane	1.9 J	1,1,2-Trichlorotrifluoroethane	0.75
Hexane	0.71	m-Xylene & p-Xylene	12
Benzene	0.75	2-Butanone (MEK)	17
Styrene	1.2	4-Methyl-2-pentanone (MIBK)	2.5 J
Tetrachloroethene	290 E	Carbon tetrachloride	0.49
Tetrachloroethene-DL	170 D	Chloroform	7.2
Toluene	8.4	1,4-Dichlorobenzene	120 E
Trichloroethene	0.4	1,4-Dichlorobenzene-DL	76 D
1,2,4-Trimethylbenzene	7.6	Dichlorodifluoromethane	3.2 J

VP-104 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)	Constituent	Concentration (ug/m ³)
Ethanol	5 J	m-Xylene & p-Xylene	0.88
Trichlorofluoromethane	1.8 J	4-Methyl-2-pentanone (MIBK)	9.1 J
Methylene chloride	1.6	Carbon tetrachloride	0.53
Benzene	0.28	Chloroform	2.9
Tetrachloroethene	10	Cyclohexane	0.69
Toluene	1.2	1,4-Dichlorobenzene	6.6
1,2,4-Trimethylbenzene	0.49	Dichlorodifluoromethane	2.7 J
o-Xylene	0.36		

VP-102 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)
Ethylbenzene	2.5
Hexane	4.1
Benzene	2.3
Tetrachloroethene	140
Toluene	7.9
1,2,4-Trimethylbenzene	6.3
o-Xylene	4
m-Xylene & p-Xylene	10
2-Butanone (MEK)	4.8
Chloroform	2.3
Chloromethane	8.1
1,4-Dichlorobenzene	86
Dichlorodifluoromethane	2.3 J

VP-100 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)	Constituent	Concentration (ug/m ³)
Ethylbenzene	2.2	1,2,4-Trimethylbenzene	5.9
Trichlorofluoromethane	2.0 J	1,3,5-Trimethylbenzene	1.4
Hexane	4.4	o-Xylene	3.9
Methylene chloride	2.3	m-Xylene & p-Xylene	8.8
Benzene	1.9	2-Butanone (MEK)	7.5
Styrene	0.87	Carbon tetrachloride	0.37
Tetrachloroethene	170 E	Chloroform	12
Tetrachloroethene-DL	140 D	Cyclohexane	3.3
Toluene	5.8	1,4-Dichlorobenzene	100 E
1,1,1-Trichloroethane	5.8	1,4-Dichlorobenzene-DL	84 D
Trichloroethene	0.78	Dichlorodifluoromethane	2.3 J

VP-113 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)
Hexane	540
Methylene chloride	80
Benzene	120
Tetrachloroethene	74
Cyclohexane	210

- LEGEND:**
- NEW SOIL GAS CONDUIT INSTALLED BY ENVIROTRAC
 - SOIL GAS CONDUIT INSTALLED BY ENVIROTRAC
 - SOIL GAS CONDUIT INSTALLED BY OTHERS

FIGURE 3
SOIL VAPOR POINT ANALYTICAL RESULTS FOR DETECTED VOCs

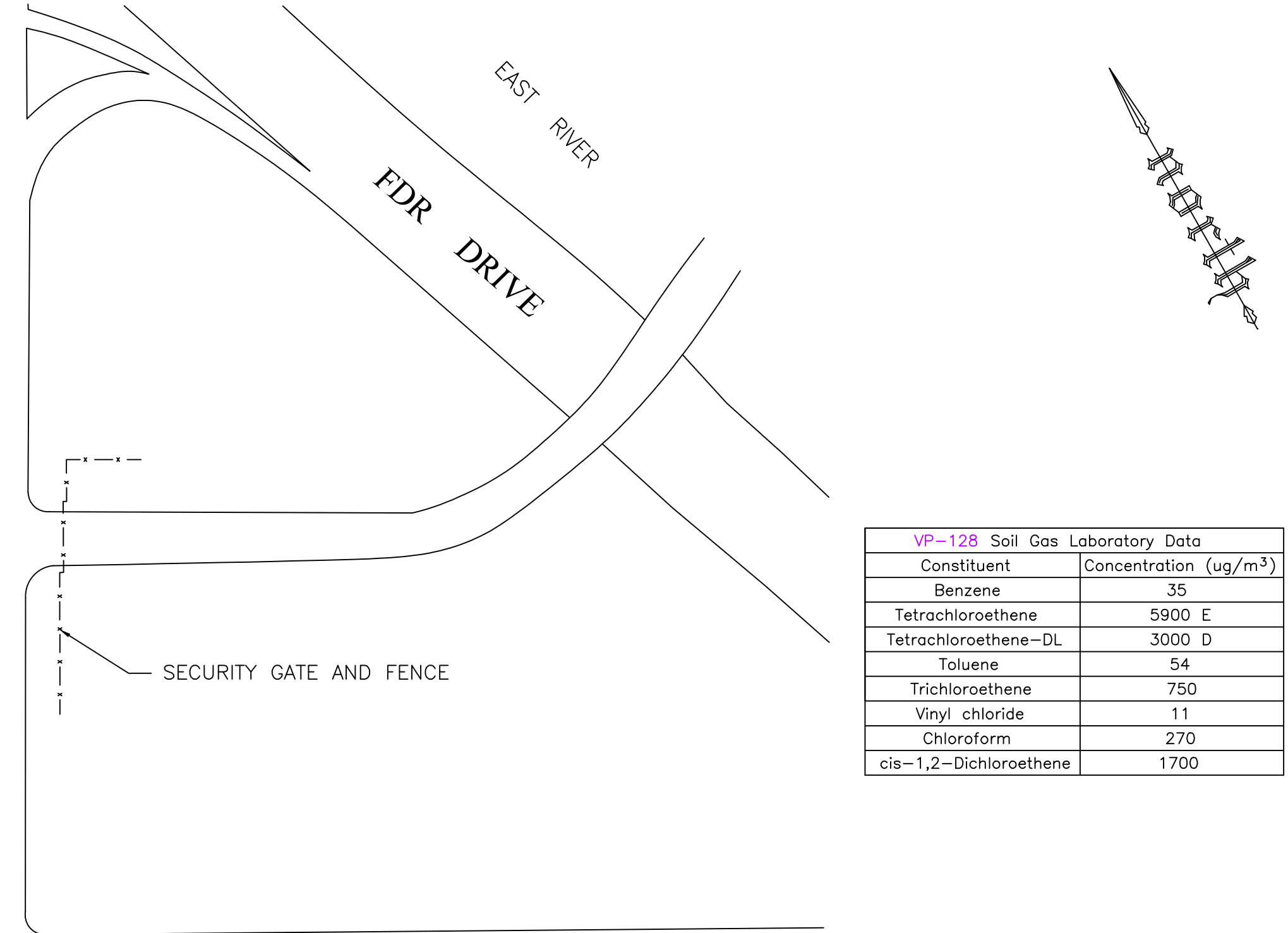
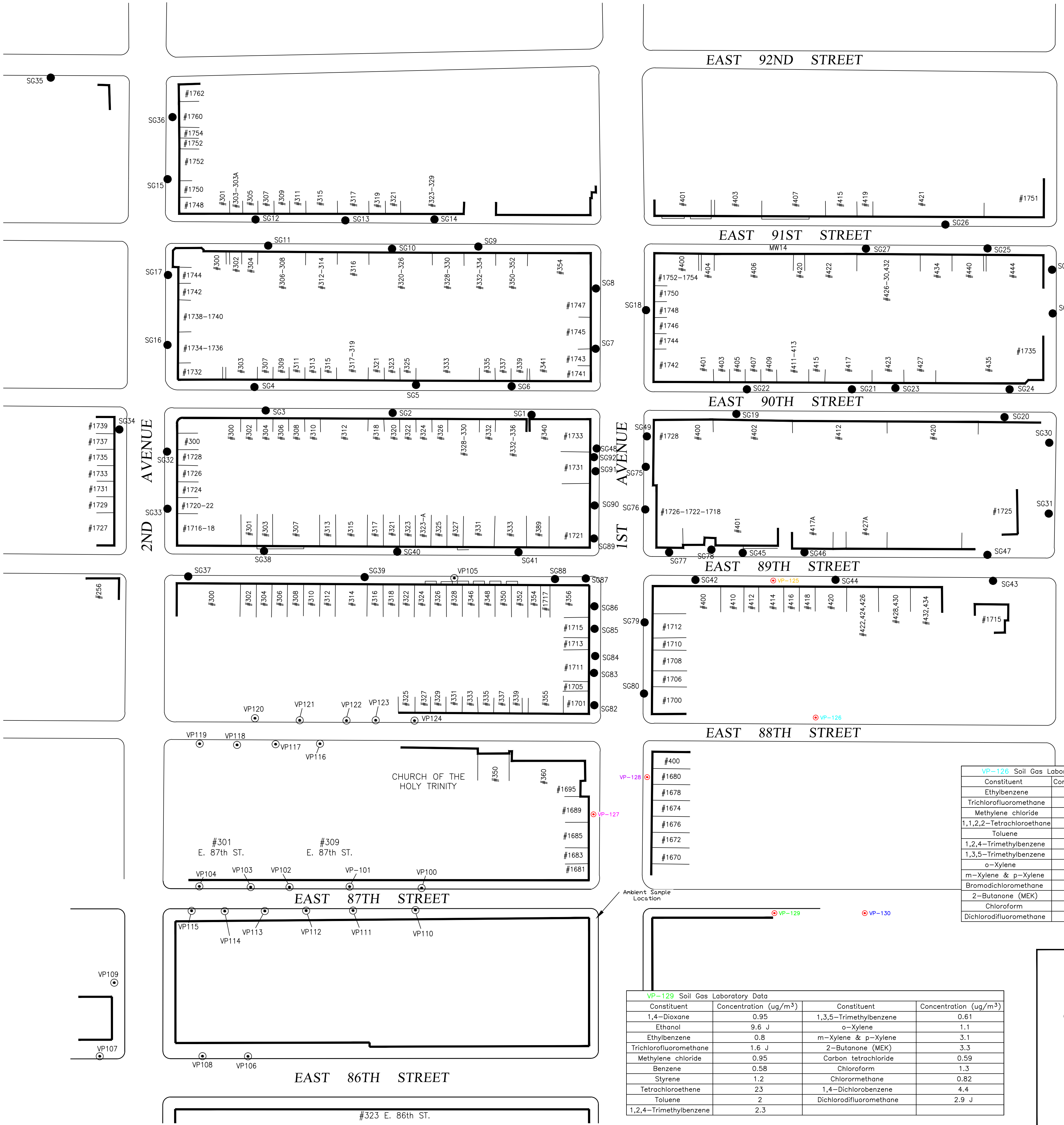
1st AVENUE AND 90th STREET
MANHATTAN, NEW YORK

DRAWN BY:
B.J.S./NC

DATE:
10/31/16

SCALE IN FEET
0 80

5 OLD DOCK ROAD, YAPHANK, NEW YORK 11980
PHONE: (631)924-3001 FAX: (631)924-5001



VP-128 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)
Benzene	35
Tetrachloroethene	5900 E
Tetrachloroethene-DL	3000 D
Toluene	54
Trichloroethene	750
Vinyl chloride	11
Chloroform	270
cis-1,2-Dichloroethene	1700

VP-125 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)	Constituent	Concentration (ug/m ³)
Ethylbenzene	3.1	m-Xylene & p-Xylene	11
Trichlorofluoromethane	1.7 J	Bromodichloromethane	2.5
Hexane	0.96	2-Butanone (MEK)	3.3
Benzene	1.5	4-Methyl-2-pentanone (MIBK)	11 J
Styrene	3.5	Dibromochloromethane	1.4
Tetrachloroethene	18	Chloroform	40
Toluene	7.1	1,4-Dichlorobenzene	17
1,2,4-Trimethylbenzene	8.5	Dichlorodifluoromethane	2.7 J
1,3,5-Trimethylbenzene	1.7	1,1-Dichloroethane	0.35
o-Xylene	4.1		

VP-127 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)	Constituent	Concentration (ug/m ³)
Ethylbenzene	3	o-Xylene	4.8
Hexane	2.2 J	m-Xylene & p-Xylene	13
Methylene chloride	1.8	2-Butanone (MEK)	5.5
Benzene	3.1	4-Methyl-2-pentanone (MIBK)	14 J
Styrene	0.55	Carbon tetrachloride	0.37
Tetrachloroethene	4	Chloroform	49
Toluene	84	Chloromethane	1.4
Trichloroethene	6.7	Cyclohexane	1.9
1,2,4-Trimethylbenzene	8.6	1,4-Dichlorobenzene	14
1,3,5-Trimethylbenzene	2.1	Dichlorodifluoromethane	2.0 J

VP-126 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)
Ethylbenzene	8.2
Trichlorofluoromethane	2.9 J
Methylene chloride	5.8
1,1,2,2-Tetrachloroethane	6.1
Toluene	4.4
1,2,4-Trimethylbenzene	26
1,3,5-Trimethylbenzene	11
o-Xylene	11
m-Xylene & p-Xylene	24
Bromodichloromethane	3.2
2-Butanone (MEK)	5.6
Chloroform	23
Dichlorodifluoromethane	3.4 J

VP-130 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)	Constituent	Concentration (ug/m ³)
1,4-Dioxane	1.9	1,2,4-Trimethylbenzene	5
Ethylbenzene	3.3	1,3,5-Trimethylbenzene	1.3
Trichlorofluoromethane	1.8 J	o-Xylene	4.2
Hexane	1.3	m-Xylene & p-Xylene	13
Methylene chloride	1	Bromodichloromethane	0.63
Benzene	1.1	2-Butanone (MEK)	8.3
Styrene	2.0 J	Carbon tetrachloride	1.4
Tetrachloroethene	470 E	Chloroform	3.5
Tetrachloroethene-DL	280 D	1,4-Dichlorobenzene	47
Toluene	11	Dichlorodifluoromethane	2.3 J
1,1,1-Trichloroethane	0.59	cis-1,2-Dichloroethane	0.6
Trichloroethene	1.4		

VP-129 Soil Gas Laboratory Data

Constituent	Concentration (ug/m ³)	Constituent	Concentration (ug/m ³)
1,4-Dioxane	0.95	1,3,5-Trimethylbenzene	0.61
Ethanol	9.6 J	o-Xylene	1.1
Ethylbenzene	0.8	m-Xylene & p-Xylene	3.1
Trichlorofluoromethane	1.6 J	2-Butanone (MEK)	3.3
Methylene chloride	0.95	Carbon tetrachloride	0.59
Benzene	0.58	Chloroform	1.3
Styrene	1.2	Chloromethane	0.82
Tetrachloroethene	23	1,4-Dichlorobenzene	4.4
Toluene	2	Dichlorodifluoromethane	2.9 J
1,2,4-Trimethylbenzene	2.3		

- LEGEND:**
- NEW SOIL GAS CONDUIT INSTALLED BY ENVIROTRAC
 - SOIL GAS CONDUIT INSTALLED BY ENVIROTRAC
 - SOIL GAS CONDUIT INSTALLED BY OTHERS

FIGURE 4
SOIL VAPOR POINT ANALYTICAL RESULTS FOR DETECTED VOCs (continued)
 1st AVENUE AND 90th STREET
 MANHATTAN, NEW YORK

APPENDIX A
Photographic Documentation

Photographic Documentation

*1st Avenue and East 90th Street
Manhattan, New York 11358*



Photograph 1: Installation of soil vapor point VP126 along East 88th Street.



Photograph 2: Installation of manhole at VP126.

Photographic Documentation

*1st Avenue and East 90th Street
Manhattan, New York 11358*



Photograph 3: View of VP126 completed.



Photograph 4: Coring of concrete at VP129 along East 87th Street.

Photographic Documentation

*1st Avenue and East 90th Street
Manhattan, New York 11358*



Photograph 5: Installation of VP129 via Geoprobe.



Photograph 6: View of VP129 completed.

Photographic Documentation

1st Avenue and East 90th Street
Manhattan, New York 11358



Photograph 7: Installation of the soil vapor implant and tubing at VP130.



Photograph 8: Waste hauler for 2 drums of drill cuttings.

Photographic Documentation

*1st Avenue and East 90th Street
Manhattan, New York 11358*



Photograph 9: Installation of larger manhole at SG-076 along 1st Avenue.



Photograph 10: Sidewalk replacement of SG-016 along 2nd Avenue.

Photographic Documentation

1st Avenue and East 90th Street
Manhattan, New York 11358



Photograph 11: View of VP 110 during sampling.



Photograph 12: View of the ambient air samples at the northwestern corner of 1st Avenue and 87th Street.

Photographic Documentation

*1st Avenue and East 90th Street
Manhattan, New York 11358*



Photograph 13: Sidewalk replacement with larger manhole (SG-079)



Photograph 14: Sidewalk replacement (VP-128)

APPENDIX B

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.:** 231008 **CallOut ID:** 126887

CallOut 08/22/2016

Contract No.: C100902 **PIN (if applicable):**

Contractor Selected: ENVIROTRAC, LTD (REM)

Site Information - Name: 1st Avenue and East 90th Street **County:** New York

Address: 1st Avenue and East 90th Street, New York

SCOPE OF WORK (Provide brief detailed description):

August 22, 2016:

- site mobilization during week of September 5, 2016
- installation of 6 permanent soil vapor points via limited access rig
- soil vapor samples collected at all new soil vapor points for VOCs
- additional soil vapor sampling at locations selected by DEC PM in field
- site survey of all new relevant site features to be completed
- daily removal of all investigation-derived waste
- sidewalk restoration at locations to be determined by DEC PM
- preparation of summary report with text, tables, figures, logs, photos

initial approved budget: \$41,750

ESTIMATED BUDGET: \$ 41,750.00

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:

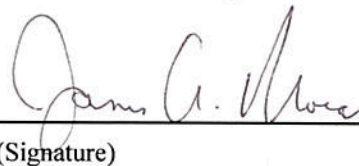
DAVE HARRINGTON / EE2
(Print)


(Signature)

Date: 8/22/16

Authorized DER Representative Name/Title:

James Moras / EE3
(Print)


(Signature)

Date: 8/23/16

APPENDIX C

Boring Logs

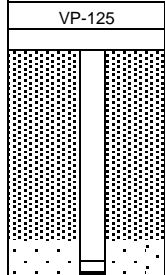



Geologic Log and Well Construction Details

VP-125

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC	Depth to Water (ft. from measuring pt.)	Site Elevation 30'
Site Name: 1st Avenue and East 90th Street	Date	DTW
Drilling Company: Associated	Method: Geoprobe	NA
Date Started: 9/7/2016	Date Completed: 9/7/2016	Measuring Point Elevation NM
Completion Depth: 6 feet	ENVIROTRAC Geologist: Wala Canario	

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES		SOIL DESCRIPTION
		Recovery (inches)	PID (ppm)	
VP-125	0	na	0.0	0-6" Concrete
	1-6	na	0.0	Hand Cleared. Coarse grayish brown dry SAND, with no odor
	5			Coarse sorted brown dry SAND, with no odor
<p>LEGEND:</p> <p> Bentonite/Grout</p> <p> Gravel Pack</p> <p> Screen</p>				
<p><u>Well Construction Details:</u></p> <p>Bottom of Well: 6'</p> <p>Screen material: 6 inch soil vapor implant</p> <p>Sand Pack: #0 FilPro Sand 5 - 6 BGS'</p> <p>Grout: 0'-5'</p> <p>Surface Seal: Concrete pad with bolt-down manhole</p>				

NTS - Not to Scale

NA- Not Applicable

NM - Not Measured

DTW - Depth to Water



Geologic Log and Well Construction Details

VP-126

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC	Depth to Water (ft. from measuring pt.)	Site Elevation 33'
Site Name: 1st Avenue and East 90th Street	Date NA	DTW NA
Drilling Company: Associated	Method: Geoprobe	Measuring Point Elevation NM
Date Started: 9/6/2016	Date Completed: 9/6/2016	
Completion Depth: 8 feet	ENVIROTRAC Geologist: Wala Canario	

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES		SOIL DESCRIPTION
		Recovery (inches)	PID (ppm)	
VP-126	0	na	0.0	0'-3' Hand cleared. Coarse sorted brown dry SAND, with no odor
[Patterned Area]	3	na	0.0	3'-8' Sorted fine brown dry SAND, with no odor
[Patterned Area]	5			
<p>LEGEND:</p> <p>[Patterned Box] Bentonite/Grout</p> <p>[Dotted Box] Gravel Pack</p> <p>[Horizontal Lines] Screen</p>				
<p><u>Well Construction Details:</u></p> <p>Bottom of Well: 8'</p> <p>Screen material: 6 inch soil vapor implant</p> <p>Sand Pack: #0 FilPro Sand 7 - 8 BGS'</p> <p>Grout: 0'-7'</p> <p>Surface Seal: Concrete pad with bolt-down manhole</p>				

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water



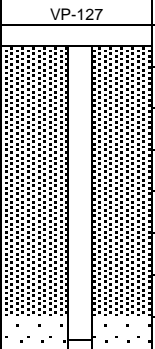



Geologic Log and Well Construction Details

VP-127

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC	Depth to Water (ft. from measuring pt.)	Site Elevation 39'
Site Name: 1st Avenue and East 90th Street	Date NA	DTW NA
Drilling Company: Associated	Method: Geoprobe	Measuring Point Elevation NM
Date Started: 9/7/2016	Date Completed: 9/7/2016	
Completion Depth: 7'10"	ENVIROTRAC Geologist: Wala Canario	

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES		SOIL DESCRIPTION
		Recovery (inches)	PID (ppm)	
<p>VP-127</p> 	<p>0</p> <p>5</p>	<p>na</p>	<p>0.0</p>	<p>0-6" Concrete</p> <p>6"-7'10" Hand Cleared to 5'. Coarse well sorted brown dry SAND, with no odor</p>
<p>LEGEND:</p> <p> Bentonite/Grout</p> <p> Gravel Pack</p> <p> Screen</p>				
<p>Well Construction Details:</p> <p>Bottom of Well: 7'10"</p> <p>Screen material: 6 inch soil vapor implant</p> <p>Sand Pack: #0 FilPro Sand 6.10 - 7.10 BGS'</p> <p>Grout: 0'-6.10'</p> <p>Surface Seal: Concrete pad with bolt-down manhole</p>				

NTS - Not to Scale

NA - Not Applicable

NM - Not Measured

DTW - Depth to Water



Geologic Log and Well Construction Details

VP-128

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC	Depth to Water (ft. from measuring pt.)	Site Elevation 38'
Site Name: 1st Avenue and East 90th Street	Date NA	DTW NA
Drilling Company: Associated	Method: Geoprobe	Measuring Point Elevation NM
Date Started: 9/7/2016	Date Completed: 9/7/2016	
Completion Depth: 4'3"	ENVIROTRAC Geologist: Wala Canario	

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES		SOIL DESCRIPTION
		Recovery (inches)	PID (ppm)	
VP-128	0	na	0.0	0-6" Concrete 6"-1' Hand Cleared to 4'. Coarse sorted brown and grey dry SAND, with no odor 1'-4'3" Coarse sorted brown dry SAND, with slight sweet odor
<p><u>Well Construction Details:</u></p> Bottom of Well: 4'3" Screen material: 6 inch soil vapor implant Sand Pack: #0 FillPro Sand 3.3' - 4.3 BGS' Grout: 0'-3.3' Surface Seal: Concrete pad with bolt-down manhole				

LEGEND:

- Bentonite/Grout
- Gravel Pack
- Screen

NTS - Not to Scale NA- Not Applicable NM - Not Measured DTW - Depth to Water



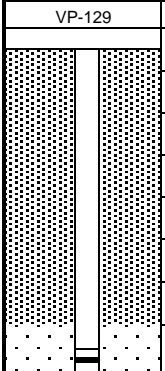



Geologic Log and Well Construction Details

VP-129

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC	Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: 1st Avenue and East 90th Street	Date	39'
Drilling Company: Associated	DTW	
Method: Geoprobe	NA	NA
Date Started: 9/6/2016		Measuring Point Elevation
Date Completed: 9/6/2016		NM
Completion Depth: 8 feet	ENVIROTRAC Geologist: Wala Canario	

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES		SOIL DESCRIPTION
		Recovery (inches)	PID (ppm)	
VP-129	0	na	0.0	0'-1' Concrete
	1'-1.5'			Hand Cleared. Coarse sorted Reddish Brown dry SAND, with no odor
	1'-3'			Hand Cleared. Sorted fine to very fine brown dry SAND, with slight sweet odor
	3'-8'	na	0.0	Hand Cleared to 5'. Sorted fine to very fine brown dry SAND, with slight sweet odor
	5			
<p>LEGEND:</p> <p> Bentonite/Grout</p> <p> Gravel Pack</p> <p> Screen</p> <p style="margin-left: 400px;"><u>Well Construction Details:</u></p> <p style="margin-left: 400px;">Bottom of Well: 8'</p> <p style="margin-left: 400px;">Screen material: 6 inch soil vapor implant</p> <p style="margin-left: 400px;">Sand Pack: #0 FillPro Sand 7 - 8 BGS'</p> <p style="margin-left: 400px;">Grout: 0'-7'</p> <p style="margin-left: 400px;">Surface Seal: Concrete pad with bolt-down manhole</p>				

NTS - Not to Scale

NA- Not Applicable

NM - Not Measured

DTW - Depth to Water



Geologic Log and Well Construction Details

VP-130

EnviroTrac Ltd.

5 Old Dock Road, Yaphank, New York 11980

Client: NYSDEC	Depth to Water (ft. from measuring pt.)	Site Elevation
Site Name: 1st Avenue and East 90th Street	Date	36'
Drilling Company: Associated	DTW	Measuring Point Elevation
Method: Geoprobe	NA	NM
Date Started: 9/6/2016	Date Completed: 9/6/2016	
Completion Depth: 8 feet	ENVIROTRAC Geologist: Wala Canario	

WELL CONSTRUCTION (NTS)	DEPTH (feet below grade)	SAMPLES		SOIL DESCRIPTION
		Recovery (inches)	PID (ppm)	
VP-130	0	na	0.0	0'-6" Concrete
VP-130	5	na	0.0	6"-1' Hand Cleared. Coarse reddish brown dry SAND, with no odor 1'-2' Hand Cleared. Black sorted coarse dry SAND, with no odor 2'-8' Hand Cleared to 5'. Sorted fine to very fine brown dry SAND, with slight sweet odor
<p>LEGEND:</p> <p> Bentonite/Grout</p> <p> Gravel Pack</p> <p> Screen</p>				
<p><u>Well Construction Details:</u></p> <p>Bottom of Well: 8'</p> <p>Screen material: 6 inch soil vapor implant</p> <p>Sand Pack: #0 FIPPro Sand 7 - 8 BGS'</p> <p>Grout: 0'-7"</p> <p>Surface Seal: Concrete pad with bolt-down manhole</p>				

NTS - Not to Scale

NA- Not Applicable

NM - Not Measured

DTW - Depth to Water



APPENDIX D

Hazardous Waste Manifests

2520218 9/19 9/23

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000127852	2. Page 1 of 1	3. Emergency Response Phone (516) 816-4765	4. Waste Tracking Number 28109
5. Generator's Name and Mailing Address NYSDEC 625 Broadway, 12th Floor Albany NY 12233 Generator's Phone: 518 482-9768			Generator's Site Address (if different than mailing address) NYSDEC 1st Avenue & 90th Street New York NY 10024		
6. Transporter 1 Company Name Metro Environmental Contracting Corp.				U.S. EPA ID Number NYR000134957	
7. Transporter 2 Company Name Republic Environmental Systems (Trans Group) LLC				U.S. EPA ID Number PAD982661381	
8. Designated Facility Name and Site Address Republic Environmental Systems (PA), LLC 2869 Sandstone Drive Hatfield PA 19440 Facility's Phone: 215 822-8896				U.S. EPA ID Number PAD085690592	
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non Hazardous Non-DOT Regulated Material (Soil)		001	DM	350	P
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information 9.1) 799147 Doc# 211631-16					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offoror's Printed/Typed Name DAVID HARRINGTON			Signature <i>David Harrington</i>	Month 9	Day 7
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit: Date leaving U.S.:		
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Keith Boyce			Signature <i>Keith Boyce</i>	Month 9	Day 7
Transporter 2 Printed/Typed Name Bosman			Signature <i>Bosman</i>	Month 9	Day 13
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number	
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month	Day
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Dean A. Visser			Signature <i>Dean A. Visser</i>	Month 09	Day 19



CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

This is to certify that the following waste material was received, managed and treated in compliance with all applicable Federal and State Laws and Regulations.

Generator: 284921 - NYSDEC

1ST AVE. & 90TH STREET
NEW YORK NY, 10024

EPA ID: NYR000127852

Facility: REPUBLIC ENV SYS INC

2869 SANDSTONE DRIVE
HATFIELD PA, 19440

EPA ID: PAD085690592

Manifest #: 28109-NYSDEC

Waste Receipt #: HAT-7521F

Date Received: 09/19/2016

Line Profile	Material Description	Treatment/ Disposal Description
1 799147-00	NON-REGULATED MATERIAL (SOIL)	H141 STORAGE, BULKING, AND/OR TRANSFER OFF-SITE - NO TREATMENT/RECOVERY/BLENDING

Name: Norma Figueroa

Title : Document Specialist

APPENDIX E

Laboratory Results

ANALYTICAL REPORT

Job Number: 140-5852-1

Job Description: 1st Ave & E. 90th St./#231008

For:

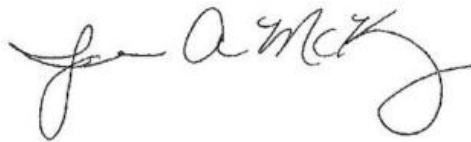
New York State D.E.C.

625 Broadway

12th Floor

Albany, NY 12233-7017

Attention: David Harrington



Approved for release.
Jamie A McKinney
Senior Project Manager
9/29/2016 9:06 AM

Jamie A McKinney, Senior Project Manager
5815 Middlebrook Pike, Knoxville, TN, 37921
(865)291-3000
jamie.mckinney@testamericainc.com
09/29/2016

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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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
140-5852-1

Comments

No additional comments.

Receipt

The samples were received on 9/17/2016 11:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA

Method(s) D1946, TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO 15 LL: The continuing calibration verification (CCV) and laboratory control sample (LCS) associated with batch 140-6625 exhibited % difference of > 30% and outside control limits for the following analyte(s) 4-Methyl-2-pentanone (MIBK), Dichlorodifluoromethane, Ethanol and Trichlorofluoromethane, however the results were within acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria. Ethanol recovered outside control limits for the LCS. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO 15 LL: The following sample was diluted due to the abundance of non-target analytes: VP-113 (140-5852-10). Elevated reporting limits (RLs) are provided.

Method(s) TO 15 LL, TO-15: The continuing calibration verification (CCV) associated with batch 140-6632 exhibited % difference of > 30% for the following analyte(s) Chloromethane, Ethanol and/or Hexachlorobutadiene; however, the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-BLIND DUP

Lab Sample ID: 140-5852-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.12		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	1.3		0.080		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	0.50		0.32		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	0.80		0.20		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.095		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.085		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	0.59		0.080		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.31		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.54		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	3.6	*	2.0		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	0.24		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.092		0.080		ppb v/v	1		TO 15 LL	Total/NA
t-Butyl alcohol	0.32		0.32		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	1.5		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	0.36		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.29		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	0.57		0.39		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	7.6		0.48		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	1.5		0.94		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	3.3		0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.30		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.53		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloroform	2.9		0.39		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	0.65		0.41		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.6		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	6.8	*	3.8		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	1.0		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	0.40		0.35		ug/m3	1		TO 15 LL	Total/NA
t-Butyl alcohol	0.97		0.97		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	10		0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	1.3		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.6		0.45		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: VP-127

Lab Sample ID: 140-5852-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.7		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.42		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	2.3		0.080		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	1.9		0.32		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	3.3		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	0.059		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	10		0.080		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.66		0.20		ppb v/v	1		TO 15 LL	Total/NA
Cyclohexane	0.57		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.41		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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-127 (Continued)

Lab Sample ID: 140-5852-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.69		0.080		ppb v/v	1		TO 15 LL	Total/NA
Hexane	0.51		0.20		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.89		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	3.1		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	1.1		0.080		ppb v/v	1		TO 15 LL	Total/NA
Styrene	0.94		0.080		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	12		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	1.8		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.40		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	8.6		0.39		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	2.1		0.39		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	14		0.48		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	5.5		0.94		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	14		0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.55		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.37		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloroform	49		0.39		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	1.4		0.41		ug/m3	1		TO 15 LL	Total/NA
Cyclohexane	1.9		0.69		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.0		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	3.0		0.35		ug/m3	1		TO 15 LL	Total/NA
Hexane	1.8		0.70		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	3.1		0.69		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	13		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	4.8		0.35		ug/m3	1		TO 15 LL	Total/NA
Styrene	4.0		0.34		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	84		0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	6.7		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	2.2		0.45		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: VP-128

Lab Sample ID: 140-5852-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		4.0		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	56		4.0		ppb v/v	1		TO 15 LL	Total/NA
cis-1,2-Dichloroethene	420		4.0		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	870	E	4.0		ppb v/v	1		TO 15 LL	Total/NA
Toluene	14		6.0		ppb v/v	1		TO 15 LL	Total/NA
Trichloroethene	140		2.0		ppb v/v	1		TO 15 LL	Total/NA
Vinyl chloride	4.5		2.0		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene - DL	450	D	12		ppb v/v	3.32		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	35		13		ug/m3	1		TO 15 LL	Total/NA
Chloroform	270		20		ug/m3	1		TO 15 LL	Total/NA
cis-1,2-Dichloroethene	1700		16		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	5900	E	27		ug/m3	1		TO 15 LL	Total/NA
Toluene	54		23		ug/m3	1		TO 15 LL	Total/NA
Trichloroethene	750		11		ug/m3	1		TO 15 LL	Total/NA
Vinyl chloride	11		5.1		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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-128 (Continued)

Lab Sample ID: 140-5852-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	3000	D	82		ug/m3	3.32		TO 15 LL	Total/NA

Client Sample ID: VP-129

Lab Sample ID: 140-5852-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.46		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.12		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	0.73		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dioxane	0.26		0.20		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	1.1		0.32		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.18		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.094		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	0.26		0.080		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.40		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.59		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	5.1	*	2.0		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	0.19		0.080		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.27		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	0.72		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.25		0.080		ppb v/v	1		TO 15 LL	Total/NA
Styrene	0.29		0.080		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	3.3		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	0.28		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	2.3		0.39		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.61		0.39		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	4.4		0.48		ug/m3	1		TO 15 LL	Total/NA
1,4-Dioxane	0.95		0.72		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	3.3		0.94		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.58		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.59		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloroform	1.3		0.39		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	0.82		0.41		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.9		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	9.6	*	3.8		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	0.80		0.35		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	0.95		0.69		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	3.1		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	1.1		0.35		ug/m3	1		TO 15 LL	Total/NA
Styrene	1.2		0.34		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	23		0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	2.0		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.6		0.45		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: VP-130

Lab Sample ID: 140-5852-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.11		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	1.0		0.080		ppb v/v	1.46		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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-130 (Continued)

Lab Sample ID: 140-5852-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	0.27		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
1,4-Dichlorobenzene	7.8		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
1,4-Dioxane	0.53		0.20		ppb v/v	1.46		TO 15 LL	Total/NA
2-Butanone	2.8		0.32		ppb v/v	1.46		TO 15 LL	Total/NA
Benzene	0.35		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
Bromodichloromethane	0.094		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
Carbon tetrachloride	0.22		0.040		ppb v/v	1.46		TO 15 LL	Total/NA
Chloroform	0.71		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
cis-1,2-Dichloroethene	0.15		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.46		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
Ethylbenzene	0.76		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
Hexane	0.37		0.20		ppb v/v	1.46		TO 15 LL	Total/NA
Methylene Chloride	0.29		0.20		ppb v/v	1.46		TO 15 LL	Total/NA
m-Xylene & p-Xylene	3.0		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
o-Xylene	0.97		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
Styrene	0.46		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
Tetrachloroethene	69	E	0.080		ppb v/v	1.46		TO 15 LL	Total/NA
Toluene	2.8		0.12		ppb v/v	1.46		TO 15 LL	Total/NA
Trichloroethene	0.27		0.040		ppb v/v	1.46		TO 15 LL	Total/NA
Trichlorofluoromethane	0.32		0.080		ppb v/v	1.46		TO 15 LL	Total/NA
Tetrachloroethene - DL	42	D	0.73		ppb v/v	1.46		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.59		0.44		ug/m3	1.46		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	5.0		0.39		ug/m3	1.46		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	1.3		0.39		ug/m3	1.46		TO 15 LL	Total/NA
1,4-Dichlorobenzene	47		0.48		ug/m3	1.46		TO 15 LL	Total/NA
1,4-Dioxane	1.9		0.72		ug/m3	1.46		TO 15 LL	Total/NA
2-Butanone	8.3		0.94		ug/m3	1.46		TO 15 LL	Total/NA
Benzene	1.1		0.26		ug/m3	1.46		TO 15 LL	Total/NA
Bromodichloromethane	0.63		0.54		ug/m3	1.46		TO 15 LL	Total/NA
Carbon tetrachloride	1.4		0.25		ug/m3	1.46		TO 15 LL	Total/NA
Chloroform	3.5		0.39		ug/m3	1.46		TO 15 LL	Total/NA
cis-1,2-Dichloroethene	0.60		0.32		ug/m3	1.46		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.3		0.40		ug/m3	1.46		TO 15 LL	Total/NA
Ethylbenzene	3.3		0.35		ug/m3	1.46		TO 15 LL	Total/NA
Hexane	1.3		0.70		ug/m3	1.46		TO 15 LL	Total/NA
Methylene Chloride	1.0		0.69		ug/m3	1.46		TO 15 LL	Total/NA
m-Xylene & p-Xylene	13		0.35		ug/m3	1.46		TO 15 LL	Total/NA
o-Xylene	4.2		0.35		ug/m3	1.46		TO 15 LL	Total/NA
Styrene	2.0		0.34		ug/m3	1.46		TO 15 LL	Total/NA
Tetrachloroethene	470	E	0.54		ug/m3	1.46		TO 15 LL	Total/NA
Toluene	11		0.45		ug/m3	1.46		TO 15 LL	Total/NA
Trichloroethene	1.4		0.21		ug/m3	1.46		TO 15 LL	Total/NA
Trichlorofluoromethane	1.8		0.45		ug/m3	1.46		TO 15 LL	Total/NA
Tetrachloroethene - DL	280	D	5.0		ug/m3	1.46		TO 15 LL	Total/NA

Client Sample ID: VP-126

Lab Sample ID: 140-5852-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	5.2		0.40		ppb v/v	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-126 (Continued)

Lab Sample ID: 140-5852-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	2.2		0.40		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	3.8		0.40		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	1.9		1.6		ppb v/v	1		TO 15 LL	Total/NA
Bromodichloromethane	0.48		0.40		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	11		0.40		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.69		0.40		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	1.9		0.40		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	1.7		1.0		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	5.5		0.40		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	2.5		0.40		ppb v/v	1		TO 15 LL	Total/NA
Styrene	1.4		0.40		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	34		0.40		ppb v/v	1		TO 15 LL	Total/NA
Toluene	1.2		0.60		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.52		0.40		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	26		2.0		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	11		2.0		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	23		2.4		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	5.6		4.7		ug/m3	1		TO 15 LL	Total/NA
Bromodichloromethane	3.2		2.7		ug/m3	1		TO 15 LL	Total/NA
Chloroform	53		2.0		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	3.4		2.0		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	8.2		1.7		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	5.8		3.5		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	24		1.7		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	11		1.7		ug/m3	1		TO 15 LL	Total/NA
Styrene	6.1		1.7		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	230		2.7		ug/m3	1		TO 15 LL	Total/NA
Toluene	4.4		2.3		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	2.9		2.2		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: VP-104

Lab Sample ID: 140-5852-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.099		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	1.1		0.080		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	2.2		0.20		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.087		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.085		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	0.59		0.080		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.33		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.55		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	2.7 *		2.0		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.47		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	0.20		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.082		0.080		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	1.5		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	0.33		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.31		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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-104 (Continued)

Lab Sample ID: 140-5852-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.49		0.39		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	6.6		0.48		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	9.1		0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.28		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.53		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloroform	2.9		0.39		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	0.69		0.41		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.7		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	5.0 *		3.8		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	0.88		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	0.36		0.35		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	10		0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	1.2		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.8		0.45		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: VP-102

Lab Sample ID: 140-5852-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.3		0.40		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	14		0.40		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	1.6		1.6		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.72		0.40		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	0.47		0.40		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	3.9		1.0		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.46		0.40		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	0.58		0.40		ppb v/v	1		TO 15 LL	Total/NA
Hexane	1.2		1.0		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	2.4		0.40		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.93		0.40		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	20		0.40		ppb v/v	1		TO 15 LL	Total/NA
Toluene	2.1		0.60		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	6.3		2.0		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	86		2.4		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	4.8		4.7		ug/m3	1		TO 15 LL	Total/NA
Benzene	2.3		1.3		ug/m3	1		TO 15 LL	Total/NA
Chloroform	2.3		2.0		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	8.1		2.1		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.3		2.0		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	2.5		1.7		ug/m3	1		TO 15 LL	Total/NA
Hexane	4.1		3.5		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	10		1.7		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	4.0		1.7		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	140		2.7		ug/m3	1		TO 15 LL	Total/NA
Toluene	7.9		2.3		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: VP-100

Lab Sample ID: 140-5852-9

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-100 (Continued)

Lab Sample ID: 140-5852-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.1		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	1.2		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.29		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	17	E	0.080		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	2.5		0.32		ppb v/v	1		TO 15 LL	Total/NA
Benzene	1.9		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.058		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	2.5		0.080		ppb v/v	1		TO 15 LL	Total/NA
Cyclohexane	0.96		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
Ethylbenzene	0.52		0.080		ppb v/v	1		TO 15 LL	Total/NA
Hexane	1.2		0.20		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.65		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	2.0		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.90		0.080		ppb v/v	1		TO 15 LL	Total/NA
Styrene	0.20		0.080		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	25	E	0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	1.5		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichloroethene	0.14		0.040		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.35		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene - DL	14	D	0.40		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene - DL	20	D	0.40		ppb v/v	1		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.8		0.44		ug/m3	1		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	5.9		0.39		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	1.4		0.39		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	100	E	0.48		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	7.5		0.94		ug/m3	1		TO 15 LL	Total/NA
Benzene	6.1		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.37		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloroform	12		0.39		ug/m3	1		TO 15 LL	Total/NA
Cyclohexane	3.3		0.69		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.3		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	2.2		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	2.3		0.69		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	8.8		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	3.9		0.35		ug/m3	1		TO 15 LL	Total/NA
Styrene	0.87		0.34		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	170	E	0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	5.8		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichloroethene	0.78		0.21		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	2.0		0.45		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene - DL	84	D	2.4		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene - DL	140	D	2.7		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: VP-113

Lab Sample ID: 140-5852-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	11		4.3		ppb v/v	4.26		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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-113 (Continued)

Lab Sample ID: 140-5852-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	38		4.3		ppb v/v	4.26		TO 15 LL	Total/NA
Cyclohexane	61		11		ppb v/v	4.26		TO 15 LL	Total/NA
Hexane	150		11		ppb v/v	4.26		TO 15 LL	Total/NA
Methylene Chloride	23		11		ppb v/v	4.26		TO 15 LL	Total/NA
Tetrachloroethene	11		4.3		ppb v/v	4.26		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	65		26		ug/m3	4.26		TO 15 LL	Total/NA
Benzene	120		14		ug/m3	4.26		TO 15 LL	Total/NA
Cyclohexane	210		37		ug/m3	4.26		TO 15 LL	Total/NA
Hexane	540		38		ug/m3	4.26		TO 15 LL	Total/NA
Methylene Chloride	80		37		ug/m3	4.26		TO 15 LL	Total/NA
Tetrachloroethene	74		29		ug/m3	4.26		TO 15 LL	Total/NA

Client Sample ID: VP-112

Lab Sample ID: 140-5852-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	0.080		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	1.4		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.29		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	17	E	0.080		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	12		0.32		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	0.47		0.20		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.22		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.098		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	1.3		0.080		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.41		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	0.59		0.080		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.33		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	2.4		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.93		0.080		ppb v/v	1		TO 15 LL	Total/NA
Styrene	0.25		0.080		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	67	E	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
Trichloroethene	0.24		0.040		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.29		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene - DL	12	D	0.80		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene - DL	35	D	0.80		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	0.62		0.61		ug/m3	1		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	6.8		0.39		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	1.4		0.39		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	100	E	0.48		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	36		0.94		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	1.9		0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.70		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.62		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloroform	6.3		0.39		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.0		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	2.6		0.35		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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-112 (Continued)

Lab Sample ID: 140-5852-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	10		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	4.1		0.35		ug/m3	1		TO 15 LL	Total/NA
Styrene	1.1		0.34		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	450	E	0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	8.0		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichloroethene	1.3		0.21		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.6		0.45		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene - DL	70	D	4.8		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene - DL	230	D	5.4		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: VP-110

Lab Sample ID: 140-5852-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	0.098		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	1.5		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.32		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	20	E	0.080		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	5.6		0.32		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	0.60		0.20		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	0.078		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	1.5		0.080		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.65		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	2.0	*	2.0		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	0.65		0.080		ppb v/v	1		TO 15 LL	Total/NA
Hexane	0.20		0.20		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.36		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	2.7		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	1.0		0.080		ppb v/v	1		TO 15 LL	Total/NA
Styrene	0.29		0.080		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	43	E	0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	2.2		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichloroethene	0.074		0.040		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.34		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene - DL	13	D	0.80		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene - DL	24	D	0.80		ppb v/v	1		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	0.75		0.61		ug/m3	1		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	7.6		0.39		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	1.6		0.39		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	120	E	0.48		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	17		0.94		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	2.5		0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.75		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.49		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloroform	7.2		0.39		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	3.2		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	3.7	*	3.8		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	2.8		0.35		ug/m3	1		TO 15 LL	Total/NA
Hexane	0.71		0.70		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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-110 (Continued)

Lab Sample ID: 140-5852-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.2		0.69		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	12		0.35		ug/m3	1		TO 15 LL	Total/NA
o-Xylene	4.4		0.35		ug/m3	1		TO 15 LL	Total/NA
Styrene	1.2		0.34		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	290	E	0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	8.4		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichloroethene	0.40		0.21		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.9		0.45		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene - DL	76	D	4.8		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene - DL	170	D	5.4		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: VP-125

Lab Sample ID: 140-5852-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.085		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	1.7		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	0.34		0.080		ppb v/v	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	2.9		0.080		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	1.1		0.32		ppb v/v	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	2.6		0.20		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.47		0.080		ppb v/v	1		TO 15 LL	Total/NA
Bromodichloromethane	0.37		0.080		ppb v/v	1		TO 15 LL	Total/NA
Chloroform	8.2		0.080		ppb v/v	1		TO 15 LL	Total/NA
Dibromochloromethane	0.16		0.080		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.55		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethylbenzene	0.71		0.080		ppb v/v	1		TO 15 LL	Total/NA
Hexane	0.27		0.20		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.47		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	2.6		0.080		ppb v/v	1		TO 15 LL	Total/NA
o-Xylene	0.95		0.080		ppb v/v	1		TO 15 LL	Total/NA
Styrene	0.83		0.080		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	2.6		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	1.9		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.30		0.080		ppb v/v	1		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.35		0.32		ug/m3	1		TO 15 LL	Total/NA
1,2,4-Trimethylbenzene	8.5		0.39		ug/m3	1		TO 15 LL	Total/NA
1,3,5-Trimethylbenzene	1.7		0.39		ug/m3	1		TO 15 LL	Total/NA
1,4-Dichlorobenzene	17		0.48		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	3.3		0.94		ug/m3	1		TO 15 LL	Total/NA
4-Methyl-2-pentanone (MIBK)	11		0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	1.5		0.26		ug/m3	1		TO 15 LL	Total/NA
Bromodichloromethane	2.5		0.54		ug/m3	1		TO 15 LL	Total/NA
Chloroform	40		0.39		ug/m3	1		TO 15 LL	Total/NA
Dibromochloromethane	1.4		0.68		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.7		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethylbenzene	3.1		0.35		ug/m3	1		TO 15 LL	Total/NA
Hexane	0.96		0.70		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	11		0.35		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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-125 (Continued)

Lab Sample ID: 140-5852-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	4.1		0.35		ug/m3	1		TO 15 LL	Total/NA
Styrene	3.5		0.34		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	18		0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	7.1		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.7		0.45		ug/m3	1		TO 15 LL	Total/NA

Client Sample ID: AMBIENT AIR

Lab Sample ID: 140-5852-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone (MIBK)	1.1		0.20		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.18		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.092		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.44		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.60		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	5.8	*	2.0		ppb v/v	1		TO 15 LL	Total/NA
Hexane	0.25		0.20		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	1.5		0.20		ppb v/v	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	0.17		0.080		ppb v/v	1		TO 15 LL	Total/NA
Tetrachloroethene	0.33		0.080		ppb v/v	1		TO 15 LL	Total/NA
Toluene	0.57		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.30		0.080		ppb v/v	1		TO 15 LL	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone (MIBK)	4.6		0.82		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.57		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.58		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	0.91		0.41		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	3.0		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	11	*	3.8		ug/m3	1		TO 15 LL	Total/NA
Hexane	0.87		0.70		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	5.1		0.69		ug/m3	1		TO 15 LL	Total/NA
m-Xylene & p-Xylene	0.73		0.35		ug/m3	1		TO 15 LL	Total/NA
Tetrachloroethene	2.3		0.54		ug/m3	1		TO 15 LL	Total/NA
Toluene	2.2		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.7		0.45		ug/m3	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: New York State D.E.C.
 Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-BLIND DUP

Lab Sample ID: 140-5852-1

Date Collected: 09/15/16 15:10

Matrix: Air

Date Received: 09/17/16 11:10

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			09/21/16 16:46	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/21/16 16:46	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/21/16 16:46	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/21/16 16:46	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/21/16 16:46	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/21/16 16:46	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/21/16 16:46	1
1,2,4-Trimethylbenzene	0.12		0.080		ppb v/v			09/21/16 16:46	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/21/16 16:46	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 16:46	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/21/16 16:46	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/21/16 16:46	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/21/16 16:46	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			09/21/16 16:46	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 16:46	1
1,4-Dichlorobenzene	1.3		0.080		ppb v/v			09/21/16 16:46	1
1,4-Dioxane	ND		0.20		ppb v/v			09/21/16 16:46	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/21/16 16:46	1
2-Butanone	0.50		0.32		ppb v/v			09/21/16 16:46	1
4-Methyl-2-pentanone (MIBK)	0.80		0.20		ppb v/v			09/21/16 16:46	1
Benzene	0.095		0.080		ppb v/v			09/21/16 16:46	1
Benzyl chloride	ND		0.16		ppb v/v			09/21/16 16:46	1
Bromodichloromethane	ND		0.080		ppb v/v			09/21/16 16:46	1
Bromoform	ND		0.080		ppb v/v			09/21/16 16:46	1
Bromomethane	ND		0.080		ppb v/v			09/21/16 16:46	1
Carbon tetrachloride	0.085		0.040		ppb v/v			09/21/16 16:46	1
Chlorobenzene	ND		0.080		ppb v/v			09/21/16 16:46	1
Chloroethane	ND		0.080		ppb v/v			09/21/16 16:46	1
Chloroform	0.59		0.080		ppb v/v			09/21/16 16:46	1
Chloromethane	0.31		0.20		ppb v/v			09/21/16 16:46	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 16:46	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 16:46	1
Cyclohexane	ND		0.20		ppb v/v			09/21/16 16:46	1
Dibromochloromethane	ND		0.080		ppb v/v			09/21/16 16:46	1
Dichlorodifluoromethane	0.54		0.080		ppb v/v			09/21/16 16:46	1
Ethanol	3.6 *		2.0		ppb v/v			09/21/16 16:46	1
Ethylbenzene	ND		0.080		ppb v/v			09/21/16 16:46	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/21/16 16:46	1
Hexane	ND		0.20		ppb v/v			09/21/16 16:46	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/21/16 16:46	1
Methylene Chloride	0.29		0.20		ppb v/v			09/21/16 16:46	1
m-Xylene & p-Xylene	0.24		0.080		ppb v/v			09/21/16 16:46	1
o-Xylene	0.092		0.080		ppb v/v			09/21/16 16:46	1
Styrene	ND		0.080		ppb v/v			09/21/16 16:46	1
t-Butyl alcohol	0.32		0.32		ppb v/v			09/21/16 16:46	1
Tetrachloroethene	1.5		0.080		ppb v/v			09/21/16 16:46	1
Toluene	0.36		0.12		ppb v/v			09/21/16 16:46	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 16:46	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-BLIND DUP

Lab Sample ID: 140-5852-1

Date Collected: 09/15/16 15:10

Matrix: Air

Date Received: 09/17/16 11:10

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			09/21/16 16:46	1
Trichloroethene	ND		0.040		ppb v/v			09/21/16 16:46	1
Trichlorofluoromethane	0.29		0.080		ppb v/v			09/21/16 16:46	1
Vinyl chloride	ND		0.040		ppb v/v			09/21/16 16:46	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/21/16 16:46	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/21/16 16:46	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/21/16 16:46	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/21/16 16:46	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/21/16 16:46	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/21/16 16:46	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/21/16 16:46	1
1,2,4-Trimethylbenzene	0.57		0.39		ug/m3			09/21/16 16:46	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/21/16 16:46	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 16:46	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/21/16 16:46	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/21/16 16:46	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/21/16 16:46	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			09/21/16 16:46	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 16:46	1
1,4-Dichlorobenzene	7.6		0.48		ug/m3			09/21/16 16:46	1
1,4-Dioxane	ND		0.72		ug/m3			09/21/16 16:46	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/21/16 16:46	1
2-Butanone	1.5		0.94		ug/m3			09/21/16 16:46	1
4-Methyl-2-pentanone (MIBK)	3.3		0.82		ug/m3			09/21/16 16:46	1
Benzene	0.30		0.26		ug/m3			09/21/16 16:46	1
Benzyl chloride	ND		0.83		ug/m3			09/21/16 16:46	1
Bromodichloromethane	ND		0.54		ug/m3			09/21/16 16:46	1
Bromoform	ND		0.83		ug/m3			09/21/16 16:46	1
Bromomethane	ND		0.31		ug/m3			09/21/16 16:46	1
Carbon tetrachloride	0.53		0.25		ug/m3			09/21/16 16:46	1
Chlorobenzene	ND		0.37		ug/m3			09/21/16 16:46	1
Chloroethane	ND		0.21		ug/m3			09/21/16 16:46	1
Chloroform	2.9		0.39		ug/m3			09/21/16 16:46	1
Chloromethane	0.65		0.41		ug/m3			09/21/16 16:46	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 16:46	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 16:46	1
Cyclohexane	ND		0.69		ug/m3			09/21/16 16:46	1
Dibromochloromethane	ND		0.68		ug/m3			09/21/16 16:46	1
Dichlorodifluoromethane	2.6		0.40		ug/m3			09/21/16 16:46	1
Ethanol	6.8 *		3.8		ug/m3			09/21/16 16:46	1
Ethylbenzene	ND		0.35		ug/m3			09/21/16 16:46	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/21/16 16:46	1
Hexane	ND		0.70		ug/m3			09/21/16 16:46	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/21/16 16:46	1
Methylene Chloride	1.0		0.69		ug/m3			09/21/16 16:46	1
m-Xylene & p-Xylene	1.0		0.35		ug/m3			09/21/16 16:46	1
o-Xylene	0.40		0.35		ug/m3			09/21/16 16:46	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-BLIND DUP

Lab Sample ID: 140-5852-1

Date Collected: 09/15/16 15:10

Matrix: Air

Date Received: 09/17/16 11:10

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	ND		0.34		ug/m3			09/21/16 16:46	1
t-Butyl alcohol	0.97		0.97		ug/m3			09/21/16 16:46	1
Tetrachloroethene	10		0.54		ug/m3			09/21/16 16:46	1
Toluene	1.3		0.45		ug/m3			09/21/16 16:46	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 16:46	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 16:46	1
Trichloroethene	ND		0.21		ug/m3			09/21/16 16:46	1
Trichlorofluoromethane	1.6		0.45		ug/m3			09/21/16 16:46	1
Vinyl chloride	ND		0.10		ug/m3			09/21/16 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		60 - 140					09/21/16 16:46	1

Client Sample ID: VP-127

Lab Sample ID: 140-5852-2

Date Collected: 09/15/16 12:38

Matrix: Air

Date Received: 09/17/16 11:10

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			09/21/16 17:32	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/21/16 17:32	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/21/16 17:32	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/21/16 17:32	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/21/16 17:32	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/21/16 17:32	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/21/16 17:32	1
1,2,4-Trimethylbenzene	1.7		0.080		ppb v/v			09/21/16 17:32	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/21/16 17:32	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 17:32	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/21/16 17:32	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/21/16 17:32	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/21/16 17:32	1
1,3,5-Trimethylbenzene	0.42		0.080		ppb v/v			09/21/16 17:32	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 17:32	1
1,4-Dichlorobenzene	2.3		0.080		ppb v/v			09/21/16 17:32	1
1,4-Dioxane	ND		0.20		ppb v/v			09/21/16 17:32	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/21/16 17:32	1
2-Butanone	1.9		0.32		ppb v/v			09/21/16 17:32	1
4-Methyl-2-pentanone (MIBK)	3.3		0.20		ppb v/v			09/21/16 17:32	1
Benzene	0.17		0.080		ppb v/v			09/21/16 17:32	1
Benzyl chloride	ND		0.16		ppb v/v			09/21/16 17:32	1
Bromodichloromethane	ND		0.080		ppb v/v			09/21/16 17:32	1
Bromoform	ND		0.080		ppb v/v			09/21/16 17:32	1
Bromomethane	ND		0.080		ppb v/v			09/21/16 17:32	1
Carbon tetrachloride	0.059		0.040		ppb v/v			09/21/16 17:32	1
Chlorobenzene	ND		0.080		ppb v/v			09/21/16 17:32	1
Chloroethane	ND		0.080		ppb v/v			09/21/16 17:32	1
Chloroform	10		0.080		ppb v/v			09/21/16 17:32	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-127

Lab Sample ID: 140-5852-2

Date Collected: 09/15/16 12:38

Matrix: Air

Date Received: 09/17/16 11:10

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	0.66		0.20		ppb v/v			09/21/16 17:32	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 17:32	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 17:32	1
Cyclohexane	0.57		0.20		ppb v/v			09/21/16 17:32	1
Dibromochloromethane	ND		0.080		ppb v/v			09/21/16 17:32	1
Dichlorodifluoromethane	0.41		0.080		ppb v/v			09/21/16 17:32	1
Ethanol	ND *		2.0		ppb v/v			09/21/16 17:32	1
Ethylbenzene	0.69		0.080		ppb v/v			09/21/16 17:32	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/21/16 17:32	1
Hexane	0.51		0.20		ppb v/v			09/21/16 17:32	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/21/16 17:32	1
Methylene Chloride	0.89		0.20		ppb v/v			09/21/16 17:32	1
m-Xylene & p-Xylene	3.1		0.080		ppb v/v			09/21/16 17:32	1
o-Xylene	1.1		0.080		ppb v/v			09/21/16 17:32	1
Styrene	0.94		0.080		ppb v/v			09/21/16 17:32	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/21/16 17:32	1
Tetrachloroethene	12		0.080		ppb v/v			09/21/16 17:32	1
Toluene	1.8		0.12		ppb v/v			09/21/16 17:32	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 17:32	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 17:32	1
Trichloroethene	ND		0.040		ppb v/v			09/21/16 17:32	1
Trichlorofluoromethane	0.40		0.080		ppb v/v			09/21/16 17:32	1
Vinyl chloride	ND		0.040		ppb v/v			09/21/16 17:32	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/21/16 17:32	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/21/16 17:32	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/21/16 17:32	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/21/16 17:32	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/21/16 17:32	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/21/16 17:32	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/21/16 17:32	1
1,2,4-Trimethylbenzene	8.6		0.39		ug/m3			09/21/16 17:32	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/21/16 17:32	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 17:32	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/21/16 17:32	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/21/16 17:32	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/21/16 17:32	1
1,3,5-Trimethylbenzene	2.1		0.39		ug/m3			09/21/16 17:32	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 17:32	1
1,4-Dichlorobenzene	14		0.48		ug/m3			09/21/16 17:32	1
1,4-Dioxane	ND		0.72		ug/m3			09/21/16 17:32	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/21/16 17:32	1
2-Butanone	5.5		0.94		ug/m3			09/21/16 17:32	1
4-Methyl-2-pentanone (MIBK)	14		0.82		ug/m3			09/21/16 17:32	1
Benzene	0.55		0.26		ug/m3			09/21/16 17:32	1
Benzyl chloride	ND		0.83		ug/m3			09/21/16 17:32	1
Bromodichloromethane	ND		0.54		ug/m3			09/21/16 17:32	1
Bromoform	ND		0.83		ug/m3			09/21/16 17:32	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-127

Lab Sample ID: 140-5852-2

Date Collected: 09/15/16 12:38

Matrix: Air

Date Received: 09/17/16 11:10

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			09/21/16 17:32	1
Carbon tetrachloride	0.37		0.25		ug/m3			09/21/16 17:32	1
Chlorobenzene	ND		0.37		ug/m3			09/21/16 17:32	1
Chloroethane	ND		0.21		ug/m3			09/21/16 17:32	1
Chloroform	49		0.39		ug/m3			09/21/16 17:32	1
Chloromethane	1.4		0.41		ug/m3			09/21/16 17:32	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 17:32	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 17:32	1
Cyclohexane	1.9		0.69		ug/m3			09/21/16 17:32	1
Dibromochloromethane	ND		0.68		ug/m3			09/21/16 17:32	1
Dichlorodifluoromethane	2.0		0.40		ug/m3			09/21/16 17:32	1
Ethanol	ND *		3.8		ug/m3			09/21/16 17:32	1
Ethylbenzene	3.0		0.35		ug/m3			09/21/16 17:32	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/21/16 17:32	1
Hexane	1.8		0.70		ug/m3			09/21/16 17:32	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/21/16 17:32	1
Methylene Chloride	3.1		0.69		ug/m3			09/21/16 17:32	1
m-Xylene & p-Xylene	13		0.35		ug/m3			09/21/16 17:32	1
o-Xylene	4.8		0.35		ug/m3			09/21/16 17:32	1
Styrene	4.0		0.34		ug/m3			09/21/16 17:32	1
t-Butyl alcohol	ND		0.97		ug/m3			09/21/16 17:32	1
Tetrachloroethene	84		0.54		ug/m3			09/21/16 17:32	1
Toluene	6.7		0.45		ug/m3			09/21/16 17:32	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 17:32	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 17:32	1
Trichloroethene	ND		0.21		ug/m3			09/21/16 17:32	1
Trichlorofluoromethane	2.2		0.45		ug/m3			09/21/16 17:32	1
Vinyl chloride	ND		0.10		ug/m3			09/21/16 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		60 - 140		09/21/16 17:32	1

Client Sample ID: VP-128

Lab Sample ID: 140-5852-3

Date Collected: 09/15/16 12:42

Matrix: Air

Date Received: 09/17/16 11:10

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		4.0		ppb v/v			09/21/16 18:15	1
1,1,2,2-Tetrachloroethane	ND		4.0		ppb v/v			09/21/16 18:15	1
1,1,2-Trichloroethane	ND		4.0		ppb v/v			09/21/16 18:15	1
1,1,2-Trichlorotrifluoroethane	ND		4.0		ppb v/v			09/21/16 18:15	1
1,1-Dichloroethane	ND		4.0		ppb v/v			09/21/16 18:15	1
1,1-Dichloroethene	ND		4.0		ppb v/v			09/21/16 18:15	1
1,2,4-Trichlorobenzene	ND		4.0		ppb v/v			09/21/16 18:15	1
1,2,4-Trimethylbenzene	ND		4.0		ppb v/v			09/21/16 18:15	1
1,2-Dibromoethane	ND		4.0		ppb v/v			09/21/16 18:15	1
1,2-Dichlorobenzene	ND		4.0		ppb v/v			09/21/16 18:15	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-128

Lab Sample ID: 140-5852-3

Date Collected: 09/15/16 12:42

Matrix: Air

Date Received: 09/17/16 11:10

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		4.0		ppb v/v			09/21/16 18:15	1
1,2-Dichloropropane	ND		4.0		ppb v/v			09/21/16 18:15	1
1,2-Dichlorotetrafluoroethane	ND		4.0		ppb v/v			09/21/16 18:15	1
1,3,5-Trimethylbenzene	ND		4.0		ppb v/v			09/21/16 18:15	1
1,3-Dichlorobenzene	ND		4.0		ppb v/v			09/21/16 18:15	1
1,4-Dichlorobenzene	ND		4.0		ppb v/v			09/21/16 18:15	1
1,4-Dioxane	ND		10		ppb v/v			09/21/16 18:15	1
2,2,4-Trimethylpentane	ND		10		ppb v/v			09/21/16 18:15	1
2-Butanone	ND		16		ppb v/v			09/21/16 18:15	1
4-Methyl-2-pentanone (MIBK)	ND		10		ppb v/v			09/21/16 18:15	1
Benzene	11		4.0		ppb v/v			09/21/16 18:15	1
Benzyl chloride	ND		8.0		ppb v/v			09/21/16 18:15	1
Bromodichloromethane	ND		4.0		ppb v/v			09/21/16 18:15	1
Bromoform	ND		4.0		ppb v/v			09/21/16 18:15	1
Bromomethane	ND		4.0		ppb v/v			09/21/16 18:15	1
Carbon tetrachloride	ND		2.0		ppb v/v			09/21/16 18:15	1
Chlorobenzene	ND		4.0		ppb v/v			09/21/16 18:15	1
Chloroethane	ND		4.0		ppb v/v			09/21/16 18:15	1
Chloroform	56		4.0		ppb v/v			09/21/16 18:15	1
Chloromethane	ND		10		ppb v/v			09/21/16 18:15	1
cis-1,2-Dichloroethene	420		4.0		ppb v/v			09/21/16 18:15	1
cis-1,3-Dichloropropene	ND		4.0		ppb v/v			09/21/16 18:15	1
Cyclohexane	ND		10		ppb v/v			09/21/16 18:15	1
Dibromochloromethane	ND		4.0		ppb v/v			09/21/16 18:15	1
Dichlorodifluoromethane	ND		4.0		ppb v/v			09/21/16 18:15	1
Ethanol	ND *		100		ppb v/v			09/21/16 18:15	1
Ethylbenzene	ND		4.0		ppb v/v			09/21/16 18:15	1
Hexachlorobutadiene	ND		4.0		ppb v/v			09/21/16 18:15	1
Hexane	ND		10		ppb v/v			09/21/16 18:15	1
Methyl tert-butyl ether	ND		8.0		ppb v/v			09/21/16 18:15	1
Methylene Chloride	ND		10		ppb v/v			09/21/16 18:15	1
m-Xylene & p-Xylene	ND		4.0		ppb v/v			09/21/16 18:15	1
o-Xylene	ND		4.0		ppb v/v			09/21/16 18:15	1
Styrene	ND		4.0		ppb v/v			09/21/16 18:15	1
t-Butyl alcohol	ND		16		ppb v/v			09/21/16 18:15	1
Tetrachloroethene	870 E		4.0		ppb v/v			09/21/16 18:15	1
Toluene	14		6.0		ppb v/v			09/21/16 18:15	1
trans-1,2-Dichloroethene	ND		4.0		ppb v/v			09/21/16 18:15	1
trans-1,3-Dichloropropene	ND		4.0		ppb v/v			09/21/16 18:15	1
Trichloroethene	140		2.0		ppb v/v			09/21/16 18:15	1
Trichlorofluoromethane	ND		4.0		ppb v/v			09/21/16 18:15	1
Vinyl chloride	4.5		2.0		ppb v/v			09/21/16 18:15	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		22		ug/m3			09/21/16 18:15	1
1,1,2,2-Tetrachloroethane	ND		27		ug/m3			09/21/16 18:15	1
1,1,2-Trichloroethane	ND		22		ug/m3			09/21/16 18:15	1
1,1,2-Trichlorotrifluoroethane	ND		31		ug/m3			09/21/16 18:15	1
1,1-Dichloroethane	ND		16		ug/m3			09/21/16 18:15	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-128

Lab Sample ID: 140-5852-3

Date Collected: 09/15/16 12:42

Matrix: Air

Date Received: 09/17/16 11:10

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		16		ug/m3			09/21/16 18:15	1
1,2,4-Trichlorobenzene	ND		30		ug/m3			09/21/16 18:15	1
1,2,4-Trimethylbenzene	ND		20		ug/m3			09/21/16 18:15	1
1,2-Dibromoethane	ND		31		ug/m3			09/21/16 18:15	1
1,2-Dichlorobenzene	ND		24		ug/m3			09/21/16 18:15	1
1,2-Dichloroethane	ND		16		ug/m3			09/21/16 18:15	1
1,2-Dichloropropane	ND		18		ug/m3			09/21/16 18:15	1
1,2-Dichlorotetrafluoroethane	ND		28		ug/m3			09/21/16 18:15	1
1,3,5-Trimethylbenzene	ND		20		ug/m3			09/21/16 18:15	1
1,3-Dichlorobenzene	ND		24		ug/m3			09/21/16 18:15	1
1,4-Dichlorobenzene	ND		24		ug/m3			09/21/16 18:15	1
1,4-Dioxane	ND		36		ug/m3			09/21/16 18:15	1
2,2,4-Trimethylpentane	ND		47		ug/m3			09/21/16 18:15	1
2-Butanone	ND		47		ug/m3			09/21/16 18:15	1
4-Methyl-2-pentanone (MIBK)	ND		41		ug/m3			09/21/16 18:15	1
Benzene	35		13		ug/m3			09/21/16 18:15	1
Benzyl chloride	ND		41		ug/m3			09/21/16 18:15	1
Bromodichloromethane	ND		27		ug/m3			09/21/16 18:15	1
Bromoform	ND		41		ug/m3			09/21/16 18:15	1
Bromomethane	ND		16		ug/m3			09/21/16 18:15	1
Carbon tetrachloride	ND		13		ug/m3			09/21/16 18:15	1
Chlorobenzene	ND		18		ug/m3			09/21/16 18:15	1
Chloroethane	ND		11		ug/m3			09/21/16 18:15	1
Chloroform	270		20		ug/m3			09/21/16 18:15	1
Chloromethane	ND		21		ug/m3			09/21/16 18:15	1
cis-1,2-Dichloroethene	1700		16		ug/m3			09/21/16 18:15	1
cis-1,3-Dichloropropene	ND		18		ug/m3			09/21/16 18:15	1
Cyclohexane	ND		34		ug/m3			09/21/16 18:15	1
Dibromochloromethane	ND		34		ug/m3			09/21/16 18:15	1
Dichlorodifluoromethane	ND		20		ug/m3			09/21/16 18:15	1
Ethanol	ND *		190		ug/m3			09/21/16 18:15	1
Ethylbenzene	ND		17		ug/m3			09/21/16 18:15	1
Hexachlorobutadiene	ND		43		ug/m3			09/21/16 18:15	1
Hexane	ND		35		ug/m3			09/21/16 18:15	1
Methyl tert-butyl ether	ND		29		ug/m3			09/21/16 18:15	1
Methylene Chloride	ND		35		ug/m3			09/21/16 18:15	1
m-Xylene & p-Xylene	ND		17		ug/m3			09/21/16 18:15	1
o-Xylene	ND		17		ug/m3			09/21/16 18:15	1
Styrene	ND		17		ug/m3			09/21/16 18:15	1
t-Butyl alcohol	ND		49		ug/m3			09/21/16 18:15	1
Tetrachloroethene	5900 E		27		ug/m3			09/21/16 18:15	1
Toluene	54		23		ug/m3			09/21/16 18:15	1
trans-1,2-Dichloroethene	ND		16		ug/m3			09/21/16 18:15	1
trans-1,3-Dichloropropene	ND		18		ug/m3			09/21/16 18:15	1
Trichloroethene	750		11		ug/m3			09/21/16 18:15	1
Trichlorofluoromethane	ND		22		ug/m3			09/21/16 18:15	1
Vinyl chloride	11		5.1		ug/m3			09/21/16 18:15	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-128

Lab Sample ID: 140-5852-3

Date Collected: 09/15/16 12:42

Matrix: Air

Date Received: 09/17/16 11:10

Sample Container: Summa Canister 6L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		60 - 140		09/21/16 18:15	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
Tetrachloroethene	450	D	12		ppb v/v			09/23/16 03:32	3.32
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	3000	D	82		ug/m3			09/23/16 03:32	3.32

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140		09/23/16 03:32	3.32

Client Sample ID: VP-129

Lab Sample ID: 140-5852-4

Date Collected: 09/15/16 13:15

Matrix: Air

Date Received: 09/17/16 11:10

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			09/21/16 19:01	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/21/16 19:01	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/21/16 19:01	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/21/16 19:01	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/21/16 19:01	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/21/16 19:01	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/21/16 19:01	1
1,2,4-Trimethylbenzene	0.46		0.080		ppb v/v			09/21/16 19:01	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/21/16 19:01	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 19:01	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/21/16 19:01	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/21/16 19:01	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/21/16 19:01	1
1,3,5-Trimethylbenzene	0.12		0.080		ppb v/v			09/21/16 19:01	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 19:01	1
1,4-Dichlorobenzene	0.73		0.080		ppb v/v			09/21/16 19:01	1
1,4-Dioxane	0.26		0.20		ppb v/v			09/21/16 19:01	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/21/16 19:01	1
2-Butanone	1.1		0.32		ppb v/v			09/21/16 19:01	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			09/21/16 19:01	1
Benzene	0.18		0.080		ppb v/v			09/21/16 19:01	1
Benzyl chloride	ND		0.16		ppb v/v			09/21/16 19:01	1
Bromodichloromethane	ND		0.080		ppb v/v			09/21/16 19:01	1
Bromoform	ND		0.080		ppb v/v			09/21/16 19:01	1
Bromomethane	ND		0.080		ppb v/v			09/21/16 19:01	1
Carbon tetrachloride	0.094		0.040		ppb v/v			09/21/16 19:01	1
Chlorobenzene	ND		0.080		ppb v/v			09/21/16 19:01	1
Chloroethane	ND		0.080		ppb v/v			09/21/16 19:01	1
Chloroform	0.26		0.080		ppb v/v			09/21/16 19:01	1
Chloromethane	0.40		0.20		ppb v/v			09/21/16 19:01	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 19:01	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-129

Lab Sample ID: 140-5852-4

Date Collected: 09/15/16 13:15

Matrix: Air

Date Received: 09/17/16 11:10

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-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 19:01	1
Cyclohexane	ND		0.20		ppb v/v			09/21/16 19:01	1
Dibromochloromethane	ND		0.080		ppb v/v			09/21/16 19:01	1
Dichlorodifluoromethane	0.59		0.080		ppb v/v			09/21/16 19:01	1
Ethanol	5.1	*	2.0		ppb v/v			09/21/16 19:01	1
Ethylbenzene	0.19		0.080		ppb v/v			09/21/16 19:01	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/21/16 19:01	1
Hexane	ND		0.20		ppb v/v			09/21/16 19:01	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/21/16 19:01	1
Methylene Chloride	0.27		0.20		ppb v/v			09/21/16 19:01	1
m-Xylene & p-Xylene	0.72		0.080		ppb v/v			09/21/16 19:01	1
o-Xylene	0.25		0.080		ppb v/v			09/21/16 19:01	1
Styrene	0.29		0.080		ppb v/v			09/21/16 19:01	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/21/16 19:01	1
Tetrachloroethene	3.3		0.080		ppb v/v			09/21/16 19:01	1
Toluene	0.54		0.12		ppb v/v			09/21/16 19:01	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 19:01	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 19:01	1
Trichloroethene	ND		0.040		ppb v/v			09/21/16 19:01	1
Trichlorofluoromethane	0.28		0.080		ppb v/v			09/21/16 19:01	1
Vinyl chloride	ND		0.040		ppb v/v			09/21/16 19:01	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/21/16 19:01	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/21/16 19:01	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/21/16 19:01	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/21/16 19:01	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/21/16 19:01	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/21/16 19:01	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/21/16 19:01	1
1,2,4-Trimethylbenzene	2.3		0.39		ug/m3			09/21/16 19:01	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/21/16 19:01	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 19:01	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/21/16 19:01	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/21/16 19:01	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/21/16 19:01	1
1,3,5-Trimethylbenzene	0.61		0.39		ug/m3			09/21/16 19:01	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 19:01	1
1,4-Dichlorobenzene	4.4		0.48		ug/m3			09/21/16 19:01	1
1,4-Dioxane	0.95		0.72		ug/m3			09/21/16 19:01	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/21/16 19:01	1
2-Butanone	3.3		0.94		ug/m3			09/21/16 19:01	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			09/21/16 19:01	1
Benzene	0.58		0.26		ug/m3			09/21/16 19:01	1
Benzyl chloride	ND		0.83		ug/m3			09/21/16 19:01	1
Bromodichloromethane	ND		0.54		ug/m3			09/21/16 19:01	1
Bromoform	ND		0.83		ug/m3			09/21/16 19:01	1
Bromomethane	ND		0.31		ug/m3			09/21/16 19:01	1
Carbon tetrachloride	0.59		0.25		ug/m3			09/21/16 19:01	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-129

Lab Sample ID: 140-5852-4

Date Collected: 09/15/16 13:15

Matrix: Air

Date Received: 09/17/16 11:10

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
Chlorobenzene	ND		0.37		ug/m3			09/21/16 19:01	1
Chloroethane	ND		0.21		ug/m3			09/21/16 19:01	1
Chloroform	1.3		0.39		ug/m3			09/21/16 19:01	1
Chloromethane	0.82		0.41		ug/m3			09/21/16 19:01	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 19:01	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 19:01	1
Cyclohexane	ND		0.69		ug/m3			09/21/16 19:01	1
Dibromochloromethane	ND		0.68		ug/m3			09/21/16 19:01	1
Dichlorodifluoromethane	2.9		0.40		ug/m3			09/21/16 19:01	1
Ethanol	9.6 *		3.8		ug/m3			09/21/16 19:01	1
Ethylbenzene	0.80		0.35		ug/m3			09/21/16 19:01	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/21/16 19:01	1
Hexane	ND		0.70		ug/m3			09/21/16 19:01	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/21/16 19:01	1
Methylene Chloride	0.95		0.69		ug/m3			09/21/16 19:01	1
m-Xylene & p-Xylene	3.1		0.35		ug/m3			09/21/16 19:01	1
o-Xylene	1.1		0.35		ug/m3			09/21/16 19:01	1
Styrene	1.2		0.34		ug/m3			09/21/16 19:01	1
t-Butyl alcohol	ND		0.97		ug/m3			09/21/16 19:01	1
Tetrachloroethene	23		0.54		ug/m3			09/21/16 19:01	1
Toluene	2.0		0.45		ug/m3			09/21/16 19:01	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 19:01	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 19:01	1
Trichloroethene	ND		0.21		ug/m3			09/21/16 19:01	1
Trichlorofluoromethane	1.6		0.45		ug/m3			09/21/16 19:01	1
Vinyl chloride	ND		0.10		ug/m3			09/21/16 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		60 - 140					09/21/16 19:01	1

Client Sample ID: VP-130

Lab Sample ID: 140-5852-5

Date Collected: 09/15/16 13:21

Matrix: Air

Date Received: 09/17/16 11:10

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	0.11		0.080		ppb v/v			09/21/16 19:50	1.46
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/21/16 19:50	1.46
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/21/16 19:50	1.46
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/21/16 19:50	1.46
1,1-Dichloroethane	ND		0.080		ppb v/v			09/21/16 19:50	1.46
1,1-Dichloroethene	ND		0.080		ppb v/v			09/21/16 19:50	1.46
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/21/16 19:50	1.46
1,2,4-Trimethylbenzene	1.0		0.080		ppb v/v			09/21/16 19:50	1.46
1,2-Dibromoethane	ND		0.080		ppb v/v			09/21/16 19:50	1.46
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 19:50	1.46
1,2-Dichloroethane	ND		0.080		ppb v/v			09/21/16 19:50	1.46
1,2-Dichloropropane	ND		0.080		ppb v/v			09/21/16 19:50	1.46

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-130

Lab Sample ID: 140-5852-5

Date Collected: 09/15/16 13:21

Matrix: Air

Date Received: 09/17/16 11:10

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			09/21/16 19:50	1.46
1,3,5-Trimethylbenzene	0.27		0.080		ppb v/v			09/21/16 19:50	1.46
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 19:50	1.46
1,4-Dichlorobenzene	7.8		0.080		ppb v/v			09/21/16 19:50	1.46
1,4-Dioxane	0.53		0.20		ppb v/v			09/21/16 19:50	1.46
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/21/16 19:50	1.46
2-Butanone	2.8		0.32		ppb v/v			09/21/16 19:50	1.46
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			09/21/16 19:50	1.46
Benzene	0.35		0.080		ppb v/v			09/21/16 19:50	1.46
Benzyl chloride	ND		0.16		ppb v/v			09/21/16 19:50	1.46
Bromodichloromethane	0.094		0.080		ppb v/v			09/21/16 19:50	1.46
Bromoform	ND		0.080		ppb v/v			09/21/16 19:50	1.46
Bromomethane	ND		0.080		ppb v/v			09/21/16 19:50	1.46
Carbon tetrachloride	0.22		0.040		ppb v/v			09/21/16 19:50	1.46
Chlorobenzene	ND		0.080		ppb v/v			09/21/16 19:50	1.46
Chloroethane	ND		0.080		ppb v/v			09/21/16 19:50	1.46
Chloroform	0.71		0.080		ppb v/v			09/21/16 19:50	1.46
Chloromethane	ND		0.20		ppb v/v			09/21/16 19:50	1.46
cis-1,2-Dichloroethene	0.15		0.080		ppb v/v			09/21/16 19:50	1.46
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 19:50	1.46
Cyclohexane	ND		0.20		ppb v/v			09/21/16 19:50	1.46
Dibromochloromethane	ND		0.080		ppb v/v			09/21/16 19:50	1.46
Dichlorodifluoromethane	0.46		0.080		ppb v/v			09/21/16 19:50	1.46
Ethanol	ND *		2.0		ppb v/v			09/21/16 19:50	1.46
Ethylbenzene	0.76		0.080		ppb v/v			09/21/16 19:50	1.46
Hexachlorobutadiene	ND		0.080		ppb v/v			09/21/16 19:50	1.46
Hexane	0.37		0.20		ppb v/v			09/21/16 19:50	1.46
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/21/16 19:50	1.46
Methylene Chloride	0.29		0.20		ppb v/v			09/21/16 19:50	1.46
m-Xylene & p-Xylene	3.0		0.080		ppb v/v			09/21/16 19:50	1.46
o-Xylene	0.97		0.080		ppb v/v			09/21/16 19:50	1.46
Styrene	0.46		0.080		ppb v/v			09/21/16 19:50	1.46
t-Butyl alcohol	ND		0.32		ppb v/v			09/21/16 19:50	1.46
Tetrachloroethene	69	E	0.080		ppb v/v			09/21/16 19:50	1.46
Toluene	2.8		0.12		ppb v/v			09/21/16 19:50	1.46
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 19:50	1.46
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 19:50	1.46
Trichloroethene	0.27		0.040		ppb v/v			09/21/16 19:50	1.46
Trichlorofluoromethane	0.32		0.080		ppb v/v			09/21/16 19:50	1.46
Vinyl chloride	ND		0.040		ppb v/v			09/21/16 19:50	1.46
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59		0.44		ug/m3			09/21/16 19:50	1.46
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/21/16 19:50	1.46
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/21/16 19:50	1.46
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/21/16 19:50	1.46
1,1-Dichloroethane	ND		0.32		ug/m3			09/21/16 19:50	1.46
1,1-Dichloroethene	ND		0.32		ug/m3			09/21/16 19:50	1.46
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/21/16 19:50	1.46

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-130

Lab Sample ID: 140-5852-5

Date Collected: 09/15/16 13:21

Matrix: Air

Date Received: 09/17/16 11:10

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	5.0		0.39		ug/m3			09/21/16 19:50	1.46
1,2-Dibromoethane	ND		0.61		ug/m3			09/21/16 19:50	1.46
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 19:50	1.46
1,2-Dichloroethane	ND		0.32		ug/m3			09/21/16 19:50	1.46
1,2-Dichloropropane	ND		0.37		ug/m3			09/21/16 19:50	1.46
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/21/16 19:50	1.46
1,3,5-Trimethylbenzene	1.3		0.39		ug/m3			09/21/16 19:50	1.46
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 19:50	1.46
1,4-Dichlorobenzene	47		0.48		ug/m3			09/21/16 19:50	1.46
1,4-Dioxane	1.9		0.72		ug/m3			09/21/16 19:50	1.46
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/21/16 19:50	1.46
2-Butanone	8.3		0.94		ug/m3			09/21/16 19:50	1.46
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			09/21/16 19:50	1.46
Benzene	1.1		0.26		ug/m3			09/21/16 19:50	1.46
Benzyl chloride	ND		0.83		ug/m3			09/21/16 19:50	1.46
Bromodichloromethane	0.63		0.54		ug/m3			09/21/16 19:50	1.46
Bromoform	ND		0.83		ug/m3			09/21/16 19:50	1.46
Bromomethane	ND		0.31		ug/m3			09/21/16 19:50	1.46
Carbon tetrachloride	1.4		0.25		ug/m3			09/21/16 19:50	1.46
Chlorobenzene	ND		0.37		ug/m3			09/21/16 19:50	1.46
Chloroethane	ND		0.21		ug/m3			09/21/16 19:50	1.46
Chloroform	3.5		0.39		ug/m3			09/21/16 19:50	1.46
Chloromethane	ND		0.41		ug/m3			09/21/16 19:50	1.46
cis-1,2-Dichloroethene	0.60		0.32		ug/m3			09/21/16 19:50	1.46
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 19:50	1.46
Cyclohexane	ND		0.69		ug/m3			09/21/16 19:50	1.46
Dibromochloromethane	ND		0.68		ug/m3			09/21/16 19:50	1.46
Dichlorodifluoromethane	2.3		0.40		ug/m3			09/21/16 19:50	1.46
Ethanol	ND *		3.8		ug/m3			09/21/16 19:50	1.46
Ethylbenzene	3.3		0.35		ug/m3			09/21/16 19:50	1.46
Hexachlorobutadiene	ND		0.85		ug/m3			09/21/16 19:50	1.46
Hexane	1.3		0.70		ug/m3			09/21/16 19:50	1.46
Methyl tert-butyl ether	ND		0.58		ug/m3			09/21/16 19:50	1.46
Methylene Chloride	1.0		0.69		ug/m3			09/21/16 19:50	1.46
m-Xylene & p-Xylene	13		0.35		ug/m3			09/21/16 19:50	1.46
o-Xylene	4.2		0.35		ug/m3			09/21/16 19:50	1.46
Styrene	2.0		0.34		ug/m3			09/21/16 19:50	1.46
t-Butyl alcohol	ND		0.97		ug/m3			09/21/16 19:50	1.46
Tetrachloroethene	470 E		0.54		ug/m3			09/21/16 19:50	1.46
Toluene	11		0.45		ug/m3			09/21/16 19:50	1.46
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 19:50	1.46
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 19:50	1.46
Trichloroethene	1.4		0.21		ug/m3			09/21/16 19:50	1.46
Trichlorofluoromethane	1.8		0.45		ug/m3			09/21/16 19:50	1.46
Vinyl chloride	ND		0.10		ug/m3			09/21/16 19:50	1.46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		60 - 140		09/21/16 19:50	1.46

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-130

Lab Sample ID: 140-5852-5

Date Collected: 09/15/16 13:21

Matrix: Air

Date Received: 09/17/16 11:10

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
Tetrachloroethene	42	D	0.73		ppb v/v			09/23/16 04:27	1.46
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	280	D	5.0		ug/m3			09/23/16 04:27	1.46
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		60 - 140					09/23/16 04:27	1.46

Client Sample ID: VP-126

Lab Sample ID: 140-5852-6

Date Collected: 09/15/16 12:58

Matrix: Air

Date Received: 09/17/16 11:10

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		0.40		ppb v/v			09/21/16 20:35	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			09/21/16 20:35	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			09/21/16 20:35	1
1,1,2-Trichlorotrifluoroethane	ND		0.40		ppb v/v			09/21/16 20:35	1
1,1-Dichloroethane	ND		0.40		ppb v/v			09/21/16 20:35	1
1,1-Dichloroethene	ND		0.40		ppb v/v			09/21/16 20:35	1
1,2,4-Trichlorobenzene	ND		0.40		ppb v/v			09/21/16 20:35	1
1,2,4-Trimethylbenzene	5.2		0.40		ppb v/v			09/21/16 20:35	1
1,2-Dibromoethane	ND		0.40		ppb v/v			09/21/16 20:35	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			09/21/16 20:35	1
1,2-Dichloroethane	ND		0.40		ppb v/v			09/21/16 20:35	1
1,2-Dichloropropane	ND		0.40		ppb v/v			09/21/16 20:35	1
1,2-Dichlorotetrafluoroethane	ND		0.40		ppb v/v			09/21/16 20:35	1
1,3,5-Trimethylbenzene	2.2		0.40		ppb v/v			09/21/16 20:35	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			09/21/16 20:35	1
1,4-Dichlorobenzene	3.8		0.40		ppb v/v			09/21/16 20:35	1
1,4-Dioxane	ND		1.0		ppb v/v			09/21/16 20:35	1
2,2,4-Trimethylpentane	ND		1.0		ppb v/v			09/21/16 20:35	1
2-Butanone	1.9		1.6		ppb v/v			09/21/16 20:35	1
4-Methyl-2-pentanone (MIBK)	ND		1.0		ppb v/v			09/21/16 20:35	1
Benzene	ND		0.40		ppb v/v			09/21/16 20:35	1
Benzyl chloride	ND		0.80		ppb v/v			09/21/16 20:35	1
Bromodichloromethane	0.48		0.40		ppb v/v			09/21/16 20:35	1
Bromoform	ND		0.40		ppb v/v			09/21/16 20:35	1
Bromomethane	ND		0.40		ppb v/v			09/21/16 20:35	1
Carbon tetrachloride	ND		0.20		ppb v/v			09/21/16 20:35	1
Chlorobenzene	ND		0.40		ppb v/v			09/21/16 20:35	1
Chloroethane	ND		0.40		ppb v/v			09/21/16 20:35	1
Chloroform	11		0.40		ppb v/v			09/21/16 20:35	1
Chloromethane	ND		1.0		ppb v/v			09/21/16 20:35	1
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			09/21/16 20:35	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			09/21/16 20:35	1
Cyclohexane	ND		1.0		ppb v/v			09/21/16 20:35	1
Dibromochloromethane	ND		0.40		ppb v/v			09/21/16 20:35	1
Dichlorodifluoromethane	0.69		0.40		ppb v/v			09/21/16 20:35	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
 Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-126

Lab Sample ID: 140-5852-6

Date Collected: 09/15/16 12:58

Matrix: Air

Date Received: 09/17/16 11:10

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	ND	*	10		ppb v/v			09/21/16 20:35	1
Ethylbenzene	1.9		0.40		ppb v/v			09/21/16 20:35	1
Hexachlorobutadiene	ND		0.40		ppb v/v			09/21/16 20:35	1
Hexane	ND		1.0		ppb v/v			09/21/16 20:35	1
Methyl tert-butyl ether	ND		0.80		ppb v/v			09/21/16 20:35	1
Methylene Chloride	1.7		1.0		ppb v/v			09/21/16 20:35	1
m-Xylene & p-Xylene	5.5		0.40		ppb v/v			09/21/16 20:35	1
o-Xylene	2.5		0.40		ppb v/v			09/21/16 20:35	1
Styrene	1.4		0.40		ppb v/v			09/21/16 20:35	1
t-Butyl alcohol	ND		1.6		ppb v/v			09/21/16 20:35	1
Tetrachloroethene	34		0.40		ppb v/v			09/21/16 20:35	1
Toluene	1.2		0.60		ppb v/v			09/21/16 20:35	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			09/21/16 20:35	1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v			09/21/16 20:35	1
Trichloroethene	ND		0.20		ppb v/v			09/21/16 20:35	1
Trichlorofluoromethane	0.52		0.40		ppb v/v			09/21/16 20:35	1
Vinyl chloride	ND		0.20		ppb v/v			09/21/16 20:35	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.2		ug/m3			09/21/16 20:35	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			09/21/16 20:35	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			09/21/16 20:35	1
1,1,2-Trichlorotrifluoroethane	ND		3.1		ug/m3			09/21/16 20:35	1
1,1-Dichloroethane	ND		1.6		ug/m3			09/21/16 20:35	1
1,1-Dichloroethene	ND		1.6		ug/m3			09/21/16 20:35	1
1,2,4-Trichlorobenzene	ND		3.0		ug/m3			09/21/16 20:35	1
1,2,4-Trimethylbenzene	26		2.0		ug/m3			09/21/16 20:35	1
1,2-Dibromoethane	ND		3.1		ug/m3			09/21/16 20:35	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			09/21/16 20:35	1
1,2-Dichloroethane	ND		1.6		ug/m3			09/21/16 20:35	1
1,2-Dichloropropane	ND		1.8		ug/m3			09/21/16 20:35	1
1,2-Dichlorotetrafluoroethane	ND		2.8		ug/m3			09/21/16 20:35	1
1,3,5-Trimethylbenzene	11		2.0		ug/m3			09/21/16 20:35	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			09/21/16 20:35	1
1,4-Dichlorobenzene	23		2.4		ug/m3			09/21/16 20:35	1
1,4-Dioxane	ND		3.6		ug/m3			09/21/16 20:35	1
2,2,4-Trimethylpentane	ND		4.7		ug/m3			09/21/16 20:35	1
2-Butanone	5.6		4.7		ug/m3			09/21/16 20:35	1
4-Methyl-2-pentanone (MIBK)	ND		4.1		ug/m3			09/21/16 20:35	1
Benzene	ND		1.3		ug/m3			09/21/16 20:35	1
Benzyl chloride	ND		4.1		ug/m3			09/21/16 20:35	1
Bromodichloromethane	3.2		2.7		ug/m3			09/21/16 20:35	1
Bromoform	ND		4.1		ug/m3			09/21/16 20:35	1
Bromomethane	ND		1.6		ug/m3			09/21/16 20:35	1
Carbon tetrachloride	ND		1.3		ug/m3			09/21/16 20:35	1
Chlorobenzene	ND		1.8		ug/m3			09/21/16 20:35	1
Chloroethane	ND		1.1		ug/m3			09/21/16 20:35	1
Chloroform	53		2.0		ug/m3			09/21/16 20:35	1
Chloromethane	ND		2.1		ug/m3			09/21/16 20:35	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-126

Lab Sample ID: 140-5852-6

Date Collected: 09/15/16 12:58

Matrix: Air

Date Received: 09/17/16 11:10

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		1.6		ug/m3			09/21/16 20:35	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			09/21/16 20:35	1
Cyclohexane	ND		3.4		ug/m3			09/21/16 20:35	1
Dibromochloromethane	ND		3.4		ug/m3			09/21/16 20:35	1
Dichlorodifluoromethane	3.4		2.0		ug/m3			09/21/16 20:35	1
Ethanol	ND	*	19		ug/m3			09/21/16 20:35	1
Ethylbenzene	8.2		1.7		ug/m3			09/21/16 20:35	1
Hexachlorobutadiene	ND		4.3		ug/m3			09/21/16 20:35	1
Hexane	ND		3.5		ug/m3			09/21/16 20:35	1
Methyl tert-butyl ether	ND		2.9		ug/m3			09/21/16 20:35	1
Methylene Chloride	5.8		3.5		ug/m3			09/21/16 20:35	1
m-Xylene & p-Xylene	24		1.7		ug/m3			09/21/16 20:35	1
o-Xylene	11		1.7		ug/m3			09/21/16 20:35	1
Styrene	6.1		1.7		ug/m3			09/21/16 20:35	1
t-Butyl alcohol	ND		4.9		ug/m3			09/21/16 20:35	1
Tetrachloroethene	230		2.7		ug/m3			09/21/16 20:35	1
Toluene	4.4		2.3		ug/m3			09/21/16 20:35	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			09/21/16 20:35	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			09/21/16 20:35	1
Trichloroethene	ND		1.1		ug/m3			09/21/16 20:35	1
Trichlorofluoromethane	2.9		2.2		ug/m3			09/21/16 20:35	1
Vinyl chloride	ND		0.51		ug/m3			09/21/16 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		60 - 140					09/21/16 20:35	1

Client Sample ID: VP-104

Lab Sample ID: 140-5852-7

Date Collected: 09/15/16 15:10

Matrix: Air

Date Received: 09/17/16 11:10

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			09/21/16 21:24	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/21/16 21:24	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/21/16 21:24	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/21/16 21:24	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/21/16 21:24	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/21/16 21:24	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/21/16 21:24	1
1,2,4-Trimethylbenzene	0.099		0.080		ppb v/v			09/21/16 21:24	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/21/16 21:24	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 21:24	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/21/16 21:24	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/21/16 21:24	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/21/16 21:24	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			09/21/16 21:24	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 21:24	1
1,4-Dichlorobenzene	1.1		0.080		ppb v/v			09/21/16 21:24	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-104

Lab Sample ID: 140-5852-7

Date Collected: 09/15/16 15:10

Matrix: Air

Date Received: 09/17/16 11:10

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			09/21/16 21:24	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/21/16 21:24	1
2-Butanone	ND		0.32		ppb v/v			09/21/16 21:24	1
4-Methyl-2-pentanone (MIBK)	2.2		0.20		ppb v/v			09/21/16 21:24	1
Benzene	0.087		0.080		ppb v/v			09/21/16 21:24	1
Benzyl chloride	ND		0.16		ppb v/v			09/21/16 21:24	1
Bromodichloromethane	ND		0.080		ppb v/v			09/21/16 21:24	1
Bromoform	ND		0.080		ppb v/v			09/21/16 21:24	1
Bromomethane	ND		0.080		ppb v/v			09/21/16 21:24	1
Carbon tetrachloride	0.085		0.040		ppb v/v			09/21/16 21:24	1
Chlorobenzene	ND		0.080		ppb v/v			09/21/16 21:24	1
Chloroethane	ND		0.080		ppb v/v			09/21/16 21:24	1
Chloroform	0.59		0.080		ppb v/v			09/21/16 21:24	1
Chloromethane	0.33		0.20		ppb v/v			09/21/16 21:24	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 21:24	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 21:24	1
Cyclohexane	ND		0.20		ppb v/v			09/21/16 21:24	1
Dibromochloromethane	ND		0.080		ppb v/v			09/21/16 21:24	1
Dichlorodifluoromethane	0.55		0.080		ppb v/v			09/21/16 21:24	1
Ethanol	2.7 *		2.0		ppb v/v			09/21/16 21:24	1
Ethylbenzene	ND		0.080		ppb v/v			09/21/16 21:24	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/21/16 21:24	1
Hexane	ND		0.20		ppb v/v			09/21/16 21:24	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/21/16 21:24	1
Methylene Chloride	0.47		0.20		ppb v/v			09/21/16 21:24	1
m-Xylene & p-Xylene	0.20		0.080		ppb v/v			09/21/16 21:24	1
o-Xylene	0.082		0.080		ppb v/v			09/21/16 21:24	1
Styrene	ND		0.080		ppb v/v			09/21/16 21:24	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/21/16 21:24	1
Tetrachloroethene	1.5		0.080		ppb v/v			09/21/16 21:24	1
Toluene	0.33		0.12		ppb v/v			09/21/16 21:24	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 21:24	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 21:24	1
Trichloroethene	ND		0.040		ppb v/v			09/21/16 21:24	1
Trichlorofluoromethane	0.31		0.080		ppb v/v			09/21/16 21:24	1
Vinyl chloride	ND		0.040		ppb v/v			09/21/16 21:24	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/21/16 21:24	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/21/16 21:24	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/21/16 21:24	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/21/16 21:24	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/21/16 21:24	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/21/16 21:24	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/21/16 21:24	1
1,2,4-Trimethylbenzene	0.49		0.39		ug/m3			09/21/16 21:24	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/21/16 21:24	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 21:24	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/21/16 21:24	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-104

Lab Sample ID: 140-5852-7

Date Collected: 09/15/16 15:10

Matrix: Air

Date Received: 09/17/16 11:10

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			09/21/16 21:24	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/21/16 21:24	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			09/21/16 21:24	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 21:24	1
1,4-Dichlorobenzene	6.6		0.48		ug/m3			09/21/16 21:24	1
1,4-Dioxane	ND		0.72		ug/m3			09/21/16 21:24	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/21/16 21:24	1
2-Butanone	ND		0.94		ug/m3			09/21/16 21:24	1
4-Methyl-2-pentanone (MIBK)	9.1		0.82		ug/m3			09/21/16 21:24	1
Benzene	0.28		0.26		ug/m3			09/21/16 21:24	1
Benzyl chloride	ND		0.83		ug/m3			09/21/16 21:24	1
Bromodichloromethane	ND		0.54		ug/m3			09/21/16 21:24	1
Bromoform	ND		0.83		ug/m3			09/21/16 21:24	1
Bromomethane	ND		0.31		ug/m3			09/21/16 21:24	1
Carbon tetrachloride	0.53		0.25		ug/m3			09/21/16 21:24	1
Chlorobenzene	ND		0.37		ug/m3			09/21/16 21:24	1
Chloroethane	ND		0.21		ug/m3			09/21/16 21:24	1
Chloroform	2.9		0.39		ug/m3			09/21/16 21:24	1
Chloromethane	0.69		0.41		ug/m3			09/21/16 21:24	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 21:24	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 21:24	1
Cyclohexane	ND		0.69		ug/m3			09/21/16 21:24	1
Dibromochloromethane	ND		0.68		ug/m3			09/21/16 21:24	1
Dichlorodifluoromethane	2.7		0.40		ug/m3			09/21/16 21:24	1
Ethanol	5.0 *		3.8		ug/m3			09/21/16 21:24	1
Ethylbenzene	ND		0.35		ug/m3			09/21/16 21:24	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/21/16 21:24	1
Hexane	ND		0.70		ug/m3			09/21/16 21:24	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/21/16 21:24	1
Methylene Chloride	1.6		0.69		ug/m3			09/21/16 21:24	1
m-Xylene & p-Xylene	0.88		0.35		ug/m3			09/21/16 21:24	1
o-Xylene	0.36		0.35		ug/m3			09/21/16 21:24	1
Styrene	ND		0.34		ug/m3			09/21/16 21:24	1
t-Butyl alcohol	ND		0.97		ug/m3			09/21/16 21:24	1
Tetrachloroethene	10		0.54		ug/m3			09/21/16 21:24	1
Toluene	1.2		0.45		ug/m3			09/21/16 21:24	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 21:24	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 21:24	1
Trichloroethene	ND		0.21		ug/m3			09/21/16 21:24	1
Trichlorofluoromethane	1.8		0.45		ug/m3			09/21/16 21:24	1
Vinyl chloride	ND		0.10		ug/m3			09/21/16 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		60 - 140		09/21/16 21:24	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-102

Lab Sample ID: 140-5852-8

Date Collected: 09/15/16 16:20

Matrix: Air

Date Received: 09/17/16 11:10

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		0.40		ppb v/v			09/21/16 16:01	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			09/21/16 16:01	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			09/21/16 16:01	1
1,1,2-Trichlorotrifluoroethane	ND		0.40		ppb v/v			09/21/16 16:01	1
1,1-Dichloroethane	ND		0.40		ppb v/v			09/21/16 16:01	1
1,1-Dichloroethene	ND		0.40		ppb v/v			09/21/16 16:01	1
1,2,4-Trichlorobenzene	ND		0.40		ppb v/v			09/21/16 16:01	1
1,2,4-Trimethylbenzene	1.3		0.40		ppb v/v			09/21/16 16:01	1
1,2-Dibromoethane	ND		0.40		ppb v/v			09/21/16 16:01	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			09/21/16 16:01	1
1,2-Dichloroethane	ND		0.40		ppb v/v			09/21/16 16:01	1
1,2-Dichloropropane	ND		0.40		ppb v/v			09/21/16 16:01	1
1,2-Dichlorotetrafluoroethane	ND		0.40		ppb v/v			09/21/16 16:01	1
1,3,5-Trimethylbenzene	ND		0.40		ppb v/v			09/21/16 16:01	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			09/21/16 16:01	1
1,4-Dichlorobenzene	14		0.40		ppb v/v			09/21/16 16:01	1
1,4-Dioxane	ND		1.0		ppb v/v			09/21/16 16:01	1
2,2,4-Trimethylpentane	ND		1.0		ppb v/v			09/21/16 16:01	1
2-Butanone	1.6		1.6		ppb v/v			09/21/16 16:01	1
4-Methyl-2-pentanone (MIBK)	ND		1.0		ppb v/v			09/21/16 16:01	1
Benzene	0.72		0.40		ppb v/v			09/21/16 16:01	1
Benzyl chloride	ND		0.80		ppb v/v			09/21/16 16:01	1
Bromodichloromethane	ND		0.40		ppb v/v			09/21/16 16:01	1
Bromoform	ND		0.40		ppb v/v			09/21/16 16:01	1
Bromomethane	ND		0.40		ppb v/v			09/21/16 16:01	1
Carbon tetrachloride	ND		0.20		ppb v/v			09/21/16 16:01	1
Chlorobenzene	ND		0.40		ppb v/v			09/21/16 16:01	1
Chloroethane	ND		0.40		ppb v/v			09/21/16 16:01	1
Chloroform	0.47		0.40		ppb v/v			09/21/16 16:01	1
Chloromethane	3.9		1.0		ppb v/v			09/21/16 16:01	1
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			09/21/16 16:01	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			09/21/16 16:01	1
Cyclohexane	ND		1.0		ppb v/v			09/21/16 16:01	1
Dibromochloromethane	ND		0.40		ppb v/v			09/21/16 16:01	1
Dichlorodifluoromethane	0.46		0.40		ppb v/v			09/21/16 16:01	1
Ethanol	ND *		10		ppb v/v			09/21/16 16:01	1
Ethylbenzene	0.58		0.40		ppb v/v			09/21/16 16:01	1
Hexachlorobutadiene	ND		0.40		ppb v/v			09/21/16 16:01	1
Hexane	1.2		1.0		ppb v/v			09/21/16 16:01	1
Methyl tert-butyl ether	ND		0.80		ppb v/v			09/21/16 16:01	1
Methylene Chloride	ND		1.0		ppb v/v			09/21/16 16:01	1
m-Xylene & p-Xylene	2.4		0.40		ppb v/v			09/21/16 16:01	1
o-Xylene	0.93		0.40		ppb v/v			09/21/16 16:01	1
Styrene	ND		0.40		ppb v/v			09/21/16 16:01	1
t-Butyl alcohol	ND		1.6		ppb v/v			09/21/16 16:01	1
Tetrachloroethene	20		0.40		ppb v/v			09/21/16 16:01	1
Toluene	2.1		0.60		ppb v/v			09/21/16 16:01	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			09/21/16 16:01	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-102

Lab Sample ID: 140-5852-8

Date Collected: 09/15/16 16:20

Matrix: Air

Date Received: 09/17/16 11:10

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		0.40		ppb v/v			09/21/16 16:01	1
Trichloroethene	ND		0.20		ppb v/v			09/21/16 16:01	1
Trichlorofluoromethane	ND		0.40		ppb v/v			09/21/16 16:01	1
Vinyl chloride	ND		0.20		ppb v/v			09/21/16 16:01	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.2		ug/m3			09/21/16 16:01	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			09/21/16 16:01	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			09/21/16 16:01	1
1,1,2-Trichlorotrifluoroethane	ND		3.1		ug/m3			09/21/16 16:01	1
1,1-Dichloroethane	ND		1.6		ug/m3			09/21/16 16:01	1
1,1-Dichloroethene	ND		1.6		ug/m3			09/21/16 16:01	1
1,2,4-Trichlorobenzene	ND		3.0		ug/m3			09/21/16 16:01	1
1,2,4-Trimethylbenzene	6.3		2.0		ug/m3			09/21/16 16:01	1
1,2-Dibromoethane	ND		3.1		ug/m3			09/21/16 16:01	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			09/21/16 16:01	1
1,2-Dichloroethane	ND		1.6		ug/m3			09/21/16 16:01	1
1,2-Dichloropropane	ND		1.8		ug/m3			09/21/16 16:01	1
1,2-Dichlorotetrafluoroethane	ND		2.8		ug/m3			09/21/16 16:01	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			09/21/16 16:01	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			09/21/16 16:01	1
1,4-Dichlorobenzene	86		2.4		ug/m3			09/21/16 16:01	1
1,4-Dioxane	ND		3.6		ug/m3			09/21/16 16:01	1
2,2,4-Trimethylpentane	ND		4.7		ug/m3			09/21/16 16:01	1
2-Butanone	4.8		4.7		ug/m3			09/21/16 16:01	1
4-Methyl-2-pentanone (MIBK)	ND		4.1		ug/m3			09/21/16 16:01	1
Benzene	2.3		1.3		ug/m3			09/21/16 16:01	1
Benzyl chloride	ND		4.1		ug/m3			09/21/16 16:01	1
Bromodichloromethane	ND		2.7		ug/m3			09/21/16 16:01	1
Bromoform	ND		4.1		ug/m3			09/21/16 16:01	1
Bromomethane	ND		1.6		ug/m3			09/21/16 16:01	1
Carbon tetrachloride	ND		1.3		ug/m3			09/21/16 16:01	1
Chlorobenzene	ND		1.8		ug/m3			09/21/16 16:01	1
Chloroethane	ND		1.1		ug/m3			09/21/16 16:01	1
Chloroform	2.3		2.0		ug/m3			09/21/16 16:01	1
Chloromethane	8.1		2.1		ug/m3			09/21/16 16:01	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			09/21/16 16:01	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			09/21/16 16:01	1
Cyclohexane	ND		3.4		ug/m3			09/21/16 16:01	1
Dibromochloromethane	ND		3.4		ug/m3			09/21/16 16:01	1
Dichlorodifluoromethane	2.3		2.0		ug/m3			09/21/16 16:01	1
Ethanol	ND *		19		ug/m3			09/21/16 16:01	1
Ethylbenzene	2.5		1.7		ug/m3			09/21/16 16:01	1
Hexachlorobutadiene	ND		4.3		ug/m3			09/21/16 16:01	1
Hexane	4.1		3.5		ug/m3			09/21/16 16:01	1
Methyl tert-butyl ether	ND		2.9		ug/m3			09/21/16 16:01	1
Methylene Chloride	ND		3.5		ug/m3			09/21/16 16:01	1
m-Xylene & p-Xylene	10		1.7		ug/m3			09/21/16 16:01	1
o-Xylene	4.0		1.7		ug/m3			09/21/16 16:01	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-102

Lab Sample ID: 140-5852-8

Date Collected: 09/15/16 16:20

Matrix: Air

Date Received: 09/17/16 11:10

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	ND		1.7		ug/m3			09/21/16 16:01	1
t-Butyl alcohol	ND		4.9		ug/m3			09/21/16 16:01	1
Tetrachloroethene	140		2.7		ug/m3			09/21/16 16:01	1
Toluene	7.9		2.3		ug/m3			09/21/16 16:01	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			09/21/16 16:01	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			09/21/16 16:01	1
Trichloroethene	ND		1.1		ug/m3			09/21/16 16:01	1
Trichlorofluoromethane	ND		2.2		ug/m3			09/21/16 16:01	1
Vinyl chloride	ND		0.51		ug/m3			09/21/16 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		60 - 140					09/21/16 16:01	1

Client Sample ID: VP-100

Lab Sample ID: 140-5852-9

Date Collected: 09/15/16 17:01

Matrix: Air

Date Received: 09/17/16 11:10

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	1.1		0.080		ppb v/v			09/21/16 22:16	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/21/16 22:16	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/21/16 22:16	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/21/16 22:16	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/21/16 22:16	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/21/16 22:16	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/21/16 22:16	1
1,2,4-Trimethylbenzene	1.2		0.080		ppb v/v			09/21/16 22:16	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/21/16 22:16	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 22:16	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/21/16 22:16	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/21/16 22:16	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/21/16 22:16	1
1,3,5-Trimethylbenzene	0.29		0.080		ppb v/v			09/21/16 22:16	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 22:16	1
1,4-Dichlorobenzene	17 E		0.080		ppb v/v			09/21/16 22:16	1
1,4-Dioxane	ND		0.20		ppb v/v			09/21/16 22:16	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/21/16 22:16	1
2-Butanone	2.5		0.32		ppb v/v			09/21/16 22:16	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			09/21/16 22:16	1
Benzene	1.9		0.080		ppb v/v			09/21/16 22:16	1
Benzyl chloride	ND		0.16		ppb v/v			09/21/16 22:16	1
Bromodichloromethane	ND		0.080		ppb v/v			09/21/16 22:16	1
Bromoform	ND		0.080		ppb v/v			09/21/16 22:16	1
Bromomethane	ND		0.080		ppb v/v			09/21/16 22:16	1
Carbon tetrachloride	0.058		0.040		ppb v/v			09/21/16 22:16	1
Chlorobenzene	ND		0.080		ppb v/v			09/21/16 22:16	1
Chloroethane	ND		0.080		ppb v/v			09/21/16 22:16	1
Chloroform	2.5		0.080		ppb v/v			09/21/16 22:16	1
Chloromethane	ND		0.20		ppb v/v			09/21/16 22:16	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-100

Lab Sample ID: 140-5852-9

Date Collected: 09/15/16 17:01

Matrix: Air

Date Received: 09/17/16 11:10

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		0.080		ppb v/v			09/21/16 22:16	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 22:16	1
Cyclohexane	0.96		0.20		ppb v/v			09/21/16 22:16	1
Dibromochloromethane	ND		0.080		ppb v/v			09/21/16 22:16	1
Dichlorodifluoromethane	0.46		0.080		ppb v/v			09/21/16 22:16	1
Ethanol	ND	*	2.0		ppb v/v			09/21/16 22:16	1
Ethylbenzene	0.52		0.080		ppb v/v			09/21/16 22:16	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/21/16 22:16	1
Hexane	1.2		0.20		ppb v/v			09/21/16 22:16	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/21/16 22:16	1
Methylene Chloride	0.65		0.20		ppb v/v			09/21/16 22:16	1
m-Xylene & p-Xylene	2.0		0.080		ppb v/v			09/21/16 22:16	1
o-Xylene	0.90		0.080		ppb v/v			09/21/16 22:16	1
Styrene	0.20		0.080		ppb v/v			09/21/16 22:16	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/21/16 22:16	1
Tetrachloroethene	25	E	0.080		ppb v/v			09/21/16 22:16	1
Toluene	1.5		0.12		ppb v/v			09/21/16 22:16	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 22:16	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 22:16	1
Trichloroethene	0.14		0.040		ppb v/v			09/21/16 22:16	1
Trichlorofluoromethane	0.35		0.080		ppb v/v			09/21/16 22:16	1
Vinyl chloride	ND		0.040		ppb v/v			09/21/16 22:16	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.8		0.44		ug/m3			09/21/16 22:16	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/21/16 22:16	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/21/16 22:16	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/21/16 22:16	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/21/16 22:16	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/21/16 22:16	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/21/16 22:16	1
1,2,4-Trimethylbenzene	5.9		0.39		ug/m3			09/21/16 22:16	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/21/16 22:16	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 22:16	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/21/16 22:16	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/21/16 22:16	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/21/16 22:16	1
1,3,5-Trimethylbenzene	1.4		0.39		ug/m3			09/21/16 22:16	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 22:16	1
1,4-Dichlorobenzene	100	E	0.48		ug/m3			09/21/16 22:16	1
1,4-Dioxane	ND		0.72		ug/m3			09/21/16 22:16	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/21/16 22:16	1
2-Butanone	7.5		0.94		ug/m3			09/21/16 22:16	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			09/21/16 22:16	1
Benzene	6.1		0.26		ug/m3			09/21/16 22:16	1
Benzyl chloride	ND		0.83		ug/m3			09/21/16 22:16	1
Bromodichloromethane	ND		0.54		ug/m3			09/21/16 22:16	1
Bromoform	ND		0.83		ug/m3			09/21/16 22:16	1
Bromomethane	ND		0.31		ug/m3			09/21/16 22:16	1
Carbon tetrachloride	0.37		0.25		ug/m3			09/21/16 22:16	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-100

Lab Sample ID: 140-5852-9

Date Collected: 09/15/16 17:01

Matrix: Air

Date Received: 09/17/16 11:10

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
Chlorobenzene	ND		0.37		ug/m3			09/21/16 22:16	1
Chloroethane	ND		0.21		ug/m3			09/21/16 22:16	1
Chloroform	12		0.39		ug/m3			09/21/16 22:16	1
Chloromethane	ND		0.41		ug/m3			09/21/16 22:16	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 22:16	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 22:16	1
Cyclohexane	3.3		0.69		ug/m3			09/21/16 22:16	1
Dibromochloromethane	ND		0.68		ug/m3			09/21/16 22:16	1
Dichlorodifluoromethane	2.3		0.40		ug/m3			09/21/16 22:16	1
Ethanol	ND *		3.8		ug/m3			09/21/16 22:16	1
Ethylbenzene	2.2		0.35		ug/m3			09/21/16 22:16	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/21/16 22:16	1
Hexane	4.4		0.70		ug/m3			09/21/16 22:16	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/21/16 22:16	1
Methylene Chloride	2.3		0.69		ug/m3			09/21/16 22:16	1
m-Xylene & p-Xylene	8.8		0.35		ug/m3			09/21/16 22:16	1
o-Xylene	3.9		0.35		ug/m3			09/21/16 22:16	1
Styrene	0.87		0.34		ug/m3			09/21/16 22:16	1
t-Butyl alcohol	ND		0.97		ug/m3			09/21/16 22:16	1
Tetrachloroethene	170	E	0.54		ug/m3			09/21/16 22:16	1
Toluene	5.8		0.45		ug/m3			09/21/16 22:16	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 22:16	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 22:16	1
Trichloroethene	0.78		0.21		ug/m3			09/21/16 22:16	1
Trichlorofluoromethane	2.0		0.45		ug/m3			09/21/16 22:16	1
Vinyl chloride	ND		0.10		ug/m3			09/21/16 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		60 - 140		09/21/16 22:16	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
1,4-Dichlorobenzene	14	D	0.40		ppb v/v			09/23/16 05:21	1
Tetrachloroethene	20	D	0.40		ppb v/v			09/23/16 05:21	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	84	D	2.4		ug/m3			09/23/16 05:21	1
Tetrachloroethene	140	D	2.7		ug/m3			09/23/16 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		60 - 140		09/23/16 05:21	1

Client Sample ID: VP-113

Lab Sample ID: 140-5852-10

Date Collected: 09/15/16 15:42

Matrix: Air

Date Received: 09/17/16 11:10

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		4.3		ppb v/v			09/23/16 02:39	4.26
1,1,2,2-Tetrachloroethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-113

Lab Sample ID: 140-5852-10

Date Collected: 09/15/16 15:42

Matrix: Air

Date Received: 09/17/16 11:10

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
1,1,2-Trichloroethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,1,2-Trichlorotrifluoroethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,1-Dichloroethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,1-Dichloroethene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,2,4-Trichlorobenzene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,2,4-Trimethylbenzene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,2-Dibromoethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,2-Dichlorobenzene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,2-Dichloroethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,2-Dichloropropane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,2-Dichlorotetrafluoroethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,3,5-Trimethylbenzene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,3-Dichlorobenzene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
1,4-Dichlorobenzene	11		4.3		ppb v/v			09/23/16 02:39	4.26
1,4-Dioxane	ND		11		ppb v/v			09/23/16 02:39	4.26
2,2,4-Trimethylpentane	ND		11		ppb v/v			09/23/16 02:39	4.26
2-Butanone	ND		17		ppb v/v			09/23/16 02:39	4.26
4-Methyl-2-pentanone (MIBK)	ND		11		ppb v/v			09/23/16 02:39	4.26
Benzene	38		4.3		ppb v/v			09/23/16 02:39	4.26
Benzyl chloride	ND		8.5		ppb v/v			09/23/16 02:39	4.26
Bromodichloromethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Bromoform	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Bromomethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Carbon tetrachloride	ND		2.1		ppb v/v			09/23/16 02:39	4.26
Chlorobenzene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Chloroethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Chloroform	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Chloromethane	ND		11		ppb v/v			09/23/16 02:39	4.26
cis-1,2-Dichloroethene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
cis-1,3-Dichloropropene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Cyclohexane	61		11		ppb v/v			09/23/16 02:39	4.26
Dibromochloromethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Dichlorodifluoromethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Ethanol	ND		110		ppb v/v			09/23/16 02:39	4.26
Ethylbenzene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Hexachlorobutadiene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Hexane	150		11		ppb v/v			09/23/16 02:39	4.26
Methyl tert-butyl ether	ND		8.5		ppb v/v			09/23/16 02:39	4.26
Methylene Chloride	23		11		ppb v/v			09/23/16 02:39	4.26
m-Xylene & p-Xylene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
o-Xylene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Styrene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
t-Butyl alcohol	ND		17		ppb v/v			09/23/16 02:39	4.26
Tetrachloroethene	11		4.3		ppb v/v			09/23/16 02:39	4.26
Toluene	ND		6.4		ppb v/v			09/23/16 02:39	4.26
trans-1,2-Dichloroethene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
trans-1,3-Dichloropropene	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Trichloroethene	ND		2.1		ppb v/v			09/23/16 02:39	4.26

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-113

Lab Sample ID: 140-5852-10

Date Collected: 09/15/16 15:42

Matrix: Air

Date Received: 09/17/16 11:10

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
Trichlorofluoromethane	ND		4.3		ppb v/v			09/23/16 02:39	4.26
Vinyl chloride	ND		2.1		ppb v/v			09/23/16 02:39	4.26
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		23		ug/m3			09/23/16 02:39	4.26
1,1,2,2-Tetrachloroethane	ND		29		ug/m3			09/23/16 02:39	4.26
1,1,2-Trichloroethane	ND		23		ug/m3			09/23/16 02:39	4.26
1,1,2-Trichlorotrifluoroethane	ND		33		ug/m3			09/23/16 02:39	4.26
1,1-Dichloroethane	ND		17		ug/m3			09/23/16 02:39	4.26
1,1-Dichloroethene	ND		17		ug/m3			09/23/16 02:39	4.26
1,2,4-Trichlorobenzene	ND		32		ug/m3			09/23/16 02:39	4.26
1,2,4-Trimethylbenzene	ND		21		ug/m3			09/23/16 02:39	4.26
1,2-Dibromoethane	ND		33		ug/m3			09/23/16 02:39	4.26
1,2-Dichlorobenzene	ND		26		ug/m3			09/23/16 02:39	4.26
1,2-Dichloroethane	ND		17		ug/m3			09/23/16 02:39	4.26
1,2-Dichloropropane	ND		20		ug/m3			09/23/16 02:39	4.26
1,2-Dichlorotetrafluoroethane	ND		30		ug/m3			09/23/16 02:39	4.26
1,3,5-Trimethylbenzene	ND		21		ug/m3			09/23/16 02:39	4.26
1,3-Dichlorobenzene	ND		26		ug/m3			09/23/16 02:39	4.26
1,4-Dichlorobenzene	65		26		ug/m3			09/23/16 02:39	4.26
1,4-Dioxane	ND		38		ug/m3			09/23/16 02:39	4.26
2,2,4-Trimethylpentane	ND		50		ug/m3			09/23/16 02:39	4.26
2-Butanone	ND		50		ug/m3			09/23/16 02:39	4.26
4-Methyl-2-pentanone (MIBK)	ND		44		ug/m3			09/23/16 02:39	4.26
Benzene	120		14		ug/m3			09/23/16 02:39	4.26
Benzyl chloride	ND		44		ug/m3			09/23/16 02:39	4.26
Bromodichloromethane	ND		29		ug/m3			09/23/16 02:39	4.26
Bromoform	ND		44		ug/m3			09/23/16 02:39	4.26
Bromomethane	ND		17		ug/m3			09/23/16 02:39	4.26
Carbon tetrachloride	ND		13		ug/m3			09/23/16 02:39	4.26
Chlorobenzene	ND		20		ug/m3			09/23/16 02:39	4.26
Chloroethane	ND		11		ug/m3			09/23/16 02:39	4.26
Chloroform	ND		21		ug/m3			09/23/16 02:39	4.26
Chloromethane	ND		22		ug/m3			09/23/16 02:39	4.26
cis-1,2-Dichloroethene	ND		17		ug/m3			09/23/16 02:39	4.26
cis-1,3-Dichloropropene	ND		19		ug/m3			09/23/16 02:39	4.26
Cyclohexane	210		37		ug/m3			09/23/16 02:39	4.26
Dibromochloromethane	ND		36		ug/m3			09/23/16 02:39	4.26
Dichlorodifluoromethane	ND		21		ug/m3			09/23/16 02:39	4.26
Ethanol	ND		200		ug/m3			09/23/16 02:39	4.26
Ethylbenzene	ND		18		ug/m3			09/23/16 02:39	4.26
Hexachlorobutadiene	ND		45		ug/m3			09/23/16 02:39	4.26
Hexane	540		38		ug/m3			09/23/16 02:39	4.26
Methyl tert-butyl ether	ND		31		ug/m3			09/23/16 02:39	4.26
Methylene Chloride	80		37		ug/m3			09/23/16 02:39	4.26
m-Xylene & p-Xylene	ND		18		ug/m3			09/23/16 02:39	4.26
o-Xylene	ND		18		ug/m3			09/23/16 02:39	4.26
Styrene	ND		18		ug/m3			09/23/16 02:39	4.26
t-Butyl alcohol	ND		52		ug/m3			09/23/16 02:39	4.26

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-113

Lab Sample ID: 140-5852-10

Date Collected: 09/15/16 15:42

Matrix: Air

Date Received: 09/17/16 11:10

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
Tetrachloroethene	74		29		ug/m3			09/23/16 02:39	4.26
Toluene	ND		24		ug/m3			09/23/16 02:39	4.26
trans-1,2-Dichloroethene	ND		17		ug/m3			09/23/16 02:39	4.26
trans-1,3-Dichloropropene	ND		19		ug/m3			09/23/16 02:39	4.26
Trichloroethene	ND		11		ug/m3			09/23/16 02:39	4.26
Trichlorofluoromethane	ND		24		ug/m3			09/23/16 02:39	4.26
Vinyl chloride	ND		5.4		ug/m3			09/23/16 02:39	4.26
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		60 - 140					09/23/16 02:39	4.26

Client Sample ID: VP-112

Lab Sample ID: 140-5852-11

Date Collected: 09/15/16 15:53

Matrix: Air

Date Received: 09/17/16 11:10

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			09/21/16 23:52	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/21/16 23:52	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/21/16 23:52	1
1,1,2-Trichlorotrifluoroethane	0.080		0.080		ppb v/v			09/21/16 23:52	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/21/16 23:52	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/21/16 23:52	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/21/16 23:52	1
1,2,4-Trimethylbenzene	1.4		0.080		ppb v/v			09/21/16 23:52	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/21/16 23:52	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 23:52	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/21/16 23:52	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/21/16 23:52	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/21/16 23:52	1
1,3,5-Trimethylbenzene	0.29		0.080		ppb v/v			09/21/16 23:52	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 23:52	1
1,4-Dichlorobenzene	17	E	0.080		ppb v/v			09/21/16 23:52	1
1,4-Dioxane	ND		0.20		ppb v/v			09/21/16 23:52	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/21/16 23:52	1
2-Butanone	12		0.32		ppb v/v			09/21/16 23:52	1
4-Methyl-2-pentanone (MIBK)	0.47		0.20		ppb v/v			09/21/16 23:52	1
Benzene	0.22		0.080		ppb v/v			09/21/16 23:52	1
Benzyl chloride	ND		0.16		ppb v/v			09/21/16 23:52	1
Bromodichloromethane	ND		0.080		ppb v/v			09/21/16 23:52	1
Bromoform	ND		0.080		ppb v/v			09/21/16 23:52	1
Bromomethane	ND		0.080		ppb v/v			09/21/16 23:52	1
Carbon tetrachloride	0.098		0.040		ppb v/v			09/21/16 23:52	1
Chlorobenzene	ND		0.080		ppb v/v			09/21/16 23:52	1
Chloroethane	ND		0.080		ppb v/v			09/21/16 23:52	1
Chloroform	1.3		0.080		ppb v/v			09/21/16 23:52	1
Chloromethane	ND		0.20		ppb v/v			09/21/16 23:52	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 23:52	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-112

Lab Sample ID: 140-5852-11

Date Collected: 09/15/16 15:53

Matrix: Air

Date Received: 09/17/16 11:10

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-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 23:52	1
Cyclohexane	ND		0.20		ppb v/v			09/21/16 23:52	1
Dibromochloromethane	ND		0.080		ppb v/v			09/21/16 23:52	1
Dichlorodifluoromethane	0.41		0.080		ppb v/v			09/21/16 23:52	1
Ethanol	ND	*	2.0		ppb v/v			09/21/16 23:52	1
Ethylbenzene	0.59		0.080		ppb v/v			09/21/16 23:52	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/21/16 23:52	1
Hexane	ND		0.20		ppb v/v			09/21/16 23:52	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/21/16 23:52	1
Methylene Chloride	0.33		0.20		ppb v/v			09/21/16 23:52	1
m-Xylene & p-Xylene	2.4		0.080		ppb v/v			09/21/16 23:52	1
o-Xylene	0.93		0.080		ppb v/v			09/21/16 23:52	1
Styrene	0.25		0.080		ppb v/v			09/21/16 23:52	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/21/16 23:52	1
Tetrachloroethene	67	E	0.080		ppb v/v			09/21/16 23:52	1
Toluene	2.1		0.12		ppb v/v			09/21/16 23:52	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 23:52	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 23:52	1
Trichloroethene	0.24		0.040		ppb v/v			09/21/16 23:52	1
Trichlorofluoromethane	0.29		0.080		ppb v/v			09/21/16 23:52	1
Vinyl chloride	ND		0.040		ppb v/v			09/21/16 23:52	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/21/16 23:52	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/21/16 23:52	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/21/16 23:52	1
1,1,2-Trichlorotrifluoroethane	0.62		0.61		ug/m3			09/21/16 23:52	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/21/16 23:52	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/21/16 23:52	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/21/16 23:52	1
1,2,4-Trimethylbenzene	6.8		0.39		ug/m3			09/21/16 23:52	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/21/16 23:52	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 23:52	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/21/16 23:52	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/21/16 23:52	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/21/16 23:52	1
1,3,5-Trimethylbenzene	1.4		0.39		ug/m3			09/21/16 23:52	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 23:52	1
1,4-Dichlorobenzene	100	E	0.48		ug/m3			09/21/16 23:52	1
1,4-Dioxane	ND		0.72		ug/m3			09/21/16 23:52	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/21/16 23:52	1
2-Butanone	36		0.94		ug/m3			09/21/16 23:52	1
4-Methyl-2-pentanone (MIBK)	1.9		0.82		ug/m3			09/21/16 23:52	1
Benzene	0.70		0.26		ug/m3			09/21/16 23:52	1
Benzyl chloride	ND		0.83		ug/m3			09/21/16 23:52	1
Bromodichloromethane	ND		0.54		ug/m3			09/21/16 23:52	1
Bromoform	ND		0.83		ug/m3			09/21/16 23:52	1
Bromomethane	ND		0.31		ug/m3			09/21/16 23:52	1
Carbon tetrachloride	0.62		0.25		ug/m3			09/21/16 23:52	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-112

Lab Sample ID: 140-5852-11

Date Collected: 09/15/16 15:53

Matrix: Air

Date Received: 09/17/16 11:10

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
Chlorobenzene	ND		0.37		ug/m3			09/21/16 23:52	1
Chloroethane	ND		0.21		ug/m3			09/21/16 23:52	1
Chloroform	6.3		0.39		ug/m3			09/21/16 23:52	1
Chloromethane	ND		0.41		ug/m3			09/21/16 23:52	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 23:52	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 23:52	1
Cyclohexane	ND		0.69		ug/m3			09/21/16 23:52	1
Dibromochloromethane	ND		0.68		ug/m3			09/21/16 23:52	1
Dichlorodifluoromethane	2.0		0.40		ug/m3			09/21/16 23:52	1
Ethanol	ND *		3.8		ug/m3			09/21/16 23:52	1
Ethylbenzene	2.6		0.35		ug/m3			09/21/16 23:52	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/21/16 23:52	1
Hexane	ND		0.70		ug/m3			09/21/16 23:52	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/21/16 23:52	1
Methylene Chloride	1.2		0.69		ug/m3			09/21/16 23:52	1
m-Xylene & p-Xylene	10		0.35		ug/m3			09/21/16 23:52	1
o-Xylene	4.1		0.35		ug/m3			09/21/16 23:52	1
Styrene	1.1		0.34		ug/m3			09/21/16 23:52	1
t-Butyl alcohol	ND		0.97		ug/m3			09/21/16 23:52	1
Tetrachloroethene	450 E		0.54		ug/m3			09/21/16 23:52	1
Toluene	8.0		0.45		ug/m3			09/21/16 23:52	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 23:52	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 23:52	1
Trichloroethene	1.3		0.21		ug/m3			09/21/16 23:52	1
Trichlorofluoromethane	1.6		0.45		ug/m3			09/21/16 23:52	1
Vinyl chloride	ND		0.10		ug/m3			09/21/16 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		60 - 140		09/21/16 23:52	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
1,4-Dichlorobenzene	12	D	0.80		ppb v/v			09/23/16 06:15	1
Tetrachloroethene	35	D	0.80		ppb v/v			09/23/16 06:15	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	70	D	4.8		ug/m3			09/23/16 06:15	1
Tetrachloroethene	230	D	5.4		ug/m3			09/23/16 06:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		60 - 140		09/23/16 06:15	1

Client Sample ID: VP-110

Lab Sample ID: 140-5852-12

Date Collected: 09/15/16 15:57

Matrix: Air

Date Received: 09/17/16 11:10

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			09/22/16 00:42	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
 Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-110

Lab Sample ID: 140-5852-12

Date Collected: 09/15/16 15:57

Matrix: Air

Date Received: 09/17/16 11:10

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
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/22/16 00:42	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/22/16 00:42	1
1,1,2-Trichlorotrifluoroethane	0.098		0.080		ppb v/v			09/22/16 00:42	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/22/16 00:42	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/22/16 00:42	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/22/16 00:42	1
1,2,4-Trimethylbenzene	1.5		0.080		ppb v/v			09/22/16 00:42	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/22/16 00:42	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/22/16 00:42	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/22/16 00:42	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/22/16 00:42	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/22/16 00:42	1
1,3,5-Trimethylbenzene	0.32		0.080		ppb v/v			09/22/16 00:42	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/22/16 00:42	1
1,4-Dichlorobenzene	20	E	0.080		ppb v/v			09/22/16 00:42	1
1,4-Dioxane	ND		0.20		ppb v/v			09/22/16 00:42	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/22/16 00:42	1
2-Butanone	5.6		0.32		ppb v/v			09/22/16 00:42	1
4-Methyl-2-pentanone (MIBK)	0.60		0.20		ppb v/v			09/22/16 00:42	1
Benzene	0.23		0.080		ppb v/v			09/22/16 00:42	1
Benzyl chloride	ND		0.16		ppb v/v			09/22/16 00:42	1
Bromodichloromethane	ND		0.080		ppb v/v			09/22/16 00:42	1
Bromoform	ND		0.080		ppb v/v			09/22/16 00:42	1
Bromomethane	ND		0.080		ppb v/v			09/22/16 00:42	1
Carbon tetrachloride	0.078		0.040		ppb v/v			09/22/16 00:42	1
Chlorobenzene	ND		0.080		ppb v/v			09/22/16 00:42	1
Chloroethane	ND		0.080		ppb v/v			09/22/16 00:42	1
Chloroform	1.5		0.080		ppb v/v			09/22/16 00:42	1
Chloromethane	ND		0.20		ppb v/v			09/22/16 00:42	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/22/16 00:42	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/22/16 00:42	1
Cyclohexane	ND		0.20		ppb v/v			09/22/16 00:42	1
Dibromochloromethane	ND		0.080		ppb v/v			09/22/16 00:42	1
Dichlorodifluoromethane	0.65		0.080		ppb v/v			09/22/16 00:42	1
Ethanol	2.0	*	2.0		ppb v/v			09/22/16 00:42	1
Ethylbenzene	0.65		0.080		ppb v/v			09/22/16 00:42	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/22/16 00:42	1
Hexane	0.20		0.20		ppb v/v			09/22/16 00:42	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/22/16 00:42	1
Methylene Chloride	0.36		0.20		ppb v/v			09/22/16 00:42	1
m-Xylene & p-Xylene	2.7		0.080		ppb v/v			09/22/16 00:42	1
o-Xylene	1.0		0.080		ppb v/v			09/22/16 00:42	1
Styrene	0.29		0.080		ppb v/v			09/22/16 00:42	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/22/16 00:42	1
Tetrachloroethene	43	E	0.080		ppb v/v			09/22/16 00:42	1
Toluene	2.2		0.12		ppb v/v			09/22/16 00:42	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/22/16 00:42	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/22/16 00:42	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-110

Lab Sample ID: 140-5852-12

Date Collected: 09/15/16 15:57

Matrix: Air

Date Received: 09/17/16 11:10

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
Trichloroethene	0.074		0.040		ppb v/v			09/22/16 00:42	1
Trichlorofluoromethane	0.34		0.080		ppb v/v			09/22/16 00:42	1
Vinyl chloride	ND		0.040		ppb v/v			09/22/16 00:42	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/22/16 00:42	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/22/16 00:42	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/22/16 00:42	1
1,1,2-Trichlorotrifluoroethane	0.75		0.61		ug/m3			09/22/16 00:42	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/22/16 00:42	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/22/16 00:42	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/22/16 00:42	1
1,2,4-Trimethylbenzene	7.6		0.39		ug/m3			09/22/16 00:42	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/22/16 00:42	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/22/16 00:42	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/22/16 00:42	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/22/16 00:42	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/22/16 00:42	1
1,3,5-Trimethylbenzene	1.6		0.39		ug/m3			09/22/16 00:42	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/22/16 00:42	1
1,4-Dichlorobenzene	120	E	0.48		ug/m3			09/22/16 00:42	1
1,4-Dioxane	ND		0.72		ug/m3			09/22/16 00:42	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/22/16 00:42	1
2-Butanone	17		0.94		ug/m3			09/22/16 00:42	1
4-Methyl-2-pentanone (MIBK)	2.5		0.82		ug/m3			09/22/16 00:42	1
Benzene	0.75		0.26		ug/m3			09/22/16 00:42	1
Benzyl chloride	ND		0.83		ug/m3			09/22/16 00:42	1
Bromodichloromethane	ND		0.54		ug/m3			09/22/16 00:42	1
Bromoform	ND		0.83		ug/m3			09/22/16 00:42	1
Bromomethane	ND		0.31		ug/m3			09/22/16 00:42	1
Carbon tetrachloride	0.49		0.25		ug/m3			09/22/16 00:42	1
Chlorobenzene	ND		0.37		ug/m3			09/22/16 00:42	1
Chloroethane	ND		0.21		ug/m3			09/22/16 00:42	1
Chloroform	7.2		0.39		ug/m3			09/22/16 00:42	1
Chloromethane	ND		0.41		ug/m3			09/22/16 00:42	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/22/16 00:42	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/22/16 00:42	1
Cyclohexane	ND		0.69		ug/m3			09/22/16 00:42	1
Dibromochloromethane	ND		0.68		ug/m3			09/22/16 00:42	1
Dichlorodifluoromethane	3.2		0.40		ug/m3			09/22/16 00:42	1
Ethanol	3.7	*	3.8		ug/m3			09/22/16 00:42	1
Ethylbenzene	2.8		0.35		ug/m3			09/22/16 00:42	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/22/16 00:42	1
Hexane	0.71		0.70		ug/m3			09/22/16 00:42	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/22/16 00:42	1
Methylene Chloride	1.2		0.69		ug/m3			09/22/16 00:42	1
m-Xylene & p-Xylene	12		0.35		ug/m3			09/22/16 00:42	1
o-Xylene	4.4		0.35		ug/m3			09/22/16 00:42	1
Styrene	1.2		0.34		ug/m3			09/22/16 00:42	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-110

Lab Sample ID: 140-5852-12

Date Collected: 09/15/16 15:57

Matrix: Air

Date Received: 09/17/16 11:10

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
t-Butyl alcohol	ND		0.97		ug/m3			09/22/16 00:42	1
Tetrachloroethene	290	E	0.54		ug/m3			09/22/16 00:42	1
Toluene	8.4		0.45		ug/m3			09/22/16 00:42	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/22/16 00:42	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/22/16 00:42	1
Trichloroethene	0.40		0.21		ug/m3			09/22/16 00:42	1
Trichlorofluoromethane	1.9		0.45		ug/m3			09/22/16 00:42	1
Vinyl chloride	ND		0.10		ug/m3			09/22/16 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		60 - 140		09/22/16 00:42	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
1,4-Dichlorobenzene	13	D	0.80		ppb v/v			09/23/16 07:10	1
Tetrachloroethene	24	D	0.80		ppb v/v			09/23/16 07:10	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	76	D	4.8		ug/m3			09/23/16 07:10	1
Tetrachloroethene	170	D	5.4		ug/m3			09/23/16 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		60 - 140		09/23/16 07:10	1

Client Sample ID: VP-125

Lab Sample ID: 140-5852-13

Date Collected: 09/15/16 13:05

Matrix: Air

Date Received: 09/17/16 11:10

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			09/22/16 01:31	1
1,1,1,2-Tetrachloroethane	ND		0.080		ppb v/v			09/22/16 01:31	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/22/16 01:31	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/22/16 01:31	1
1,1-Dichloroethane	0.085		0.080		ppb v/v			09/22/16 01:31	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/22/16 01:31	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/22/16 01:31	1
1,2,4-Trimethylbenzene	1.7		0.080		ppb v/v			09/22/16 01:31	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/22/16 01:31	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/22/16 01:31	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/22/16 01:31	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/22/16 01:31	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/22/16 01:31	1
1,3,5-Trimethylbenzene	0.34		0.080		ppb v/v			09/22/16 01:31	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/22/16 01:31	1
1,4-Dichlorobenzene	2.9		0.080		ppb v/v			09/22/16 01:31	1
1,4-Dioxane	ND		0.20		ppb v/v			09/22/16 01:31	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/22/16 01:31	1
2-Butanone	1.1		0.32		ppb v/v			09/22/16 01:31	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-125

Lab Sample ID: 140-5852-13

Date Collected: 09/15/16 13:05

Matrix: Air

Date Received: 09/17/16 11:10

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
4-Methyl-2-pentanone (MIBK)	2.6		0.20		ppb v/v			09/22/16 01:31	1
Benzene	0.47		0.080		ppb v/v			09/22/16 01:31	1
Benzyl chloride	ND		0.16		ppb v/v			09/22/16 01:31	1
Bromodichloromethane	0.37		0.080		ppb v/v			09/22/16 01:31	1
Bromoform	ND		0.080		ppb v/v			09/22/16 01:31	1
Bromomethane	ND		0.080		ppb v/v			09/22/16 01:31	1
Carbon tetrachloride	ND		0.040		ppb v/v			09/22/16 01:31	1
Chlorobenzene	ND		0.080		ppb v/v			09/22/16 01:31	1
Chloroethane	ND		0.080		ppb v/v			09/22/16 01:31	1
Chloroform	8.2		0.080		ppb v/v			09/22/16 01:31	1
Chloromethane	ND		0.20		ppb v/v			09/22/16 01:31	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/22/16 01:31	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/22/16 01:31	1
Cyclohexane	ND		0.20		ppb v/v			09/22/16 01:31	1
Dibromochloromethane	0.16		0.080		ppb v/v			09/22/16 01:31	1
Dichlorodifluoromethane	0.55		0.080		ppb v/v			09/22/16 01:31	1
Ethanol	ND *		2.0		ppb v/v			09/22/16 01:31	1
Ethylbenzene	0.71		0.080		ppb v/v			09/22/16 01:31	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/22/16 01:31	1
Hexane	0.27		0.20		ppb v/v			09/22/16 01:31	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/22/16 01:31	1
Methylene Chloride	0.47		0.20		ppb v/v			09/22/16 01:31	1
m-Xylene & p-Xylene	2.6		0.080		ppb v/v			09/22/16 01:31	1
o-Xylene	0.95		0.080		ppb v/v			09/22/16 01:31	1
Styrene	0.83		0.080		ppb v/v			09/22/16 01:31	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/22/16 01:31	1
Tetrachloroethene	2.6		0.080		ppb v/v			09/22/16 01:31	1
Toluene	1.9		0.12		ppb v/v			09/22/16 01:31	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/22/16 01:31	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/22/16 01:31	1
Trichloroethene	ND		0.040		ppb v/v			09/22/16 01:31	1
Trichlorofluoromethane	0.30		0.080		ppb v/v			09/22/16 01:31	1
Vinyl chloride	ND		0.040		ppb v/v			09/22/16 01:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/22/16 01:31	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/22/16 01:31	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/22/16 01:31	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/22/16 01:31	1
1,1-Dichloroethane	0.35		0.32		ug/m3			09/22/16 01:31	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/22/16 01:31	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/22/16 01:31	1
1,2,4-Trimethylbenzene	8.5		0.39		ug/m3			09/22/16 01:31	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/22/16 01:31	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/22/16 01:31	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/22/16 01:31	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/22/16 01:31	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/22/16 01:31	1
1,3,5-Trimethylbenzene	1.7		0.39		ug/m3			09/22/16 01:31	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-125

Lab Sample ID: 140-5852-13

Date Collected: 09/15/16 13:05

Matrix: Air

Date Received: 09/17/16 11:10

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
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/22/16 01:31	1
1,4-Dichlorobenzene	17		0.48		ug/m3			09/22/16 01:31	1
1,4-Dioxane	ND		0.72		ug/m3			09/22/16 01:31	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/22/16 01:31	1
2-Butanone	3.3		0.94		ug/m3			09/22/16 01:31	1
4-Methyl-2-pentanone (MIBK)	11		0.82		ug/m3			09/22/16 01:31	1
Benzene	1.5		0.26		ug/m3			09/22/16 01:31	1
Benzyl chloride	ND		0.83		ug/m3			09/22/16 01:31	1
Bromodichloromethane	2.5		0.54		ug/m3			09/22/16 01:31	1
Bromoform	ND		0.83		ug/m3			09/22/16 01:31	1
Bromomethane	ND		0.31		ug/m3			09/22/16 01:31	1
Carbon tetrachloride	ND		0.25		ug/m3			09/22/16 01:31	1
Chlorobenzene	ND		0.37		ug/m3			09/22/16 01:31	1
Chloroethane	ND		0.21		ug/m3			09/22/16 01:31	1
Chloroform	40		0.39		ug/m3			09/22/16 01:31	1
Chloromethane	ND		0.41		ug/m3			09/22/16 01:31	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/22/16 01:31	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/22/16 01:31	1
Cyclohexane	ND		0.69		ug/m3			09/22/16 01:31	1
Dibromochloromethane	1.4		0.68		ug/m3			09/22/16 01:31	1
Dichlorodifluoromethane	2.7		0.40		ug/m3			09/22/16 01:31	1
Ethanol	ND *		3.8		ug/m3			09/22/16 01:31	1
Ethylbenzene	3.1		0.35		ug/m3			09/22/16 01:31	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/22/16 01:31	1
Hexane	0.96		0.70		ug/m3			09/22/16 01:31	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/22/16 01:31	1
Methylene Chloride	1.6		0.69		ug/m3			09/22/16 01:31	1
m-Xylene & p-Xylene	11		0.35		ug/m3			09/22/16 01:31	1
o-Xylene	4.1		0.35		ug/m3			09/22/16 01:31	1
Styrene	3.5		0.34		ug/m3			09/22/16 01:31	1
t-Butyl alcohol	ND		0.97		ug/m3			09/22/16 01:31	1
Tetrachloroethene	18		0.54		ug/m3			09/22/16 01:31	1
Toluene	7.1		0.45		ug/m3			09/22/16 01:31	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/22/16 01:31	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/22/16 01:31	1
Trichloroethene	ND		0.21		ug/m3			09/22/16 01:31	1
Trichlorofluoromethane	1.7		0.45		ug/m3			09/22/16 01:31	1
Vinyl chloride	ND		0.10		ug/m3			09/22/16 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		60 - 140		09/22/16 01:31	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: AMBIENT AIR

Lab Sample ID: 140-5852-14

Date Collected: 09/15/16 13:42

Matrix: Air

Date Received: 09/17/16 11:10

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			09/22/16 03:11	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/22/16 03:11	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/22/16 03:11	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/22/16 03:11	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/22/16 03:11	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/22/16 03:11	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/22/16 03:11	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			09/22/16 03:11	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/22/16 03:11	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/22/16 03:11	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/22/16 03:11	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/22/16 03:11	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/22/16 03:11	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			09/22/16 03:11	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/22/16 03:11	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			09/22/16 03:11	1
1,4-Dioxane	ND		0.20		ppb v/v			09/22/16 03:11	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/22/16 03:11	1
2-Butanone	ND		0.32		ppb v/v			09/22/16 03:11	1
4-Methyl-2-pentanone (MIBK)	1.1		0.20		ppb v/v			09/22/16 03:11	1
Benzene	0.18		0.080		ppb v/v			09/22/16 03:11	1
Benzyl chloride	ND		0.16		ppb v/v			09/22/16 03:11	1
Bromodichloromethane	ND		0.080		ppb v/v			09/22/16 03:11	1
Bromoform	ND		0.080		ppb v/v			09/22/16 03:11	1
Bromomethane	ND		0.080		ppb v/v			09/22/16 03:11	1
Carbon tetrachloride	0.092		0.040		ppb v/v			09/22/16 03:11	1
Chlorobenzene	ND		0.080		ppb v/v			09/22/16 03:11	1
Chloroethane	ND		0.080		ppb v/v			09/22/16 03:11	1
Chloroform	ND		0.080		ppb v/v			09/22/16 03:11	1
Chloromethane	0.44		0.20		ppb v/v			09/22/16 03:11	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/22/16 03:11	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/22/16 03:11	1
Cyclohexane	ND		0.20		ppb v/v			09/22/16 03:11	1
Dibromochloromethane	ND		0.080		ppb v/v			09/22/16 03:11	1
Dichlorodifluoromethane	0.60		0.080		ppb v/v			09/22/16 03:11	1
Ethanol	5.8 *		2.0		ppb v/v			09/22/16 03:11	1
Ethylbenzene	ND		0.080		ppb v/v			09/22/16 03:11	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/22/16 03:11	1
Hexane	0.25		0.20		ppb v/v			09/22/16 03:11	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/22/16 03:11	1
Methylene Chloride	1.5		0.20		ppb v/v			09/22/16 03:11	1
m-Xylene & p-Xylene	0.17		0.080		ppb v/v			09/22/16 03:11	1
o-Xylene	ND		0.080		ppb v/v			09/22/16 03:11	1
Styrene	ND		0.080		ppb v/v			09/22/16 03:11	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/22/16 03:11	1
Tetrachloroethene	0.33		0.080		ppb v/v			09/22/16 03:11	1
Toluene	0.57		0.12		ppb v/v			09/22/16 03:11	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/22/16 03:11	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: AMBIENT AIR

Lab Sample ID: 140-5852-14

Date Collected: 09/15/16 13:42

Matrix: Air

Date Received: 09/17/16 11:10

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			09/22/16 03:11	1
Trichloroethene	ND		0.040		ppb v/v			09/22/16 03:11	1
Trichlorofluoromethane	0.30		0.080		ppb v/v			09/22/16 03:11	1
Vinyl chloride	ND		0.040		ppb v/v			09/22/16 03:11	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/22/16 03:11	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/22/16 03:11	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/22/16 03:11	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/22/16 03:11	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/22/16 03:11	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/22/16 03:11	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/22/16 03:11	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			09/22/16 03:11	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/22/16 03:11	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/22/16 03:11	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/22/16 03:11	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/22/16 03:11	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/22/16 03:11	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			09/22/16 03:11	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/22/16 03:11	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			09/22/16 03:11	1
1,4-Dioxane	ND		0.72		ug/m3			09/22/16 03:11	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/22/16 03:11	1
2-Butanone	ND		0.94		ug/m3			09/22/16 03:11	1
4-Methyl-2-pentanone (MIBK)	4.6		0.82		ug/m3			09/22/16 03:11	1
Benzene	0.57		0.26		ug/m3			09/22/16 03:11	1
Benzyl chloride	ND		0.83		ug/m3			09/22/16 03:11	1
Bromodichloromethane	ND		0.54		ug/m3			09/22/16 03:11	1
Bromoform	ND		0.83		ug/m3			09/22/16 03:11	1
Bromomethane	ND		0.31		ug/m3			09/22/16 03:11	1
Carbon tetrachloride	0.58		0.25		ug/m3			09/22/16 03:11	1
Chlorobenzene	ND		0.37		ug/m3			09/22/16 03:11	1
Chloroethane	ND		0.21		ug/m3			09/22/16 03:11	1
Chloroform	ND		0.39		ug/m3			09/22/16 03:11	1
Chloromethane	0.91		0.41		ug/m3			09/22/16 03:11	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/22/16 03:11	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/22/16 03:11	1
Cyclohexane	ND		0.69		ug/m3			09/22/16 03:11	1
Dibromochloromethane	ND		0.68		ug/m3			09/22/16 03:11	1
Dichlorodifluoromethane	3.0		0.40		ug/m3			09/22/16 03:11	1
Ethanol	11 *		3.8		ug/m3			09/22/16 03:11	1
Ethylbenzene	ND		0.35		ug/m3			09/22/16 03:11	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/22/16 03:11	1
Hexane	0.87		0.70		ug/m3			09/22/16 03:11	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/22/16 03:11	1
Methylene Chloride	5.1		0.69		ug/m3			09/22/16 03:11	1
m-Xylene & p-Xylene	0.73		0.35		ug/m3			09/22/16 03:11	1
o-Xylene	ND		0.35		ug/m3			09/22/16 03:11	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: AMBIENT AIR

Lab Sample ID: 140-5852-14

Date Collected: 09/15/16 13:42

Matrix: Air

Date Received: 09/17/16 11:10

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	ND		0.34		ug/m3			09/22/16 03:11	1
t-Butyl alcohol	ND		0.97		ug/m3			09/22/16 03:11	1
Tetrachloroethene	2.3		0.54		ug/m3			09/22/16 03:11	1
Toluene	2.2		0.45		ug/m3			09/22/16 03:11	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/22/16 03:11	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/22/16 03:11	1
Trichloroethene	ND		0.21		ug/m3			09/22/16 03:11	1
Trichlorofluoromethane	1.7		0.45		ug/m3			09/22/16 03:11	1
Vinyl chloride	ND		0.10		ug/m3			09/22/16 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140		09/22/16 03:11	1

Default Detection Limits

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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)
140-5852-1	VP-BLIND DUP	105
140-5852-2	VP-127	107
140-5852-3	VP-128	105
140-5852-3 - DL	VP-128	101
140-5852-4	VP-129	110
140-5852-5	VP-130	112
140-5852-5 - DL	VP-130	114
140-5852-6	VP-126	109
140-5852-7	VP-104	103
140-5852-8	VP-102	110
140-5852-9	VP-100	110
140-5852-9 - DL	VP-100	112
140-5852-10	VP-113	108
140-5852-11	VP-112	106
140-5852-11 - DL	VP-112	109
140-5852-12	VP-110	107
140-5852-12 - DL	VP-110	112
140-5852-13	VP-125	109
140-5852-14	AMBIENT AIR	101
LCS 140-6625/1002	Lab Control Sample	112
LCS 140-6632/1002	Lab Control Sample	115
MB 140-6625/4	Method Blank	103
MB 140-6632/17	Method Blank	107

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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

Lab Sample ID: MB 140-6625/4
Matrix: Air
Analysis Batch: 6625

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			09/21/16 15:19	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/21/16 15:19	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/21/16 15:19	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/21/16 15:19	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/21/16 15:19	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/21/16 15:19	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			09/21/16 15:19	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			09/21/16 15:19	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/21/16 15:19	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 15:19	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/21/16 15:19	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/21/16 15:19	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/21/16 15:19	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			09/21/16 15:19	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 15:19	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			09/21/16 15:19	1
1,4-Dioxane	ND		0.20		ppb v/v			09/21/16 15:19	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/21/16 15:19	1
2-Butanone	ND		0.32		ppb v/v			09/21/16 15:19	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			09/21/16 15:19	1
Benzene	ND		0.080		ppb v/v			09/21/16 15:19	1
Benzyl chloride	ND		0.16		ppb v/v			09/21/16 15:19	1
Bromodichloromethane	ND		0.080		ppb v/v			09/21/16 15:19	1
Bromoform	ND		0.080		ppb v/v			09/21/16 15:19	1
Bromomethane	ND		0.080		ppb v/v			09/21/16 15:19	1
Carbon tetrachloride	ND		0.040		ppb v/v			09/21/16 15:19	1
Chlorobenzene	ND		0.080		ppb v/v			09/21/16 15:19	1
Chloroethane	ND		0.080		ppb v/v			09/21/16 15:19	1
Chloroform	ND		0.080		ppb v/v			09/21/16 15:19	1
Chloromethane	ND		0.20		ppb v/v			09/21/16 15:19	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 15:19	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/21/16 15:19	1
Cyclohexane	ND		0.20		ppb v/v			09/21/16 15:19	1
Dibromochloromethane	ND		0.080		ppb v/v			09/21/16 15:19	1
Dichlorodifluoromethane	ND		0.080		ppb v/v			09/21/16 15:19	1
Ethanol	ND		2.0		ppb v/v			09/21/16 15:19	1
Ethylbenzene	ND		0.080		ppb v/v			09/21/16 15:19	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/21/16 15:19	1
Hexane	ND		0.20		ppb v/v			09/21/16 15:19	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/21/16 15:19	1
Methylene Chloride	ND		0.20		ppb v/v			09/21/16 15:19	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			09/21/16 15:19	1
o-Xylene	ND		0.080		ppb v/v			09/21/16 15:19	1
Styrene	ND		0.080		ppb v/v			09/21/16 15:19	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/21/16 15:19	1
Tetrachloroethene	ND		0.080		ppb v/v			09/21/16 15:19	1
Toluene	ND		0.12		ppb v/v			09/21/16 15:19	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/21/16 15:19	1

QC Sample Results

Client: New York State D.E.C.
 Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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

Lab Sample ID: MB 140-6625/4
Matrix: Air
Analysis Batch: 6625

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			09/21/16 15:19	1
Trichloroethene	ND		0.040		ppb v/v			09/21/16 15:19	1
Trichlorofluoromethane	ND		0.080		ppb v/v			09/21/16 15:19	1
Vinyl chloride	ND		0.040		ppb v/v			09/21/16 15:19	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/21/16 15:19	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/21/16 15:19	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/21/16 15:19	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/21/16 15:19	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/21/16 15:19	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/21/16 15:19	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/21/16 15:19	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			09/21/16 15:19	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/21/16 15:19	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 15:19	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/21/16 15:19	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/21/16 15:19	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/21/16 15:19	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			09/21/16 15:19	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 15:19	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			09/21/16 15:19	1
1,4-Dioxane	ND		0.72		ug/m3			09/21/16 15:19	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/21/16 15:19	1
2-Butanone	ND		0.94		ug/m3			09/21/16 15:19	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			09/21/16 15:19	1
Benzene	ND		0.26		ug/m3			09/21/16 15:19	1
Benzyl chloride	ND		0.83		ug/m3			09/21/16 15:19	1
Bromodichloromethane	ND		0.54		ug/m3			09/21/16 15:19	1
Bromoform	ND		0.83		ug/m3			09/21/16 15:19	1
Bromomethane	ND		0.31		ug/m3			09/21/16 15:19	1
Carbon tetrachloride	ND		0.25		ug/m3			09/21/16 15:19	1
Chlorobenzene	ND		0.37		ug/m3			09/21/16 15:19	1
Chloroethane	ND		0.21		ug/m3			09/21/16 15:19	1
Chloroform	ND		0.39		ug/m3			09/21/16 15:19	1
Chloromethane	ND		0.41		ug/m3			09/21/16 15:19	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 15:19	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 15:19	1
Cyclohexane	ND		0.69		ug/m3			09/21/16 15:19	1
Dibromochloromethane	ND		0.68		ug/m3			09/21/16 15:19	1
Dichlorodifluoromethane	ND		0.40		ug/m3			09/21/16 15:19	1
Ethanol	ND		3.8		ug/m3			09/21/16 15:19	1
Ethylbenzene	ND		0.35		ug/m3			09/21/16 15:19	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/21/16 15:19	1
Hexane	ND		0.70		ug/m3			09/21/16 15:19	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/21/16 15:19	1
Methylene Chloride	ND		0.69		ug/m3			09/21/16 15:19	1

QC Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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

Lab Sample ID: MB 140-6625/4
Matrix: Air
Analysis Batch: 6625

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		0.35		ug/m3			09/21/16 15:19	1
o-Xylene	ND		0.35		ug/m3			09/21/16 15:19	1
Styrene	ND		0.34		ug/m3			09/21/16 15:19	1
t-Butyl alcohol	ND		0.97		ug/m3			09/21/16 15:19	1
Tetrachloroethene	ND		0.54		ug/m3			09/21/16 15:19	1
Toluene	ND		0.45		ug/m3			09/21/16 15:19	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/21/16 15:19	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/21/16 15:19	1
Trichloroethene	ND		0.21		ug/m3			09/21/16 15:19	1
Trichlorofluoromethane	ND		0.45		ug/m3			09/21/16 15:19	1
Vinyl chloride	ND		0.10		ug/m3			09/21/16 15:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		60 - 140					09/21/16 15:19	1

Lab Sample ID: LCS 140-6625/1002
Matrix: Air
Analysis Batch: 6625

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	2.37		ppb v/v		119	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.02		ppb v/v		101	70 - 130
1,1,2-Trichloroethane	2.00	2.10		ppb v/v		105	70 - 130
1,1,2-Trichlorotrifluoroethane	2.00	2.42		ppb v/v		121	70 - 130
1,1-Dichloroethane	2.00	1.95		ppb v/v		97	70 - 130
1,1-Dichloroethene	2.00	2.07		ppb v/v		103	70 - 130
1,2,4-Trichlorobenzene	2.00	1.86		ppb v/v		93	60 - 140
1,2,4-Trimethylbenzene	2.00	1.85		ppb v/v		92	70 - 130
1,2-Dibromoethane	2.00	2.11		ppb v/v		105	70 - 130
1,2-Dichlorobenzene	2.00	1.83		ppb v/v		92	70 - 130
1,2-Dichloroethane	2.00	2.12		ppb v/v		106	70 - 130
1,2-Dichloropropane	2.00	1.75		ppb v/v		87	70 - 130
1,2-Dichlorotetrafluoroethane	2.00	2.20		ppb v/v		110	60 - 140
1,3,5-Trimethylbenzene	2.00	1.81		ppb v/v		90	70 - 130
1,3-Dichlorobenzene	2.00	1.89		ppb v/v		95	70 - 130
1,4-Dichlorobenzene	2.00	1.93		ppb v/v		96	70 - 130
1,4-Dioxane	2.00	1.57		ppb v/v		78	60 - 140
2,2,4-Trimethylpentane	2.00	1.66		ppb v/v		83	70 - 130
2-Butanone	2.00	1.71		ppb v/v		86	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	1.27		ppb v/v		63	60 - 140
Benzene	2.00	1.92		ppb v/v		96	70 - 130
Benzyl chloride	2.00	1.97		ppb v/v		98	70 - 130
Bromodichloromethane	2.00	2.24		ppb v/v		112	70 - 130
Bromoform	2.00	1.82		ppb v/v		91	60 - 140
Bromomethane	2.00	2.05		ppb v/v		103	70 - 130
Carbon tetrachloride	2.00	2.42		ppb v/v		121	70 - 130
Chlorobenzene	2.00	1.97		ppb v/v		98	70 - 130

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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

Lab Sample ID: LCS 140-6625/1002

Matrix: Air

Analysis Batch: 6625

**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	1.75		ppb v/v		87	70 - 130
Chloroform	2.00	2.28		ppb v/v		114	70 - 130
Chloromethane	2.00	1.52		ppb v/v		76	60 - 140
cis-1,2-Dichloroethene	2.00	1.93		ppb v/v		97	70 - 130
cis-1,3-Dichloropropene	2.00	2.12		ppb v/v		106	70 - 130
Cyclohexane	2.00	2.13		ppb v/v		107	70 - 130
Dibromochloromethane	2.00	2.24		ppb v/v		112	70 - 130
Dichlorodifluoromethane	2.00	2.62		ppb v/v		131	60 - 140
Ethanol	10.0	5.65 *		ppb v/v		57	60 - 140
Ethylbenzene	2.00	2.01		ppb v/v		101	70 - 130
Hexachlorobutadiene	2.00	1.84		ppb v/v		92	60 - 140
Hexane	2.00	1.72		ppb v/v		86	70 - 130
Methyl tert-butyl ether	2.00	2.08		ppb v/v		104	60 - 140
Methylene Chloride	2.00	1.73		ppb v/v		87	70 - 130
m-Xylene & p-Xylene	4.00	4.07		ppb v/v		102	70 - 130
o-Xylene	2.00	1.97		ppb v/v		99	70 - 130
Styrene	2.00	2.00		ppb v/v		100	70 - 130
t-Butyl alcohol	2.00	1.63		ppb v/v		81	60 - 140
Tetrachloroethene	2.00	2.02		ppb v/v		101	70 - 130
Toluene	2.00	1.95		ppb v/v		97	70 - 130
trans-1,2-Dichloroethene	2.00	2.06		ppb v/v		103	70 - 130
trans-1,3-Dichloropropene	2.00	2.31		ppb v/v		115	70 - 130
Trichloroethene	2.00	1.81		ppb v/v		91	70 - 130
Trichlorofluoromethane	2.00	2.62		ppb v/v		131	60 - 140
Vinyl chloride	2.00	1.76		ppb v/v		88	70 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.9		ug/m3		119	70 - 130
1,1,1,2-Tetrachloroethane	14	13.9		ug/m3		101	70 - 130
1,1,2-Trichloroethane	11	11.5		ug/m3		105	70 - 130
1,1,2-Trichlorotrifluoroethane	15	18.5		ug/m3		121	70 - 130
1,1-Dichloroethane	8.1	7.89		ug/m3		97	70 - 130
1,1-Dichloroethene	7.9	8.19		ug/m3		103	70 - 130
1,2,4-Trichlorobenzene	15	13.8		ug/m3		93	60 - 140
1,2,4-Trimethylbenzene	9.8	9.08		ug/m3		92	70 - 130
1,2-Dibromoethane	15	16.2		ug/m3		105	70 - 130
1,2-Dichlorobenzene	12	11.0		ug/m3		92	70 - 130
1,2-Dichloroethane	8.1	8.57		ug/m3		106	70 - 130
1,2-Dichloropropane	9.2	8.08		ug/m3		87	70 - 130
1,2-Dichlorotetrafluoroethane	14	15.4		ug/m3		110	60 - 140
1,3,5-Trimethylbenzene	9.8	8.90		ug/m3		90	70 - 130
1,3-Dichlorobenzene	12	11.4		ug/m3		95	70 - 130
1,4-Dichlorobenzene	12	11.6		ug/m3		96	70 - 130
1,4-Dioxane	7.2	5.65		ug/m3		78	60 - 140
2,2,4-Trimethylpentane	9.3	7.74		ug/m3		83	70 - 130
2-Butanone	5.9	5.05		ug/m3		86	60 - 140
4-Methyl-2-pentanone (MIBK)	8.2	5.20		ug/m3		63	60 - 140

QC Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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

Lab Sample ID: LCS 140-6625/1002
Matrix: Air
Analysis Batch: 6625

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Benzene	6.4	6.13		ug/m3		96	70 - 130
Benzyl chloride	10	10.2		ug/m3		98	70 - 130
Bromodichloromethane	13	15.0		ug/m3		112	70 - 130
Bromoform	21	18.8		ug/m3		91	60 - 140
Bromomethane	7.8	7.97		ug/m3		103	70 - 130
Carbon tetrachloride	13	15.2		ug/m3		121	70 - 130
Chlorobenzene	9.2	9.06		ug/m3		98	70 - 130
Chloroethane	5.3	4.61		ug/m3		87	70 - 130
Chloroform	9.8	11.1		ug/m3		114	70 - 130
Chloromethane	4.1	3.14		ug/m3		76	60 - 140
cis-1,2-Dichloroethene	7.9	7.67		ug/m3		97	70 - 130
cis-1,3-Dichloropropene	9.1	9.62		ug/m3		106	70 - 130
Cyclohexane	6.9	7.35		ug/m3		107	70 - 130
Dibromochloromethane	17	19.1		ug/m3		112	70 - 130
Dichlorodifluoromethane	9.9	13.0		ug/m3		131	60 - 140
Ethanol	19	10.7 *		ug/m3		57	60 - 140
Ethylbenzene	8.7	8.73		ug/m3		101	70 - 130
Hexachlorobutadiene	21	19.6		ug/m3		92	60 - 140
Hexane	7.0	6.06		ug/m3		86	70 - 130
Methyl tert-butyl ether	7.2	7.49		ug/m3		104	60 - 140
Methylene Chloride	6.9	6.02		ug/m3		87	70 - 130
m-Xylene & p-Xylene	17	17.7		ug/m3		102	70 - 130
o-Xylene	8.7	8.57		ug/m3		99	70 - 130
Styrene	8.5	8.51		ug/m3		100	70 - 130
t-Butyl alcohol	6.1	4.93		ug/m3		81	60 - 140
Tetrachloroethene	14	13.7		ug/m3		101	70 - 130
Toluene	7.5	7.34		ug/m3		97	70 - 130
trans-1,2-Dichloroethene	7.9	8.15		ug/m3		103	70 - 130
trans-1,3-Dichloropropene	9.1	10.5		ug/m3		115	70 - 130
Trichloroethene	11	9.74		ug/m3		91	70 - 130
Trichlorofluoromethane	11	14.7		ug/m3		131	60 - 140
Vinyl chloride	5.1	4.50		ug/m3		88	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	112		60 - 140

Lab Sample ID: MB 140-6632/17
Matrix: Air
Analysis Batch: 6632

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			09/22/16 15:32	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			09/22/16 15:32	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			09/22/16 15:32	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			09/22/16 15:32	1
1,1-Dichloroethane	ND		0.080		ppb v/v			09/22/16 15:32	1
1,1-Dichloroethene	ND		0.080		ppb v/v			09/22/16 15:32	1

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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

Lab Sample ID: MB 140-6632/17
Matrix: Air
Analysis Batch: 6632

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			09/22/16 15:32	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			09/22/16 15:32	1
1,2-Dibromoethane	ND		0.080		ppb v/v			09/22/16 15:32	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			09/22/16 15:32	1
1,2-Dichloroethane	ND		0.080		ppb v/v			09/22/16 15:32	1
1,2-Dichloropropane	ND		0.080		ppb v/v			09/22/16 15:32	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			09/22/16 15:32	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			09/22/16 15:32	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			09/22/16 15:32	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			09/22/16 15:32	1
1,4-Dioxane	ND		0.20		ppb v/v			09/22/16 15:32	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			09/22/16 15:32	1
2-Butanone	ND		0.32		ppb v/v			09/22/16 15:32	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			09/22/16 15:32	1
Benzene	ND		0.080		ppb v/v			09/22/16 15:32	1
Benzyl chloride	ND		0.16		ppb v/v			09/22/16 15:32	1
Bromodichloromethane	ND		0.080		ppb v/v			09/22/16 15:32	1
Bromoform	ND		0.080		ppb v/v			09/22/16 15:32	1
Bromomethane	ND		0.080		ppb v/v			09/22/16 15:32	1
Carbon tetrachloride	ND		0.040		ppb v/v			09/22/16 15:32	1
Chlorobenzene	ND		0.080		ppb v/v			09/22/16 15:32	1
Chloroethane	ND		0.080		ppb v/v			09/22/16 15:32	1
Chloroform	ND		0.080		ppb v/v			09/22/16 15:32	1
Chloromethane	ND		0.20		ppb v/v			09/22/16 15:32	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			09/22/16 15:32	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			09/22/16 15:32	1
Cyclohexane	ND		0.20		ppb v/v			09/22/16 15:32	1
Dibromochloromethane	ND		0.080		ppb v/v			09/22/16 15:32	1
Dichlorodifluoromethane	ND		0.080		ppb v/v			09/22/16 15:32	1
Ethanol	ND		2.0		ppb v/v			09/22/16 15:32	1
Ethylbenzene	ND		0.080		ppb v/v			09/22/16 15:32	1
Hexachlorobutadiene	ND		0.080		ppb v/v			09/22/16 15:32	1
Hexane	ND		0.20		ppb v/v			09/22/16 15:32	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			09/22/16 15:32	1
Methylene Chloride	ND		0.20		ppb v/v			09/22/16 15:32	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			09/22/16 15:32	1
o-Xylene	ND		0.080		ppb v/v			09/22/16 15:32	1
Styrene	ND		0.080		ppb v/v			09/22/16 15:32	1
t-Butyl alcohol	ND		0.32		ppb v/v			09/22/16 15:32	1
Tetrachloroethene	ND		0.080		ppb v/v			09/22/16 15:32	1
Toluene	ND		0.12		ppb v/v			09/22/16 15:32	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			09/22/16 15:32	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			09/22/16 15:32	1
Trichloroethene	ND		0.040		ppb v/v			09/22/16 15:32	1
Trichlorofluoromethane	ND		0.080		ppb v/v			09/22/16 15:32	1
Vinyl chloride	ND		0.040		ppb v/v			09/22/16 15:32	1

QC Sample Results

Client: New York State D.E.C.

TestAmerica Job ID: 140-5852-1

Project/Site: 1st Ave & E. 90th St./#231008

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.44		ug/m3			09/22/16 15:32	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			09/22/16 15:32	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			09/22/16 15:32	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			09/22/16 15:32	1
1,1-Dichloroethane	ND		0.32		ug/m3			09/22/16 15:32	1
1,1-Dichloroethene	ND		0.32		ug/m3			09/22/16 15:32	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			09/22/16 15:32	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			09/22/16 15:32	1
1,2-Dibromoethane	ND		0.61		ug/m3			09/22/16 15:32	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			09/22/16 15:32	1
1,2-Dichloroethane	ND		0.32		ug/m3			09/22/16 15:32	1
1,2-Dichloropropane	ND		0.37		ug/m3			09/22/16 15:32	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			09/22/16 15:32	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			09/22/16 15:32	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			09/22/16 15:32	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			09/22/16 15:32	1
1,4-Dioxane	ND		0.72		ug/m3			09/22/16 15:32	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			09/22/16 15:32	1
2-Butanone	ND		0.94		ug/m3			09/22/16 15:32	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			09/22/16 15:32	1
Benzene	ND		0.26		ug/m3			09/22/16 15:32	1
Benzyl chloride	ND		0.83		ug/m3			09/22/16 15:32	1
Bromodichloromethane	ND		0.54		ug/m3			09/22/16 15:32	1
Bromoform	ND		0.83		ug/m3			09/22/16 15:32	1
Bromomethane	ND		0.31		ug/m3			09/22/16 15:32	1
Carbon tetrachloride	ND		0.25		ug/m3			09/22/16 15:32	1
Chlorobenzene	ND		0.37		ug/m3			09/22/16 15:32	1
Chloroethane	ND		0.21		ug/m3			09/22/16 15:32	1
Chloroform	ND		0.39		ug/m3			09/22/16 15:32	1
Chloromethane	ND		0.41		ug/m3			09/22/16 15:32	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			09/22/16 15:32	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			09/22/16 15:32	1
Cyclohexane	ND		0.69		ug/m3			09/22/16 15:32	1
Dibromochloromethane	ND		0.68		ug/m3			09/22/16 15:32	1
Dichlorodifluoromethane	ND		0.40		ug/m3			09/22/16 15:32	1
Ethanol	ND		3.8		ug/m3			09/22/16 15:32	1
Ethylbenzene	ND		0.35		ug/m3			09/22/16 15:32	1
Hexachlorobutadiene	ND		0.85		ug/m3			09/22/16 15:32	1
Hexane	ND		0.70		ug/m3			09/22/16 15:32	1
Methyl tert-butyl ether	ND		0.58		ug/m3			09/22/16 15:32	1
Methylene Chloride	ND		0.69		ug/m3			09/22/16 15:32	1
m-Xylene & p-Xylene	ND		0.35		ug/m3			09/22/16 15:32	1
o-Xylene	ND		0.35		ug/m3			09/22/16 15:32	1
Styrene	ND		0.34		ug/m3			09/22/16 15:32	1
t-Butyl alcohol	ND		0.97		ug/m3			09/22/16 15:32	1
Tetrachloroethene	ND		0.54		ug/m3			09/22/16 15:32	1
Toluene	ND		0.45		ug/m3			09/22/16 15:32	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			09/22/16 15:32	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			09/22/16 15:32	1
Trichloroethene	ND		0.21		ug/m3			09/22/16 15:32	1
Trichlorofluoromethane	ND		0.45		ug/m3			09/22/16 15:32	1
Vinyl chloride	ND		0.10		ug/m3			09/22/16 15:32	1

QC Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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

Lab Sample ID: MB 140-6632/17
Matrix: Air
Analysis Batch: 6632

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

Surrogate	<i>MB</i>	<i>MB</i>	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107	Qualifier	60 - 140		09/22/16 15:32	1

Lab Sample ID: LCS 140-6632/1002
Matrix: Air
Analysis Batch: 6632

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	2.23		ppb v/v		112	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.55		ppb v/v		77	70 - 130
1,1,2-Trichloroethane	2.00	1.55		ppb v/v		77	70 - 130
1,1,2-Trichlorotrifluoroethane	2.00	2.06		ppb v/v		103	70 - 130
1,1-Dichloroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1-Dichloroethene	2.00	1.96		ppb v/v		98	70 - 130
1,2,4-Trichlorobenzene	2.00	1.54		ppb v/v		77	60 - 140
1,2,4-Trimethylbenzene	2.00	1.64		ppb v/v		82	70 - 130
1,2-Dibromoethane	2.00	1.57		ppb v/v		78	70 - 130
1,2-Dichlorobenzene	2.00	1.50		ppb v/v		75	70 - 130
1,2-Dichloroethane	2.00	2.16		ppb v/v		108	70 - 130
1,2-Dichloropropane	2.00	1.75		ppb v/v		87	70 - 130
1,2-Dichlorotetrafluoroethane	2.00	2.31		ppb v/v		115	60 - 140
1,3,5-Trimethylbenzene	2.00	1.51		ppb v/v		76	70 - 130
1,3-Dichlorobenzene	2.00	1.50		ppb v/v		75	70 - 130
1,4-Dichlorobenzene	2.00	1.50		ppb v/v		75	70 - 130
1,4-Dioxane	2.00	1.57		ppb v/v		78	60 - 140
2,2,4-Trimethylpentane	2.00	2.00		ppb v/v		100	70 - 130
2-Butanone	2.00	1.52		ppb v/v		76	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	1.70		ppb v/v		85	60 - 140
Benzene	2.00	1.83		ppb v/v		91	70 - 130
Benzyl chloride	2.00	1.65		ppb v/v		82	70 - 130
Bromodichloromethane	2.00	1.88		ppb v/v		94	70 - 130
Bromoform	2.00	1.61		ppb v/v		80	60 - 140
Bromomethane	2.00	2.24		ppb v/v		112	70 - 130
Carbon tetrachloride	2.00	2.23		ppb v/v		111	70 - 130
Chlorobenzene	2.00	1.56		ppb v/v		78	70 - 130
Chloroethane	2.00	2.52		ppb v/v		126	70 - 130
Chloroform	2.00	2.07		ppb v/v		103	70 - 130
Chloromethane	2.00	2.78		ppb v/v		139	60 - 140
cis-1,2-Dichloroethene	2.00	2.03		ppb v/v		101	70 - 130
cis-1,3-Dichloropropene	2.00	1.81		ppb v/v		90	70 - 130
Cyclohexane	2.00	2.08		ppb v/v		104	70 - 130
Dibromochloromethane	2.00	1.65		ppb v/v		83	70 - 130
Dichlorodifluoromethane	2.00	2.42		ppb v/v		121	60 - 140
Ethanol	10.0	13.6		ppb v/v		136	60 - 140
Ethylbenzene	2.00	1.57		ppb v/v		78	70 - 130
Hexachlorobutadiene	2.00	1.33		ppb v/v		66	60 - 140
Hexane	2.00	2.30		ppb v/v		115	70 - 130
Methyl tert-butyl ether	2.00	1.84		ppb v/v		92	60 - 140

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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

Lab Sample ID: LCS 140-6632/1002

Matrix: Air

Analysis Batch: 6632

**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	1.98		ppb v/v		99	70 - 130
m-Xylene & p-Xylene	4.00	3.18		ppb v/v		80	70 - 130
o-Xylene	2.00	1.55		ppb v/v		77	70 - 130
Styrene	2.00	1.64		ppb v/v		82	70 - 130
t-Butyl alcohol	2.00	1.92		ppb v/v		96	60 - 140
Tetrachloroethene	2.00	1.55		ppb v/v		78	70 - 130
Toluene	2.00	1.53		ppb v/v		76	70 - 130
trans-1,2-Dichloroethene	2.00	1.97		ppb v/v		98	70 - 130
trans-1,3-Dichloropropene	2.00	1.79		ppb v/v		90	70 - 130
Trichloroethene	2.00	1.76		ppb v/v		88	70 - 130
Trichlorofluoromethane	2.00	2.23		ppb v/v		111	60 - 140
Vinyl chloride	2.00	2.54		ppb v/v		127	70 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.2		ug/m3		112	70 - 130
1,1,1,2-Tetrachloroethane	14	10.6		ug/m3		77	70 - 130
1,1,2-Trichloroethane	11	8.46		ug/m3		77	70 - 130
1,1,2-Trichlorotrifluoroethane	15	15.8		ug/m3		103	70 - 130
1,1-Dichloroethane	8.1	9.01		ug/m3		111	70 - 130
1,1-Dichloroethene	7.9	7.78		ug/m3		98	70 - 130
1,2,4-Trichlorobenzene	15	11.4		ug/m3		77	60 - 140
1,2,4-Trimethylbenzene	9.8	8.06		ug/m3		82	70 - 130
1,2-Dibromoethane	15	12.1		ug/m3		78	70 - 130
1,2-Dichlorobenzene	12	9.02		ug/m3		75	70 - 130
1,2-Dichloroethane	8.1	8.76		ug/m3		108	70 - 130
1,2-Dichloropropane	9.2	8.09		ug/m3		87	70 - 130
1,2-Dichlorotetrafluoroethane	14	16.1		ug/m3		115	60 - 140
1,3,5-Trimethylbenzene	9.8	7.45		ug/m3		76	70 - 130
1,3-Dichlorobenzene	12	9.01		ug/m3		75	70 - 130
1,4-Dichlorobenzene	12	9.02		ug/m3		75	70 - 130
1,4-Dioxane	7.2	5.65		ug/m3		78	60 - 140
2,2,4-Trimethylpentane	9.3	9.34		ug/m3		100	70 - 130
2-Butanone	5.9	4.49		ug/m3		76	60 - 140
4-Methyl-2-pentanone (MIBK)	8.2	6.96		ug/m3		85	60 - 140
Benzene	6.4	5.84		ug/m3		91	70 - 130
Benzyl chloride	10	8.52		ug/m3		82	70 - 130
Bromodichloromethane	13	12.6		ug/m3		94	70 - 130
Bromoform	21	16.6		ug/m3		80	60 - 140
Bromomethane	7.8	8.69		ug/m3		112	70 - 130
Carbon tetrachloride	13	14.0		ug/m3		111	70 - 130
Chlorobenzene	9.2	7.19		ug/m3		78	70 - 130
Chloroethane	5.3	6.65		ug/m3		126	70 - 130
Chloroform	9.8	10.1		ug/m3		103	70 - 130
Chloromethane	4.1	5.74		ug/m3		139	60 - 140
cis-1,2-Dichloroethene	7.9	8.04		ug/m3		101	70 - 130
cis-1,3-Dichloropropene	9.1	8.21		ug/m3		90	70 - 130
Cyclohexane	6.9	7.16		ug/m3		104	70 - 130

QC Sample Results

Client: New York State D.E.C.
 Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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

Lab Sample ID: LCS 140-6632/1002
Matrix: Air
Analysis Batch: 6632

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Dibromochloromethane	17	14.1		ug/m3		83	70 - 130
Dichlorodifluoromethane	9.9	12.0		ug/m3		121	60 - 140
Ethanol	19	25.6		ug/m3		136	60 - 140
Ethylbenzene	8.7	6.82		ug/m3		78	70 - 130
Hexachlorobutadiene	21	14.1		ug/m3		66	60 - 140
Hexane	7.1	8.10		ug/m3		115	70 - 130
Methyl tert-butyl ether	7.2	6.62		ug/m3		92	60 - 140
Methylene Chloride	7.0	6.89		ug/m3		99	70 - 130
m-Xylene & p-Xylene	17	13.8		ug/m3		80	70 - 130
o-Xylene	8.7	6.71		ug/m3		77	70 - 130
Styrene	8.5	6.98		ug/m3		82	70 - 130
t-Butyl alcohol	6.1	5.82		ug/m3		96	60 - 140
Tetrachloroethene	14	10.5		ug/m3		78	70 - 130
Toluene	7.5	5.76		ug/m3		76	70 - 130
trans-1,2-Dichloroethene	7.9	7.81		ug/m3		98	70 - 130
trans-1,3-Dichloropropene	9.1	8.13		ug/m3		90	70 - 130
Trichloroethene	11	9.44		ug/m3		88	70 - 130
Trichlorofluoromethane	11	12.5		ug/m3		111	60 - 140
Vinyl chloride	5.1	6.48		ug/m3		127	70 - 130
Surrogate		LCS	LCS				
		%Recovery	Qualifier				Limits
4-Bromofluorobenzene (Surr)		115					60 - 140

QC Association Summary

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Air - GC/MS VOA

Analysis Batch: 6625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-5852-1	VP-BLIND DUP	Total/NA	Air	TO 15 LL	
140-5852-2	VP-127	Total/NA	Air	TO 15 LL	
140-5852-3	VP-128	Total/NA	Air	TO 15 LL	
140-5852-4	VP-129	Total/NA	Air	TO 15 LL	
140-5852-5	VP-130	Total/NA	Air	TO 15 LL	
140-5852-6	VP-126	Total/NA	Air	TO 15 LL	
140-5852-7	VP-104	Total/NA	Air	TO 15 LL	
140-5852-8	VP-102	Total/NA	Air	TO 15 LL	
140-5852-9	VP-100	Total/NA	Air	TO 15 LL	
140-5852-11	VP-112	Total/NA	Air	TO 15 LL	
140-5852-12	VP-110	Total/NA	Air	TO 15 LL	
140-5852-13	VP-125	Total/NA	Air	TO 15 LL	
140-5852-14	AMBIENT AIR	Total/NA	Air	TO 15 LL	
MB 140-6625/4	Method Blank	Total/NA	Air	TO 15 LL	
LCS 140-6625/1002	Lab Control Sample	Total/NA	Air	TO 15 LL	

Analysis Batch: 6632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-5852-3 - DL	VP-128	Total/NA	Air	TO 15 LL	
140-5852-5 - DL	VP-130	Total/NA	Air	TO 15 LL	
140-5852-9 - DL	VP-100	Total/NA	Air	TO 15 LL	
140-5852-10	VP-113	Total/NA	Air	TO 15 LL	
140-5852-11 - DL	VP-112	Total/NA	Air	TO 15 LL	
140-5852-12 - DL	VP-110	Total/NA	Air	TO 15 LL	
MB 140-6632/17	Method Blank	Total/NA	Air	TO 15 LL	
LCS 140-6632/1002	Lab Control Sample	Total/NA	Air	TO 15 LL	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-BLIND DUP

Date Collected: 09/15/16 15:10

Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-1

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	6625	09/21/16 16:46	HMT	TAL KNX
Instrument ID: MG										

Client Sample ID: VP-127

Date Collected: 09/15/16 12:38

Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-2

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	6625	09/21/16 17:32	HMT	TAL KNX
Instrument ID: MG										

Client Sample ID: VP-128

Date Collected: 09/15/16 12:42

Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	10 mL	500 mL	6625	09/21/16 18:15	HMT	TAL KNX
Instrument ID: MG										
Total/NA	Analysis	TO 15 LL	DL	3.32	11 mL	500 mL	6632	09/23/16 03:32	HMT	TAL KNX
Instrument ID: MJ										

Client Sample ID: VP-129

Date Collected: 09/15/16 13:15

Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	6625	09/21/16 19:01	HMT	TAL KNX
Instrument ID: MG										

Client Sample ID: VP-130

Date Collected: 09/15/16 13:21

Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1.46	730 mL	500 mL	6625	09/21/16 19:50	HMT	TAL KNX
Instrument ID: MG										
Total/NA	Analysis	TO 15 LL	DL	1.46	80 mL	500 mL	6632	09/23/16 04:27	HMT	TAL KNX
Instrument ID: MJ										

Lab Chronicle

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-126

Date Collected: 09/15/16 12:58

Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-6

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	100 mL	500 mL	6625	09/21/16 20:35	HMT	TAL KNX
Instrument ID: MG										

Client Sample ID: VP-104

Date Collected: 09/15/16 15:10

Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	6625	09/21/16 21:24	HMT	TAL KNX
Instrument ID: MG										

Client Sample ID: VP-102

Date Collected: 09/15/16 16:20

Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-8

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	100 mL	500 mL	6625	09/21/16 16:01	HMT	TAL KNX
Instrument ID: MG										

Client Sample ID: VP-100

Date Collected: 09/15/16 17:01

Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-9

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	6625	09/21/16 22:16	HMT	TAL KNX
Instrument ID: MG										
Total/NA	Analysis	TO 15 LL	DL	1	100 mL	500 mL	6632	09/23/16 05:21	HMT	TAL KNX
Instrument ID: MJ										

Client Sample ID: VP-113

Date Collected: 09/15/16 15:42

Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		4.26	40 mL	500 mL	6632	09/23/16 02:39	HMT	TAL KNX
Instrument ID: MJ										

Lab Chronicle

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: VP-112
Date Collected: 09/15/16 15:53
Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-11
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	6625	09/21/16 23:52	HMT	TAL KNX
	Instrument ID: MG									
Total/NA	Analysis	TO 15 LL	DL	1	50 mL	500 mL	6632	09/23/16 06:15	HMT	TAL KNX
	Instrument ID: MJ									

Client Sample ID: VP-110
Date Collected: 09/15/16 15:57
Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-12
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	6625	09/22/16 00:42	HMT	TAL KNX
	Instrument ID: MG									
Total/NA	Analysis	TO 15 LL	DL	1	50 mL	500 mL	6632	09/23/16 07:10	HMT	TAL KNX
	Instrument ID: MJ									

Client Sample ID: VP-125
Date Collected: 09/15/16 13:05
Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-13
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	6625	09/22/16 01:31	HMT	TAL KNX
	Instrument ID: MG									

Client Sample ID: AMBIENT AIR
Date Collected: 09/15/16 13:42
Date Received: 09/17/16 11:10

Lab Sample ID: 140-5852-14
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	6625	09/22/16 03:11	HMT	TAL KNX
	Instrument ID: MG									

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 140-6625/4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	6625	09/21/16 15:19	HMT	TAL KNX
	Instrument ID: MG									

Lab Chronicle

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Client Sample ID: Method Blank

Lab Sample ID: MB 140-6632/17

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	6632	09/22/16 15:32	HMT	TAL KNX
Instrument ID: MJ										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-6625/1002

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	6625	09/21/16 13:15	HMT	TAL KNX
Instrument ID: MG										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-6632/1002

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	6632	09/22/16 11:33	HMT	TAL KNX
Instrument ID: MJ										

Laboratory References:

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

Certification Summary

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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	1,4-Dioxane
TO 15 LL		Air	Bromodichloromethane
TO 15 LL		Air	Cyclohexane
TO 15 LL		Air	Dibromochloromethane
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
TO 15 LL		Air	t-Butyl alcohol

Method Summary

Client: New York State D.E.C.
Project/Site: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

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: 1st Ave & E. 90th St./#231008

TestAmerica Job ID: 140-5852-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-5852-1	VP-BLIND DUP	Air	09/15/16 15:10	09/17/16 11:10
140-5852-2	VP-127	Air	09/15/16 12:38	09/17/16 11:10
140-5852-3	VP-128	Air	09/15/16 12:42	09/17/16 11:10
140-5852-4	VP-129	Air	09/15/16 13:15	09/17/16 11:10
140-5852-5	VP-130	Air	09/15/16 13:21	09/17/16 11:10
140-5852-6	VP-126	Air	09/15/16 12:58	09/17/16 11:10
140-5852-7	VP-104	Air	09/15/16 15:10	09/17/16 11:10
140-5852-8	VP-102	Air	09/15/16 16:20	09/17/16 11:10
140-5852-9	VP-100	Air	09/15/16 17:01	09/17/16 11:10
140-5852-10	VP-113	Air	09/15/16 15:42	09/17/16 11:10
140-5852-11	VP-112	Air	09/15/16 15:53	09/17/16 11:10
140-5852-12	VP-110	Air	09/15/16 15:57	09/17/16 11:10
140-5852-13	VP-125	Air	09/15/16 13:05	09/17/16 11:10
140-5852-14	AMBIENT AIR	Air	09/15/16 13:42	09/17/16 11:10

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.: 140-5852-1

SDG No.: _____

Matrix: Air

Level: Low

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

Client Sample ID	Lab Sample ID	BFB #
VP-BLIND DUP	140-5852-1	105
VP-127	140-5852-2	107
VP-128	140-5852-3	105
VP-128 DL	140-5852-3 DL	101
VP-129	140-5852-4	110
VP-130	140-5852-5	112
VP-130 DL	140-5852-5 DL	114
VP-126	140-5852-6	109
VP-104	140-5852-7	103
VP-102	140-5852-8	110
VP-100	140-5852-9	110
VP-100 DL	140-5852-9 DL	112
VP-113	140-5852-10	108
VP-112	140-5852-11	106
VP-112 DL	140-5852-11 DL	109
VP-110	140-5852-12	107
VP-110 DL	140-5852-12 DL	112
VP-125	140-5852-13	109
AMBIENT AIR	140-5852-14	101
	MB 140-6625/4	103
	MB 140-6632/17	107
	LCS 140-6625/1002	112
	LCS 140-6632/1002	115

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.: 140-5852-1

SDG No.: _____

Matrix: Air Level: Low

Lab File ID: GCCVI21-LCS.d

Lab ID: LCS 140-6625/1002

Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.37	119	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.02	101	70-130	
1,1,2-Trichloroethane	2.00	2.10	105	70-130	
1,1,2-Trichlorotrifluoroethane	2.00	2.42	121	70-130	
1,1-Dichloroethane	2.00	1.95	97	70-130	
1,1-Dichloroethene	2.00	2.07	103	70-130	
1,2,4-Trichlorobenzene	2.00	1.86	93	60-140	
1,2,4-Trimethylbenzene	2.00	1.85	92	70-130	
1,2-Dibromoethane	2.00	2.11	105	70-130	
1,2-Dichlorobenzene	2.00	1.83	92	70-130	
1,2-Dichloroethane	2.00	2.12	106	70-130	
1,2-Dichloropropane	2.00	1.75	87	70-130	
1,2-Dichlorotetrafluoroethane	2.00	2.20	110	60-140	
1,3,5-Trimethylbenzene	2.00	1.81	90	70-130	
1,3-Dichlorobenzene	2.00	1.89	95	70-130	
1,4-Dichlorobenzene	2.00	1.93	96	70-130	
1,4-Dioxane	2.00	1.57	78	60-140	
2,2,4-Trimethylpentane	2.00	1.66	83	70-130	
2-Butanone	2.00	1.71	86	60-140	
4-Methyl-2-pentanone (MIBK)	2.00	1.27	63	60-140	
Benzene	2.00	1.92	96	70-130	
Benzyl chloride	2.00	1.97	98	70-130	
Bromodichloromethane	2.00	2.24	112	70-130	
Bromoform	2.00	1.82	91	60-140	
Bromomethane	2.00	2.05	103	70-130	
Carbon tetrachloride	2.00	2.42	121	70-130	
Chlorobenzene	2.00	1.97	98	70-130	
Chloroethane	2.00	1.75	87	70-130	
Chloroform	2.00	2.28	114	70-130	
Chloromethane	2.00	1.52	76	60-140	
cis-1,2-Dichloroethene	2.00	1.93	97	70-130	
cis-1,3-Dichloropropene	2.00	2.12	106	70-130	
Cyclohexane	2.00	2.13	107	70-130	
Dibromochloromethane	2.00	2.24	112	70-130	
Dichlorodifluoromethane	2.00	2.62	131	60-140	
Ethanol	10.0	5.65	57	60-140	*
Ethylbenzene	2.00	2.01	101	70-130	
Hexachlorobutadiene	2.00	1.84	92	60-140	
Hexane	2.00	1.72	86	70-130	
Methyl tert-butyl ether	2.00	2.08	104	60-140	
Methylene Chloride	2.00	1.73	87	70-130	
m-Xylene & p-Xylene	4.00	4.07	102	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.: 140-5852-1

SDG No.: _____

Matrix: Air Level: Low Lab File ID: GCCVI21-LCS.d

Lab ID: LCS 140-6625/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
o-Xylene	2.00	1.97	99	70-130	
Styrene	2.00	2.00	100	70-130	
t-Butyl alcohol	2.00	1.63	81	60-140	
Tetrachloroethene	2.00	2.02	101	70-130	
Toluene	2.00	1.95	97	70-130	
trans-1,2-Dichloroethene	2.00	2.06	103	70-130	
trans-1,3-Dichloropropene	2.00	2.31	115	70-130	
Trichloroethene	2.00	1.81	91	70-130	
Trichlorofluoromethane	2.00	2.62	131	60-140	
Vinyl chloride	2.00	1.76	88	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.: 140-5852-1

SDG No.: _____

Matrix: Air Level: Low

Lab File ID: JCCVI22-LCS.d

Lab ID: LCS 140-6632/1002

Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.23	112	70-130	
1,1,2,2-Tetrachloroethane	2.00	1.55	77	70-130	
1,1,2-Trichloroethane	2.00	1.55	77	70-130	
1,1,2-Trichlorotrifluoroethane	2.00	2.06	103	70-130	
1,1-Dichloroethane	2.00	2.22	111	70-130	
1,1-Dichloroethene	2.00	1.96	98	70-130	
1,2,4-Trichlorobenzene	2.00	1.54	77	60-140	
1,2,4-Trimethylbenzene	2.00	1.64	82	70-130	
1,2-Dibromoethane	2.00	1.57	78	70-130	
1,2-Dichlorobenzene	2.00	1.50	75	70-130	
1,2-Dichloroethane	2.00	2.16	108	70-130	
1,2-Dichloropropane	2.00	1.75	87	70-130	
1,2-Dichlorotetrafluoroethane	2.00	2.31	115	60-140	
1,3,5-Trimethylbenzene	2.00	1.51	76	70-130	
1,3-Dichlorobenzene	2.00	1.50	75	70-130	
1,4-Dichlorobenzene	2.00	1.50	75	70-130	
1,4-Dioxane	2.00	1.57	78	60-140	
2,2,4-Trimethylpentane	2.00	2.00	100	70-130	
2-Butanone	2.00	1.52	76	60-140	
4-Methyl-2-pentanone (MIBK)	2.00	1.70	85	60-140	
Benzene	2.00	1.83	91	70-130	
Benzyl chloride	2.00	1.65	82	70-130	
Bromodichloromethane	2.00	1.88	94	70-130	
Bromoform	2.00	1.61	80	60-140	
Bromomethane	2.00	2.24	112	70-130	
Carbon tetrachloride	2.00	2.23	111	70-130	
Chlorobenzene	2.00	1.56	78	70-130	
Chloroethane	2.00	2.52	126	70-130	
Chloroform	2.00	2.07	103	70-130	
Chloromethane	2.00	2.78	139	60-140	
cis-1,2-Dichloroethene	2.00	2.03	101	70-130	
cis-1,3-Dichloropropene	2.00	1.81	90	70-130	
Cyclohexane	2.00	2.08	104	70-130	
Dibromochloromethane	2.00	1.65	83	70-130	
Dichlorodifluoromethane	2.00	2.42	121	60-140	
Ethanol	10.0	13.6	136	60-140	
Ethylbenzene	2.00	1.57	78	70-130	
Hexachlorobutadiene	2.00	1.33	66	60-140	
Hexane	2.00	2.30	115	70-130	
Methyl tert-butyl ether	2.00	1.84	92	60-140	
Methylene Chloride	2.00	1.98	99	70-130	
m-Xylene & p-Xylene	4.00	3.18	80	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.: 140-5852-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: JCCVI22-LCS.d
 Lab ID: LCS 140-6632/1002 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
o-Xylene	2.00	1.55	77	70-130	
Styrene	2.00	1.64	82	70-130	
t-Butyl alcohol	2.00	1.92	96	60-140	
Tetrachloroethene	2.00	1.55	78	70-130	
Toluene	2.00	1.53	76	70-130	
trans-1,2-Dichloroethene	2.00	1.97	98	70-130	
trans-1,3-Dichloropropene	2.00	1.79	90	70-130	
Trichloroethene	2.00	1.76	88	70-130	
Trichlorofluoromethane	2.00	2.23	111	60-140	
Vinyl chloride	2.00	2.54	127	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.: 140-5852-1
 SDG No.: _____
 Lab File ID: GMB500I21.D Lab Sample ID: MB 140-6625/4
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: MG Date Analyzed: 09/21/2016 15:19
 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 140-6625/1002	GCCVI21-LCS .d	09/21/2016 13:15
VP-102	140-5852-8	GI21P101.D	09/21/2016 16:01
VP-BLIND DUP	140-5852-1	GI21P102.D	09/21/2016 16:46
VP-127	140-5852-2	GI21P103.D	09/21/2016 17:32
VP-128	140-5852-3	GI21P104.D	09/21/2016 18:15
VP-129	140-5852-4	GI21P105.D	09/21/2016 19:01
VP-130	140-5852-5	GI21P106.D	09/21/2016 19:50
VP-126	140-5852-6	GI21P107.D	09/21/2016 20:35
VP-104	140-5852-7	GI21P108.D	09/21/2016 21:24
VP-100	140-5852-9	GI21P109.D	09/21/2016 22:16
VP-112	140-5852-11	GI21P111.D	09/21/2016 23:52
VP-110	140-5852-12	GI21P112.D	09/22/2016 00:42
VP-125	140-5852-13	GI21P113.D	09/22/2016 01:31
AMBIENT AIR	140-5852-14	GI21P114.D	09/22/2016 03:11

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab File ID: LOT5871MB.D Lab Sample ID: MB 140-6632/17
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: MJ Date Analyzed: 09/22/2016 15:32
 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 140-6632/1002	JCCVI22-LCS .d	09/22/2016 11:33
VP-113	140-5852-10	JI22P112.D	09/23/2016 02:39
VP-128 DL	140-5852-3 DL	JI22P113.D	09/23/2016 03:32
VP-130 DL	140-5852-5 DL	JI22P114.D	09/23/2016 04:27
VP-100 DL	140-5852-9 DL	JI22P115.D	09/23/2016 05:21
VP-112 DL	140-5852-11 DL	JI22P201.D	09/23/2016 06:15
VP-110 DL	140-5852-12 DL	JI22P202.D	09/23/2016 07:10

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab File ID: GBFBG20.D BFB Injection Date: 07/20/2016
 Instrument ID: MG BFB Injection Time: 14:02
 Analysis Batch No.: 5925

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.8	
75	30.0 - 60.0 % of mass 95	53.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.5	(0.5) 1
174	50.0 - 120.00 % of mass 95	92.0	
175	5.0 - 9.0 % of mass 174	6.3	(6.9) 1
176	95.0 - 101.0 % of mass 174	89.0	(96.7) 1
177	5.0 - 9.0 % of mass 176	5.7	(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
	IC 140-5925/2	GG20ICL1.D	07/20/2016	14:35
	IC 140-5925/3	GG20ICL2.D	07/20/2016	15:19
	IC 140-5925/4	GG20ICL3.D	07/20/2016	16:03
	IC 140-5925/5	GG20ICL4.D	07/20/2016	16:46
	IC 140-5925/6	GG20ICL5.D	07/20/2016	17:27
	ICIS 140-5925/7	GG20ICL6.D	07/20/2016	18:08
	IC 140-5925/8	GG20ICL7.D	07/20/2016	18:53
	IC 140-5925/9	GG20ICL8.D	07/20/2016	19:37
	IC 140-5925/10	GG20ICL9.D	07/20/2016	20:22
	ICV 140-5925/12	GG20ICV.D	07/20/2016	21:45

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab File ID: GBFBI21.D BFB Injection Date: 09/21/2016
 Instrument ID: MG BFB Injection Time: 12:42
 Analysis Batch No.: 6625

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.4
75	30.0 - 60.0 % of mass 95	58.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.4
173	Less than 2.0 % of mass 174	0.4 (0.5) 1
174	50.0 - 120.00 % of mass 95	89.0
175	5.0 - 9.0 % of mass 174	6.4 (7.1) 1
176	95.0 - 101.0 % of mass 174	88.8 (99.8) 1
177	5.0 - 9.0 % of mass 176	5.9 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-6625/2	GCCVI21.D	09/21/2016	13:15
	LCS 140-6625/1002	GCCVI21-LCS.d	09/21/2016	13:15
	MB 140-6625/4	GMB500I21.D	09/21/2016	15:19
VP-102	140-5852-8	GI21P101.D	09/21/2016	16:01
VP-BLIND DUP	140-5852-1	GI21P102.D	09/21/2016	16:46
VP-127	140-5852-2	GI21P103.D	09/21/2016	17:32
VP-128	140-5852-3	GI21P104.D	09/21/2016	18:15
VP-129	140-5852-4	GI21P105.D	09/21/2016	19:01
VP-130	140-5852-5	GI21P106.D	09/21/2016	19:50
VP-126	140-5852-6	GI21P107.D	09/21/2016	20:35
VP-104	140-5852-7	GI21P108.D	09/21/2016	21:24
VP-100	140-5852-9	GI21P109.D	09/21/2016	22:16
VP-112	140-5852-11	GI21P111.D	09/21/2016	23:52
VP-110	140-5852-12	GI21P112.D	09/22/2016	00:42
VP-125	140-5852-13	GI21P113.D	09/22/2016	01:31
AMBIENT AIR	140-5852-14	GI21P114.D	09/22/2016	03:11

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab File ID: JBFBF22Z.D BFB Injection Date: 06/22/2016
 Instrument ID: MJ BFB Injection Time: 15:21
 Analysis Batch No.: 5523

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.9	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	114.8	
175	5.0 - 9.0 % of mass 174	9.0	(7.9) 1
176	95.0 - 101.0 % of mass 174	111.0	(96.7) 1
177	5.0 - 9.0 % of mass 176	7.4	(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 140-5523/2	JF22IC01.D	06/22/2016	15:49
	IC 140-5523/3	JF22IC02.D	06/22/2016	16:44
	IC 140-5523/4	JF22IC03.D	06/22/2016	17:38
	IC 140-5523/5	JF22IC04.D	06/22/2016	18:32
	IC 140-5523/6	JF22IC05.D	06/22/2016	19:26
	ICIS 140-5523/7	JF22IC06.D	06/22/2016	20:20
	IC 140-5523/8	JF22IC07.D	06/22/2016	21:14
	IC 140-5523/9	JF22IC08.D	06/22/2016	22:07
	IC 140-5523/10	JF22IC09.D	06/22/2016	23:00
	ICV 140-5523/17	JF22ICVR.D	06/23/2016	09:52

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab File ID: JBFBI22.D BFB Injection Date: 09/22/2016
 Instrument ID: MJ BFB Injection Time: 11:06
 Analysis Batch No.: 6632

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	54.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	117.0	
175	5.0 - 9.0 % of mass 174	9.4	(8.1) 1
176	95.0 - 101.0 % of mass 174	115.3	(98.6) 1
177	5.0 - 9.0 % of mass 176	7.6	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 140-6632/2	JCCVI22.D	09/22/2016	11:33
	LCS 140-6632/1002	JCCVI22-LCS.d	09/22/2016	11:33
	MB 140-6632/17	LOT5871MB.D	09/22/2016	15:32
VP-113	140-5852-10	JI22P112.D	09/23/2016	02:39
VP-128 DL	140-5852-3 DL	JI22P113.D	09/23/2016	03:32
VP-130 DL	140-5852-5 DL	JI22P114.D	09/23/2016	04:27
VP-100 DL	140-5852-9 DL	JI22P115.D	09/23/2016	05:21
VP-112 DL	140-5852-11 DL	JI22P201.D	09/23/2016	06:15
VP-110 DL	140-5852-12 DL	JI22P202.D	09/23/2016	07:10

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Sample No.: ICIS 140-5925/7 Date Analyzed: 07/20/2016 18:08
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): GG20ICL6.D Heated Purge: (Y/N) N
 Calibration ID: 721

	CBM		DFBZ		CBzd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	408268	8.50	1852333	10.67	1847073	15.44
UPPER LIMIT	571575	8.83	2593266	11.00	2585902	15.77
LOWER LIMIT	244961	8.17	1111400	10.34	1108244	15.11
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 140-5925/12	450842	8.49	2234236	10.67	2094327	15.44

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.: 140-5852-1
 SDG No.: _____
 Sample No.: CCVIS 140-6625/2 Date Analyzed: 09/21/2016 13:15
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): GCCVI21.D Heated Purge: (Y/N) N
 Calibration ID: 721

	CBM		DFBZ		CBZd5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	240717	8.45	1209351	10.62	1100545	15.39	
UPPER LIMIT	337004	8.78	1693091	10.95	1540763	15.72	
LOWER LIMIT	144430	8.12	725611	10.29	660327	15.06	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-6625/1002		240717	8.45	1209351	10.62	1100545	15.39
MB 140-6625/4		229447	8.44	1113400	10.61	993343	15.39
140-5852-8	VP-102	229746	8.46	1156125	10.62	1062088	15.39
140-5852-1	VP-BLIND DUP	254364	8.45	1246227	10.61	1094872	15.39
140-5852-2	VP-127	253525	8.47	1201094	10.62	1101370	15.40
140-5852-3	VP-128	232012	8.45	1056977	10.61	946844	15.39
140-5852-4	VP-129	240868	8.45	1165746	10.61	1105713	15.39
140-5852-5	VP-130	243826	8.45	1147420	10.61	1051677	15.39
140-5852-6	VP-126	246905	8.45	1212940	10.61	1090875	15.39
140-5852-7	VP-104	244217	8.44	1186152	10.61	1058438	15.39
140-5852-9	VP-100	231495	8.45	1117005	10.61	1006750	15.39
140-5852-11	VP-112	223427	8.45	1028001	10.62	923166	15.39
140-5852-12	VP-110	186547	8.45	844536	10.61	736097	15.39
140-5852-13	VP-125	249256	8.45	1234212	10.61	1155780	15.39
140-5852-14	AMBIENT AIR	237986	8.46	1202770	10.61	1026901	15.40

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.: 140-5852-1
 SDG No.: _____
 Sample No.: ICIS 140-5523/7 Date Analyzed: 06/22/2016 20:20
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JF22IC06.D Heated Purge: (Y/N) N
 Calibration ID: 642

	CBM		DFBZ		CBzd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	295193	9.39	1295936	11.55	1130543	16.23
UPPER LIMIT	413270	9.72	1814310	11.88	1582760	16.56
LOWER LIMIT	177116	9.06	777562	11.22	678326	15.90
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 140-5523/17	332894	9.39	1464991	11.55	1301938	16.23

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.: 140-5852-1
 SDG No.: _____
 Sample No.: CCVIS 140-6632/2 Date Analyzed: 09/22/2016 11:33
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm)
 Lab File ID (Standard): JCCVI22.D Heated Purge: (Y/N) N
 Calibration ID: 642

	CBM		DFBZ		CBZd5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	262871	9.34	1201816	11.50	1109539	16.18	
UPPER LIMIT	368019	9.67	1682542	11.83	1553355	16.51	
LOWER LIMIT	157723	9.01	721090	11.17	665723	15.85	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 140-6632/1002	262871	9.34	1201816	11.50	1109539	16.18	
MB 140-6632/17	275210	9.33	1256746	11.49	1112230	16.18	
140-5852-10	VP-113	204374	9.33	881529	11.49	793311	16.17
140-5852-3 DL	VP-128 DL	206954	9.33	944190	11.49	813859	16.18
140-5852-5 DL	VP-130 DL	198054	9.33	902129	11.50	812629	16.18
140-5852-9 DL	VP-100 DL	196177	9.33	905347	11.49	806683	16.18
140-5852-11 DL	VP-112 DL	233859	9.32	1082474	11.49	980178	16.18
140-5852-12 DL	VP-110 DL	218143	9.33	906557	11.49	827422	16.17

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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-BLIND DUP Lab Sample ID: 140-5852-1
 Matrix: Air Lab File ID: GI21P102.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 16:46
 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.: 6625 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	0.12		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	1.3		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	0.50		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.80		0.20	
71-43-2	Benzene	78.11	0.095		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	0.085		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	0.59		0.080	
74-87-3	Chloromethane	50.49	0.31		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-BLIND DUP Lab Sample ID: 140-5852-1
 Matrix: Air Lab File ID: GI21P102.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 16:46
 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.: 6625 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	0.54		0.080
64-17-5	Ethanol	46.07	3.6	*	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	0.29		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	0.24		0.080
95-47-6	o-Xylene	106.17	0.092		0.080
100-42-5	Styrene	104.15	ND		0.080
75-65-0	t-Butyl alcohol	74.12	0.32		0.32
127-18-4	Tetrachloroethene	165.83	1.5		0.080
108-88-3	Toluene	92.14	0.36		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	0.29		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-BLIND DUP Lab Sample ID: 140-5852-1
 Matrix: Air Lab File ID: GI21P102.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 16:46
 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.: 6625 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	0.57		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	7.6		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	1.5		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	3.3		0.82
71-43-2	Benzene	78.11	0.30		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	0.53		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	2.9		0.39
74-87-3	Chloromethane	50.49	0.65		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-BLIND DUP Lab Sample ID: 140-5852-1
 Matrix: Air Lab File ID: GI21P102.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 16:46
 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.: 6625 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	6.8	*	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	1.0		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	1.0		0.35
95-47-6	o-Xylene	106.17	0.40		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	0.97		0.97
127-18-4	Tetrachloroethene	165.83	10		0.54
108-88-3	Toluene	92.14	1.3		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	1.6		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D
 Lims ID: 140-5852-A-1
 Client ID: VP-BLIND DUP
 Sample Type: Client
 Inject. Date: 21-Sep-2016 16:46:30 ALS Bottle#: 2 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-006
 Misc. Info.: 140-5852-a-1
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 13:51:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.449	8.454	-0.005	89	254364	4.00	
* 2 1,4-Difluorobenzene	114	10.611	10.617	-0.006	96	1246227	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.394	15.394	0.000	91	1094872	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	92	798894	4.18	
8 Dichlorodifluoromethane	85	3.758	3.758	0.000	100	117154	0.5356	
9 Chloromethane	52	3.914	3.919	-0.005	100	7762	0.3134	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.930	0.000	39	1989	0.0145	
17 Ethanol	31	4.658	4.663	-0.005	97	131191	3.60	
20 Trichlorofluoromethane	101	5.095	5.095	0.000	99	59696	0.2905	
29 2-Methyl-2-propanol	59	5.828	5.834	-0.006	95	35583	0.3202	
30 1,1,2-Trichloro-1,2,2-trif	101	5.909	5.909	0.000	92	8743	0.0696	
31 Methylene Chloride	84	6.055	6.055	0.000	91	18257	0.2949	
39 2-Butanone (MEK)	72	7.721	7.721	0.000	100	20663	0.4957	
40 Hexane	56	7.769	7.775	-0.006	75	9111	0.1355	
44 Chloroform	83	8.470	8.476	-0.006	95	99816	0.5875	
49 Benzene	78	10.056	10.056	0.000	97	21809	0.0953	
50 Cyclohexane	69	10.067	10.067	0.000	63	1152	0.0294	
52 Carbon tetrachloride	117	10.083	10.088	-0.005	97	15239	0.0845	
56 Isooctane	57	10.849	10.854	-0.006	85	26980	0.0626	
65 4-Methyl-2-pentanone (MIBK	43	12.515	12.520	-0.005	98	165090	0.7960	
68 Toluene	91	13.404	13.405	0.000	93	85555	0.3575	
76 Tetrachloroethene	129	14.558	14.564	-0.006	92	146504	1.53	
79 Ethylbenzene	91	15.739	15.739	0.000	99	22206	0.0700	
81 m-Xylene & p-Xylene	91	15.901	15.907	-0.006	97	58269	0.2375	
84 Styrene	104	16.370	16.370	0.000	96	7108	0.0438	
85 o-Xylene	91	16.435	16.435	0.000	97	24203	0.0919	
92 1,3,5-Trimethylbenzene	120	17.815	17.821	-0.006	73	4332	0.0259	7M
96 1,2,4-Trimethylbenzene	105	18.263	18.268	-0.005	98	35412	0.1150	
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	92	241909	1.27	

[QC Flag Legend](#)

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

[Reagents:](#)

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Worklist Smp#: 6

Client ID: VP-BLIND DUP

Purge Vol: 500.000 mL

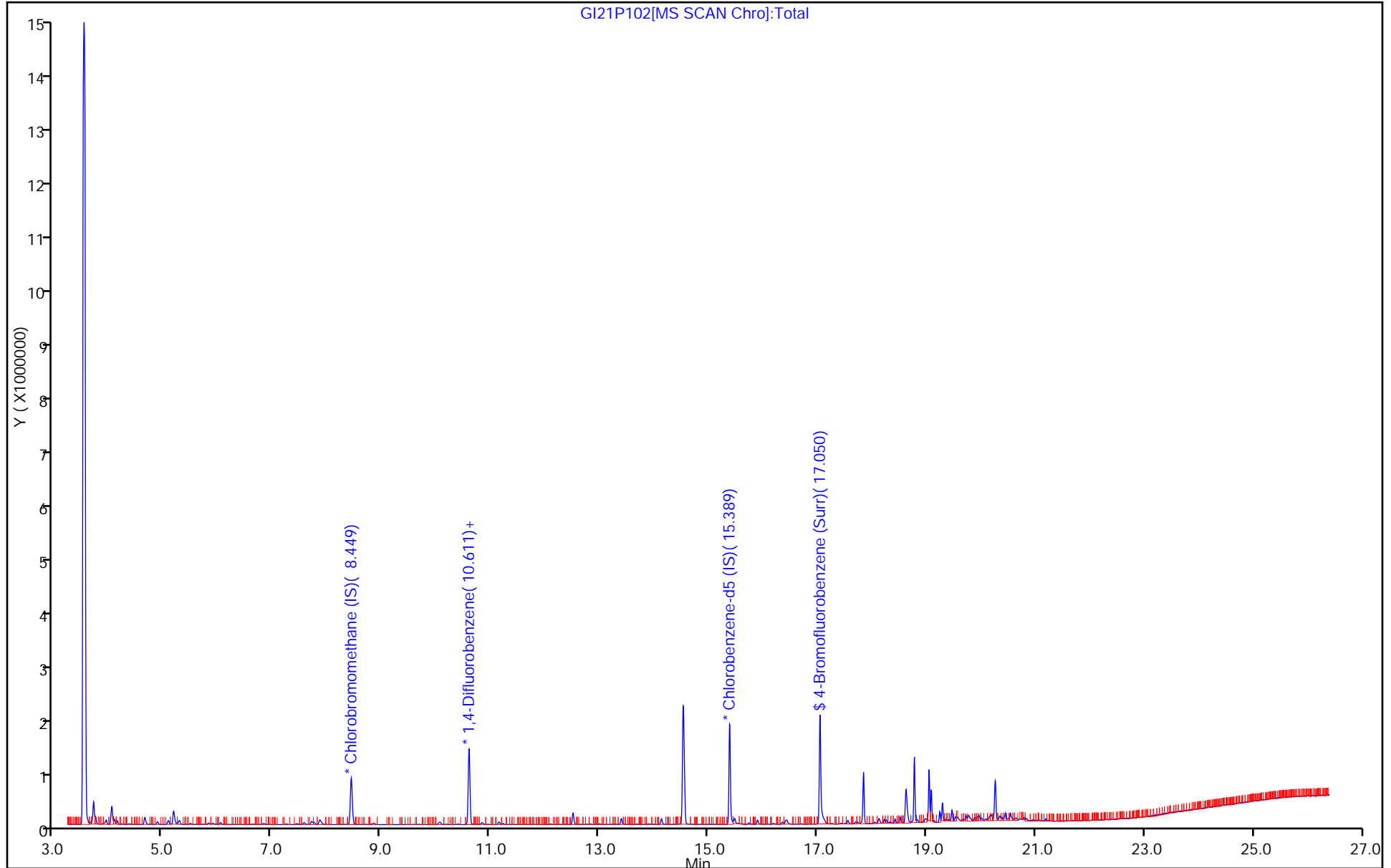
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D
 Lims ID: 140-5852-A-1
 Client ID: VP-BLIND DUP
 Sample Type: Client
 Inject. Date: 21-Sep-2016 16:46:30 ALS Bottle#: 2 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-006
 Misc. Info.: 140-5852-a-1
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 13:51:50

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.18	104.50

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

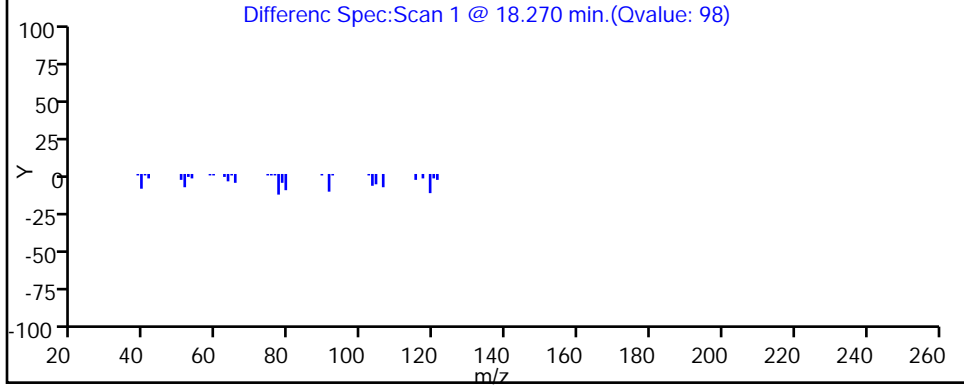
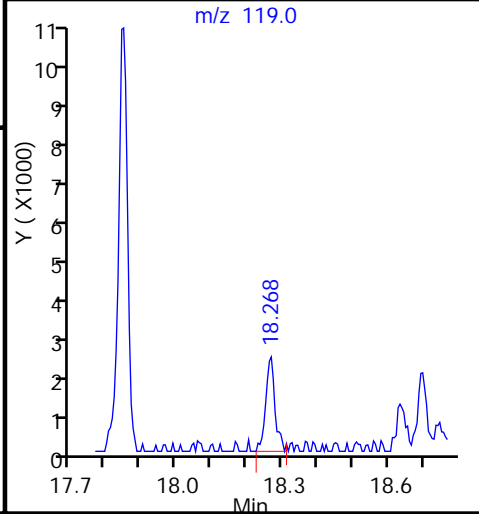
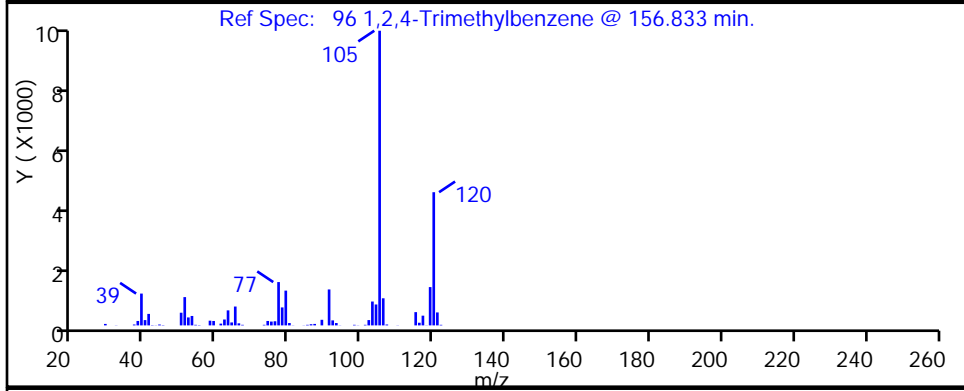
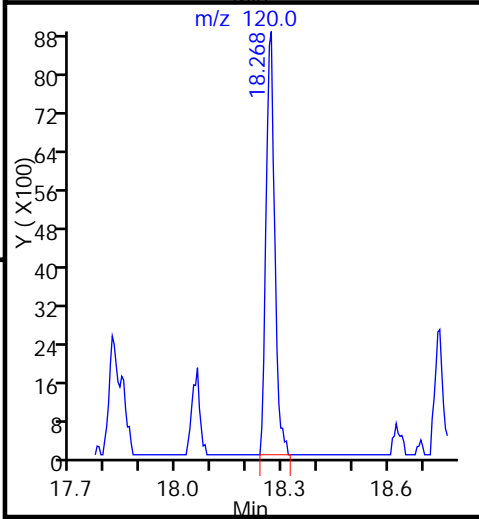
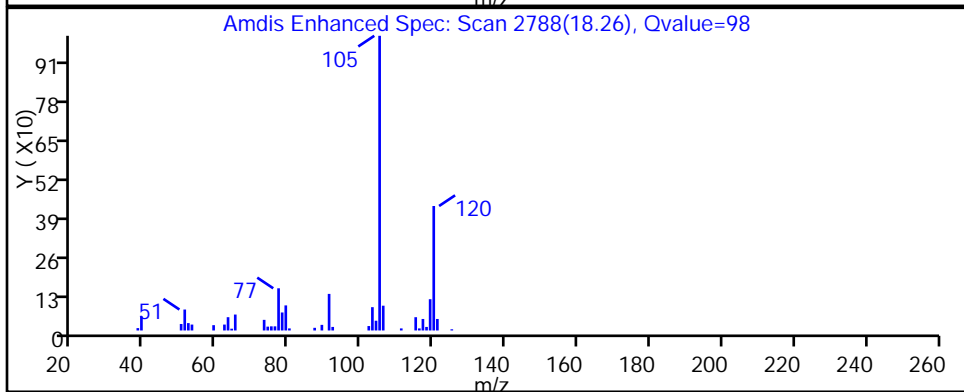
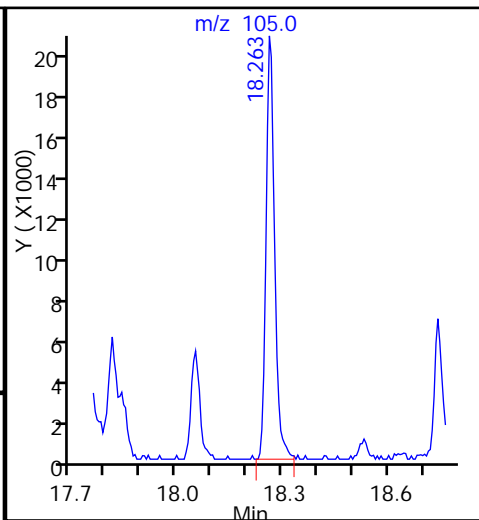
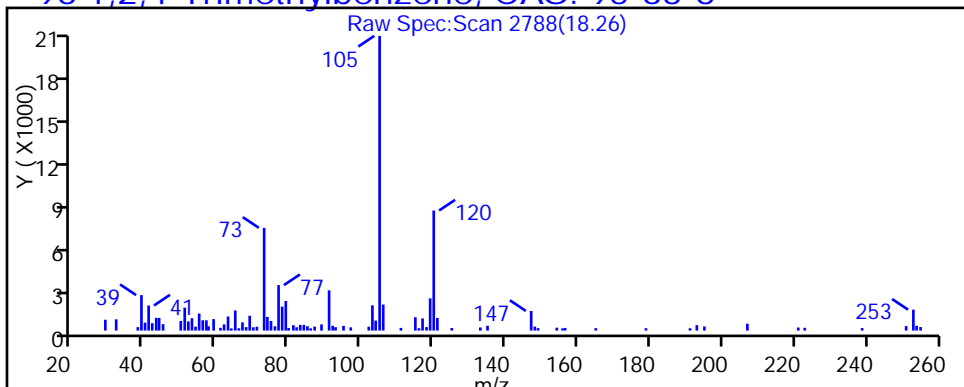
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

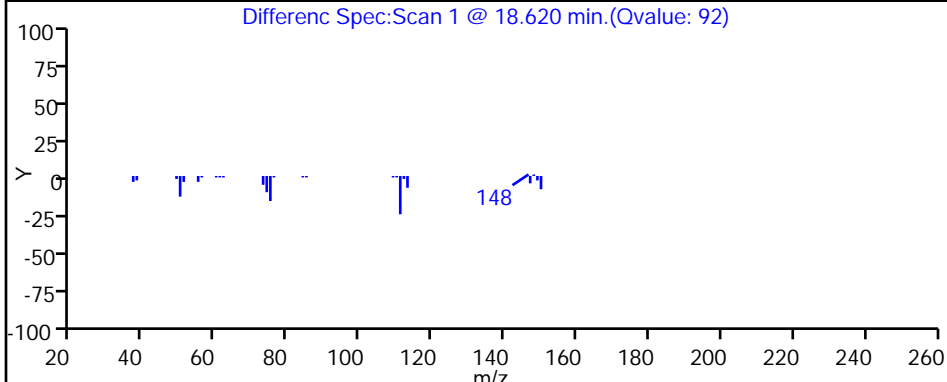
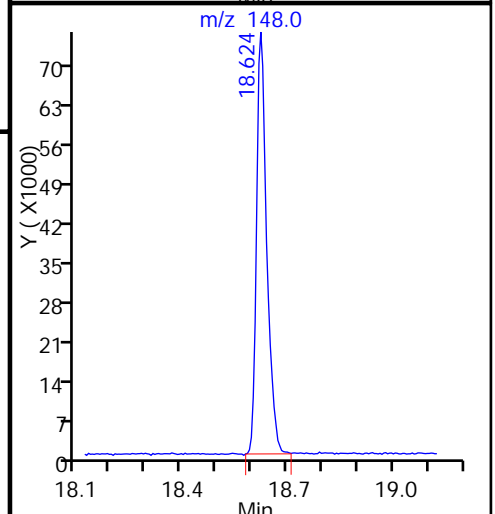
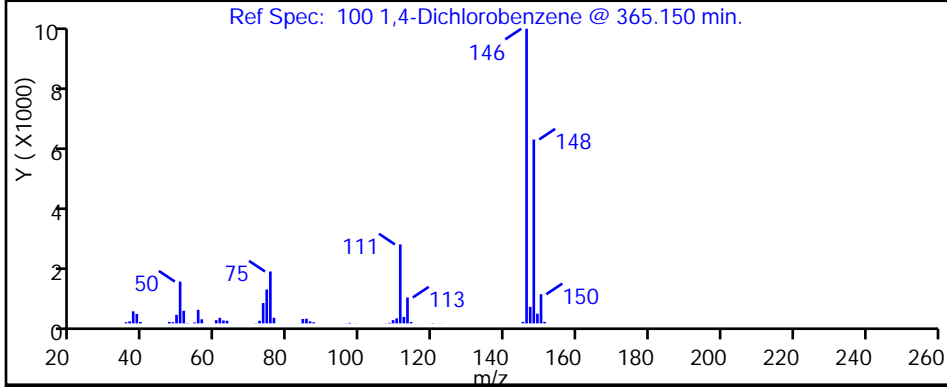
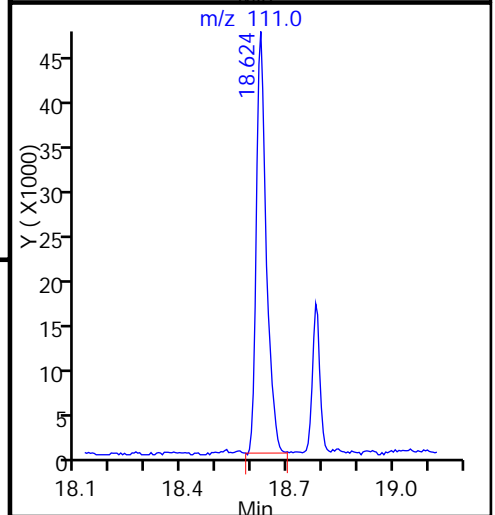
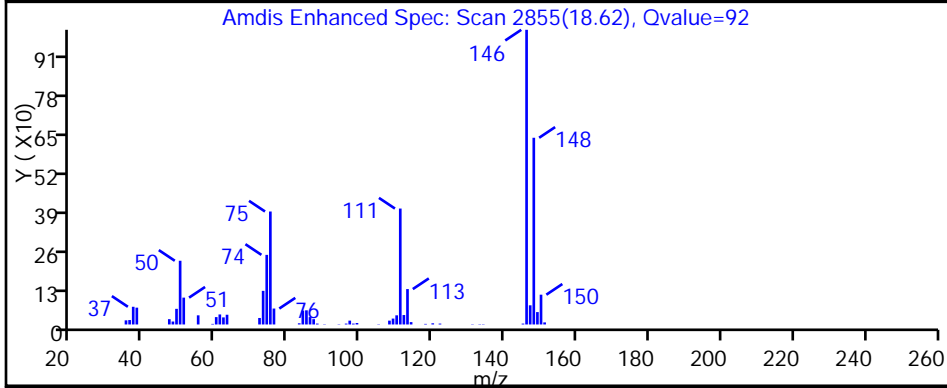
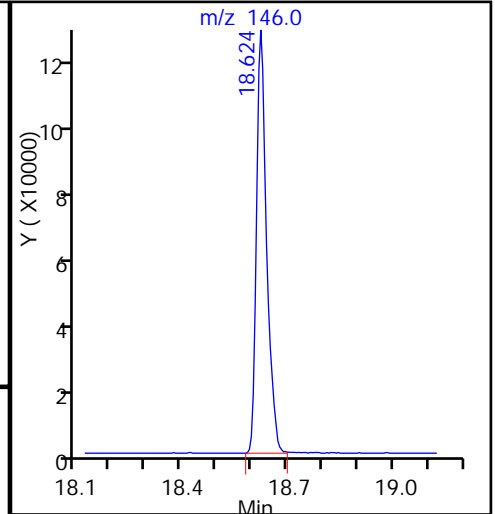
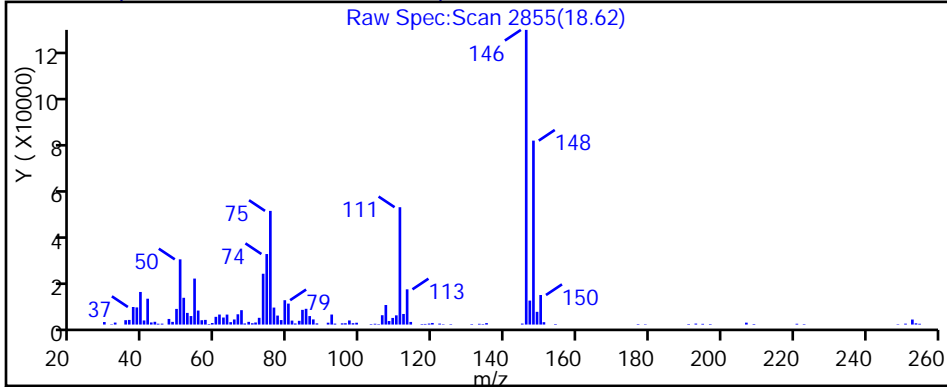
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

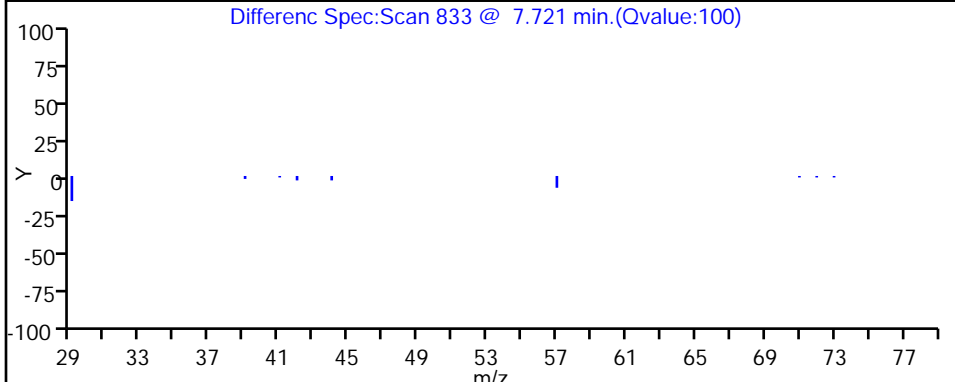
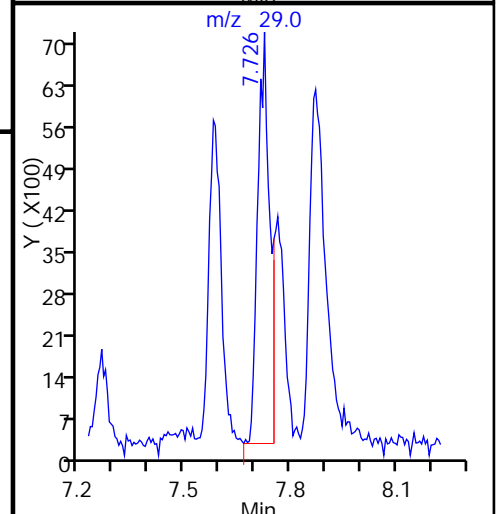
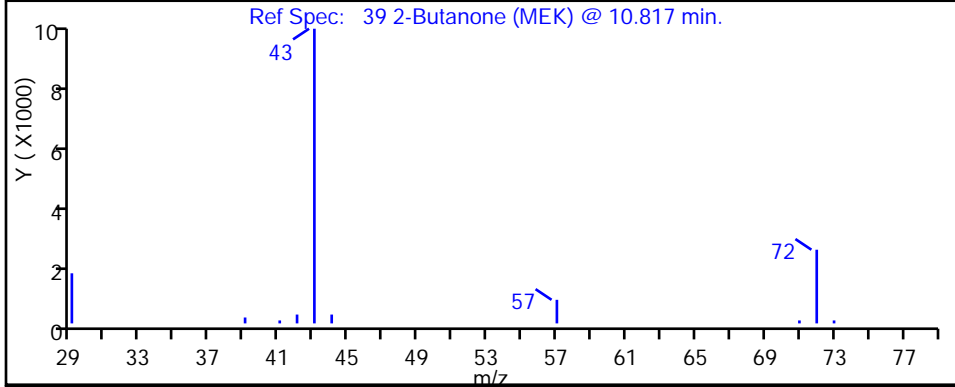
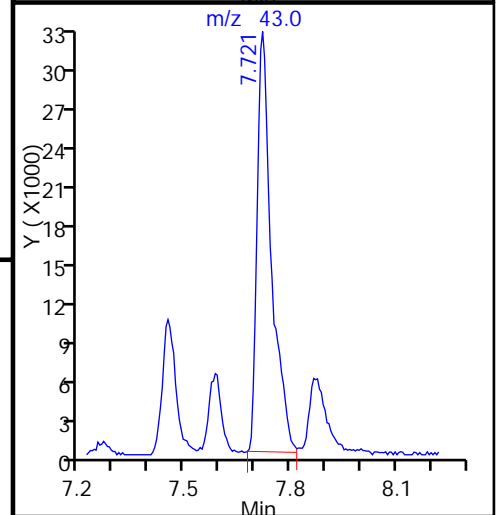
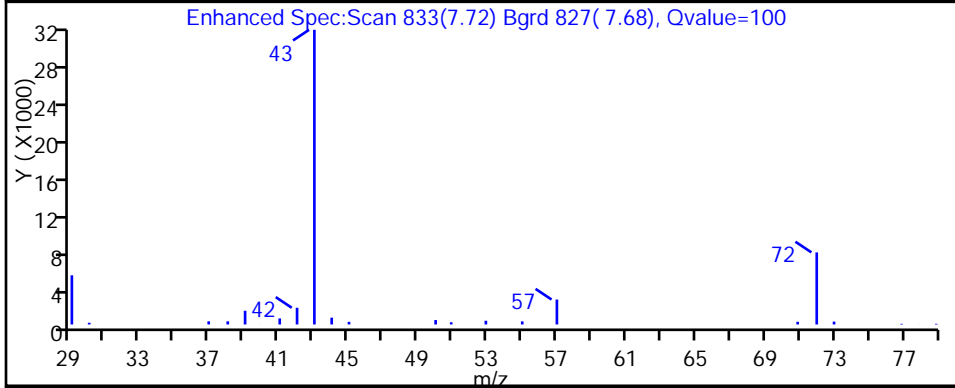
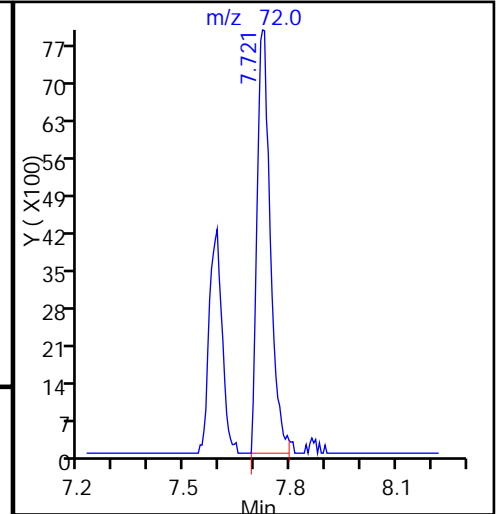
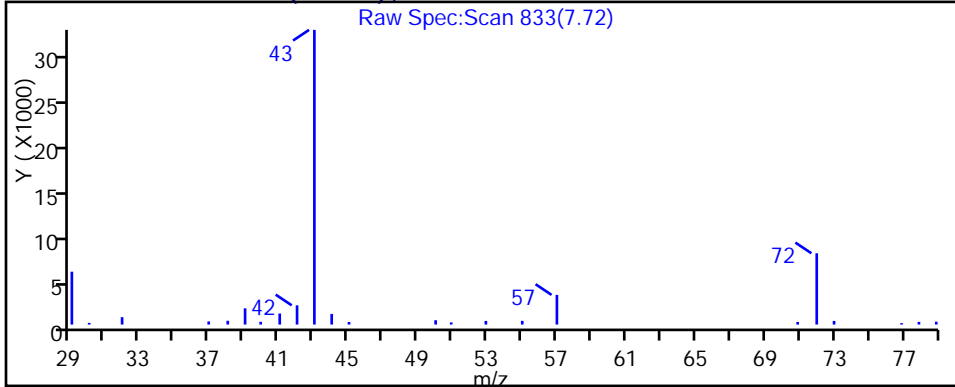
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

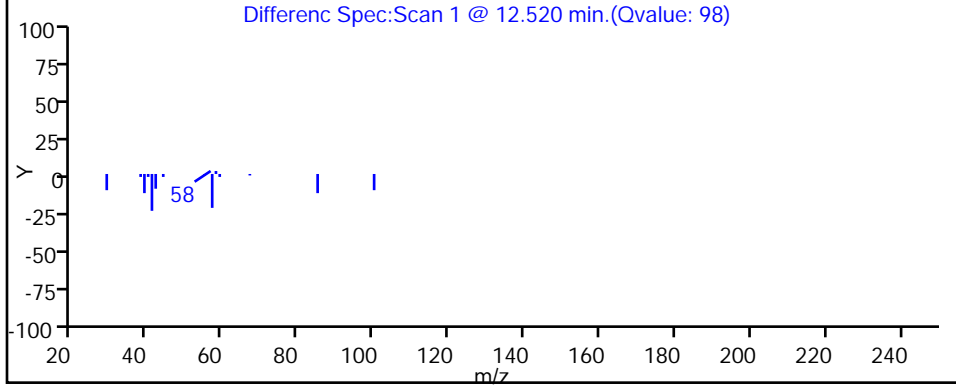
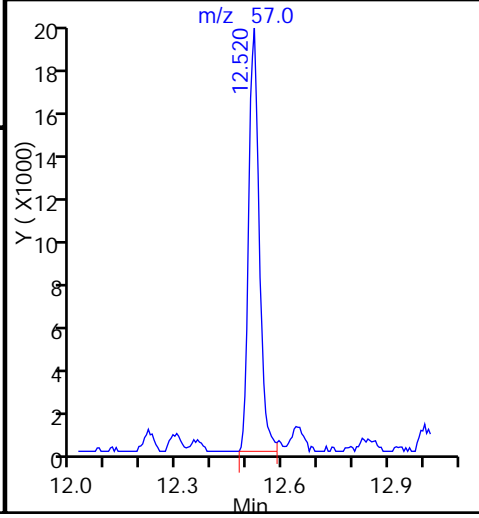
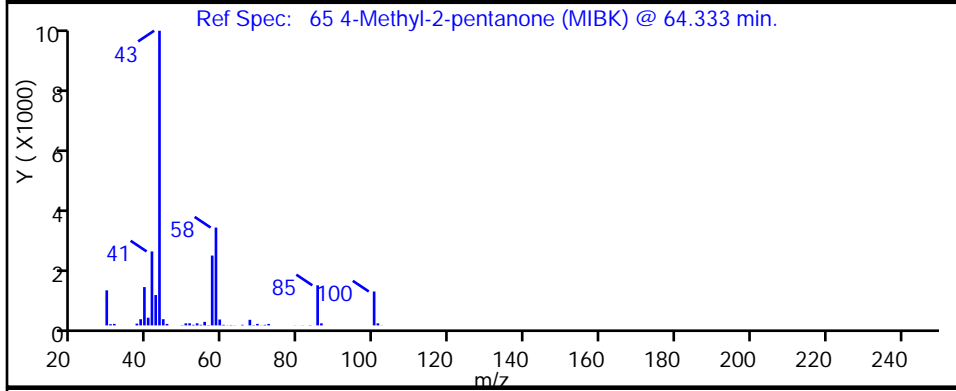
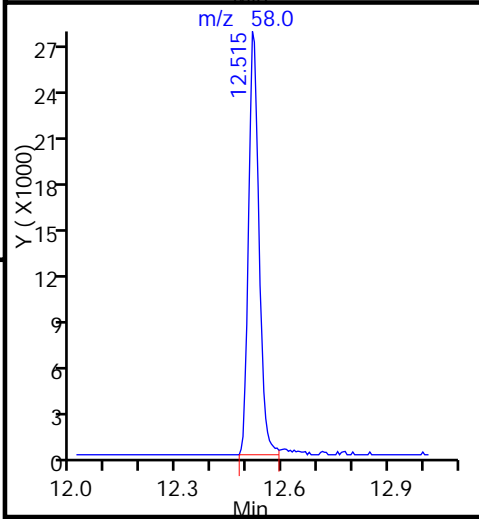
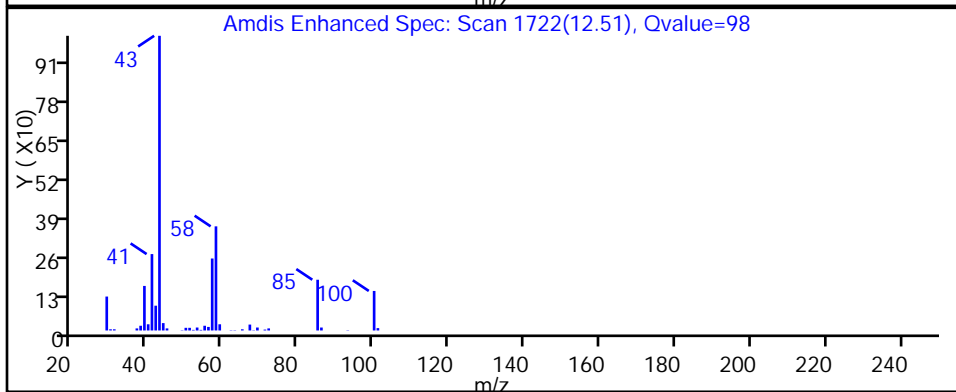
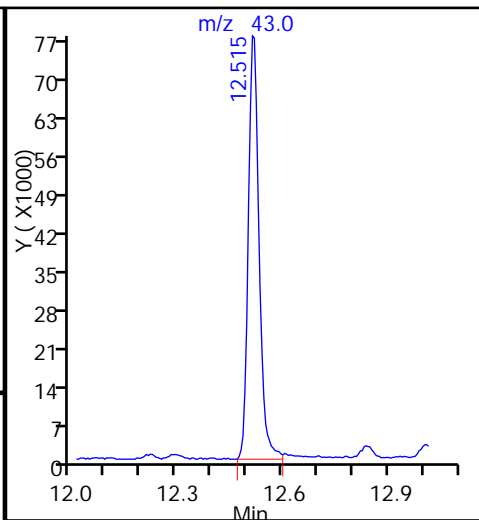
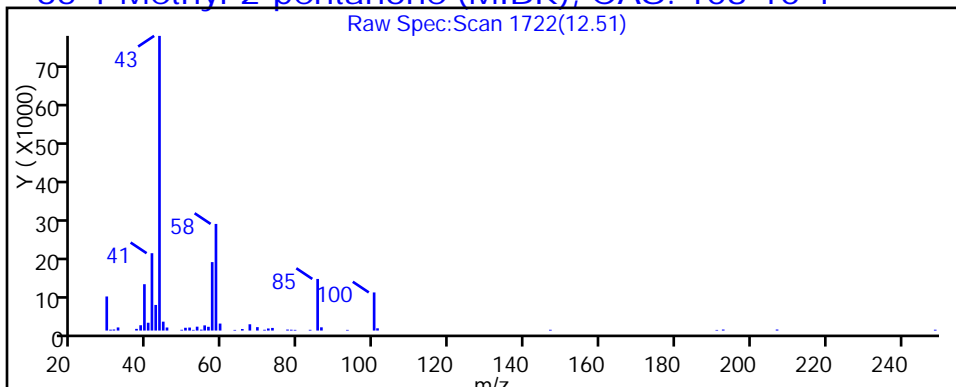
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

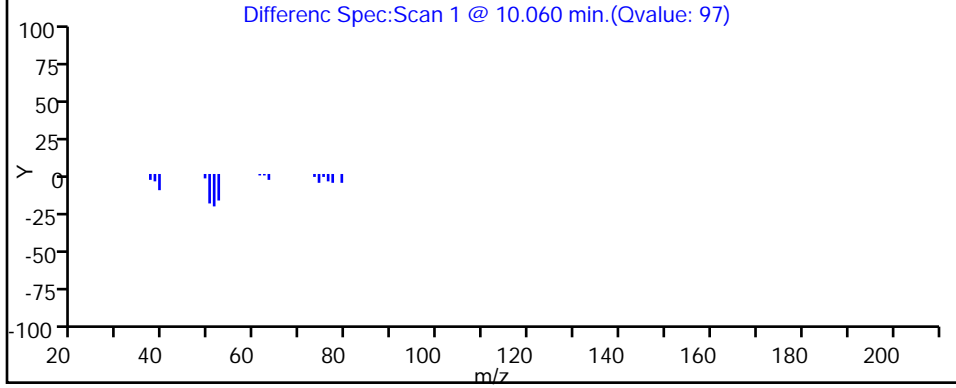
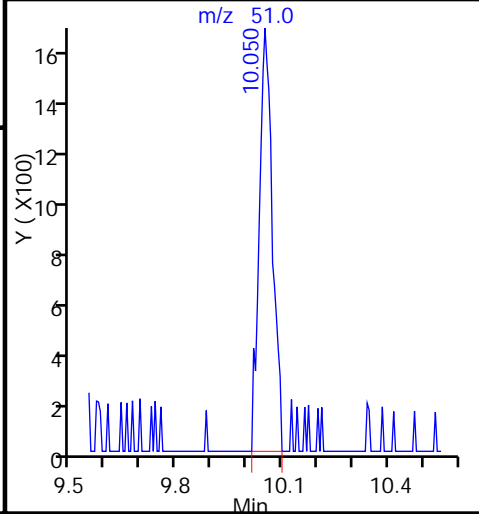
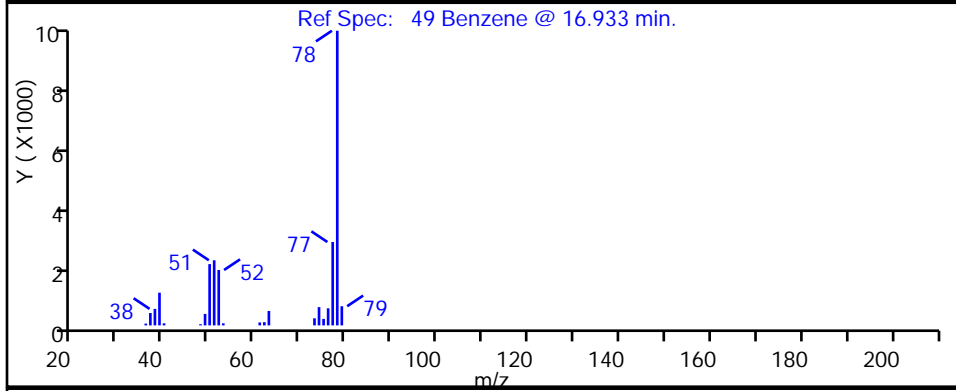
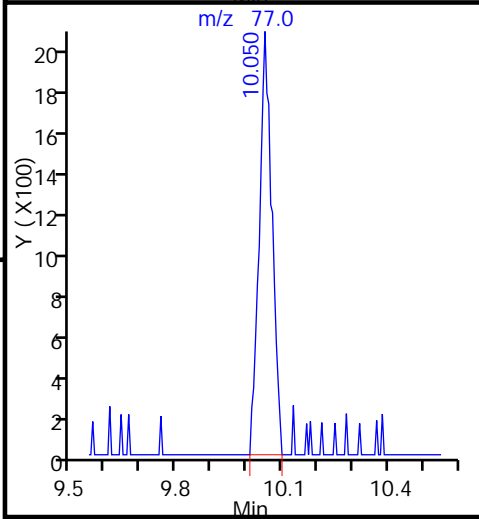
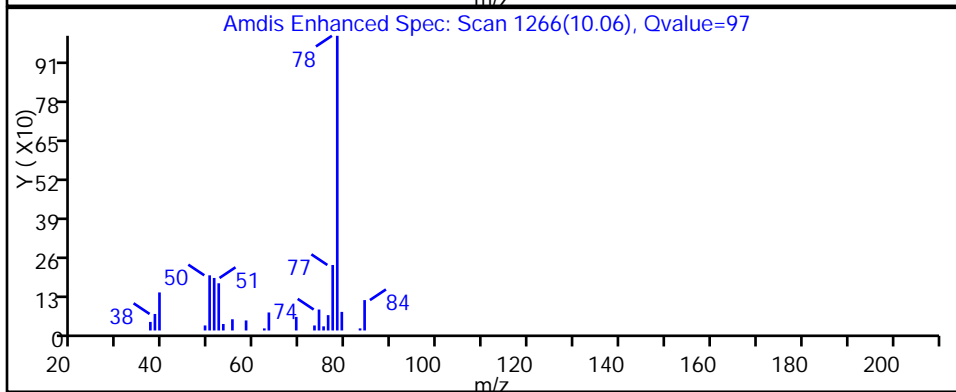
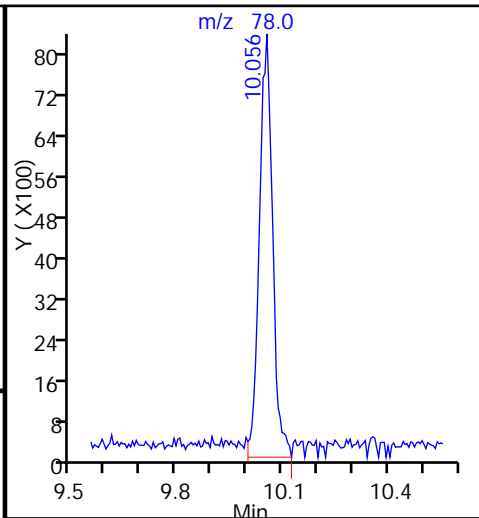
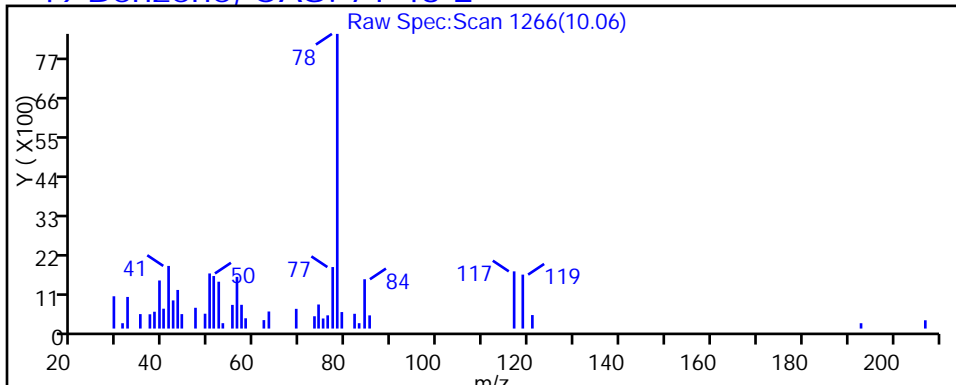
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

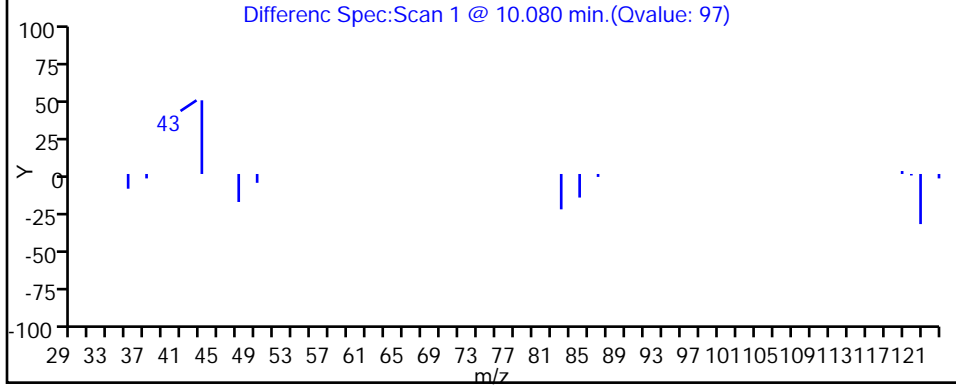
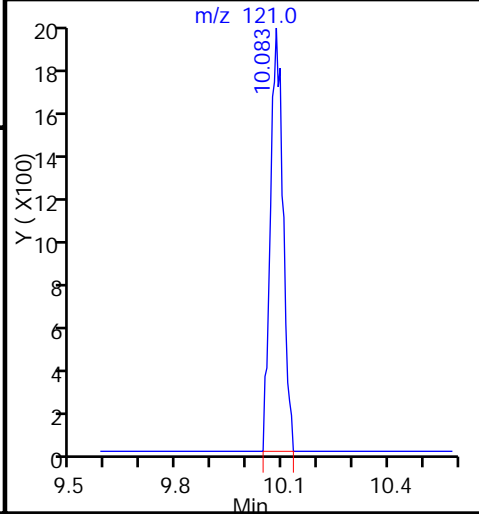
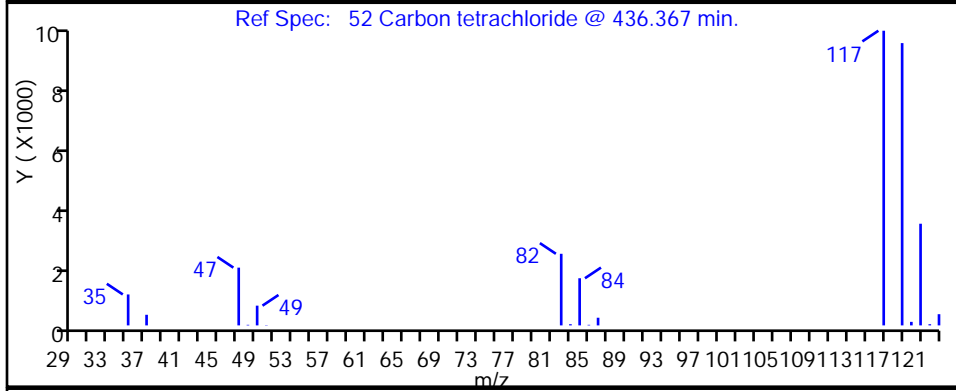
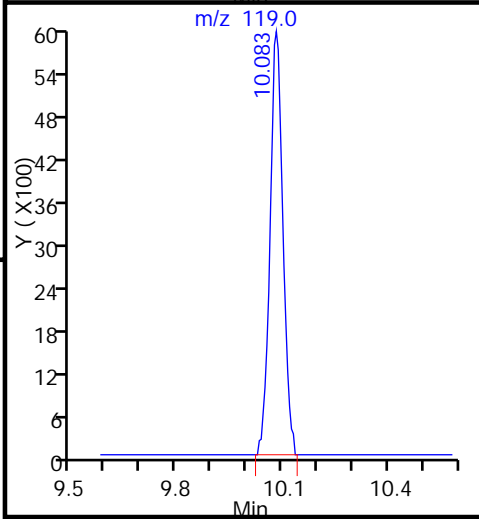
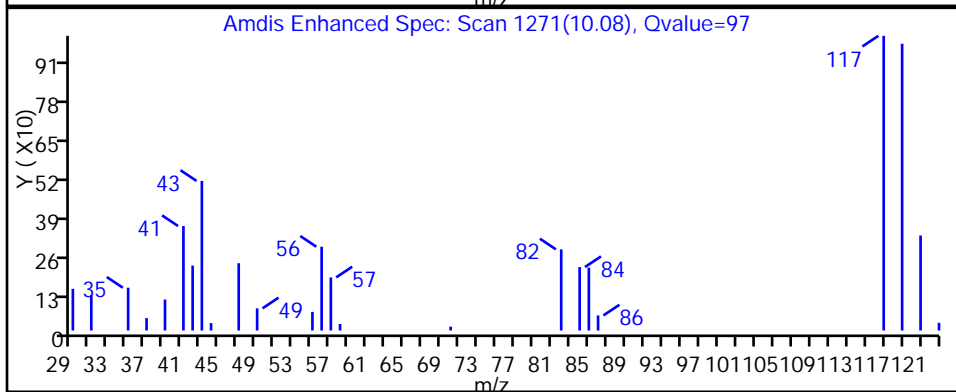
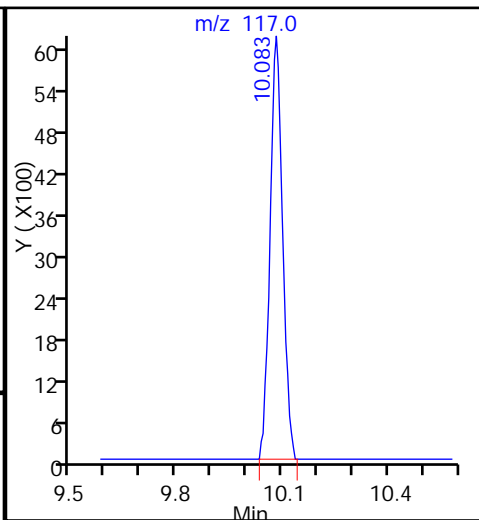
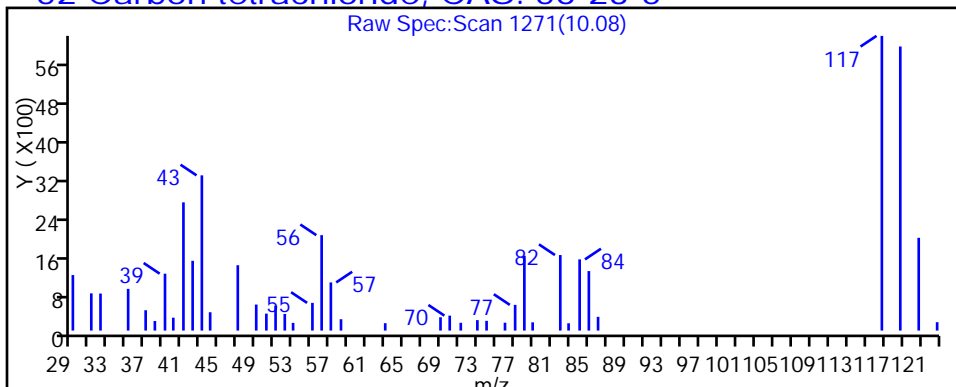
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

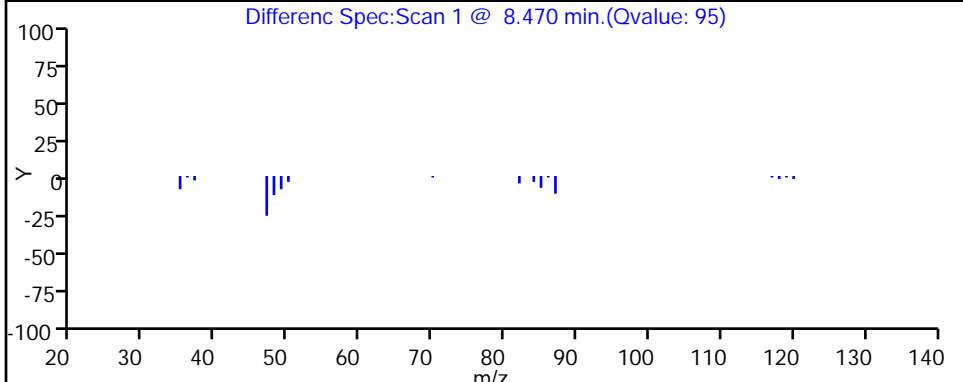
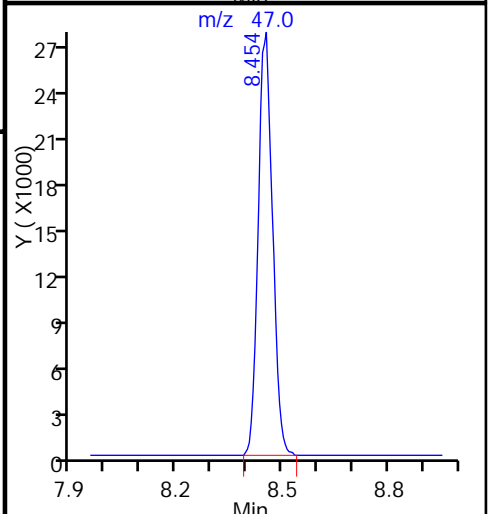
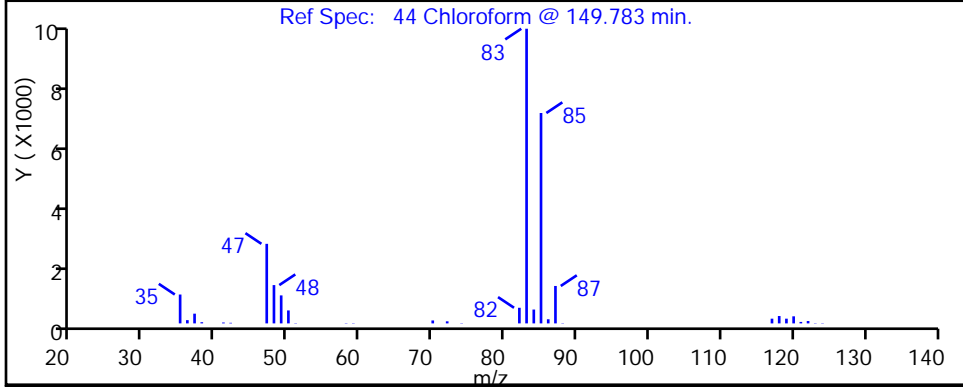
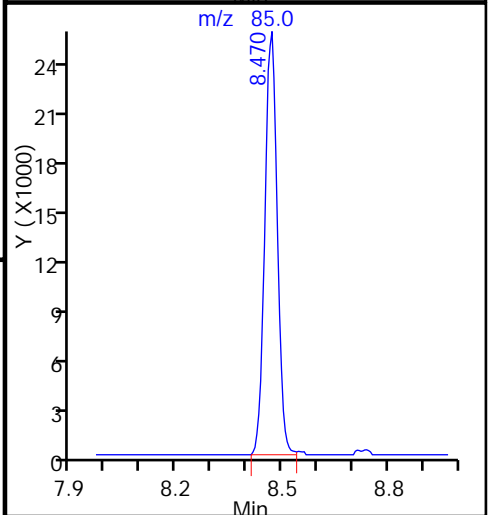
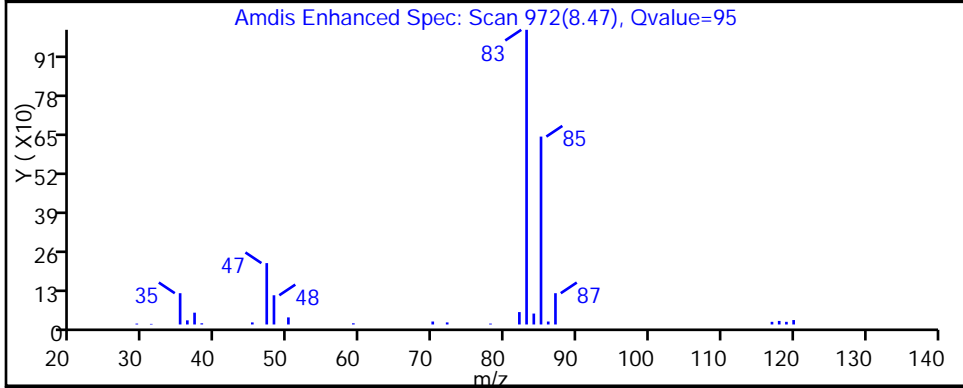
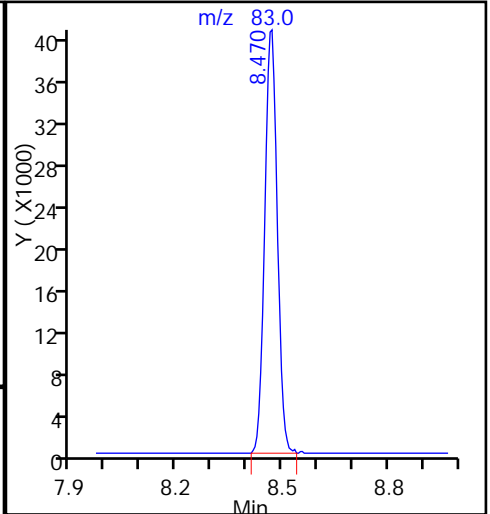
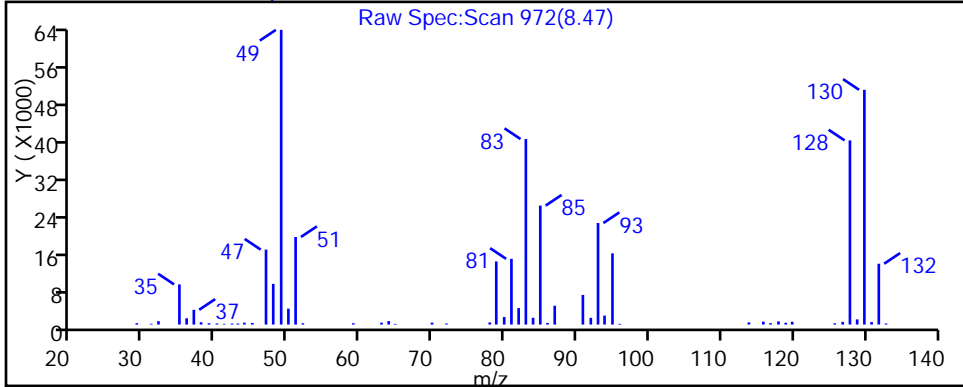
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

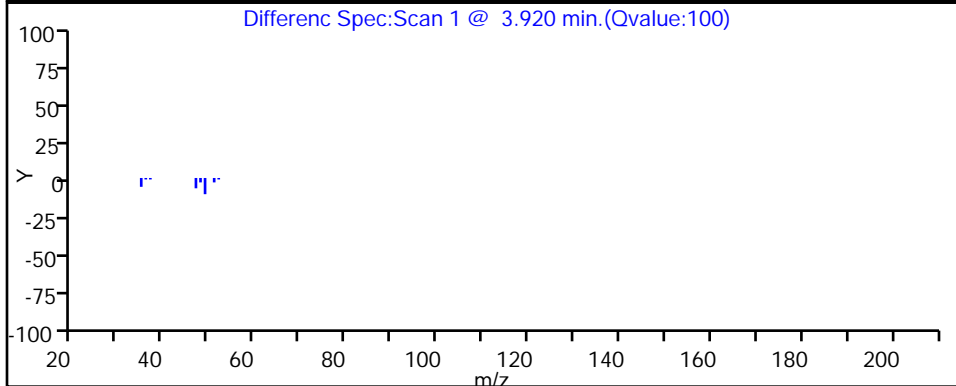
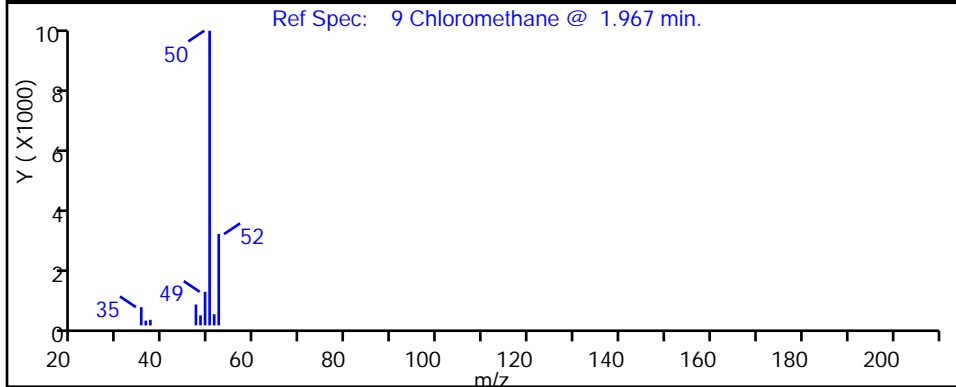
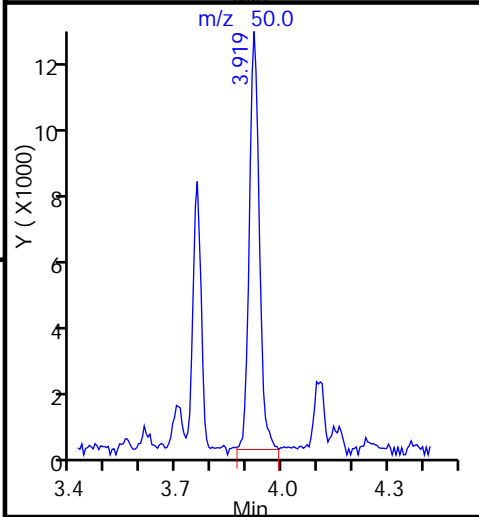
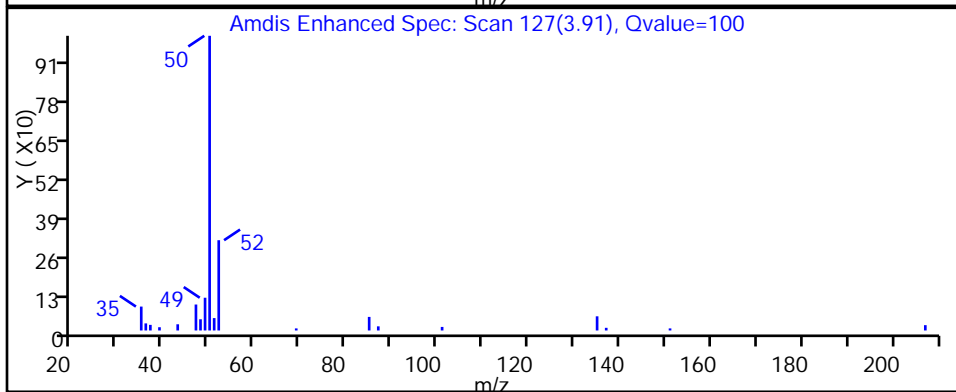
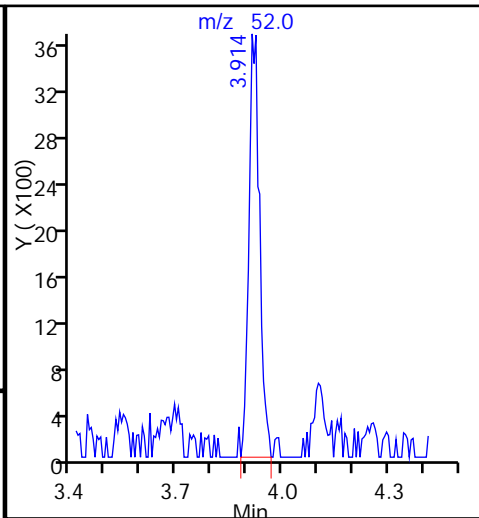
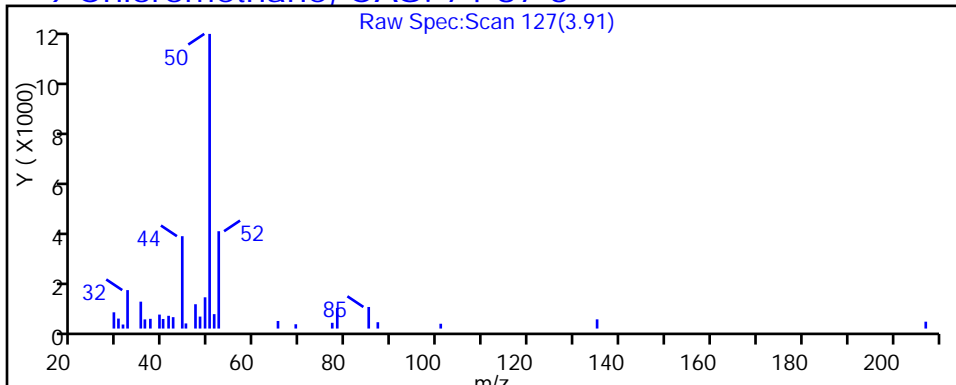
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

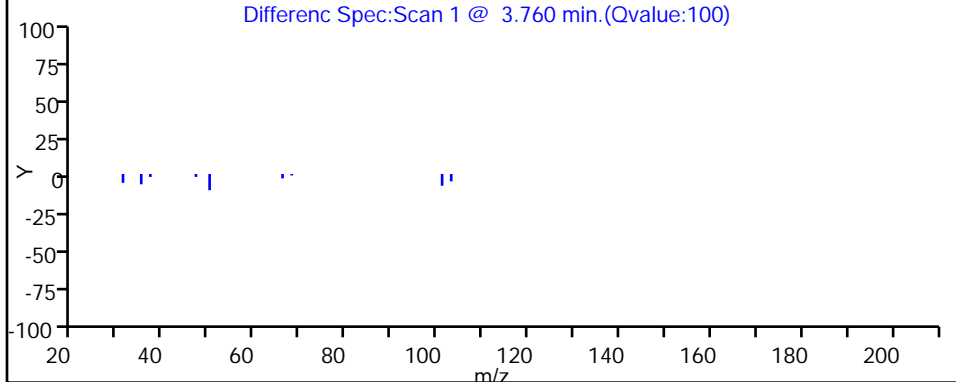
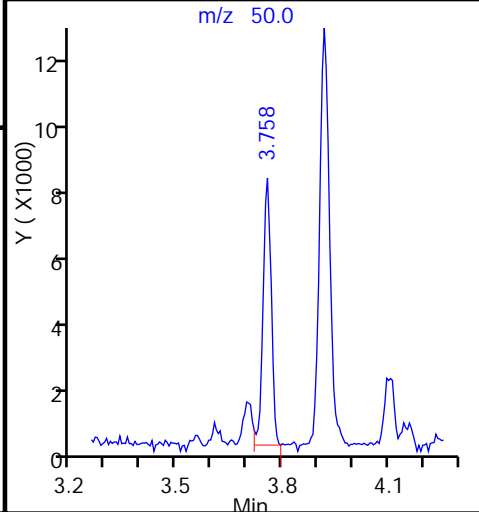
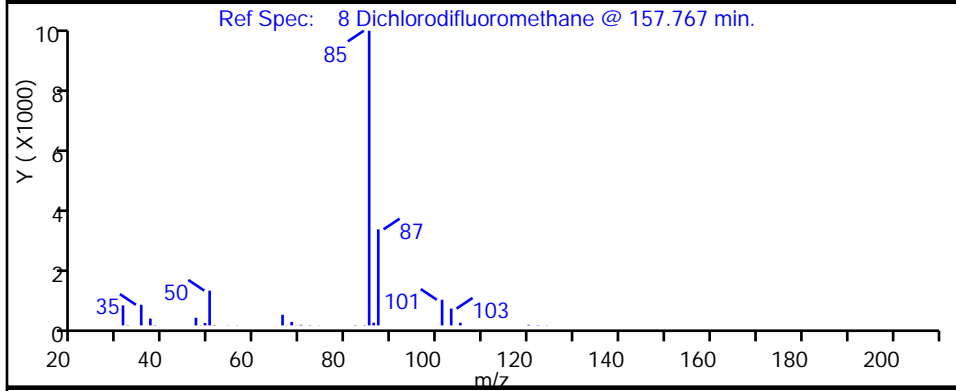
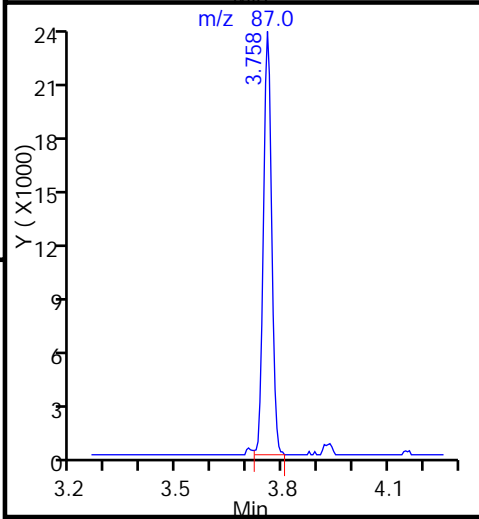
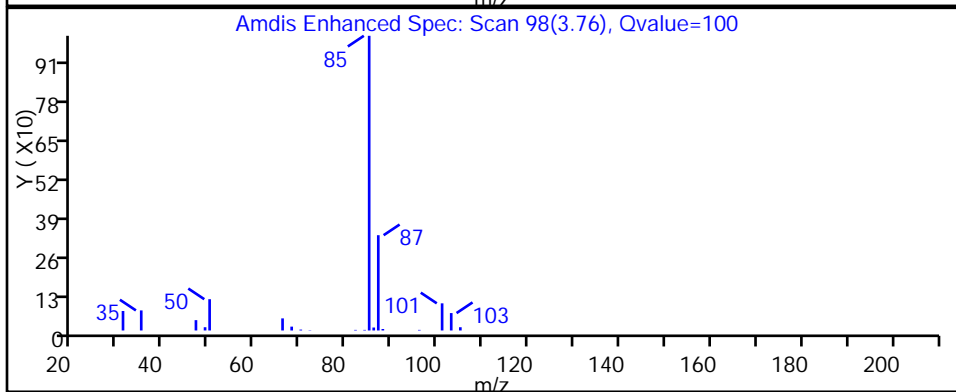
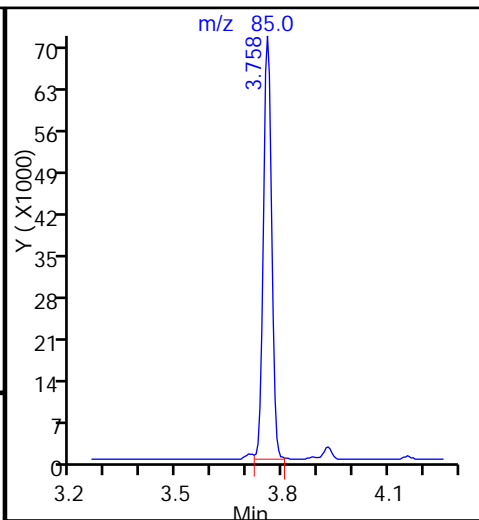
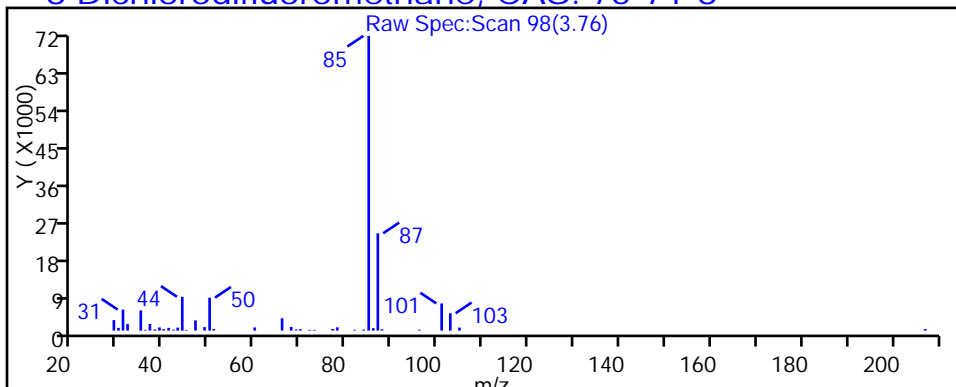
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

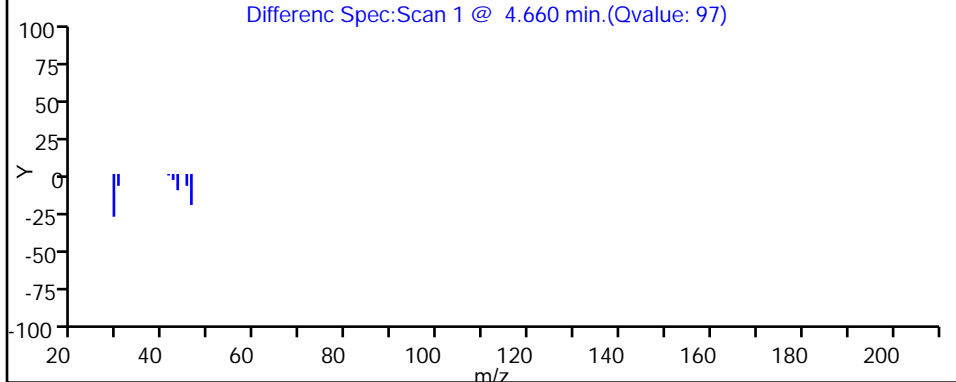
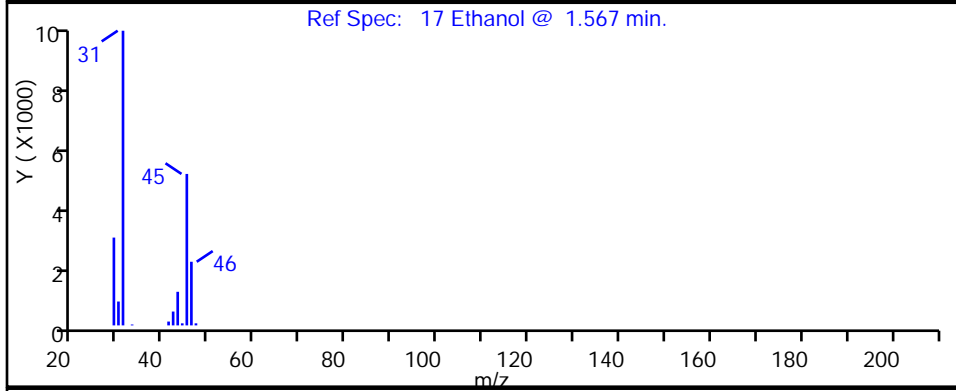
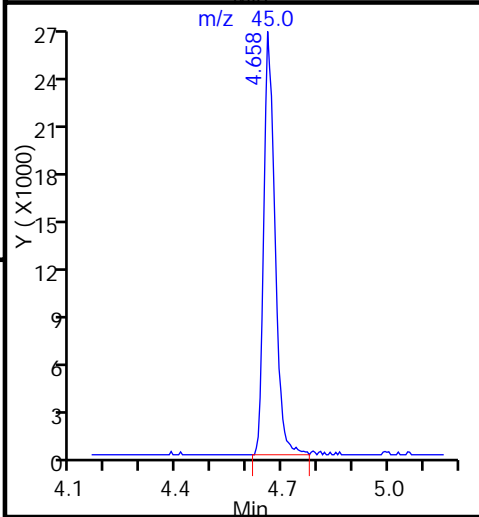
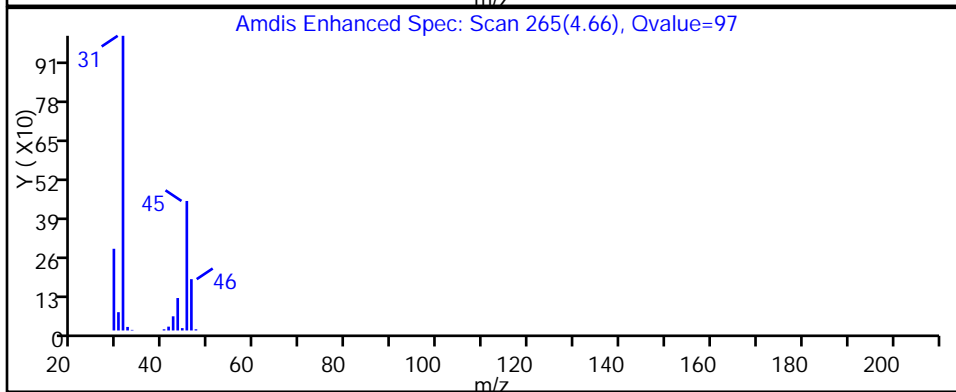
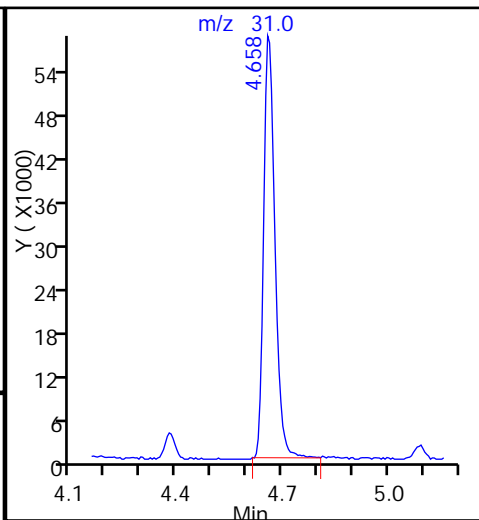
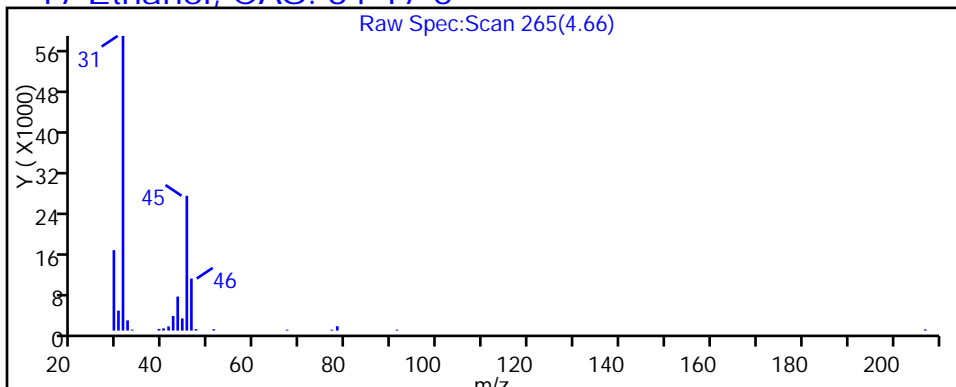
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

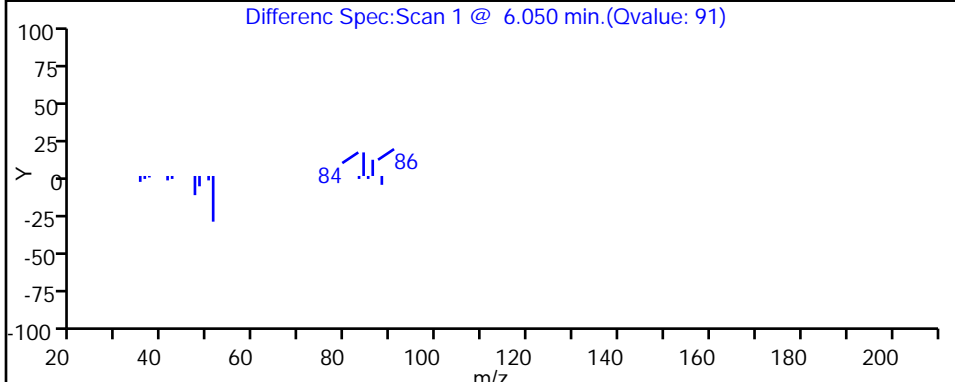
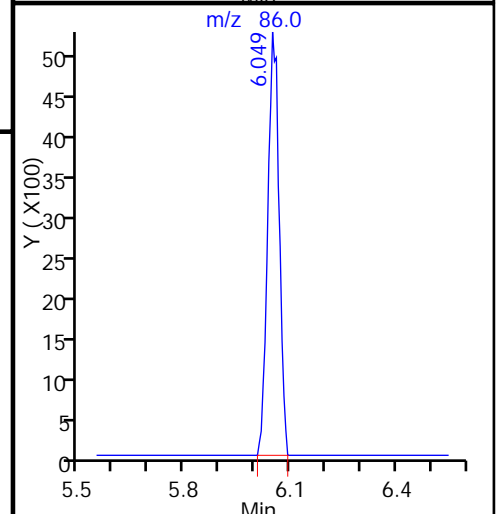
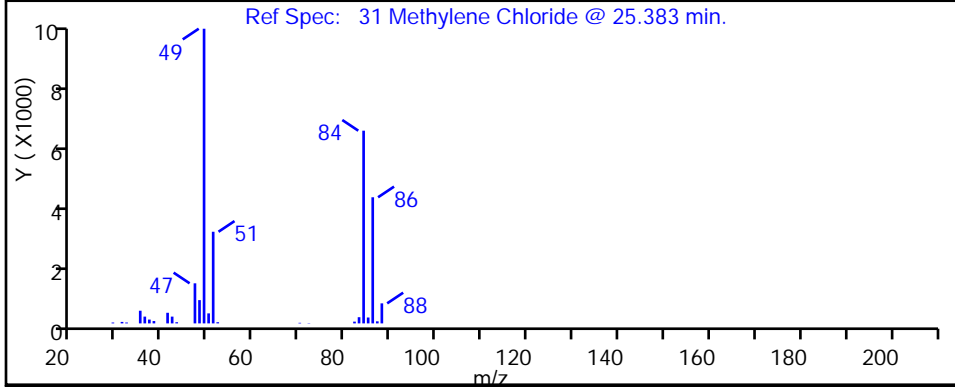
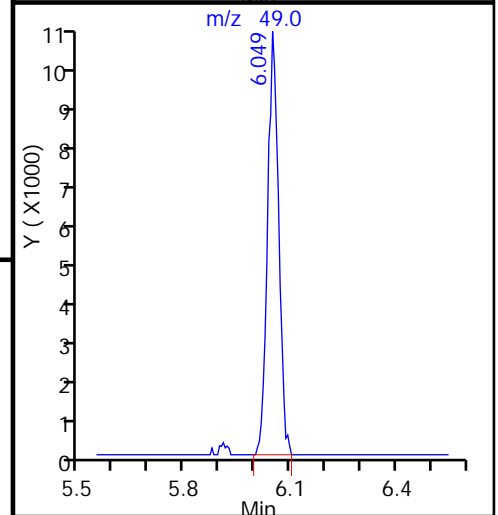
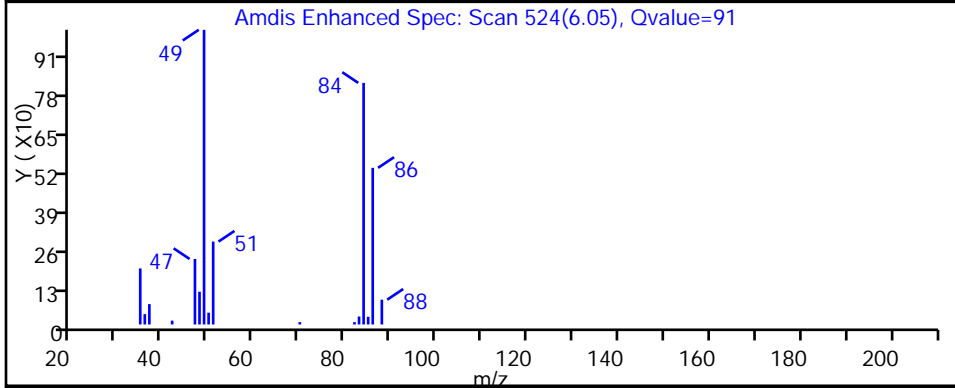
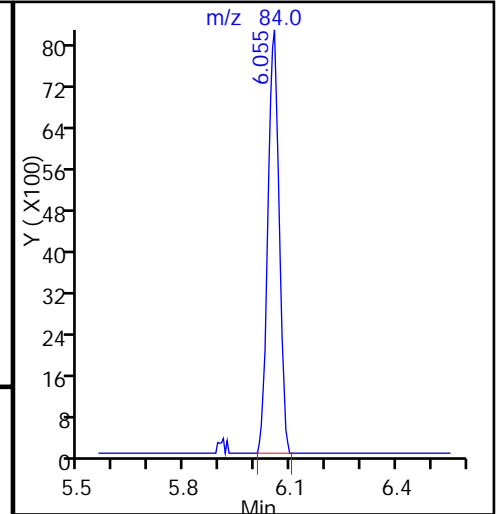
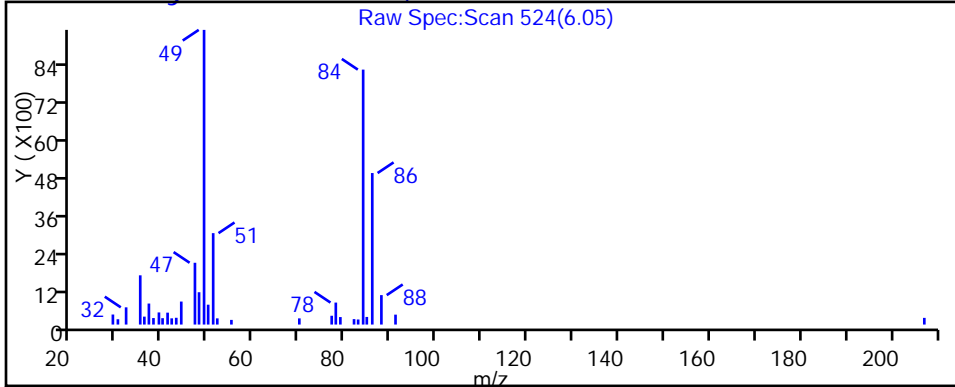
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

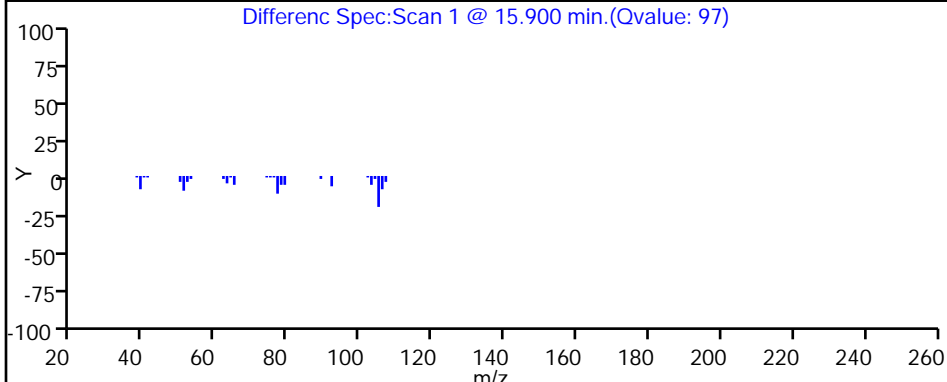
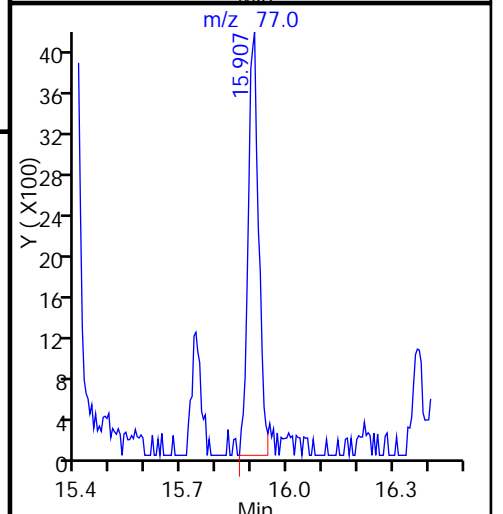
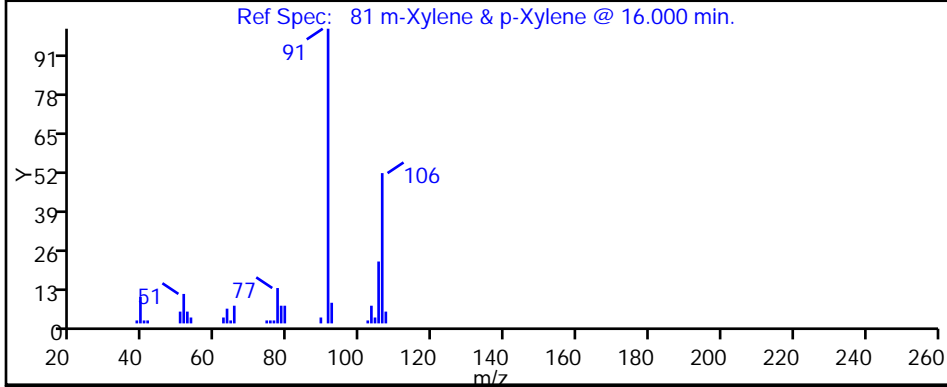
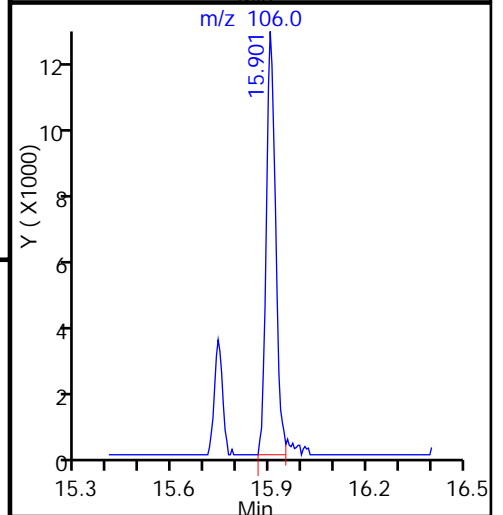
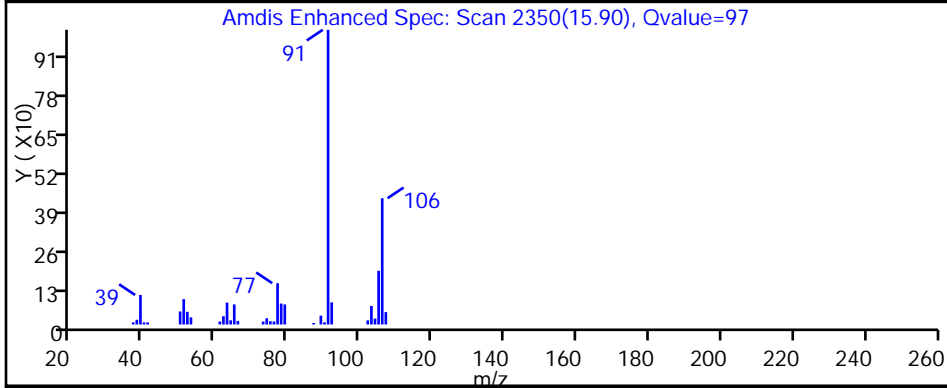
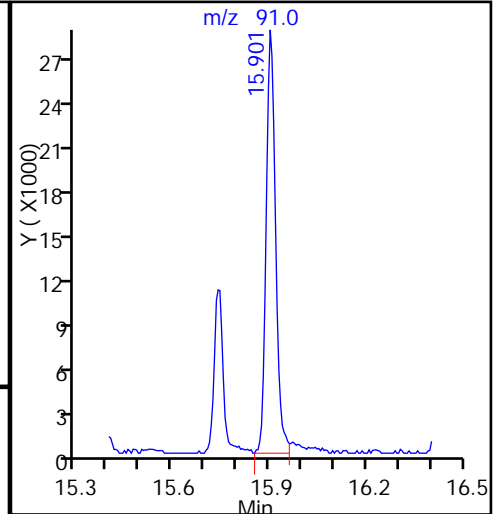
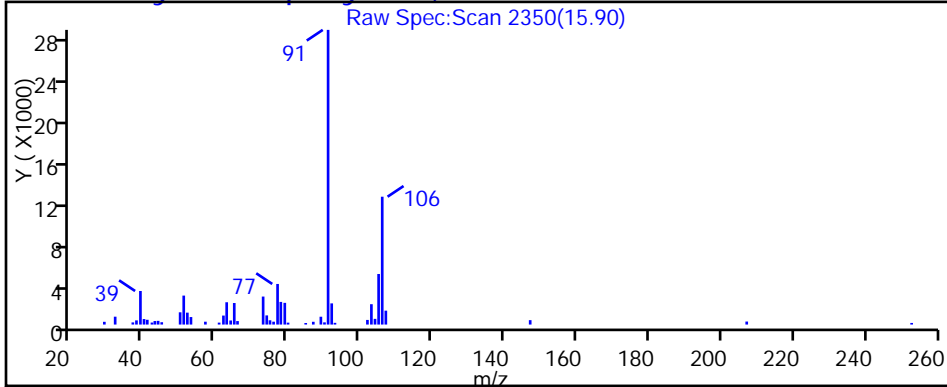
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

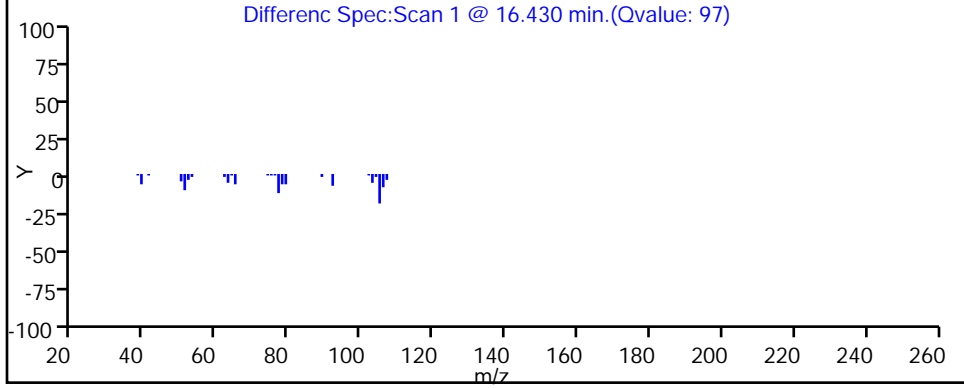
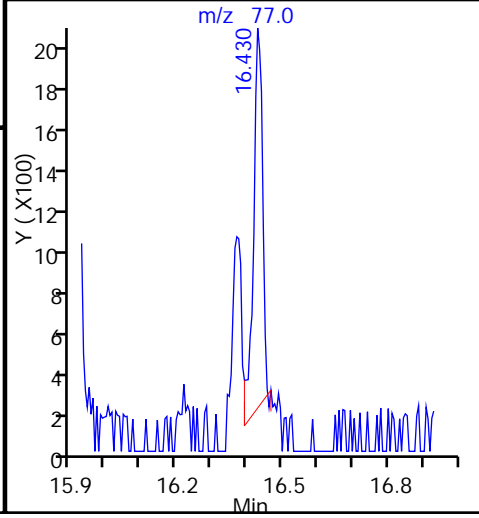
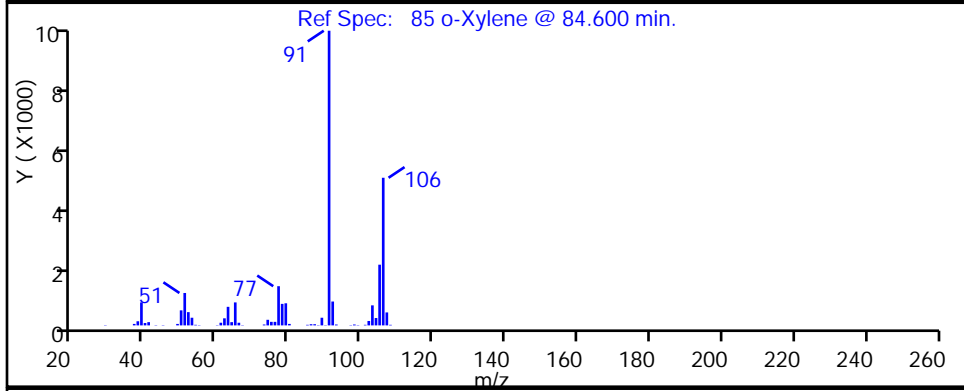
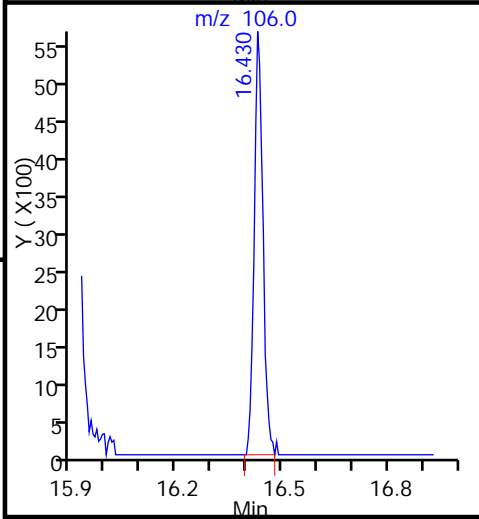
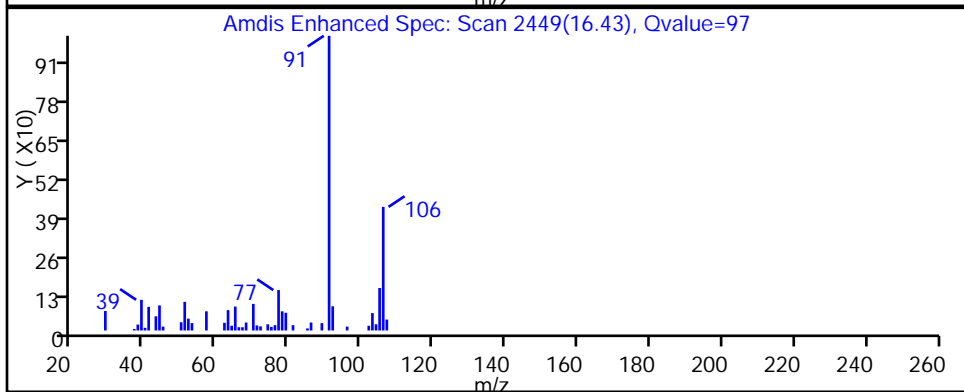
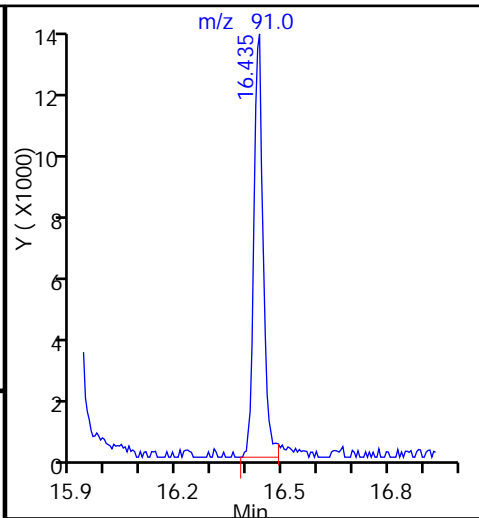
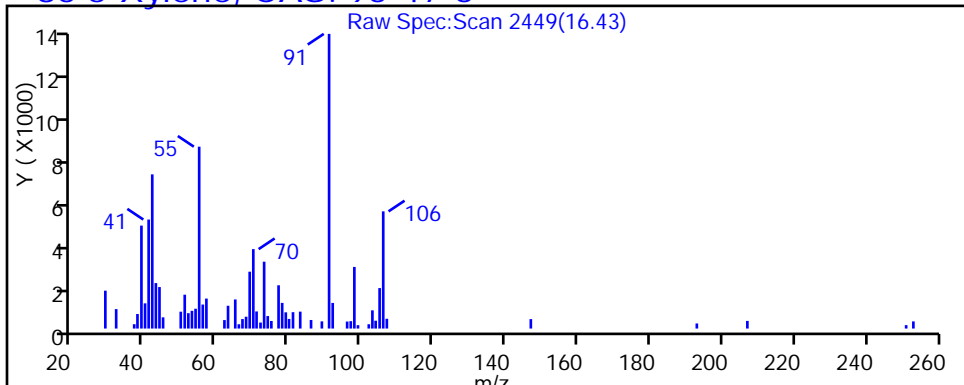
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

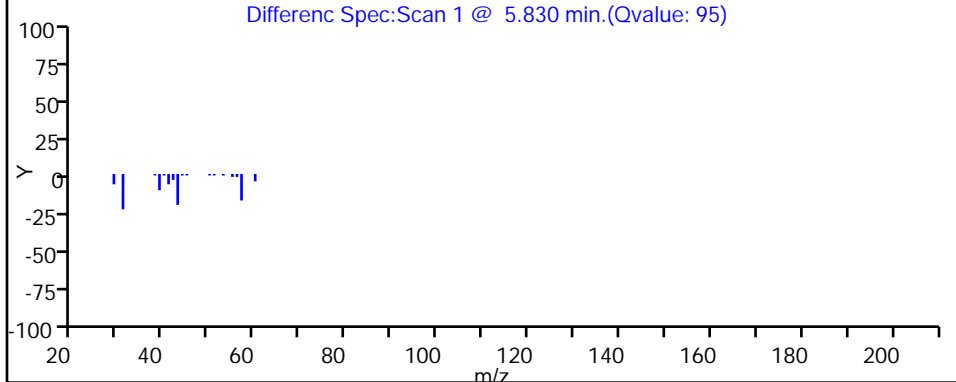
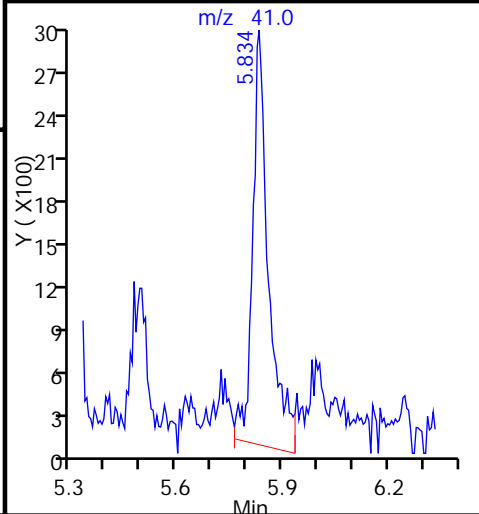
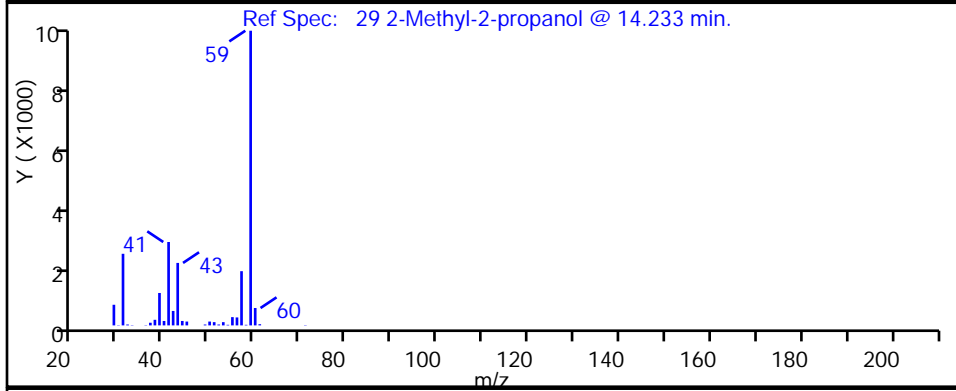
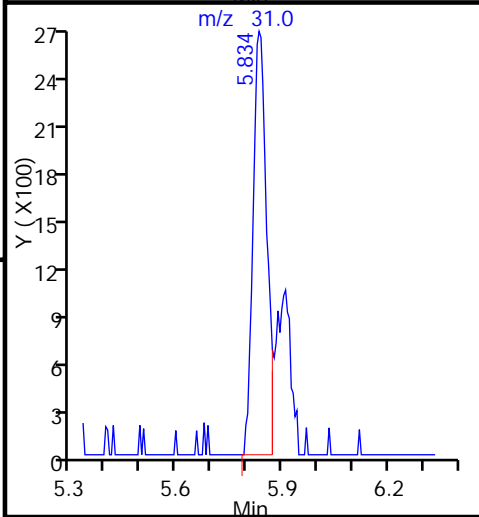
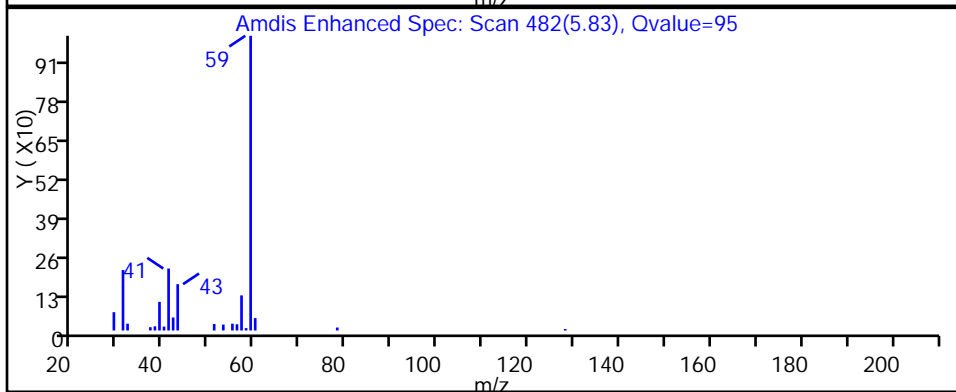
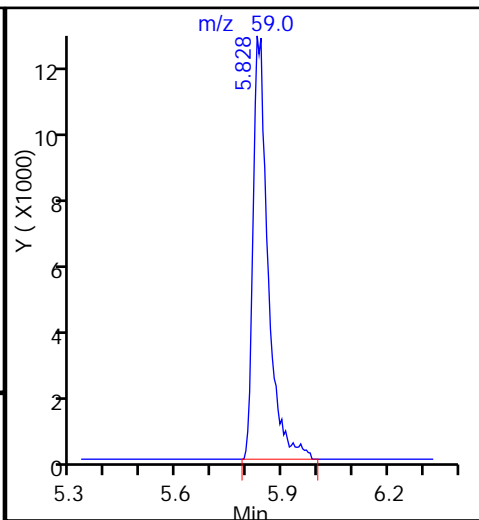
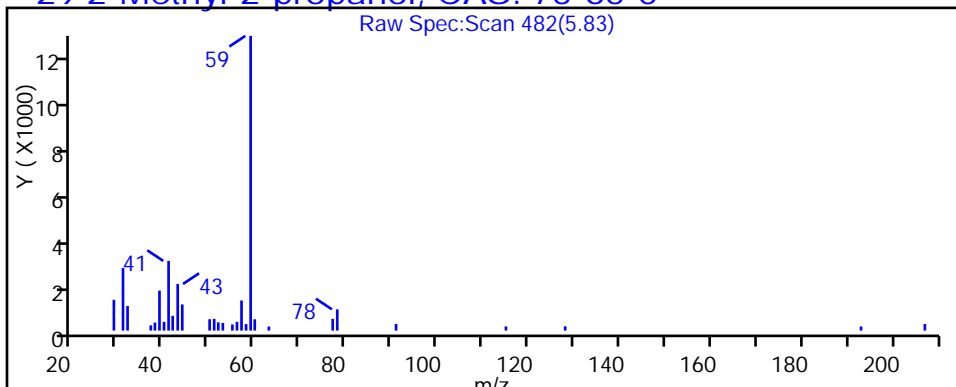
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

29 2-Methyl-2-propanol, CAS: 75-65-0



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

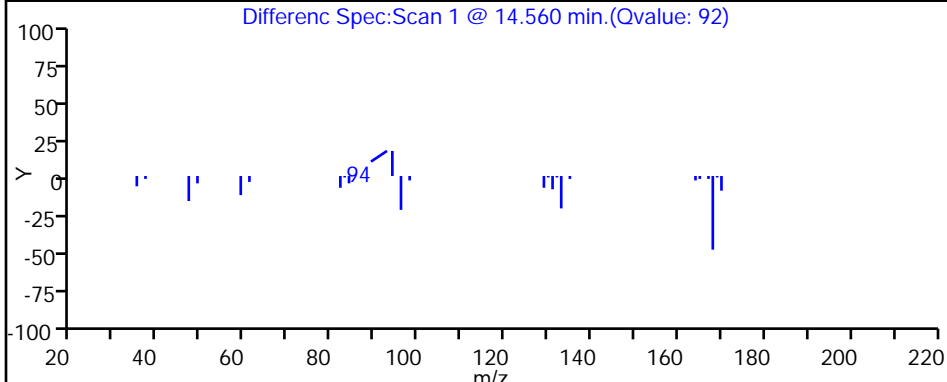
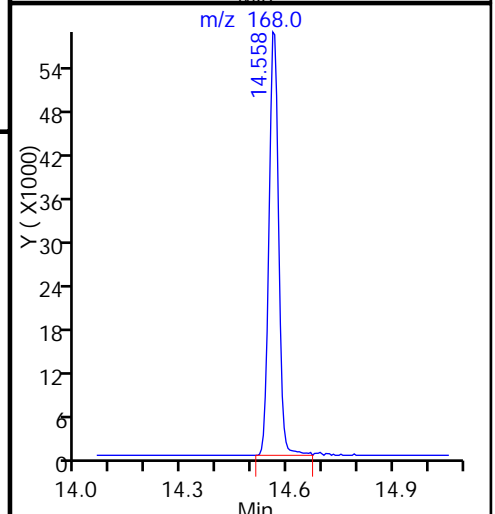
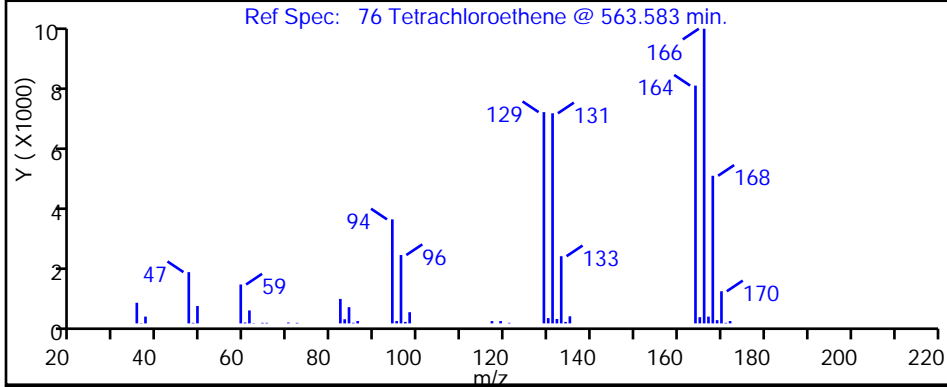
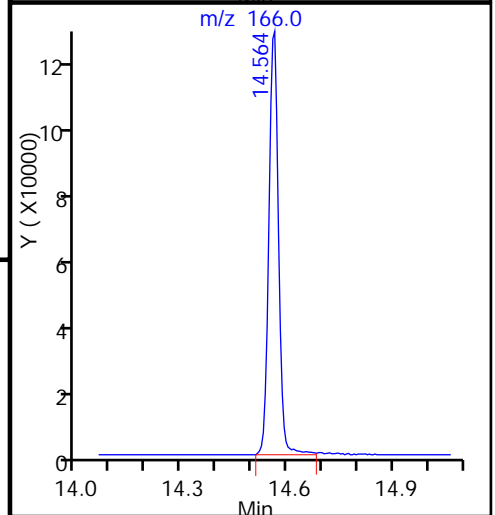
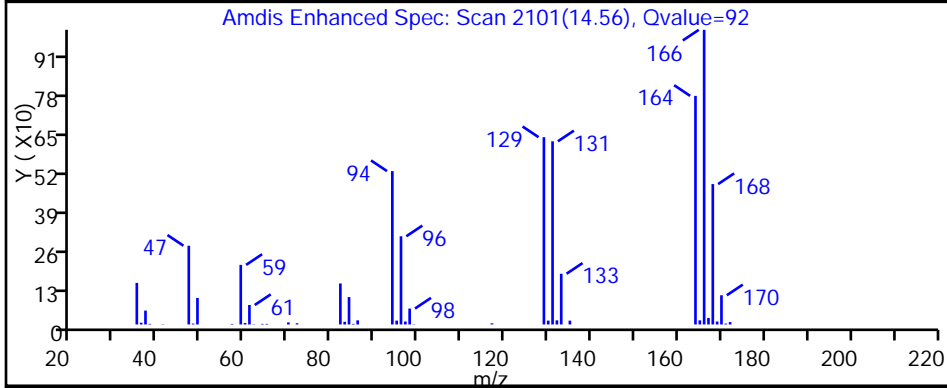
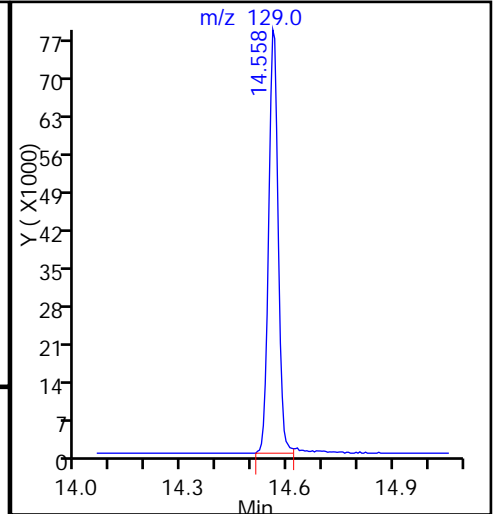
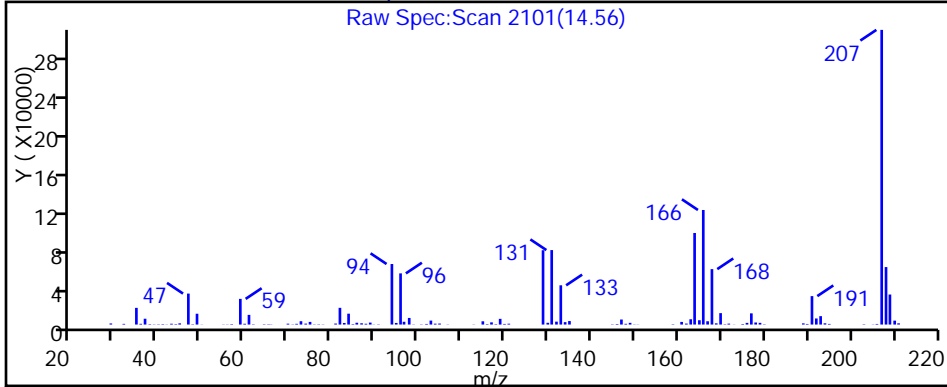
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

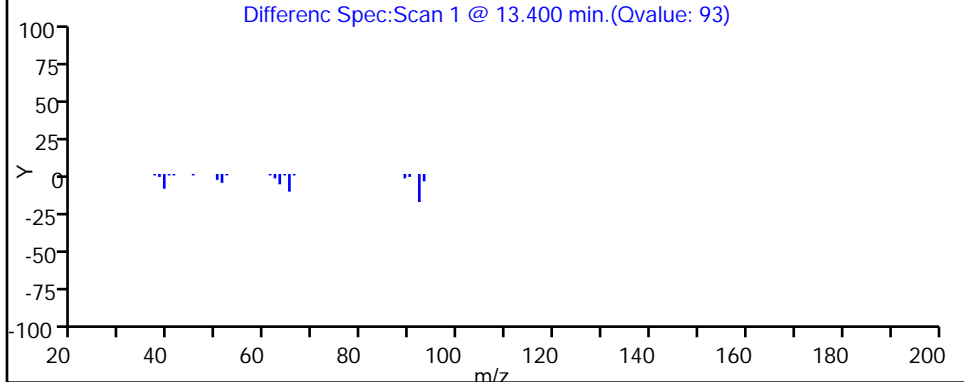
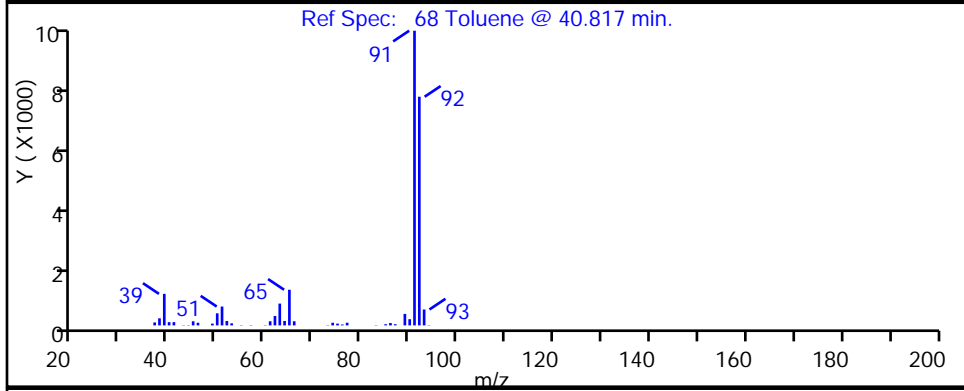
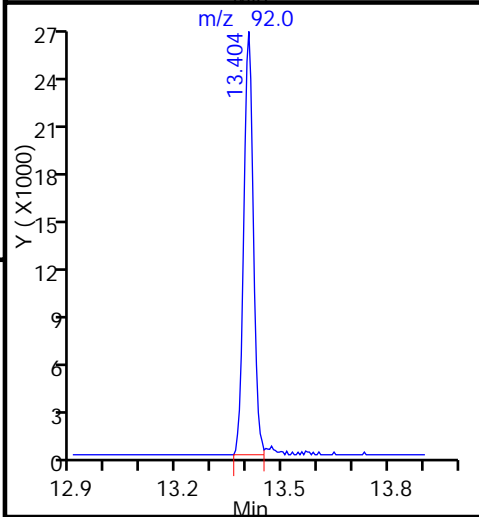
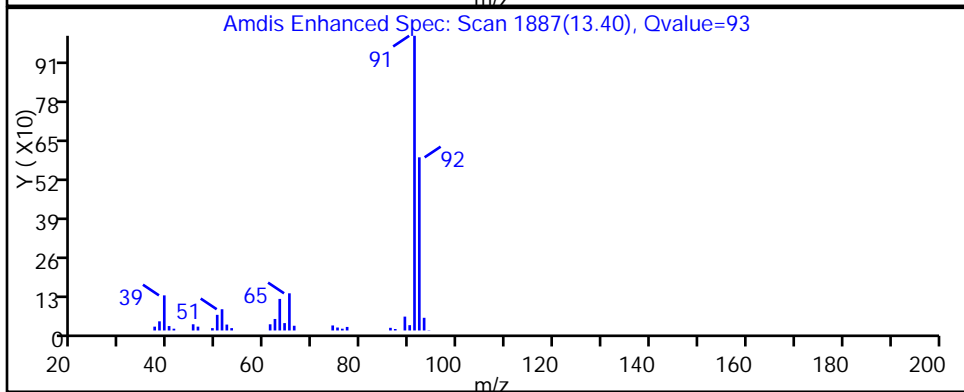
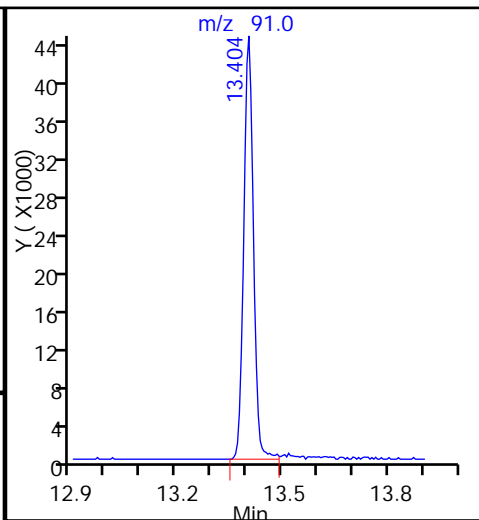
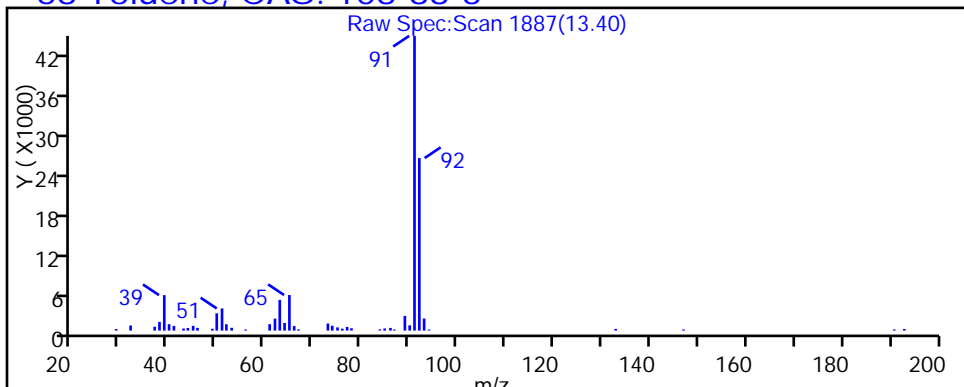
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P102.D

Injection Date: 21-Sep-2016 16:46:30

Instrument ID: MG

Lims ID: 140-5852-A-1

Lab Sample ID: 140-5852-1

Client ID: VP-BLIND DUP

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

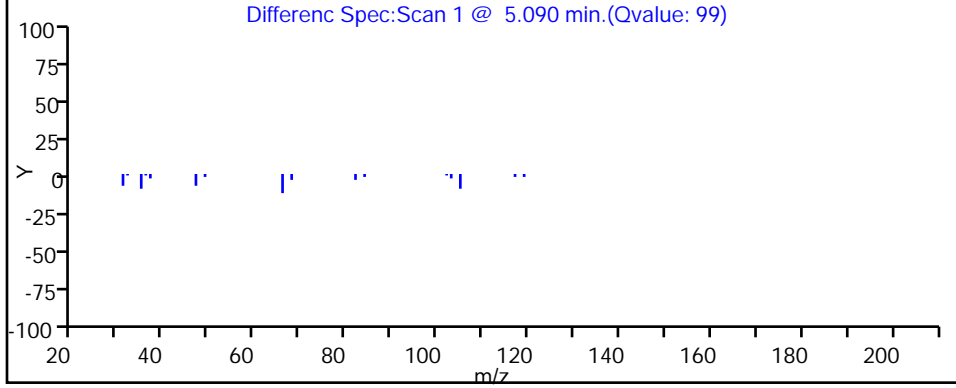
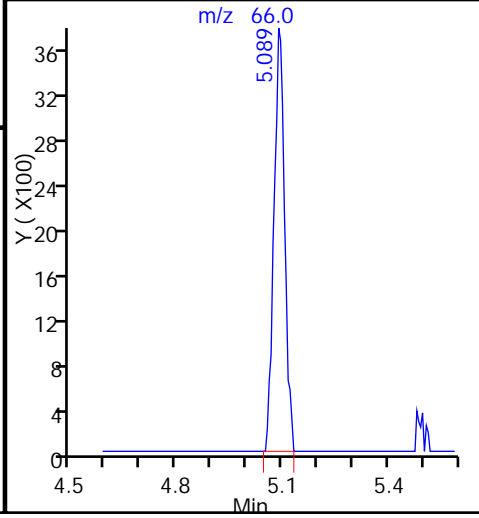
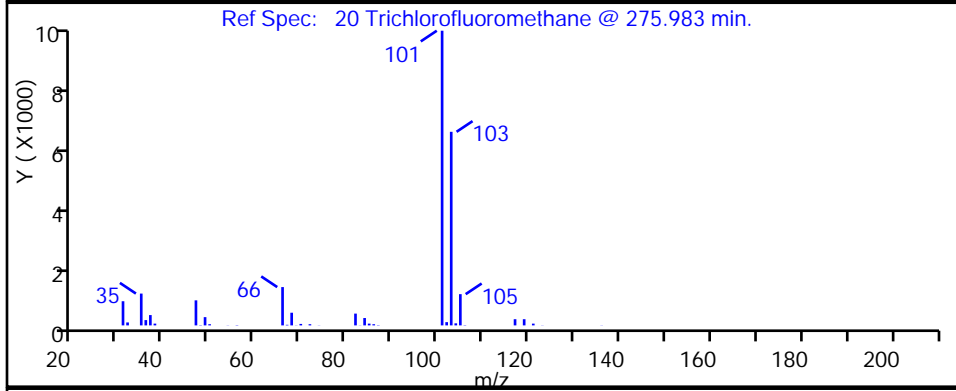
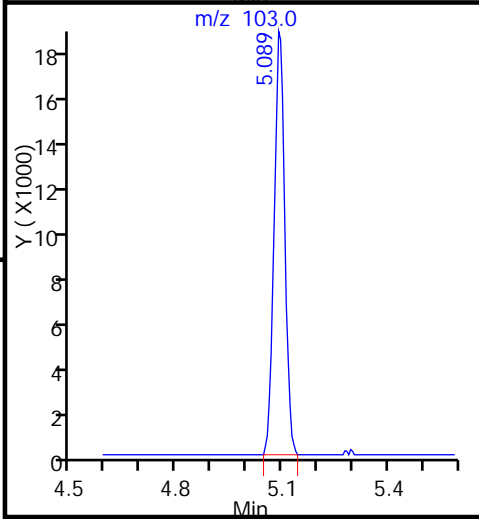
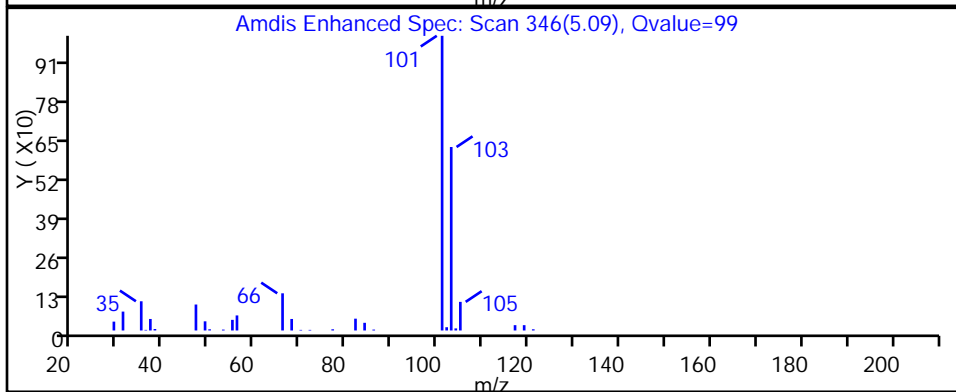
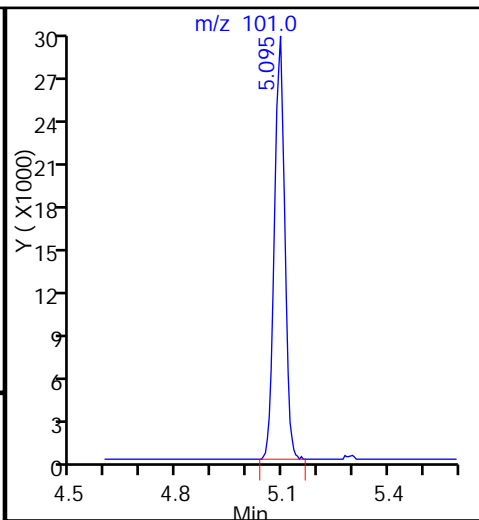
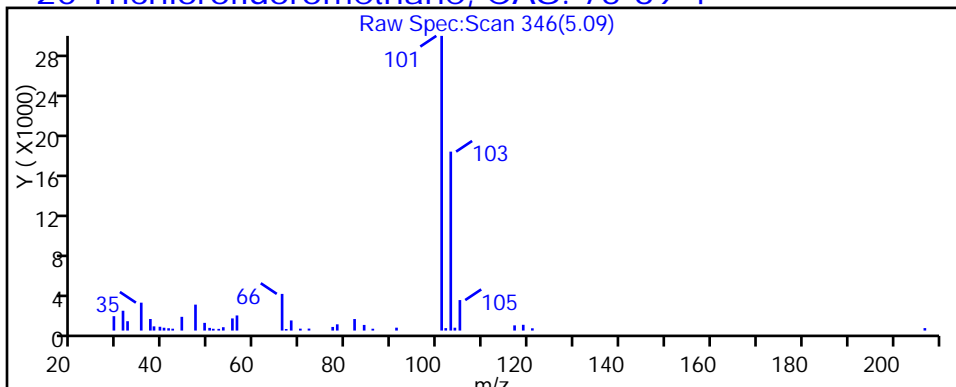
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Knoxville

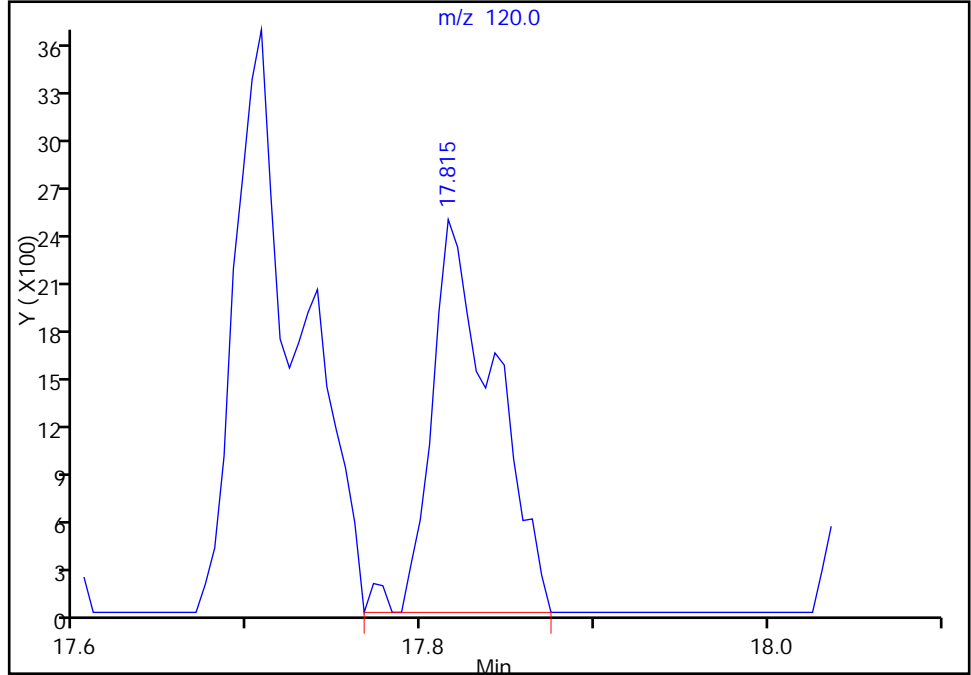
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Injection Date: 21-Sep-2016 16:46:30 Instrument ID: MG
Lims ID: 140-5852-A-1 Lab Sample ID: 140-5852-1
Client ID: VP-BLIND DUP
Operator ID: 7126 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MG_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

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

Signal: 1

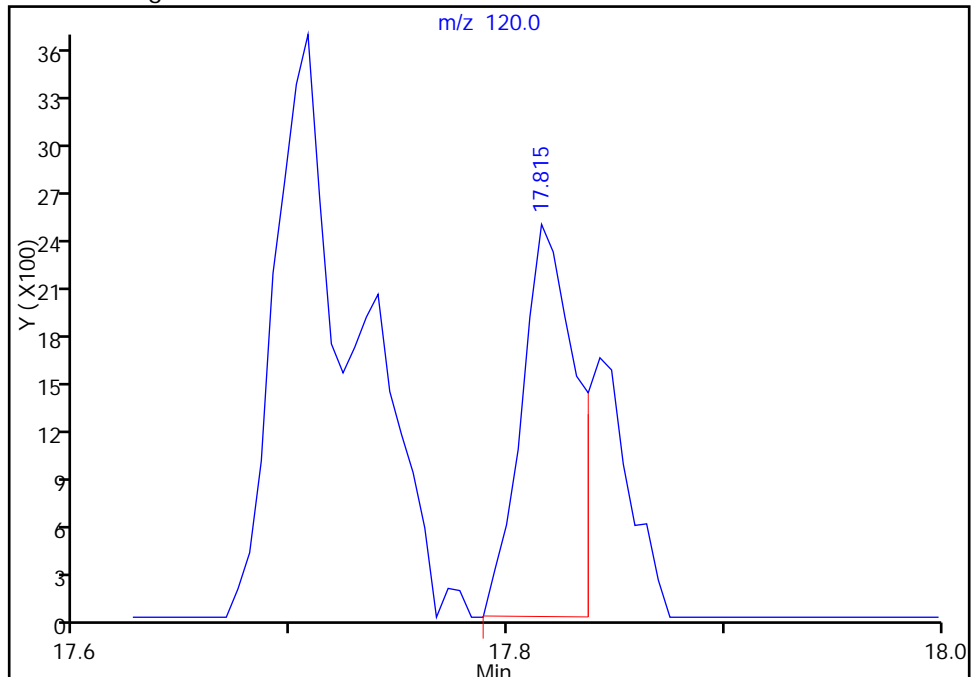
RT: 17.82
Area: 6262
Amount: 0.037378
Amount Units: ppb v/v

Processing Integration Results



RT: 17.82
Area: 4332
Amount: 0.025858
Amount Units: ppb v/v

Manual Integration Results



Reviewer: tajh, 22-Sep-2016 13:51:50
Audit Action: Manually Integrated

Audit Reason: Split Peak

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-127 Lab Sample ID: 140-5852-2
 Matrix: Air Lab File ID: GI21P103.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:38
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 17:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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	1.7		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	0.42		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	2.3		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	1.9		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	3.3		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	0.059		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	10		0.080	
74-87-3	Chloromethane	50.49	0.66		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	0.57		0.20	

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-127 Lab Sample ID: 140-5852-2
 Matrix: Air Lab File ID: GI21P103.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:38
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 17:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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	0.41		0.080	
64-17-5	Ethanol	46.07	ND	*	2.0	
100-41-4	Ethylbenzene	106.17	0.69		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	0.51		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	0.89		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	3.1		0.080	
95-47-6	o-Xylene	106.17	1.1		0.080	
100-42-5	Styrene	104.15	0.94		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	12		0.080	
108-88-3	Toluene	92.14	1.8		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	0.40		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-127 Lab Sample ID: 140-5852-2
 Matrix: Air Lab File ID: GI21P103.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:38
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 17:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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	8.6		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	2.1		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	14		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	5.5		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	14		0.82
71-43-2	Benzene	78.11	0.55		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	0.37		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	49		0.39
74-87-3	Chloromethane	50.49	1.4		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	1.9		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-127 Lab Sample ID: 140-5852-2
 Matrix: Air Lab File ID: GI21P103.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:38
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 17:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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	2.0		0.40
64-17-5	Ethanol	46.07	ND	*	3.8
100-41-4	Ethylbenzene	106.17	3.0		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	1.8		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	3.1		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	13		0.35
95-47-6	o-Xylene	106.17	4.8		0.35
100-42-5	Styrene	104.15	4.0		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	84		0.54
108-88-3	Toluene	92.14	6.7		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	2.2		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D
 Lims ID: 140-5852-A-2
 Client ID: VP-127
 Sample Type: Client
 Inject. Date: 21-Sep-2016 17:32:30 ALS Bottle#: 3 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-007
 Misc. Info.: 140-5852-a-2
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 12:37:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.465	8.454	0.011	91	253525	4.00	
* 2 1,4-Difluorobenzene	114	10.622	10.617	0.005	96	1201094	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.400	15.394	0.006	91	1101370	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.055	17.050	0.005	92	824693	4.29	
8 Dichlorodifluoromethane	85	3.763	3.758	0.005	100	89979	0.4127	
9 Chloromethane	52	3.925	3.919	0.006	100	16336	0.6617	
16 Chloroethane	64	4.572	4.566	0.006	3	811	0.0210	
20 Trichlorofluoromethane	101	5.106	5.095	0.011	99	81563	0.3982	
29 2-Methyl-2-propanol	59	5.893	5.834	0.059	42	1941	0.0175	
30 1,1,2-Trichloro-1,2,2-trif	101	5.931	5.909	0.022	94	9495	0.0758	
31 Methylene Chloride	84	6.076	6.055	0.021	93	54786	0.8879	
37 1,1-Dichloroethane	63	7.225	7.203	0.022	93	1887	0.0125	
39 2-Butanone (MEK)	72	7.726	7.721	0.005	99	66136	1.86	
40 Hexane	56	7.780	7.775	0.005	90	34479	0.5146	
44 Chloroform	83	8.487	8.476	0.011	96	1692734	10.0	
47 1,1,1-Trichloroethane	97	9.479	9.463	0.016	89	2563	0.0137	
49 Benzene	78	10.067	10.056	0.011	78	37657	0.1707	
50 Cyclohexane	69	10.067	10.067	0.000	89	21376	0.5663	
52 Carbon tetrachloride	117	10.094	10.088	0.006	90	10245	0.0590	
56 Isooctane	57	10.859	10.854	0.005	88	33141	0.0797	
59 Trichloroethene	130	11.339	11.334	0.005	89	3858	0.0347	
61 Dichlorobromomethane	83	11.566	11.555	0.011	72	11381	0.0664	
65 4-Methyl-2-pentanone (MIBK	43	12.520	12.520	0.000	97	636487	3.31	
68 Toluene	91	13.410	13.405	0.006	93	425403	1.77	
76 Tetrachloroethene	129	14.564	14.564	0.000	92	1192571	12.4	
79 Ethylbenzene	91	15.745	15.739	0.006	99	218937	0.6862	
81 m-Xylene & p-Xylene	91	15.907	15.907	0.000	98	757914	3.07	
84 Styrene	104	16.376	16.370	0.006	96	153716	0.9417	
85 o-Xylene	91	16.435	16.435	0.000	96	293665	1.11	
92 1,3,5-Trimethylbenzene	120	17.821	17.821	0.000	92	70675	0.4194	
96 1,2,4-Trimethylbenzene	105	18.268	18.268	0.000	98	541333	1.75	

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	93	439484	2.29	

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Worklist Smp#: 7

Client ID: VP-127

Purge Vol: 500.000 mL

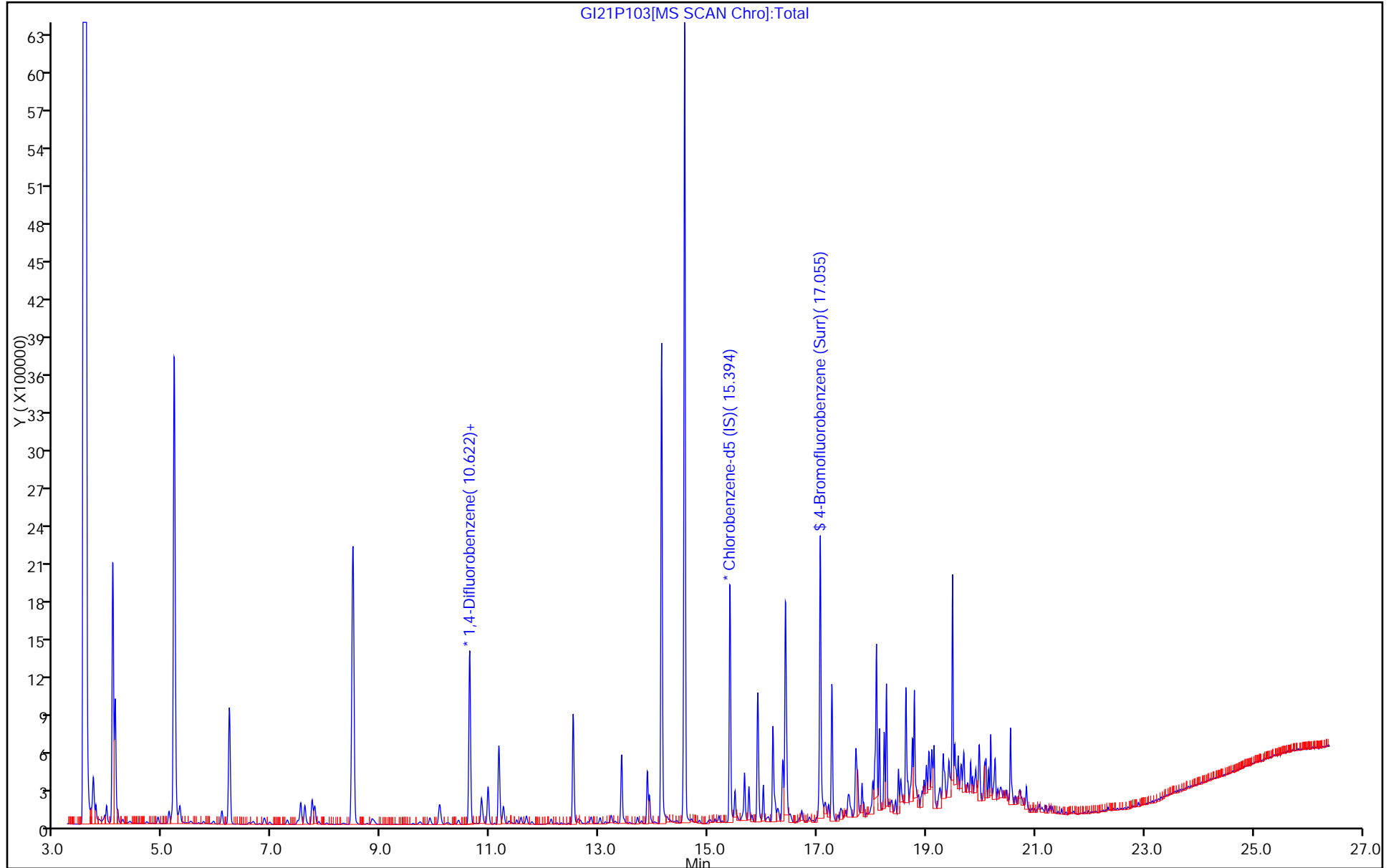
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D
 Lims ID: 140-5852-A-2
 Client ID: VP-127
 Sample Type: Client
 Inject. Date: 21-Sep-2016 17:32:30 ALS Bottle#: 3 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-007
 Misc. Info.: 140-5852-a-2
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 12:37:36

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.29	107.24

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

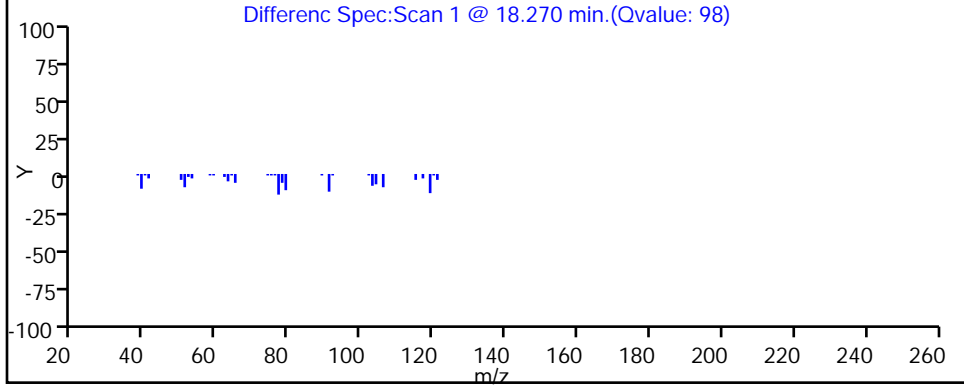
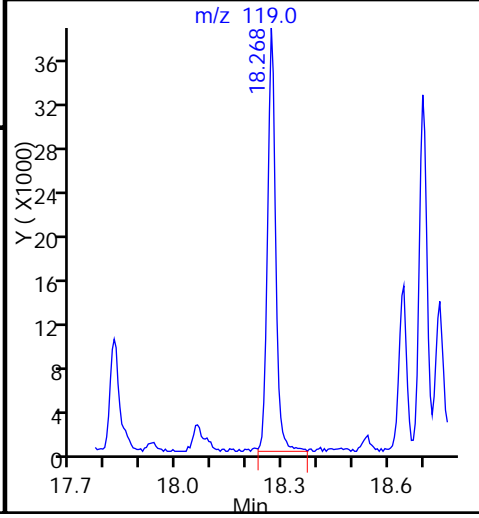
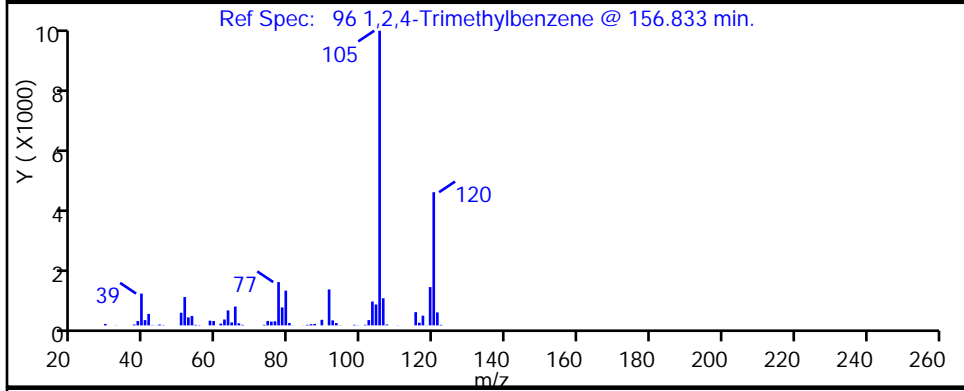
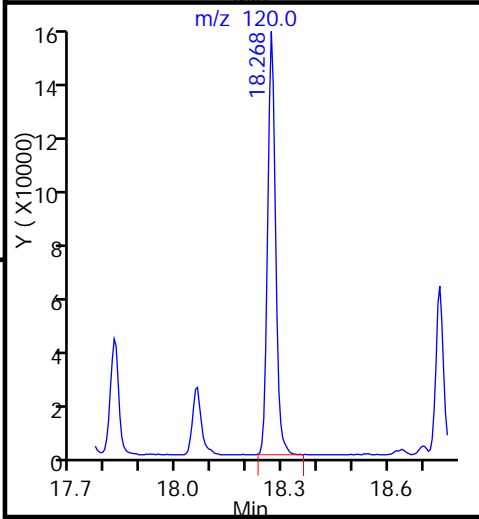
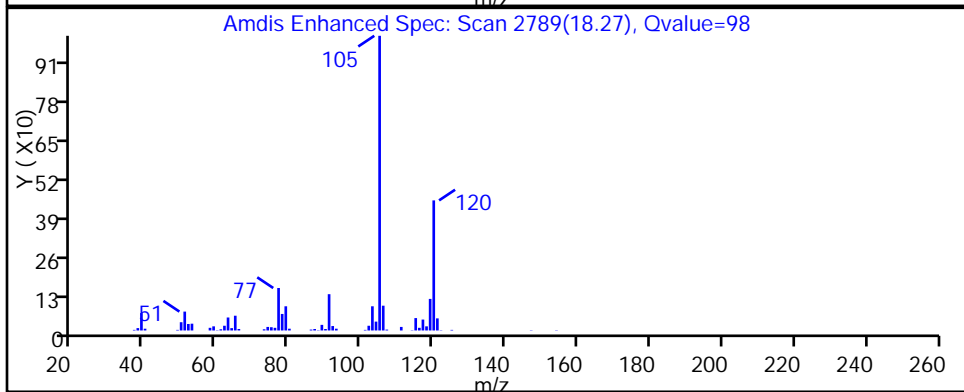
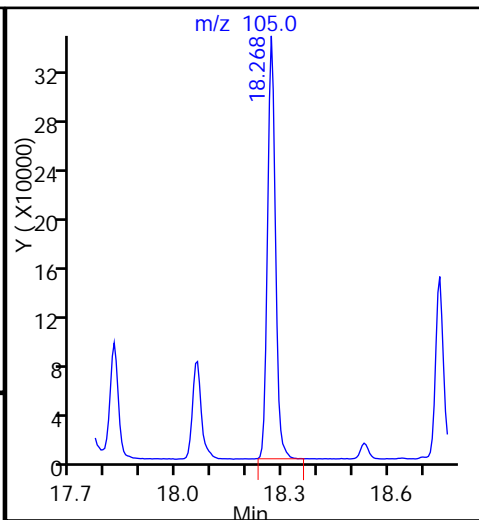
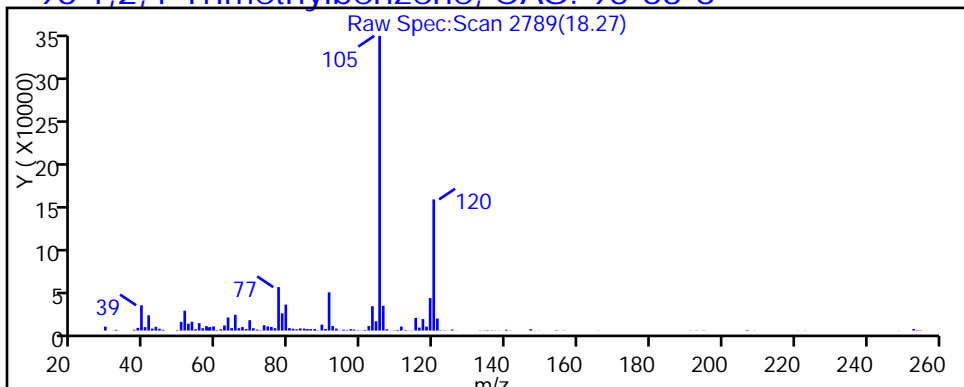
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

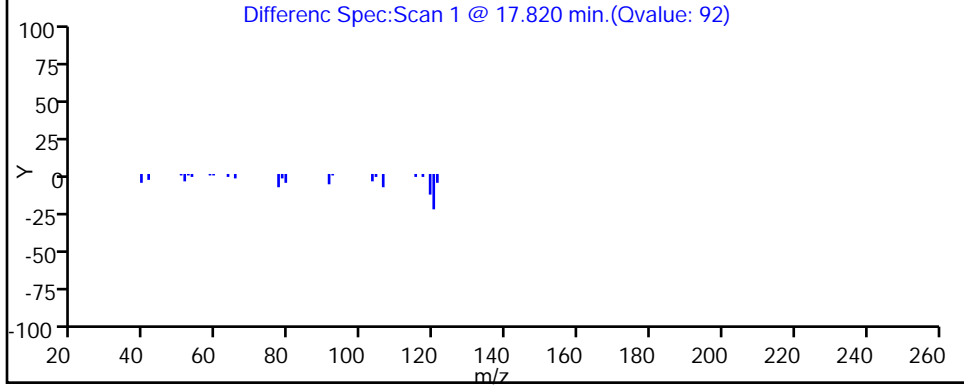
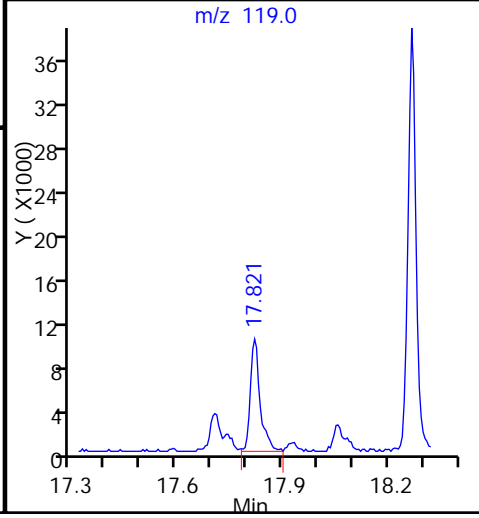
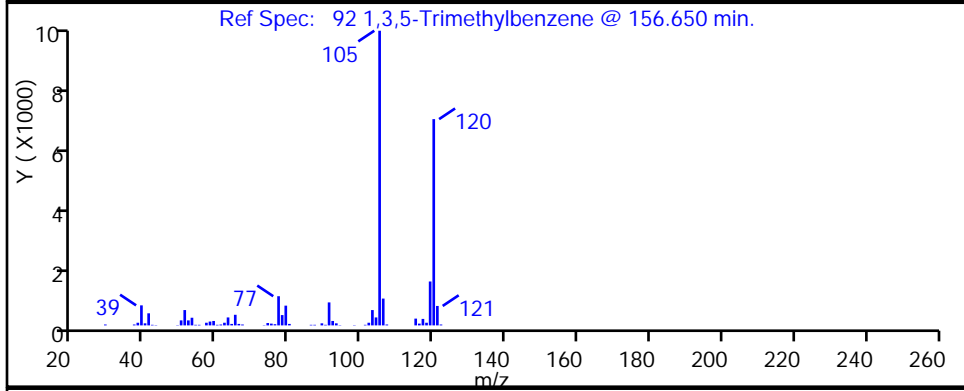
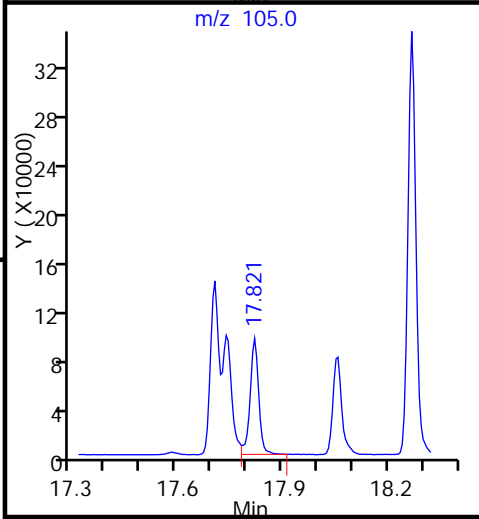
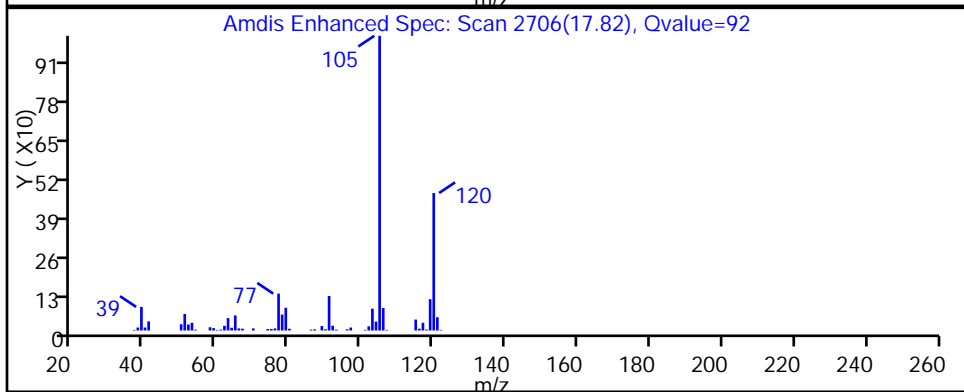
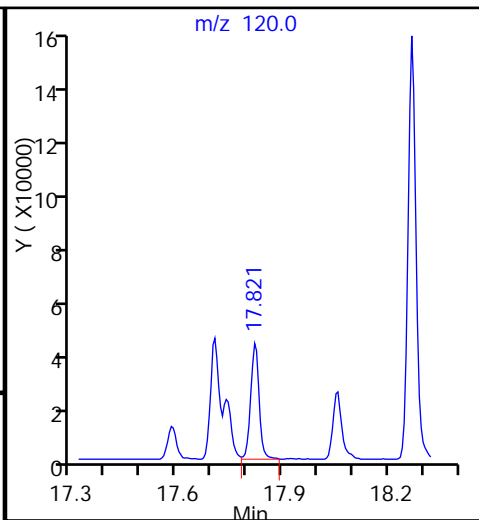
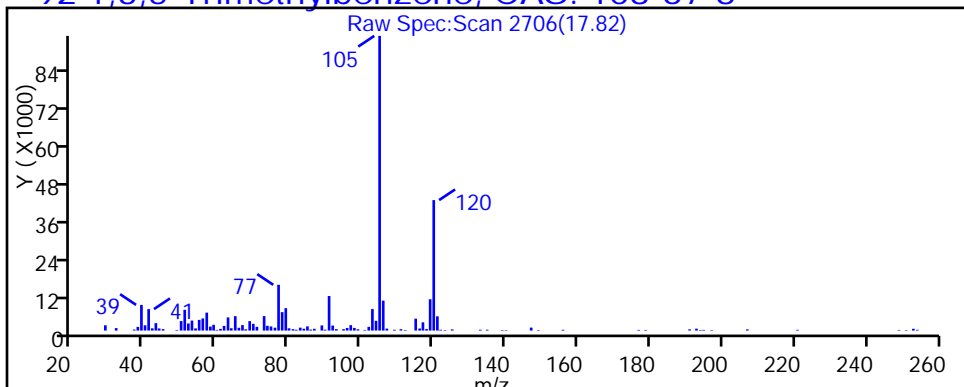
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

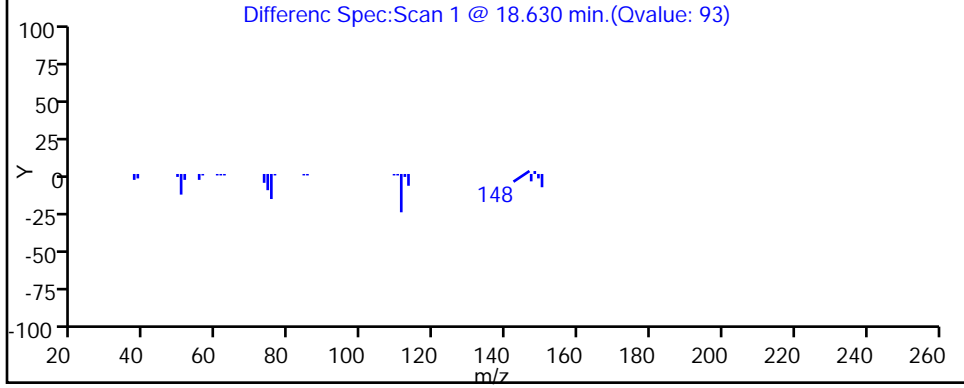
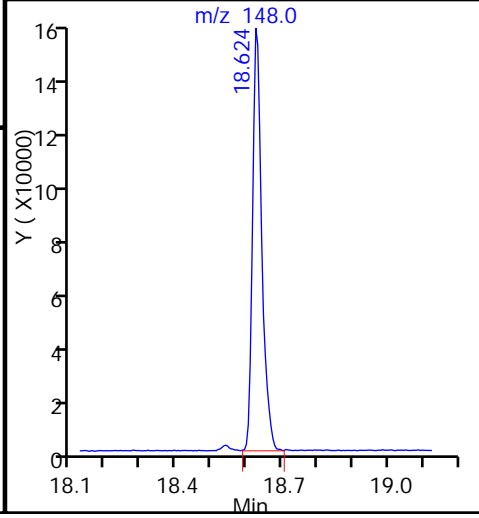
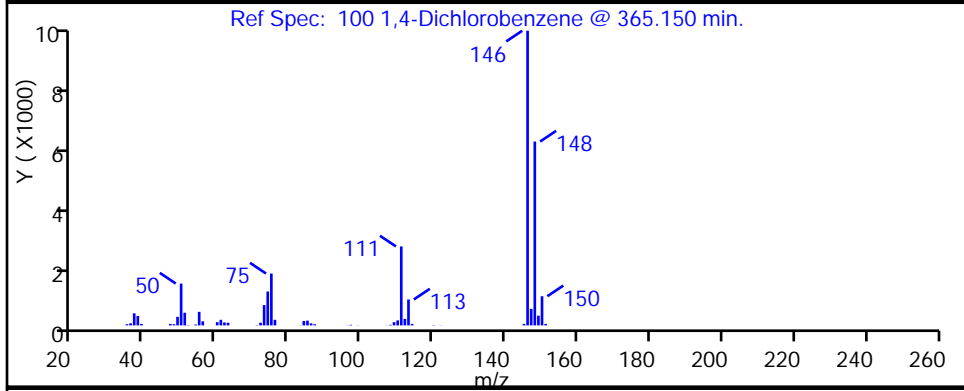
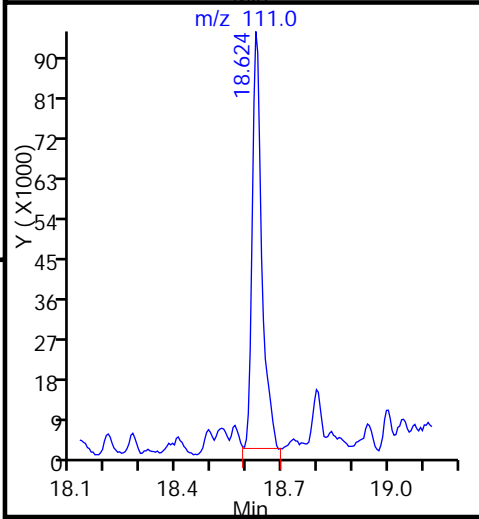
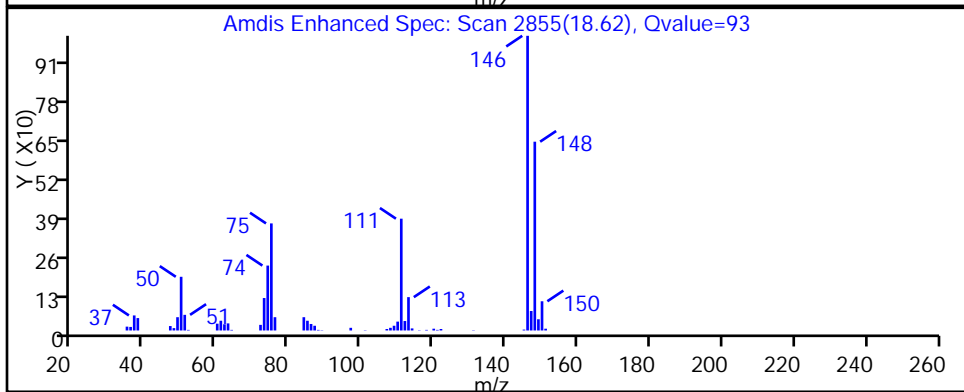
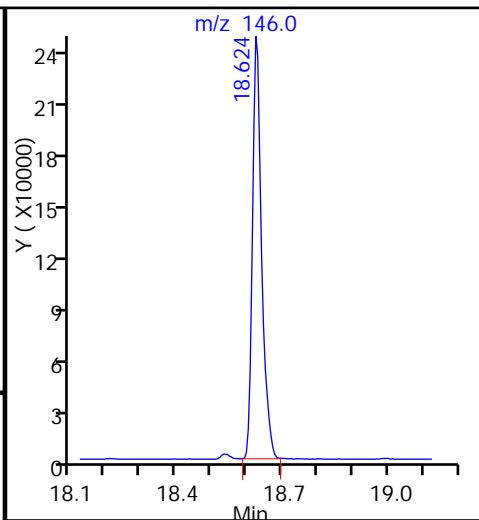
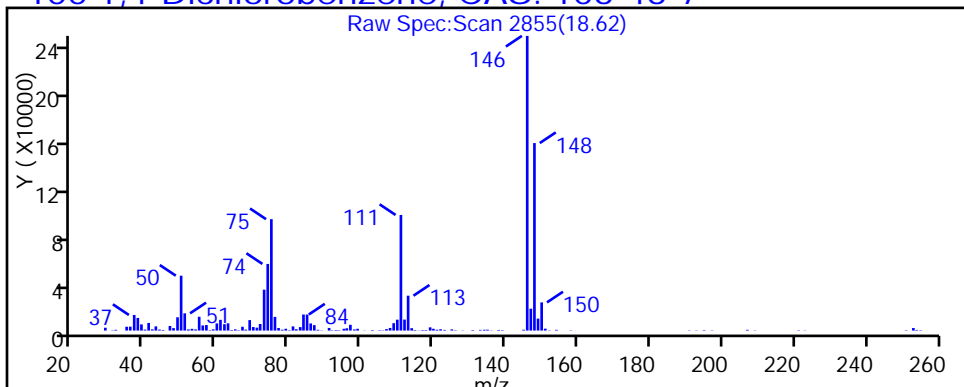
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

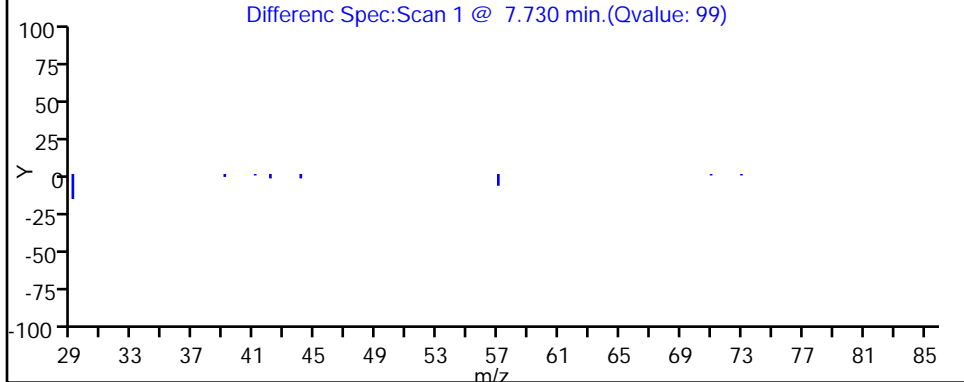
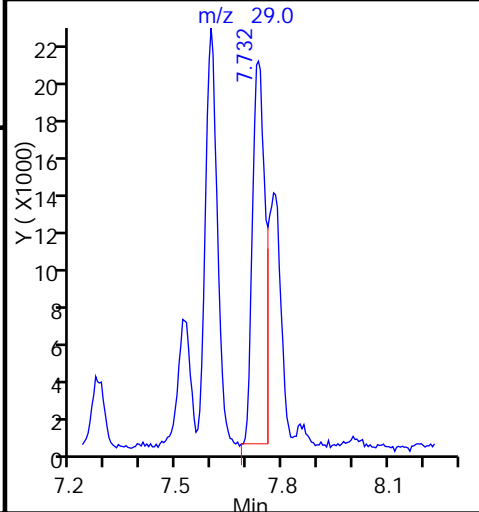
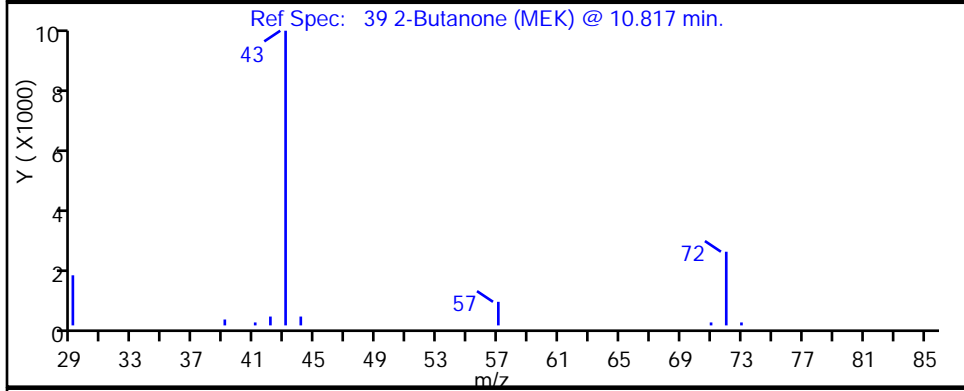
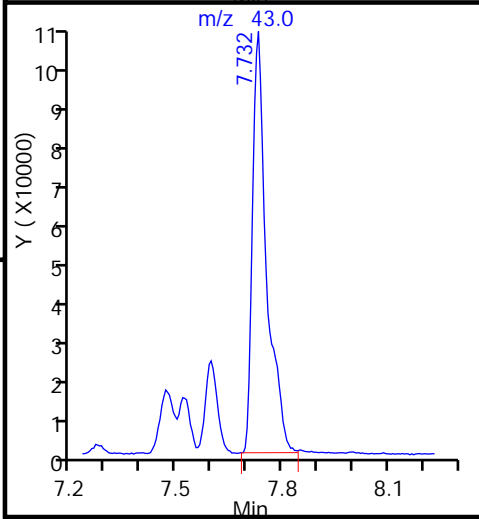
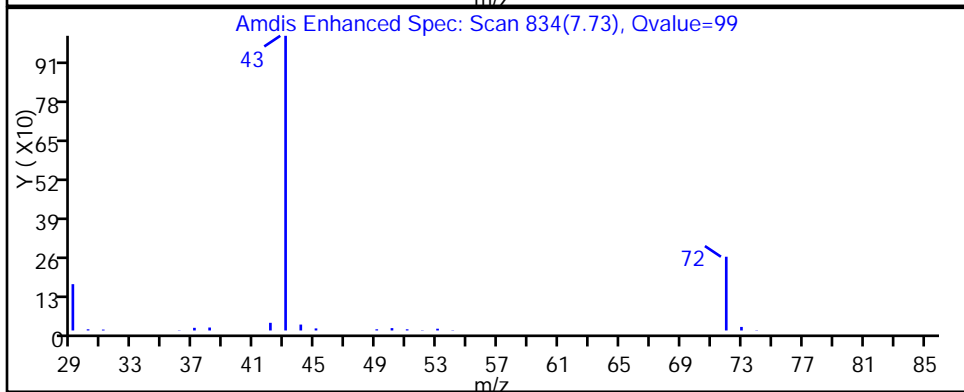
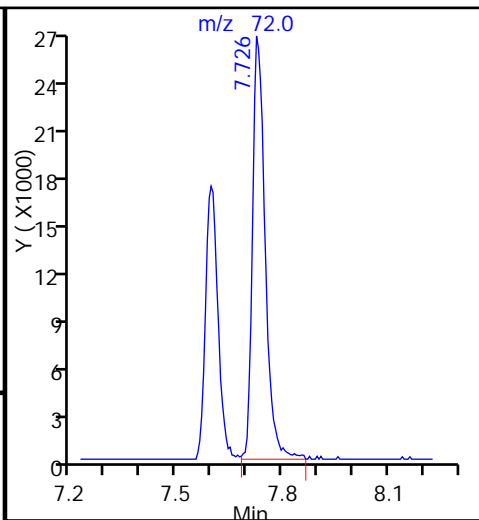
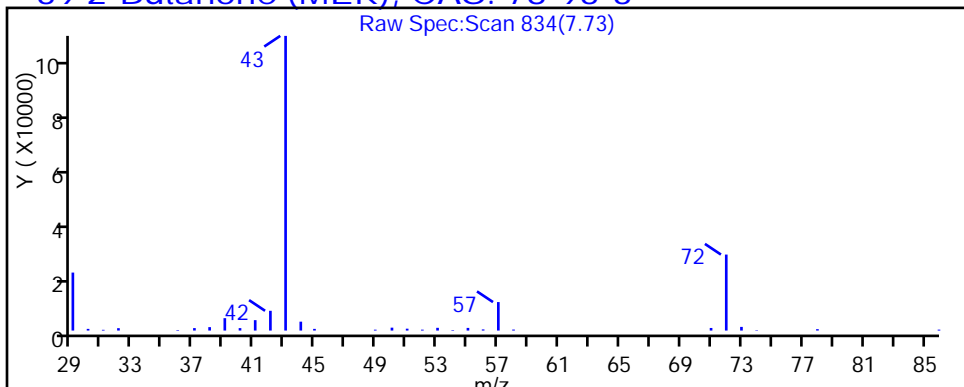
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

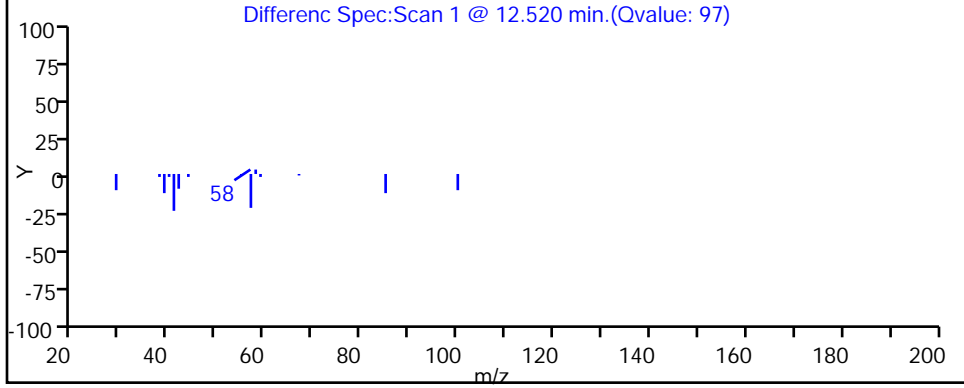
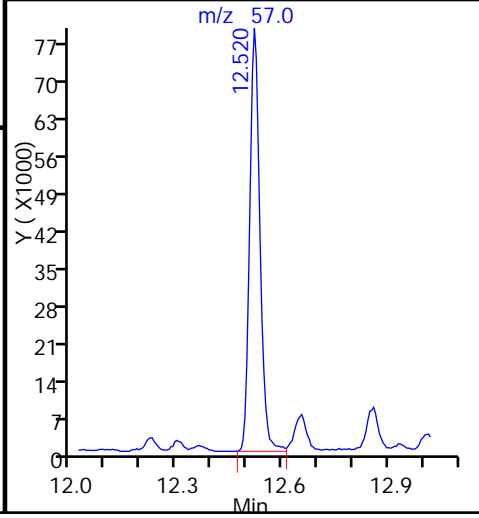
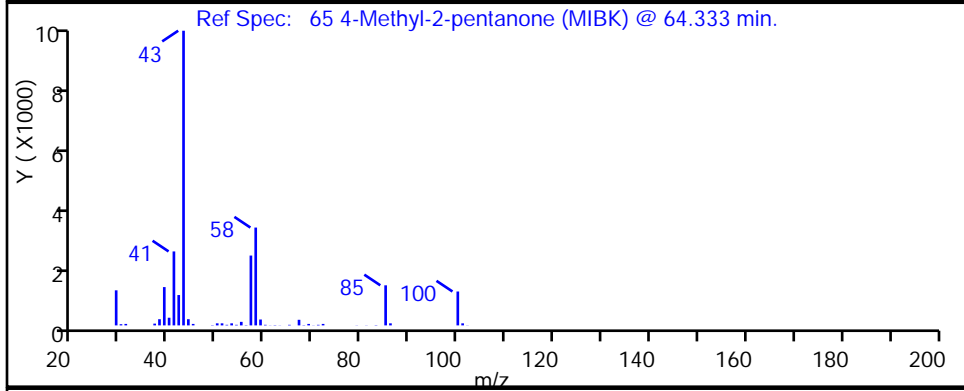
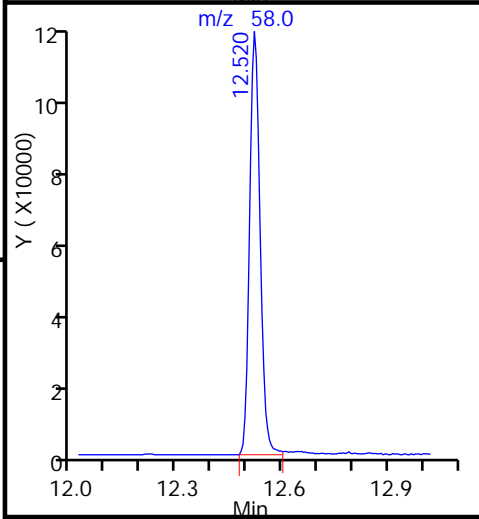
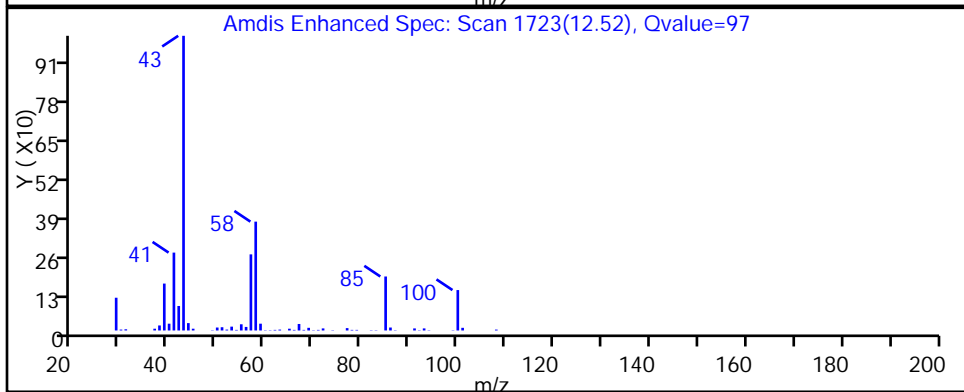
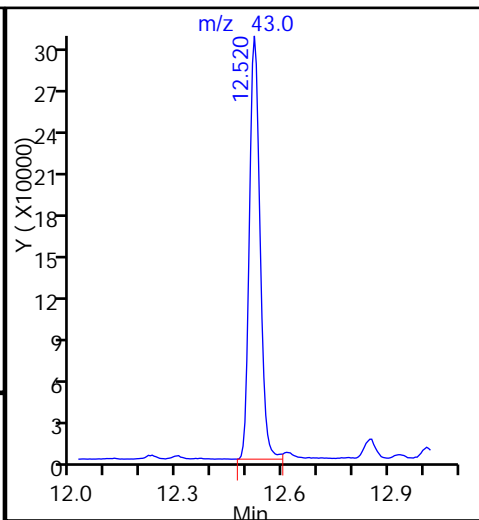
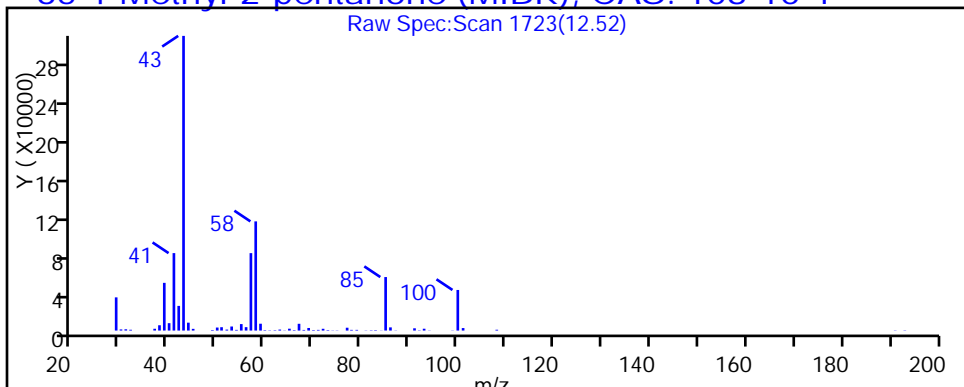
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

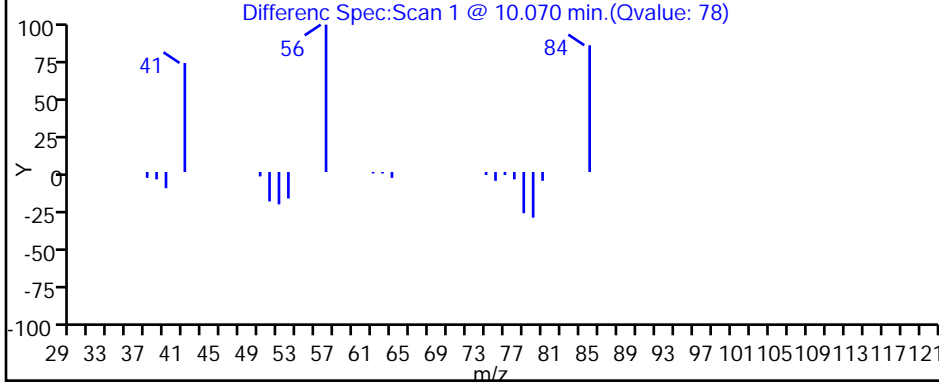
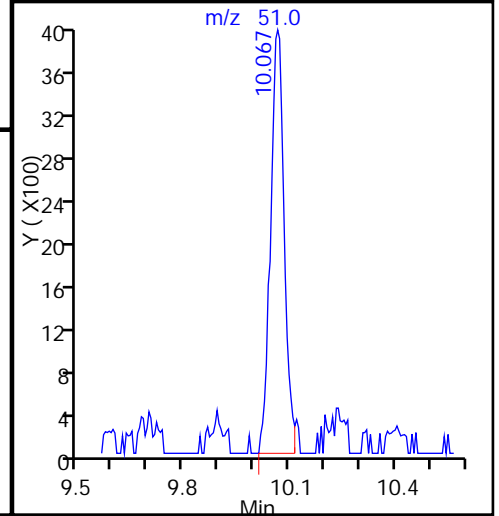
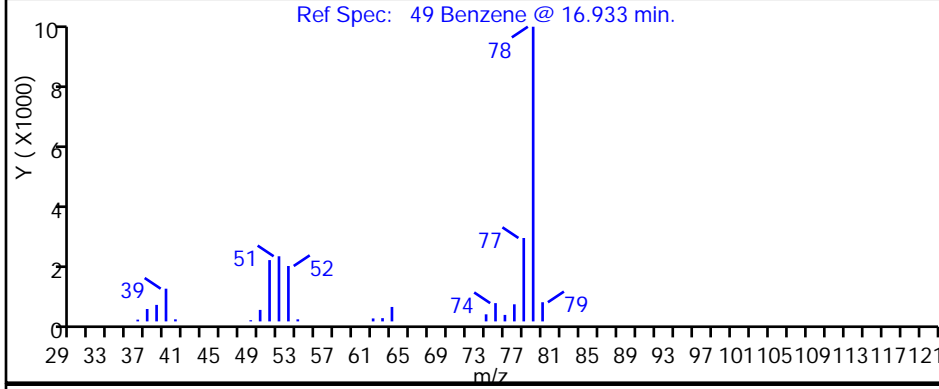
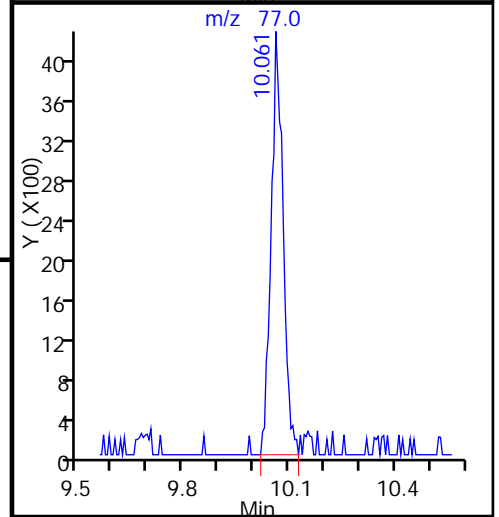
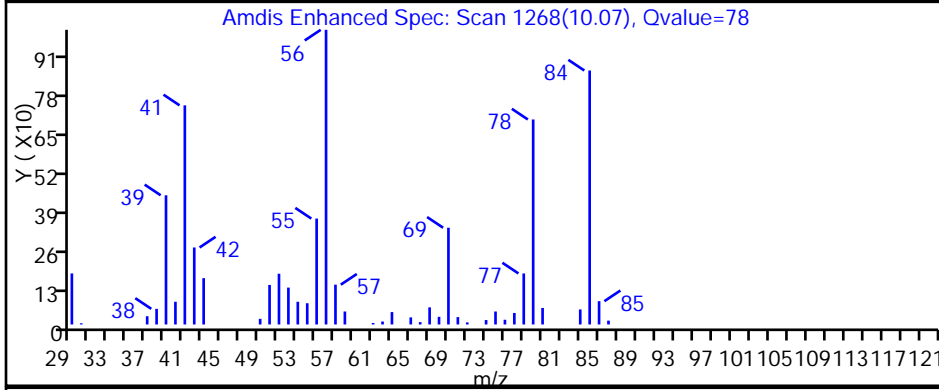
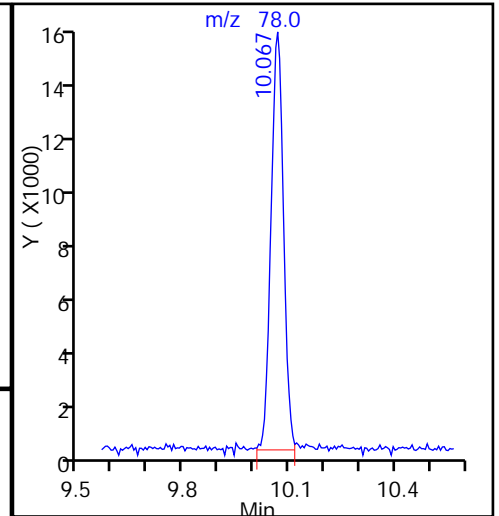
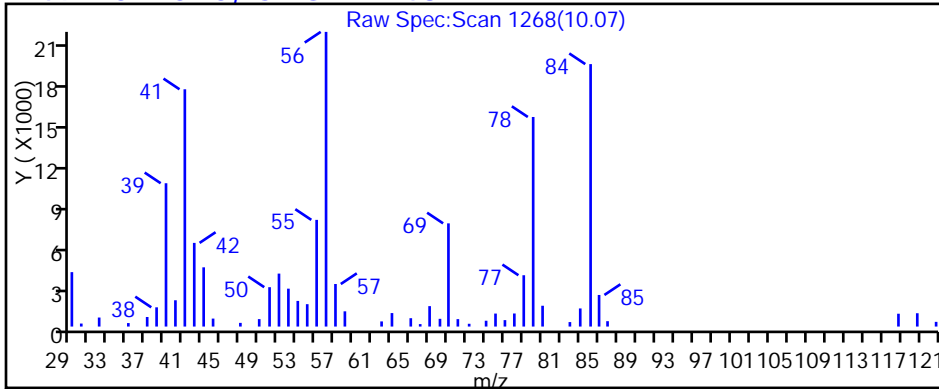
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

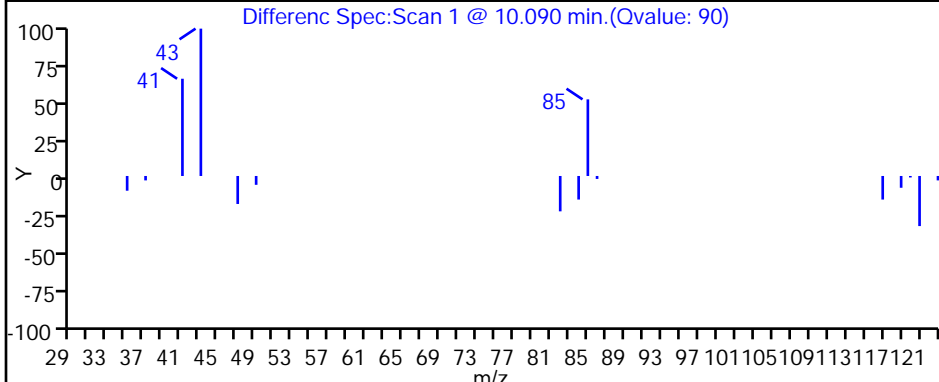
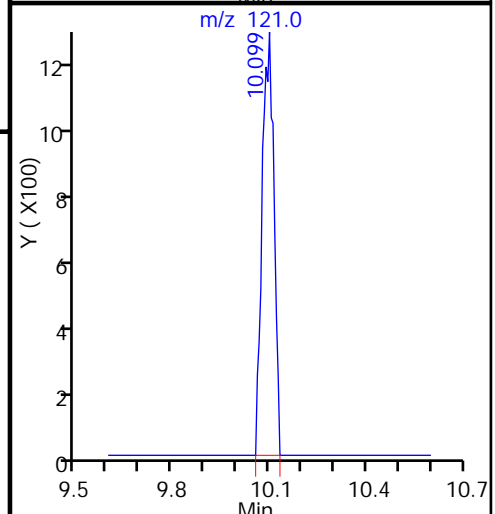
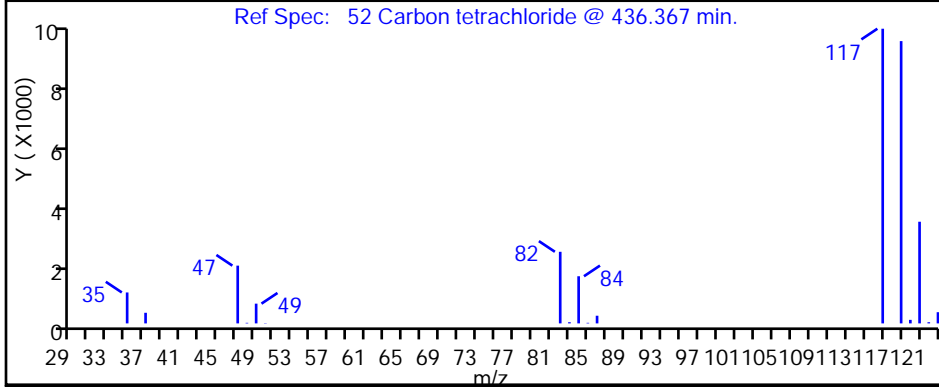
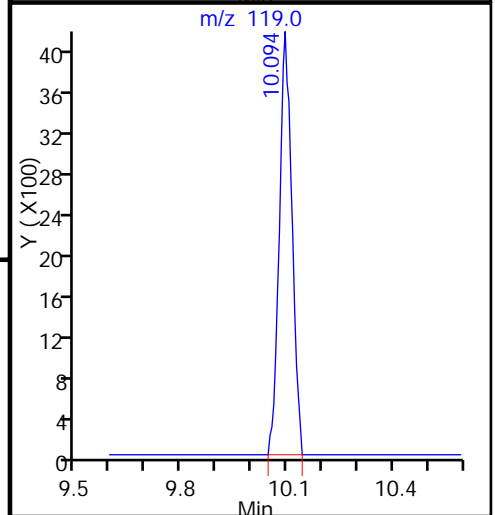
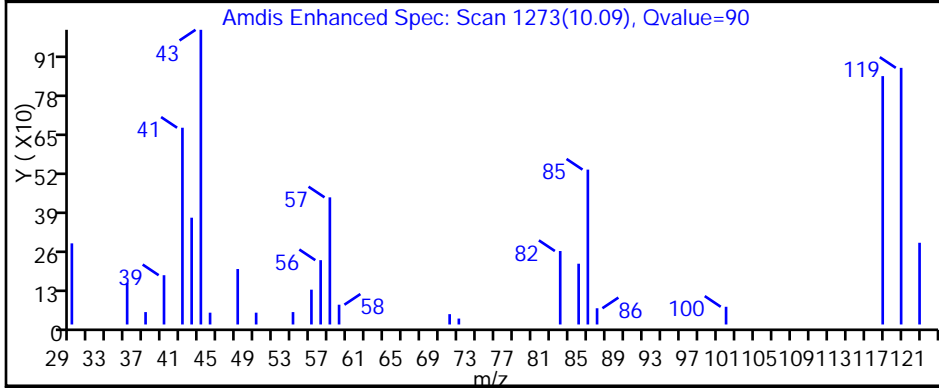
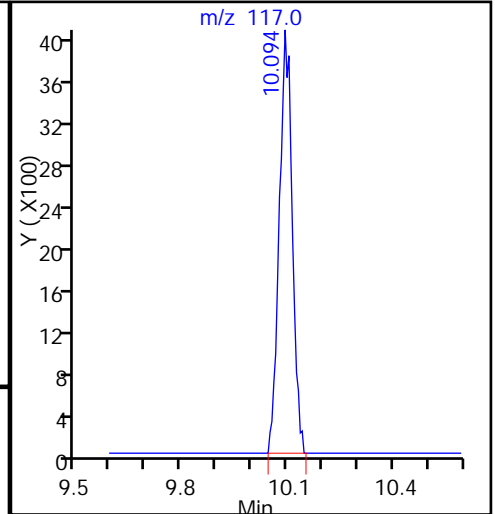
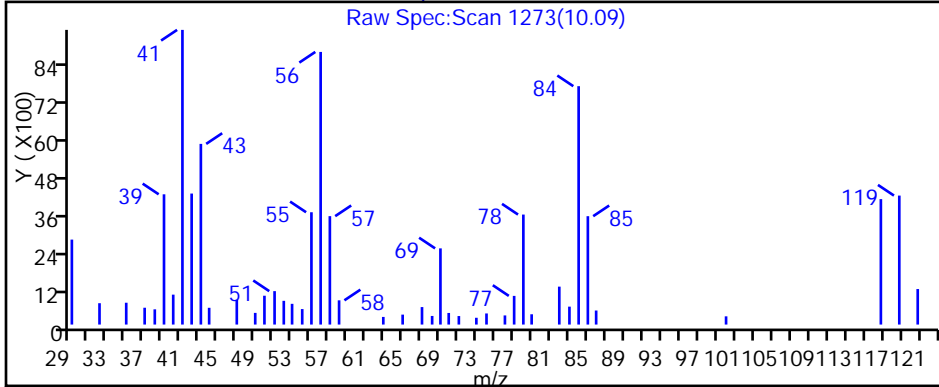
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

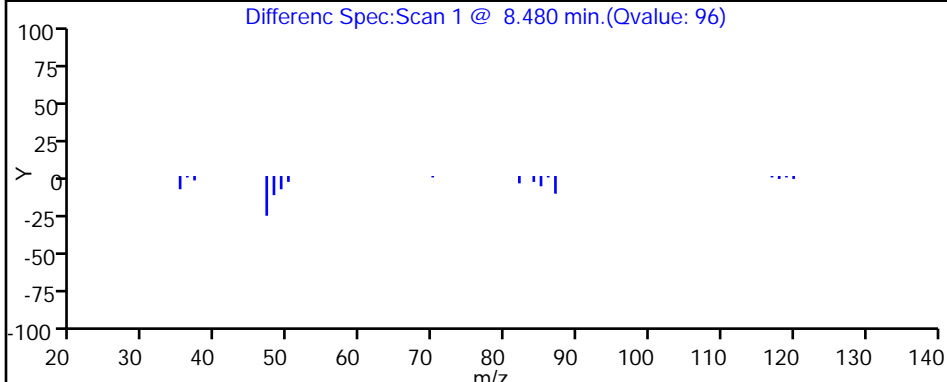
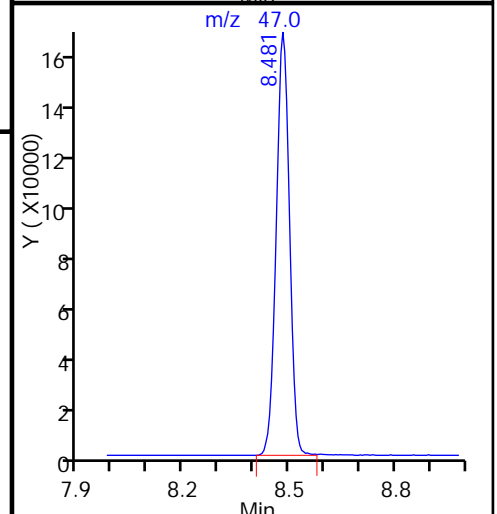
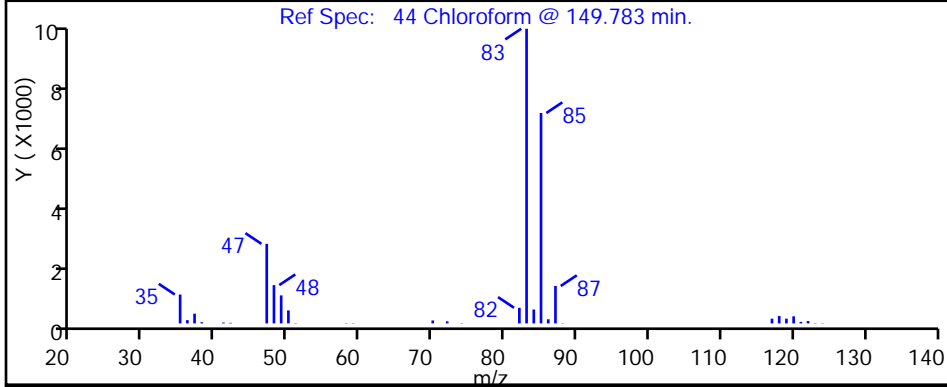
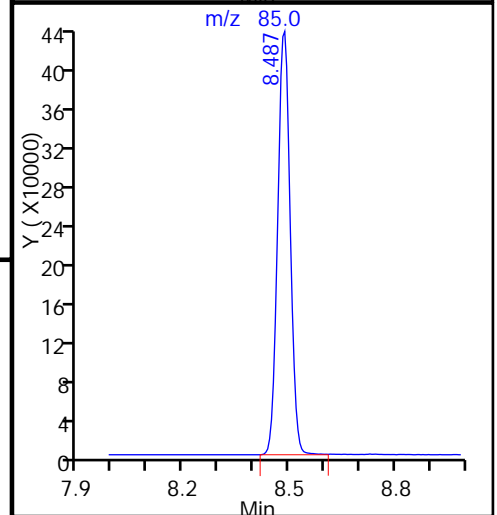
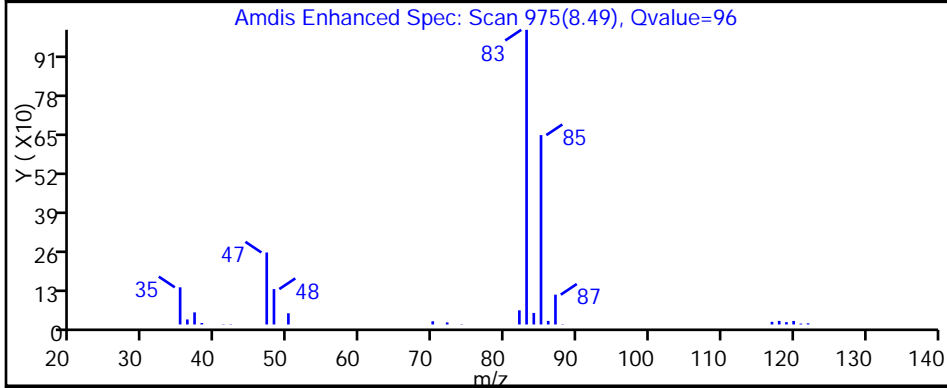
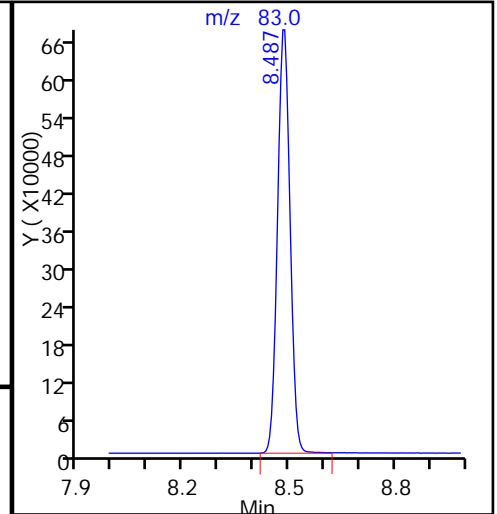
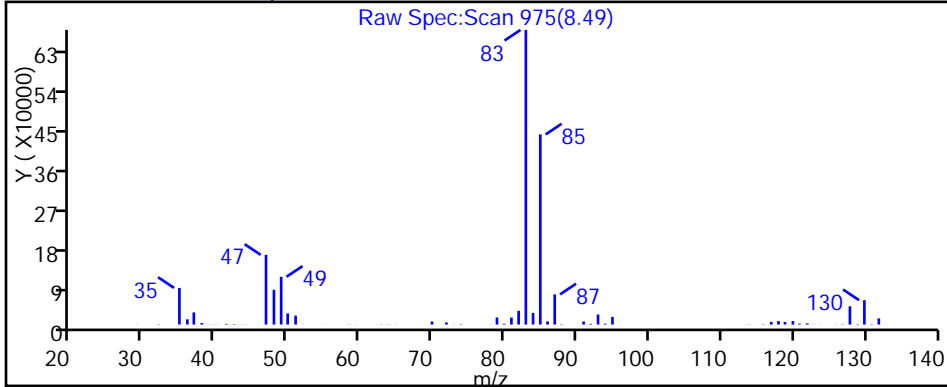
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3 Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

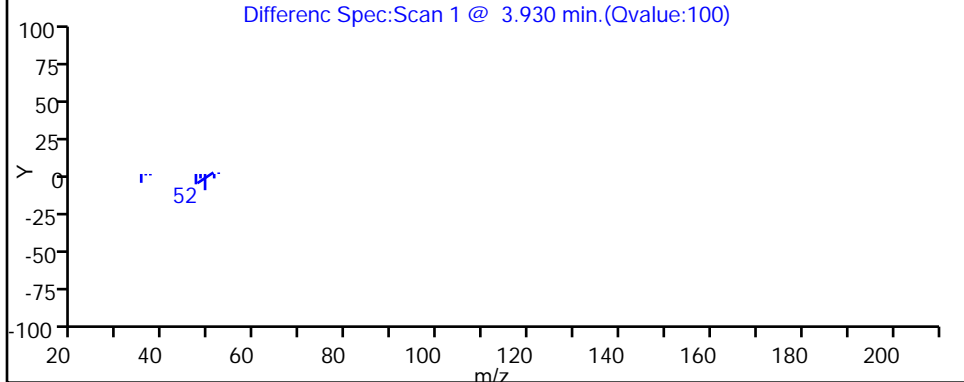
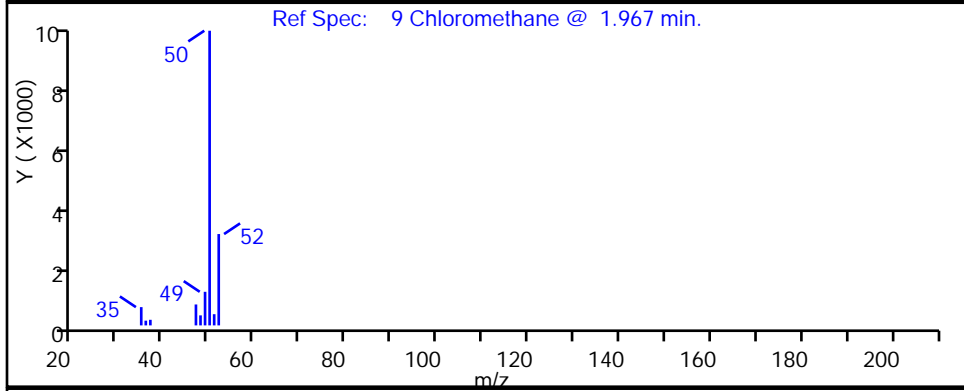
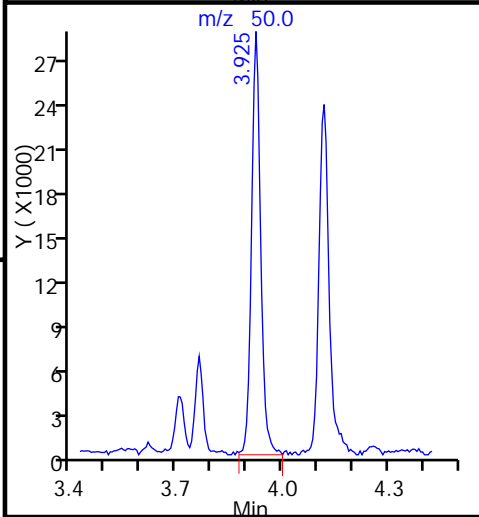
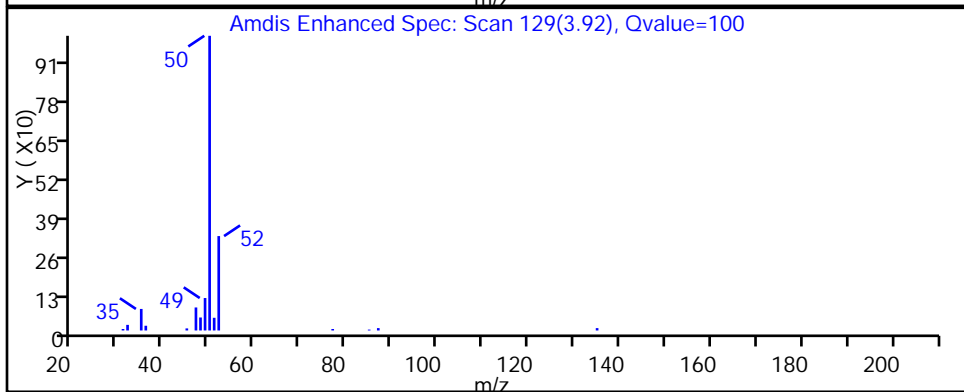
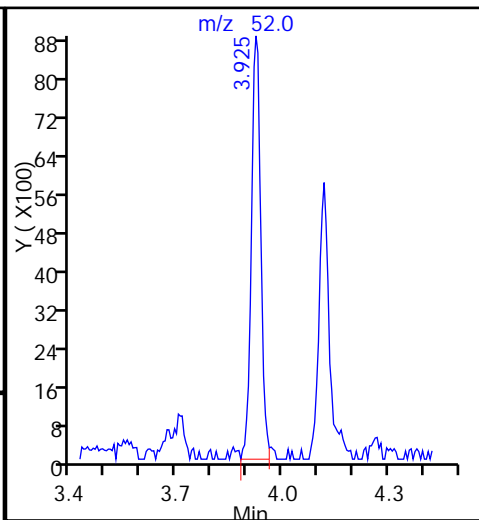
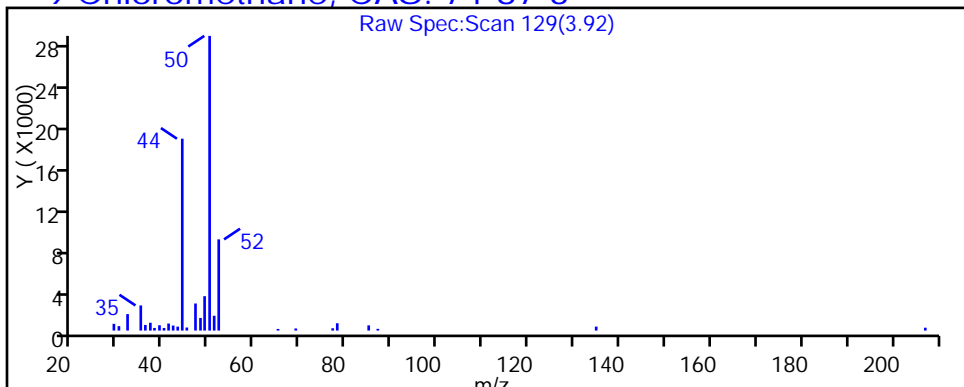
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

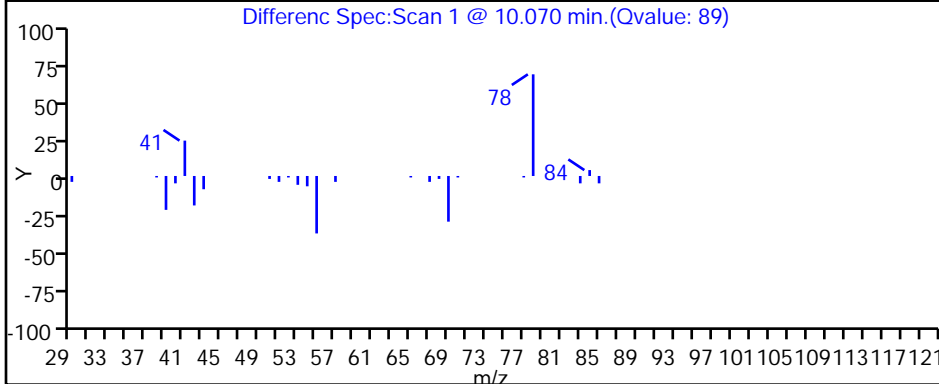
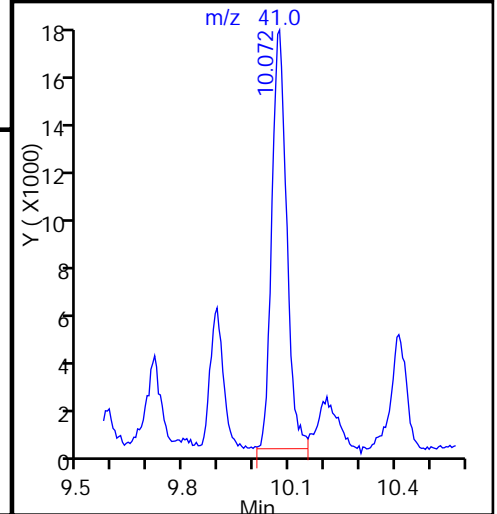
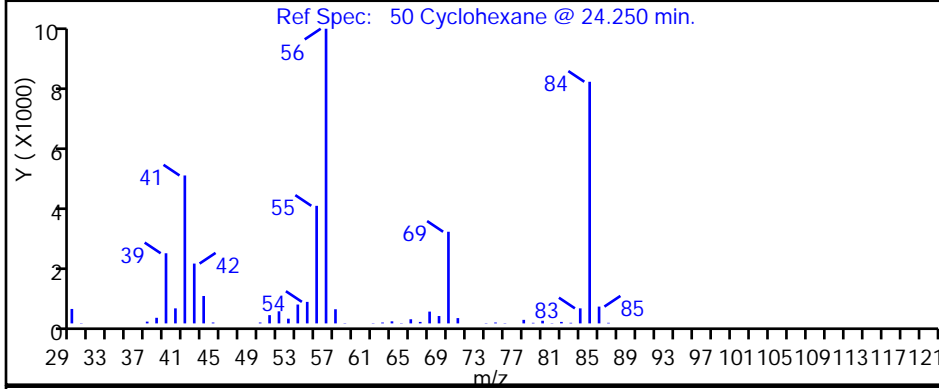
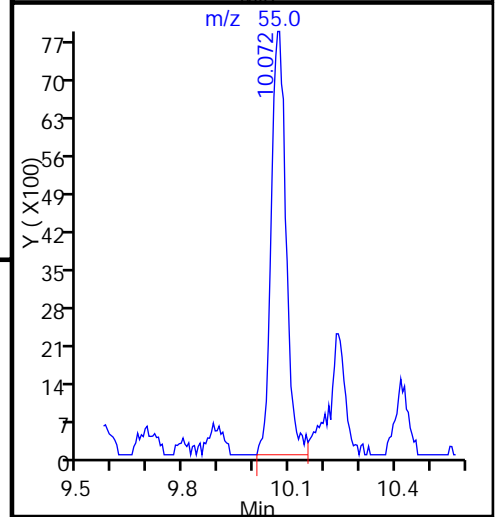
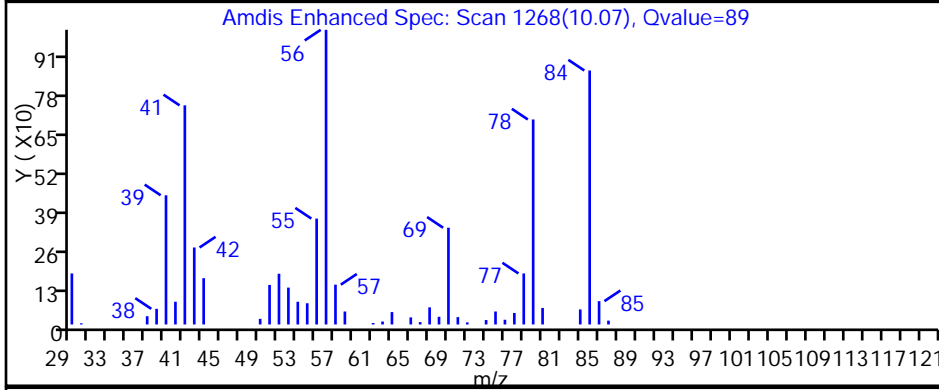
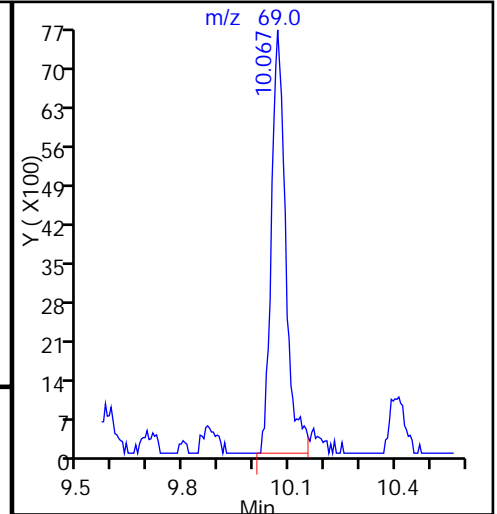
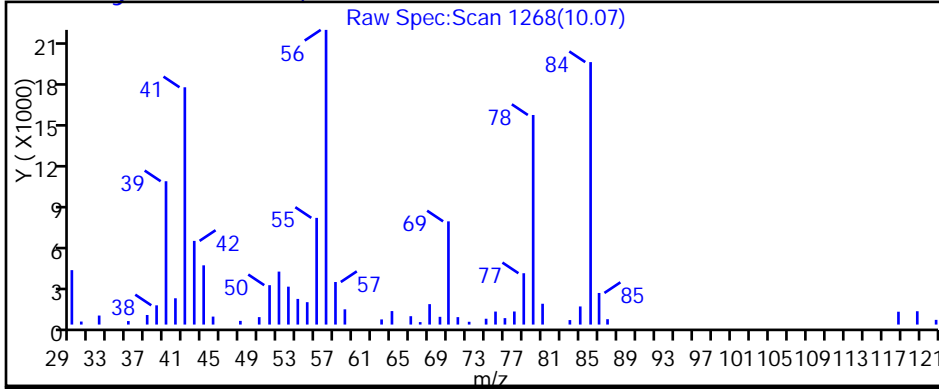
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

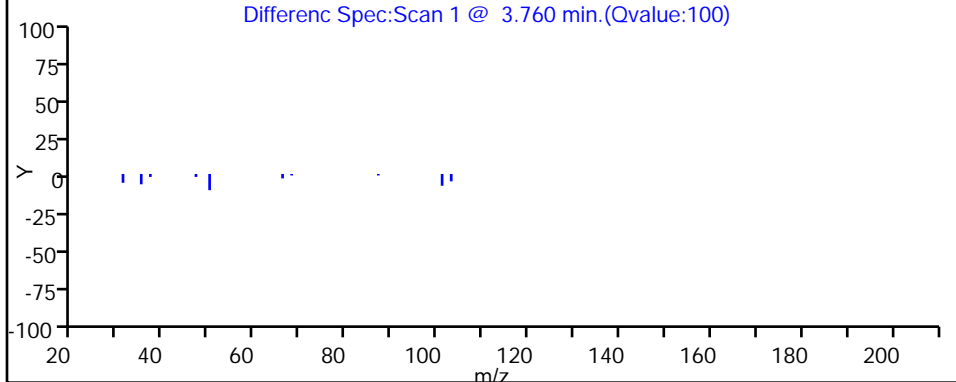
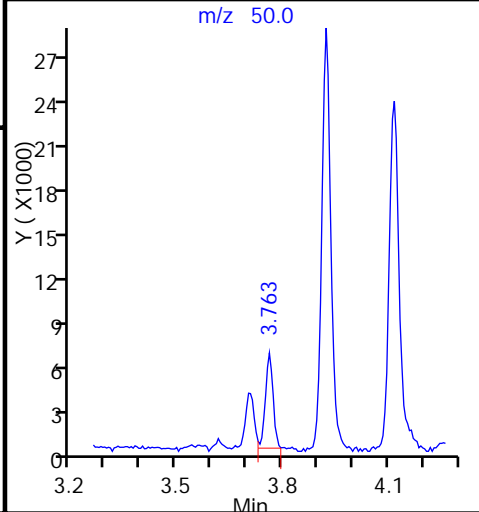
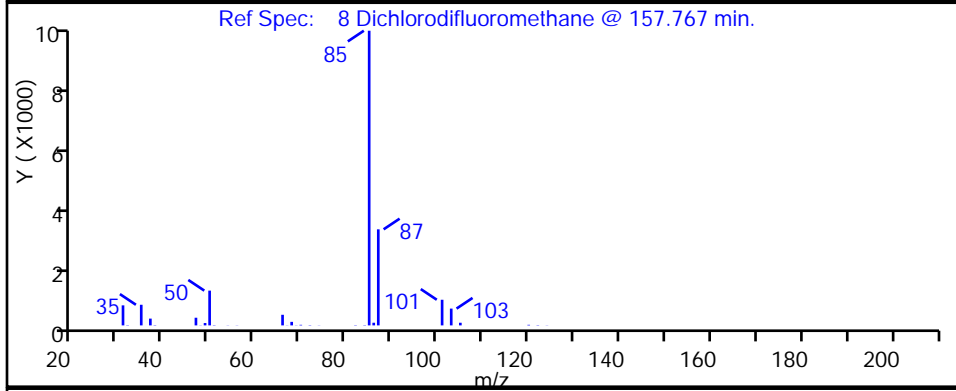
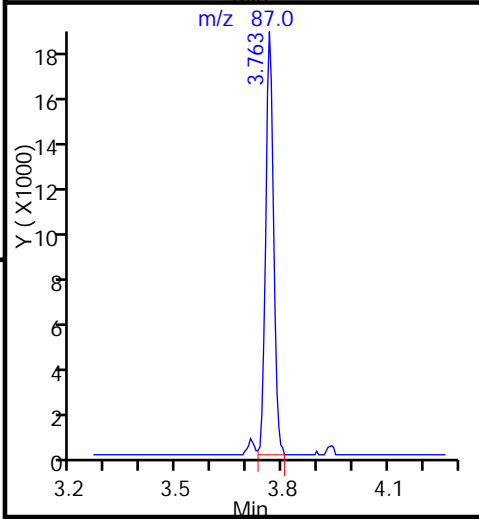
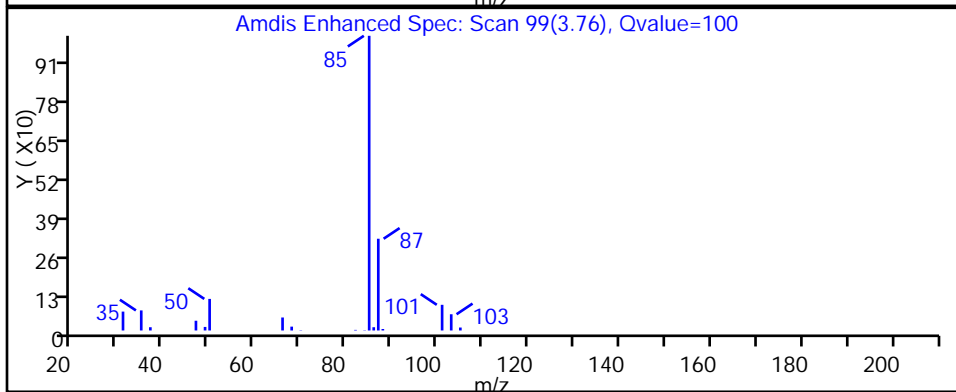
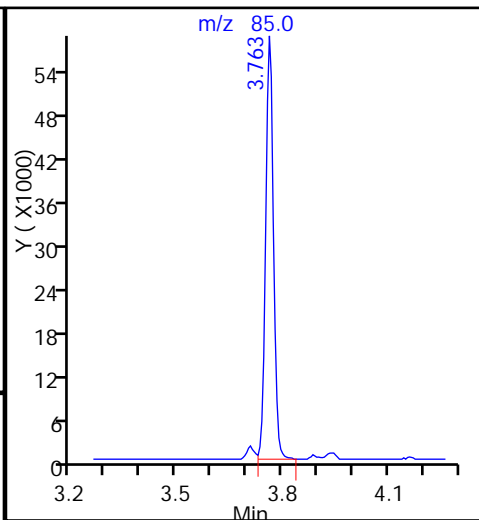
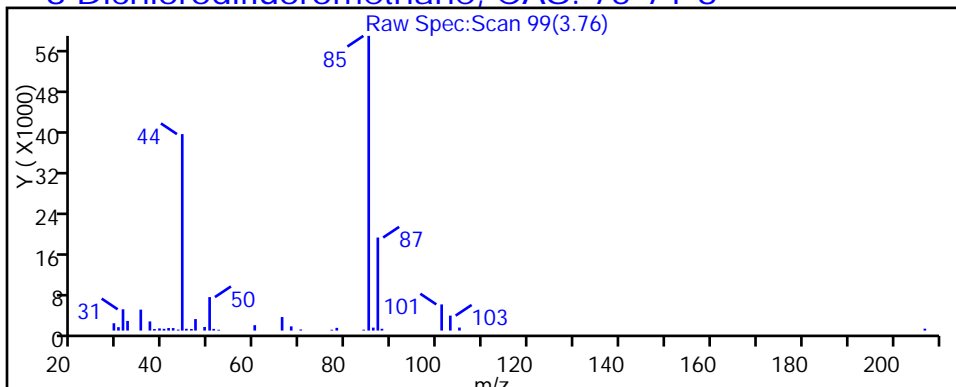
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

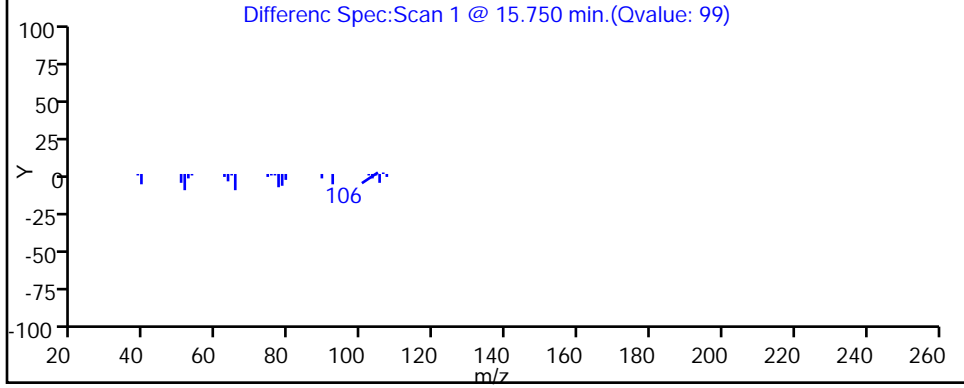
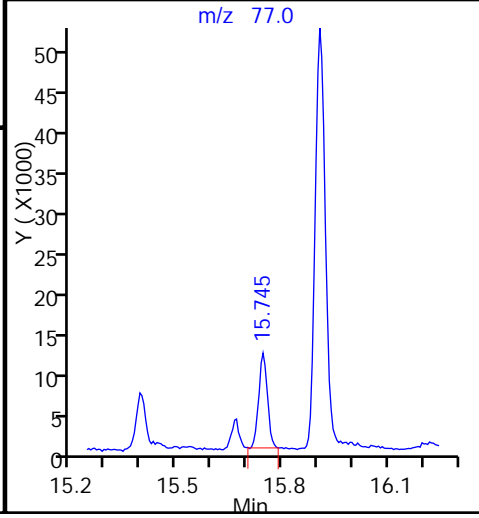
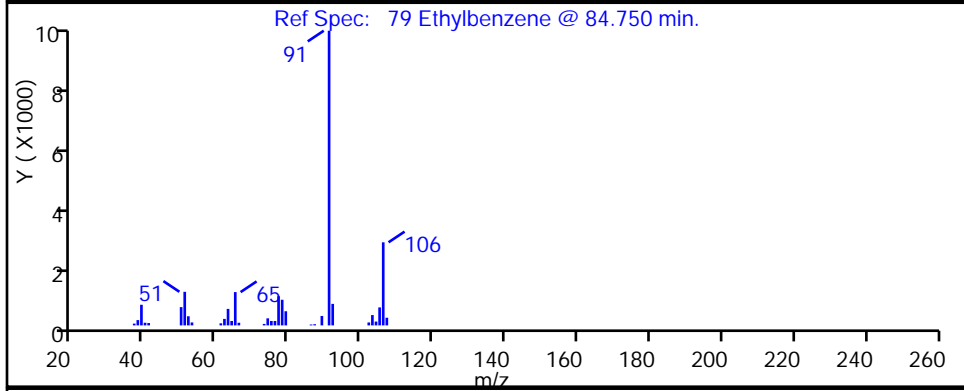
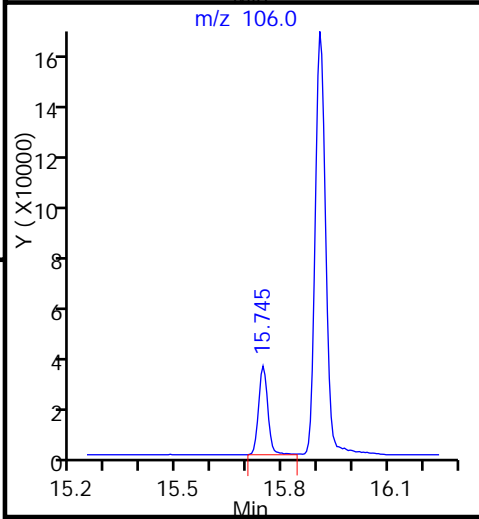
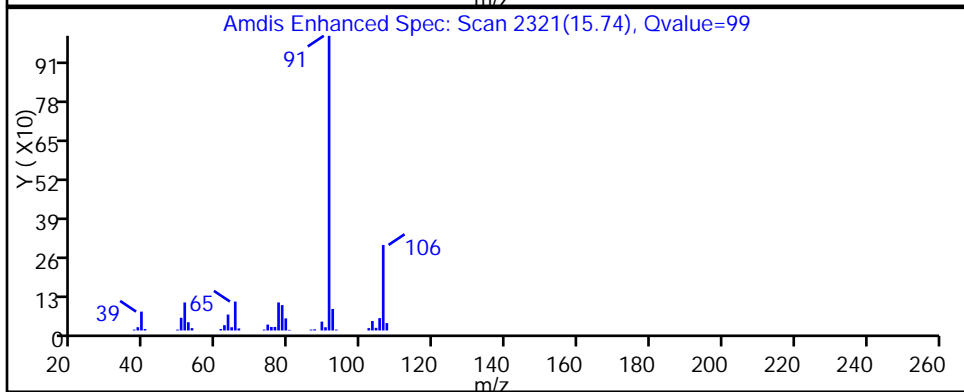
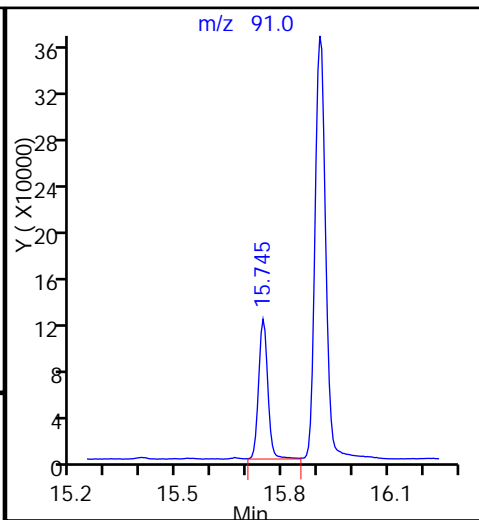
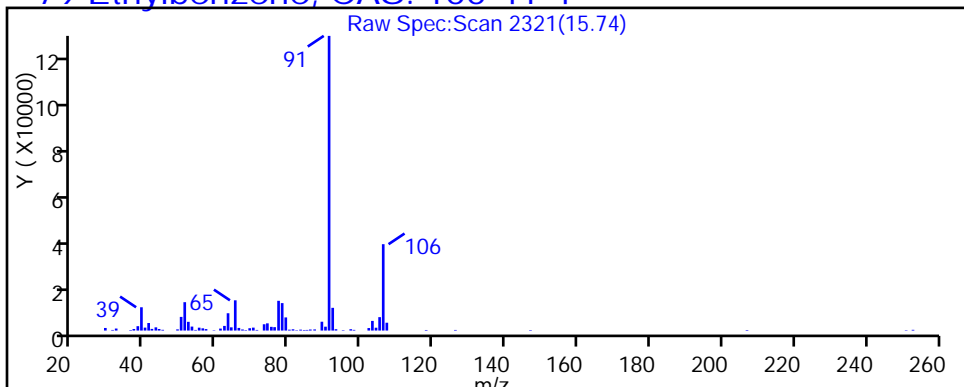
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

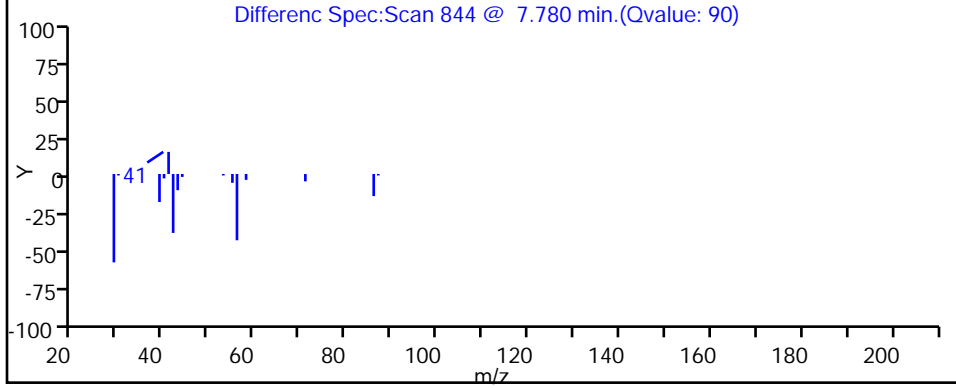
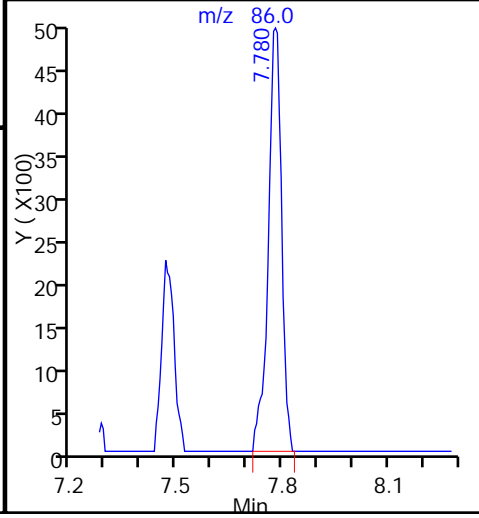
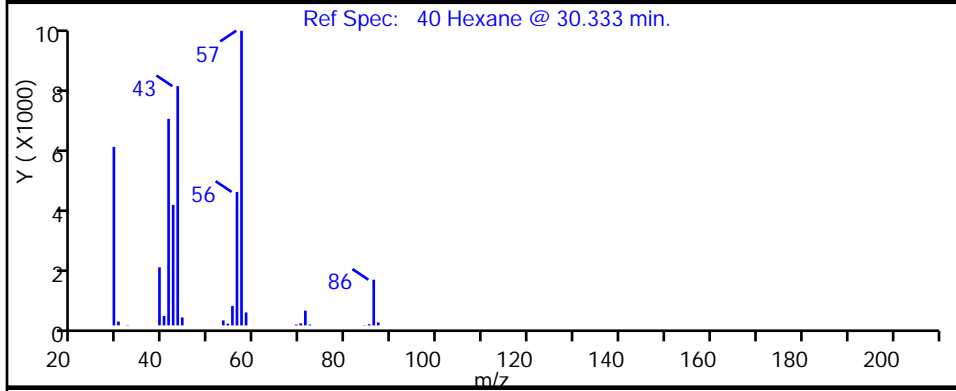
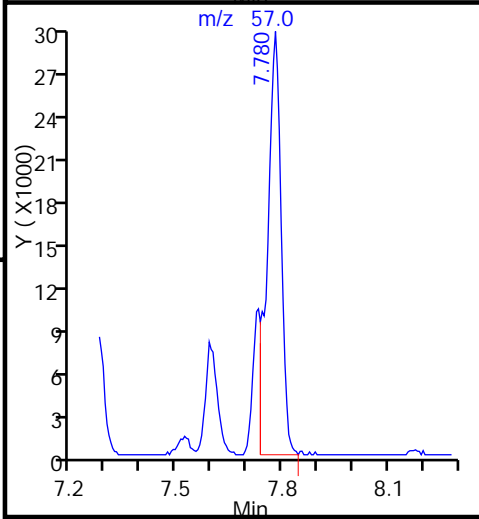
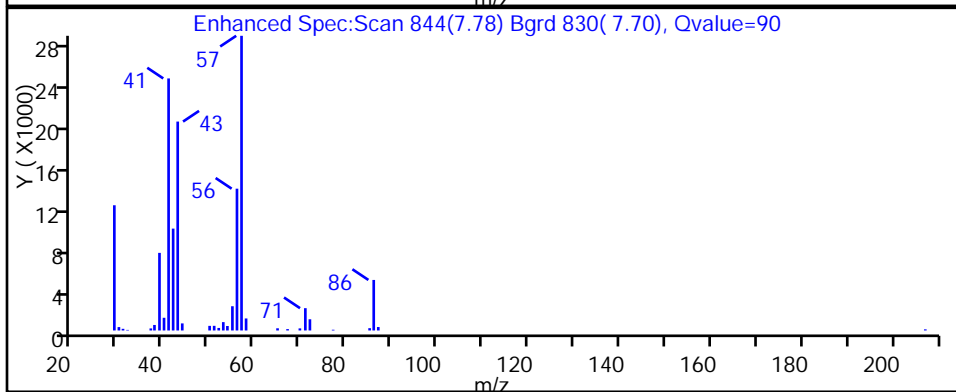
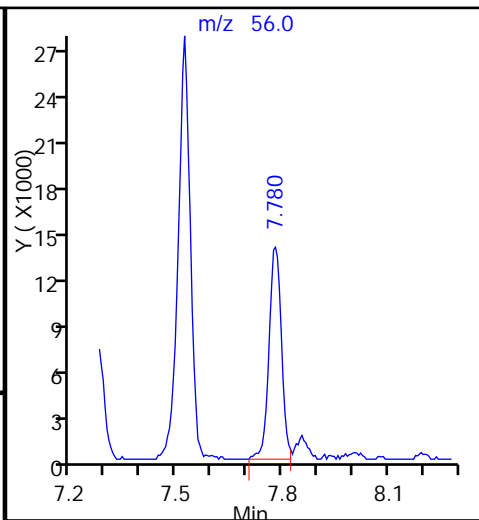
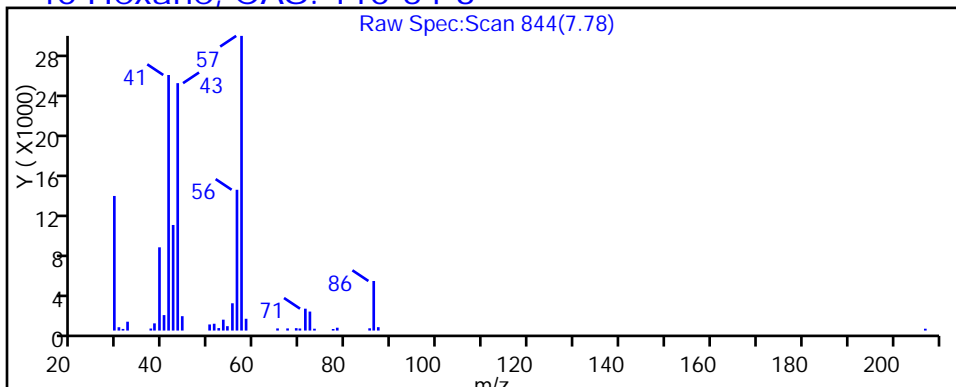
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

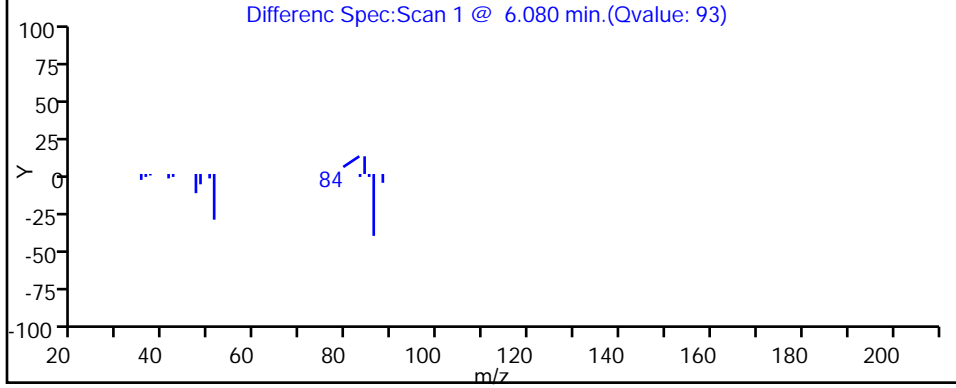
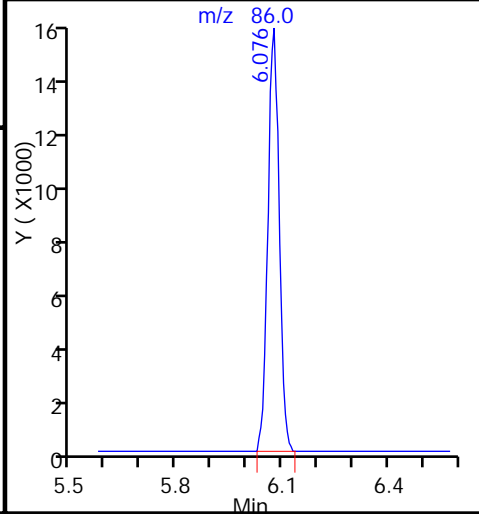
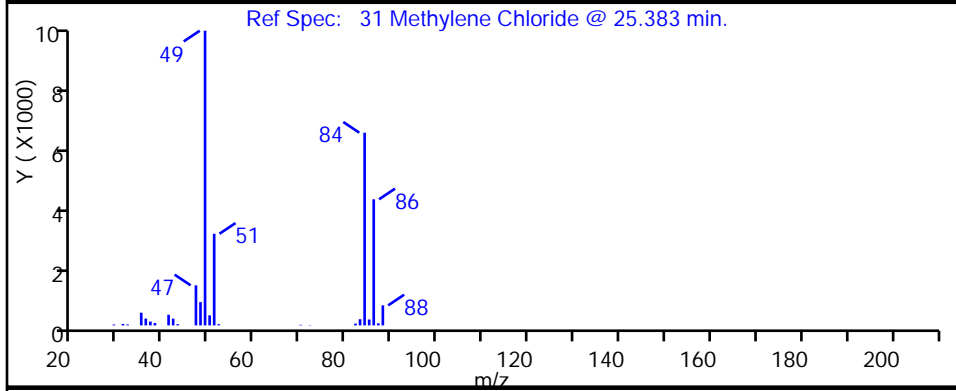
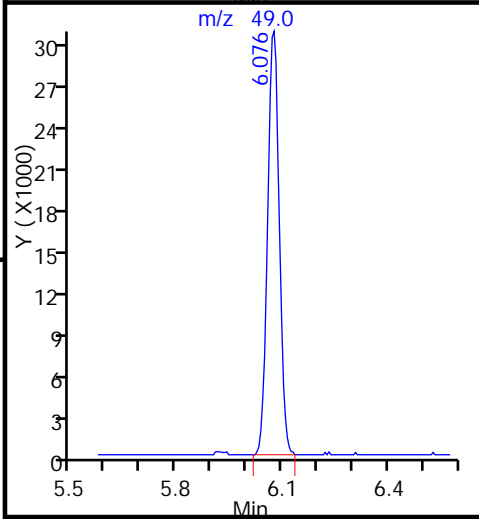
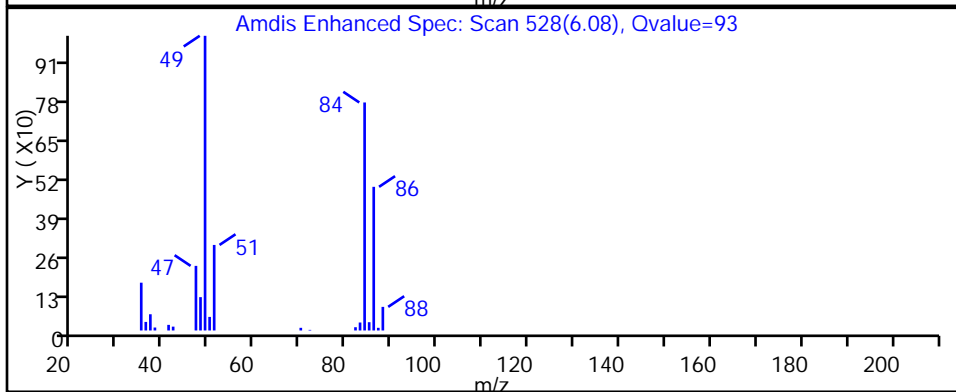
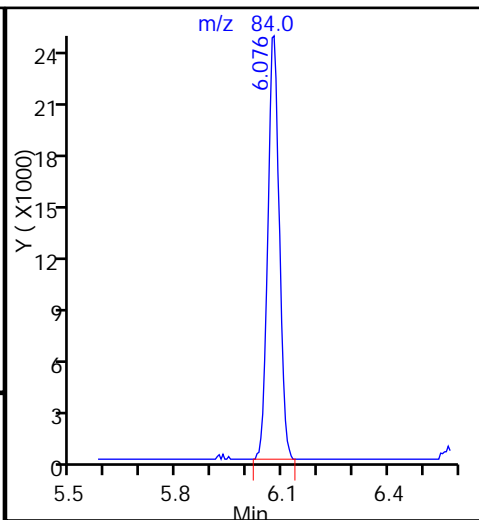
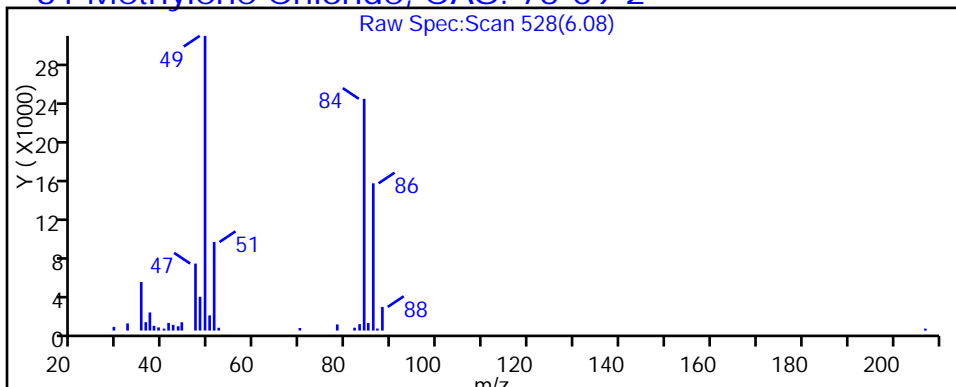
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

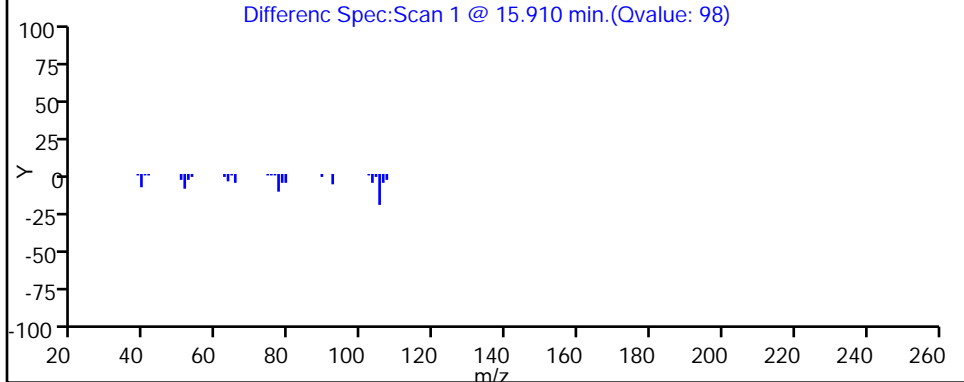
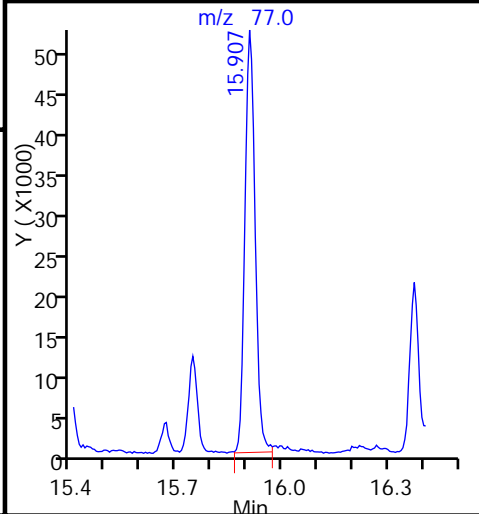
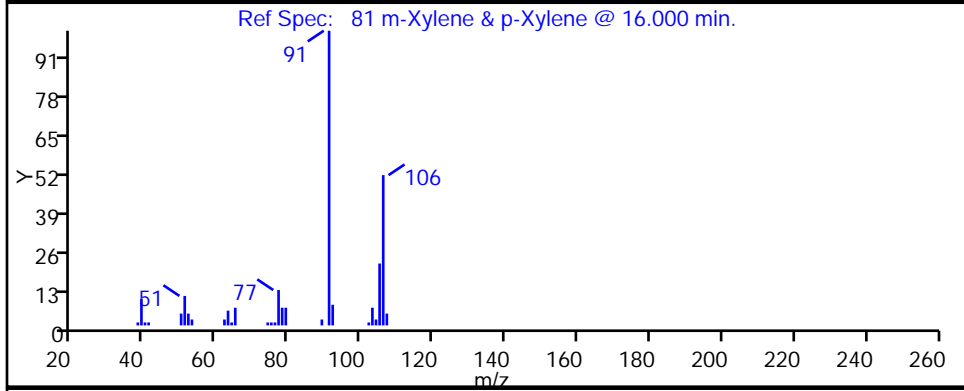
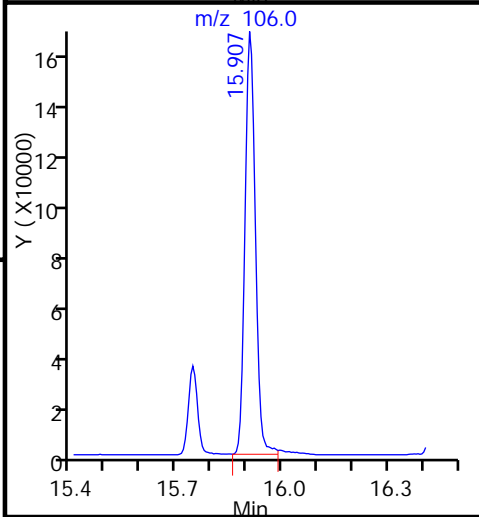
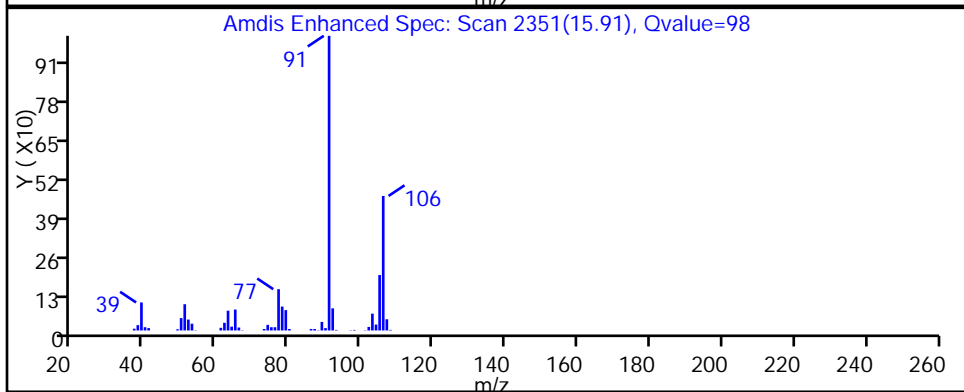
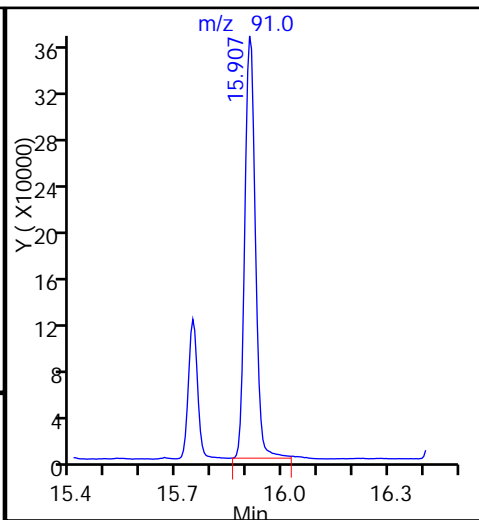
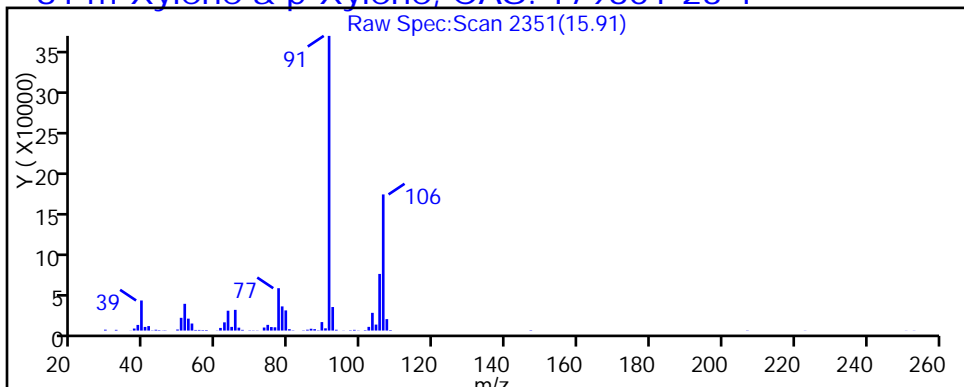
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

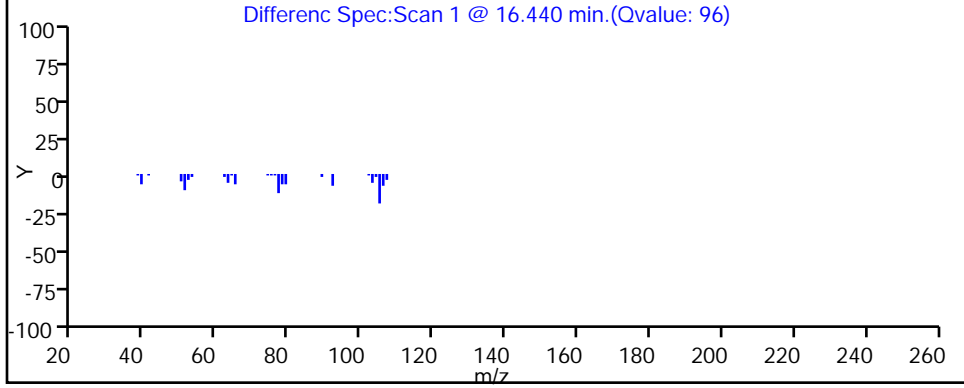
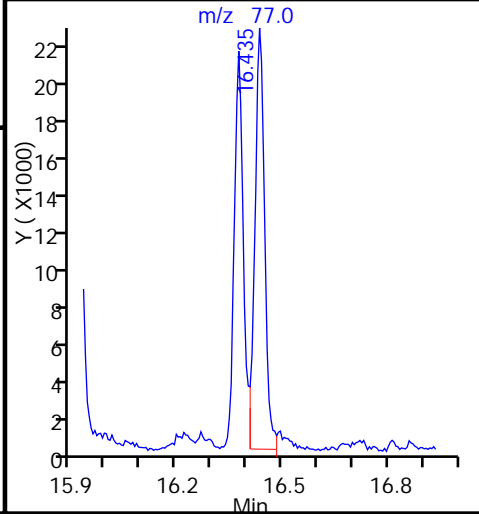
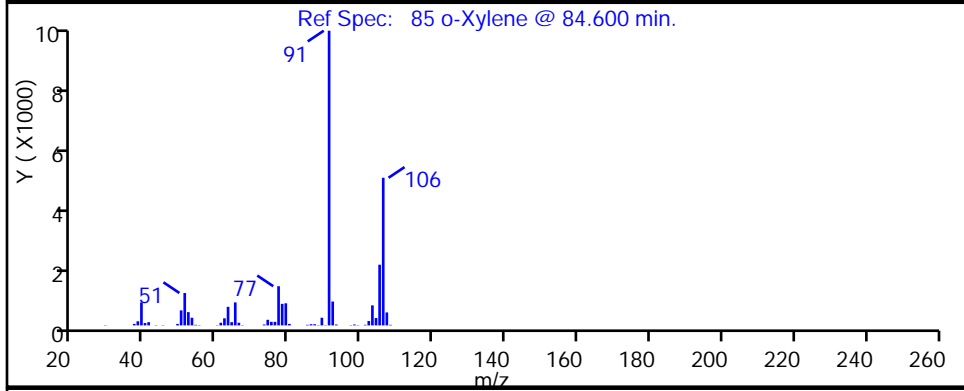
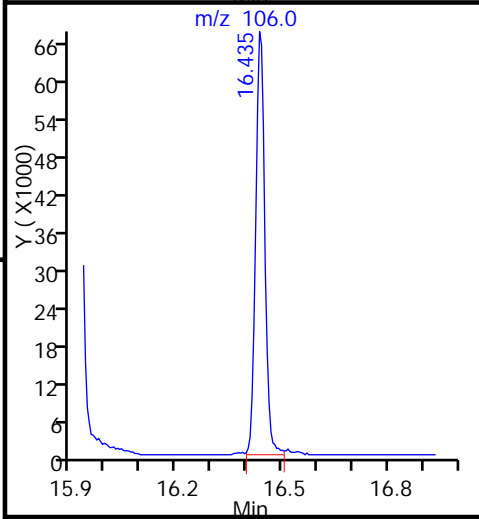
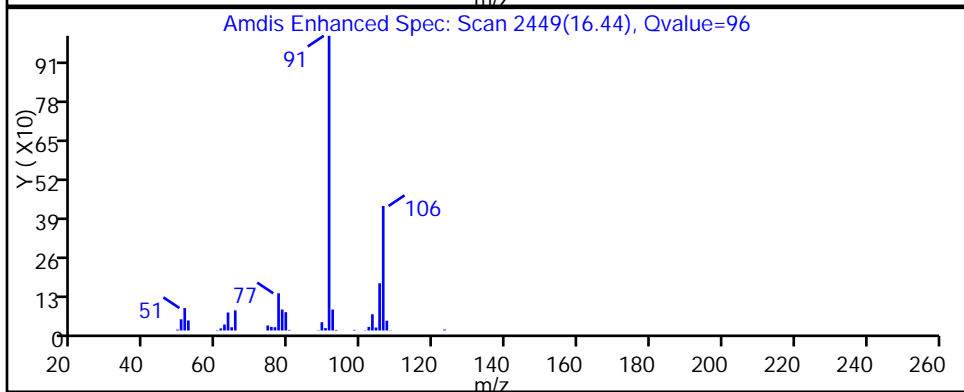
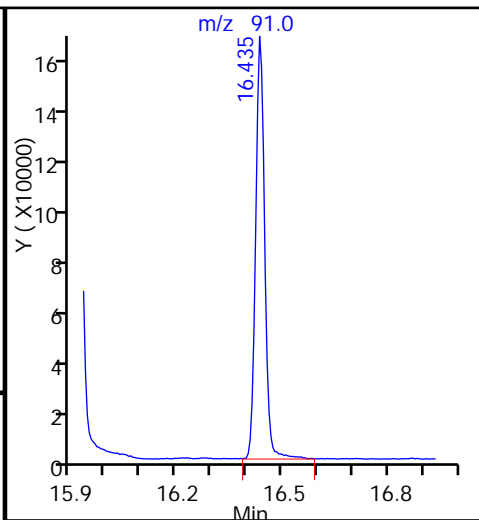
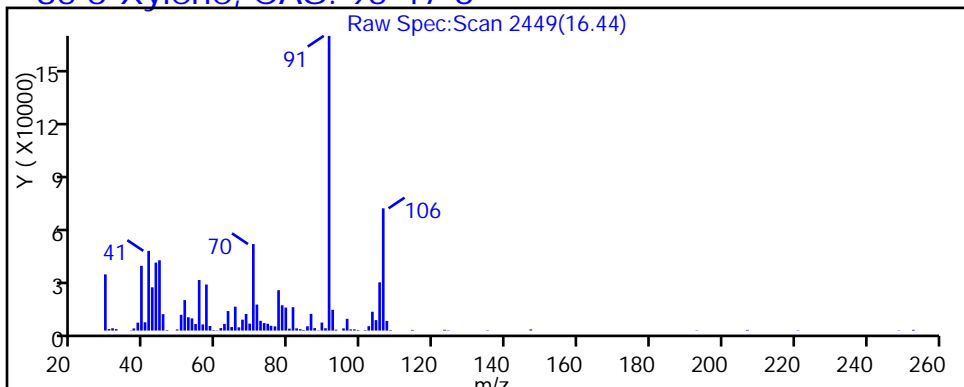
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

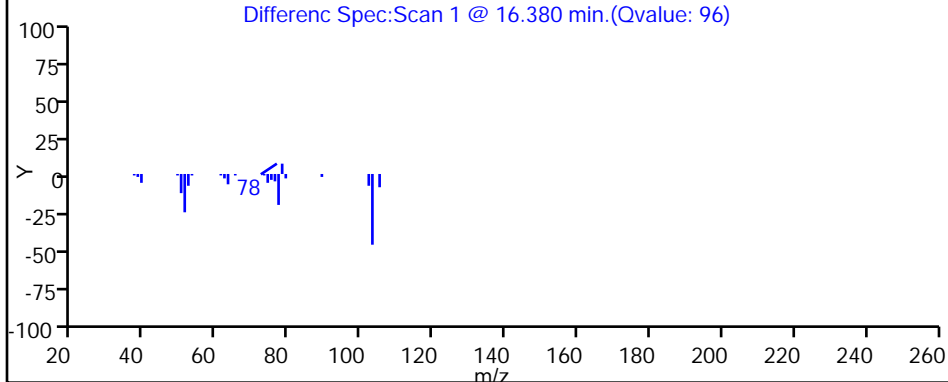
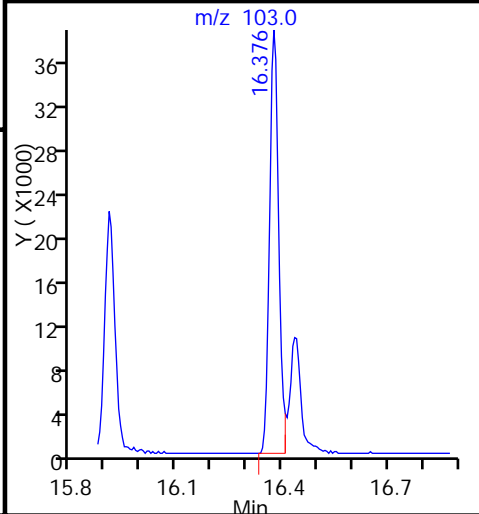
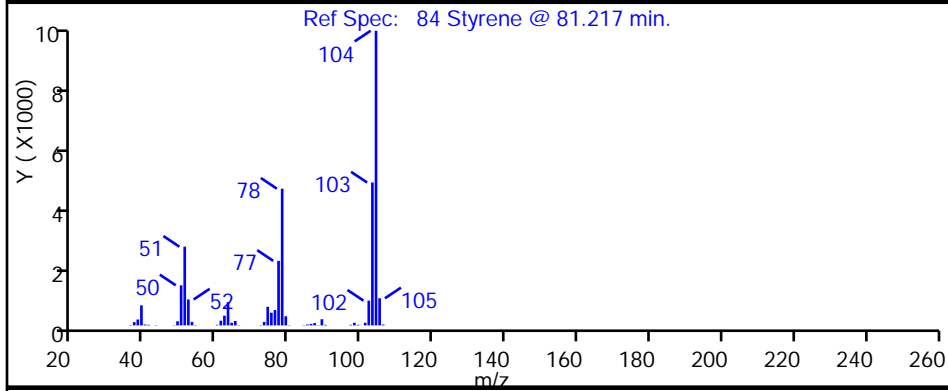
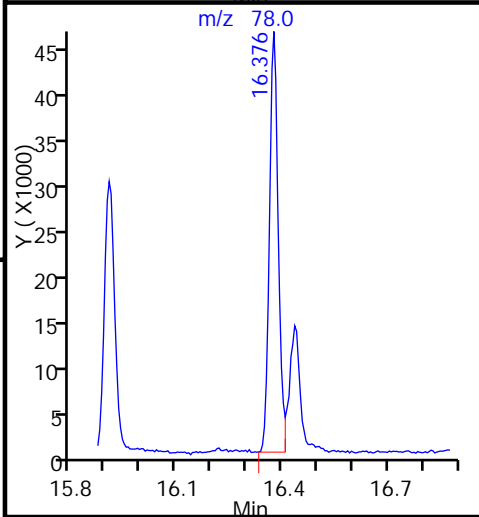
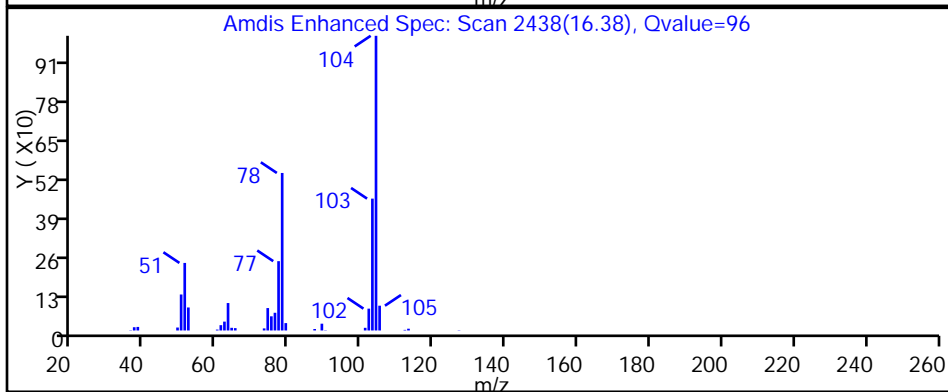
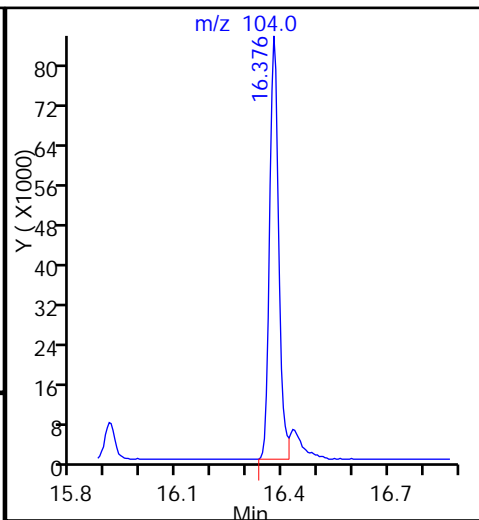
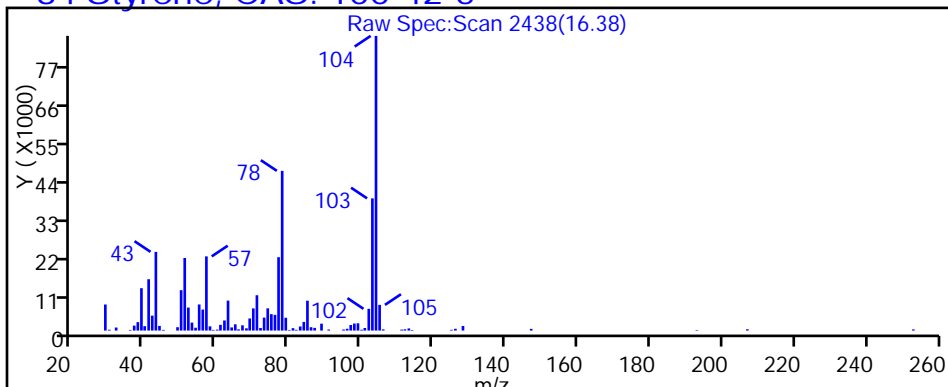
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

84 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

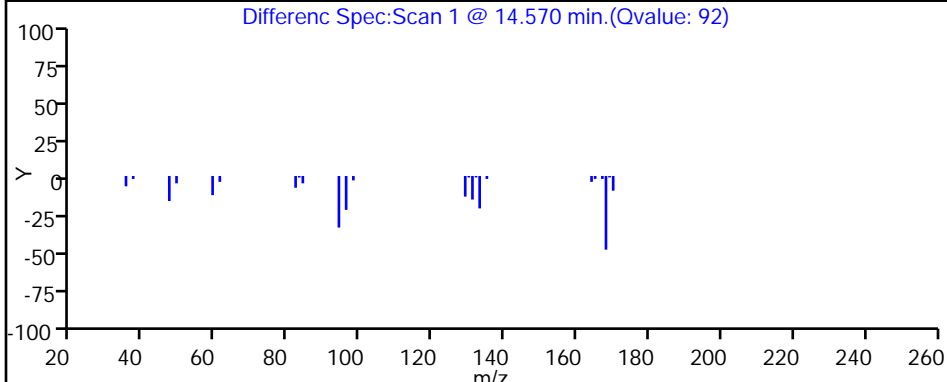
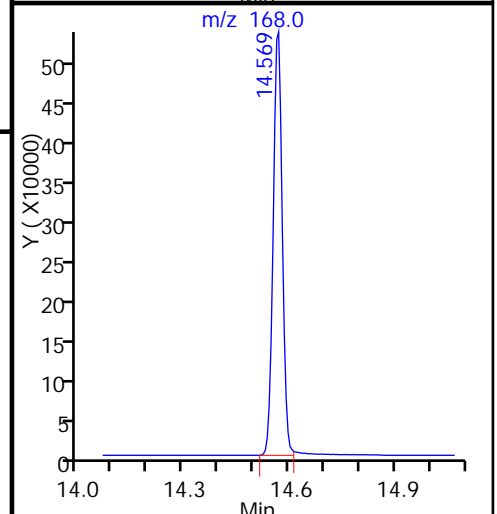
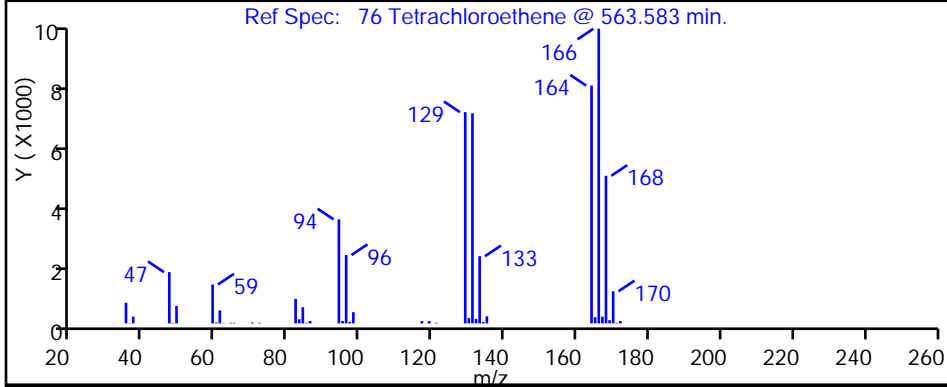
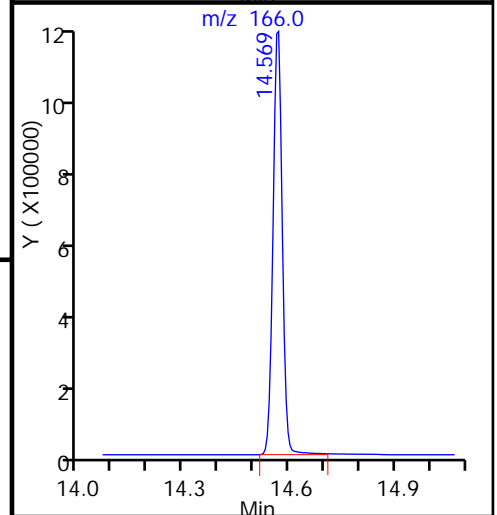
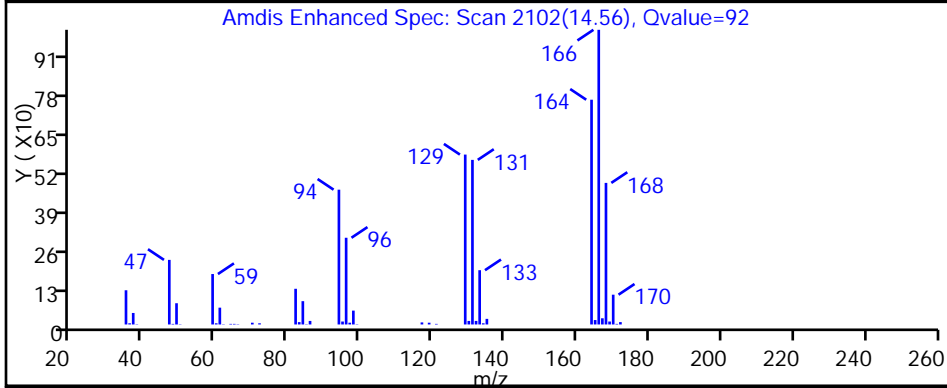
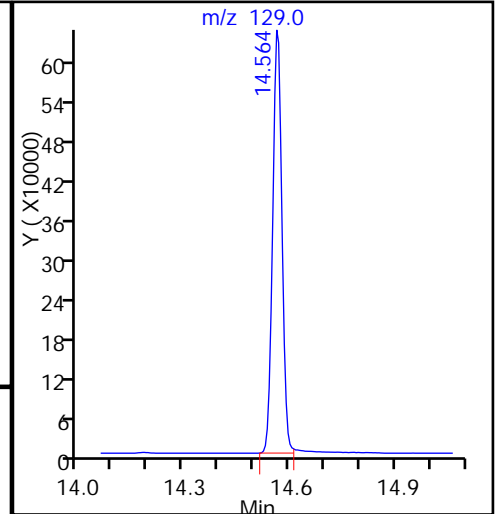
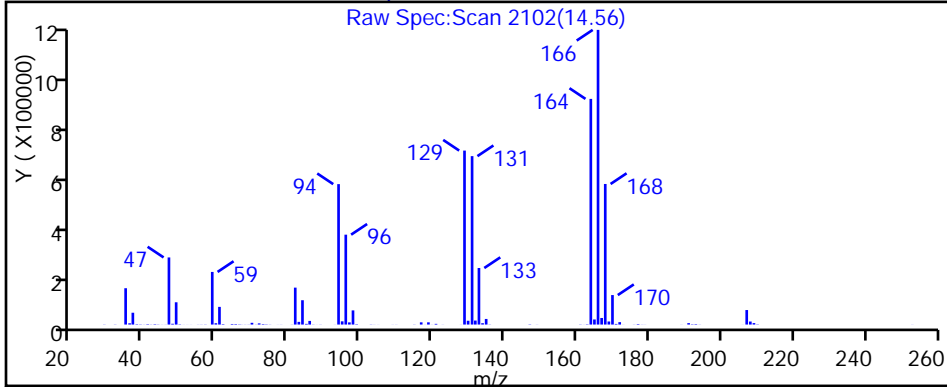
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

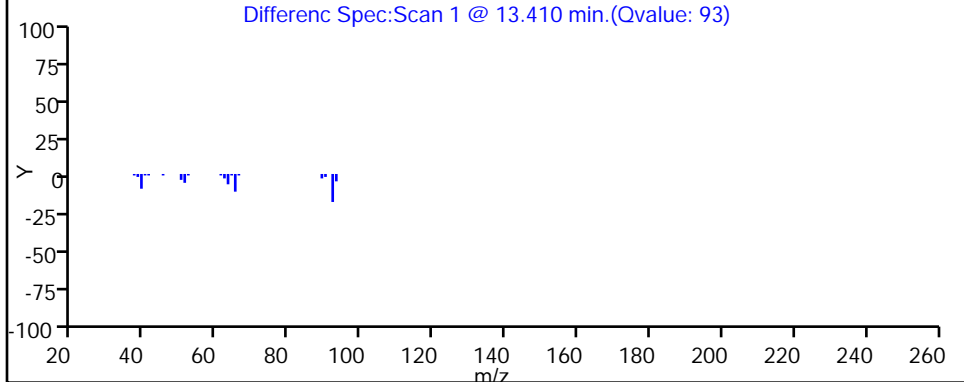
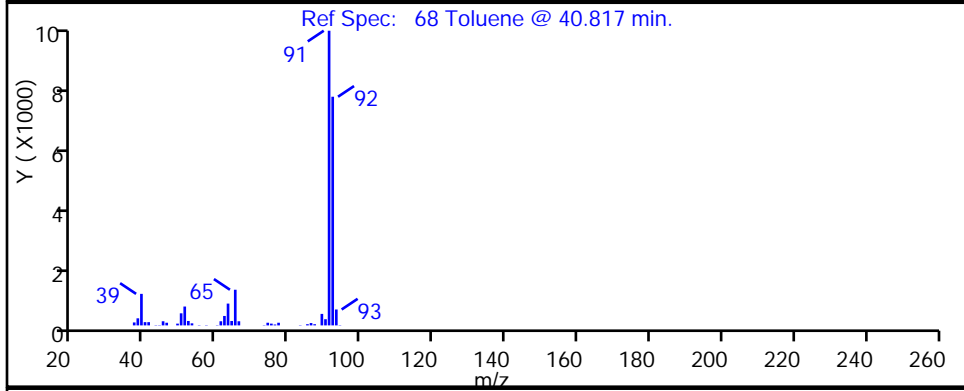
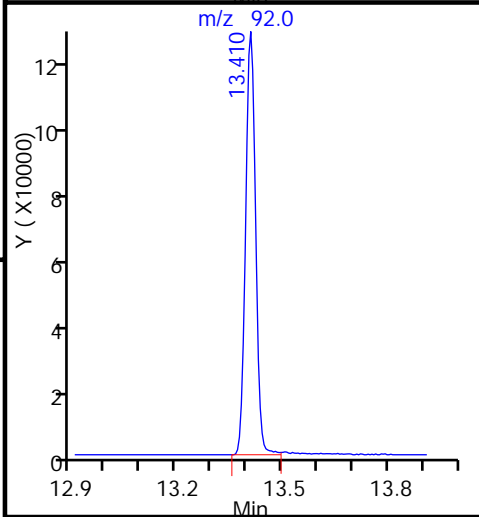
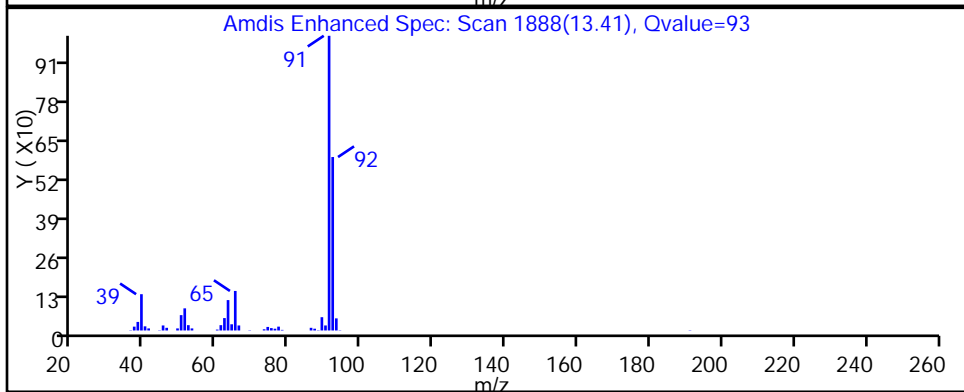
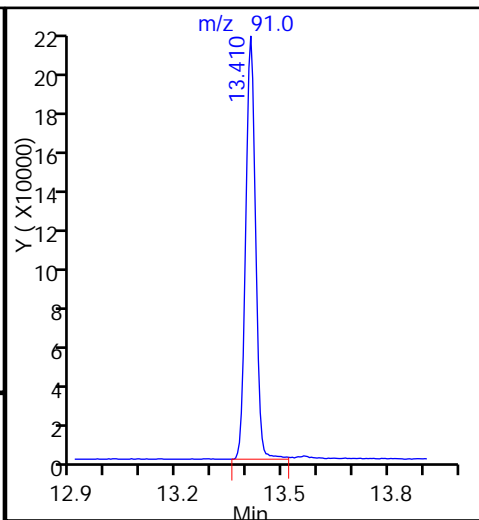
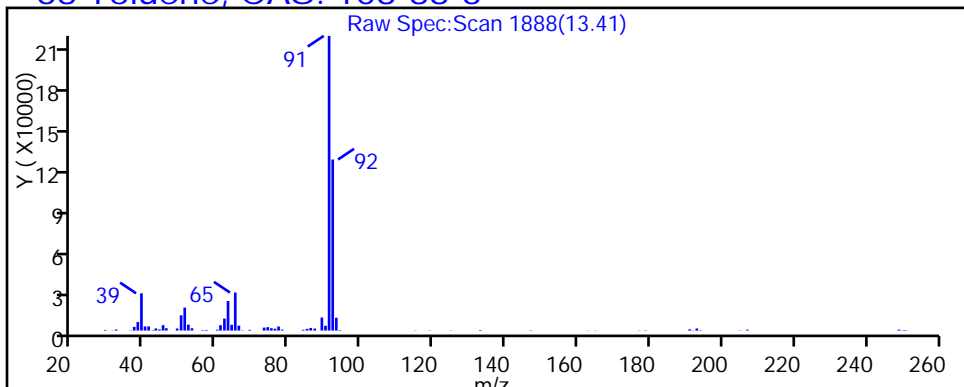
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P103.D

Injection Date: 21-Sep-2016 17:32:30

Instrument ID: MG

Lims ID: 140-5852-A-2

Lab Sample ID: 140-5852-2

Client ID: VP-127

Operator ID: 7126

ALS Bottle#: 3

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

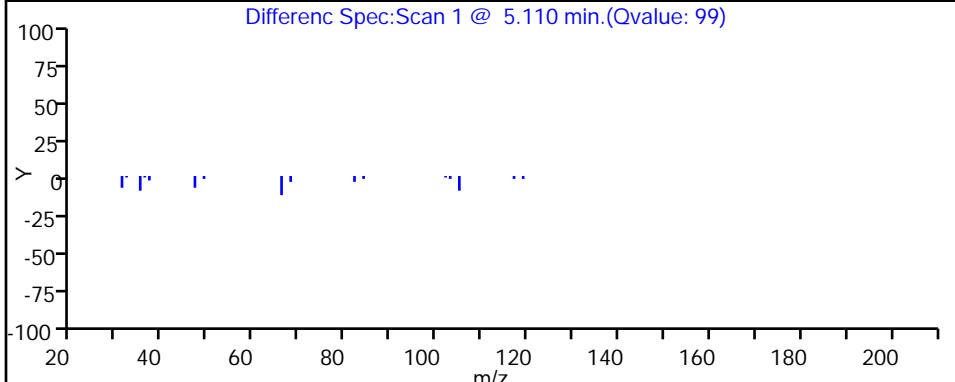
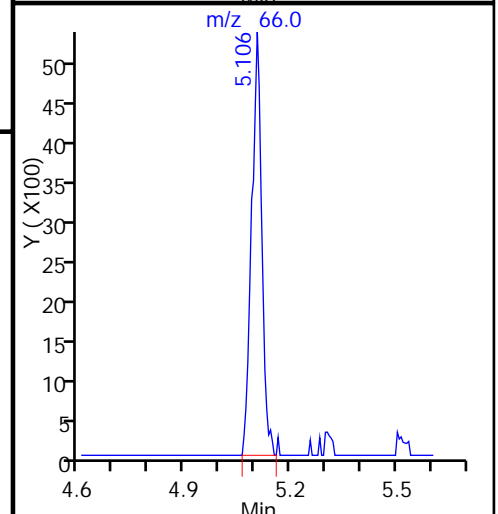
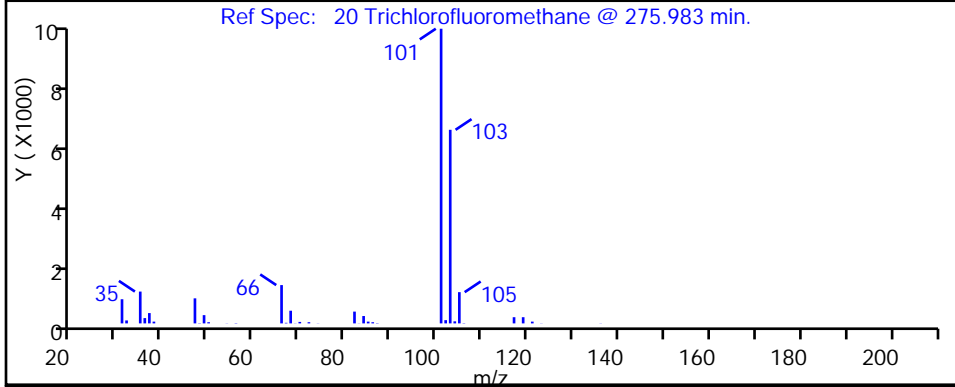
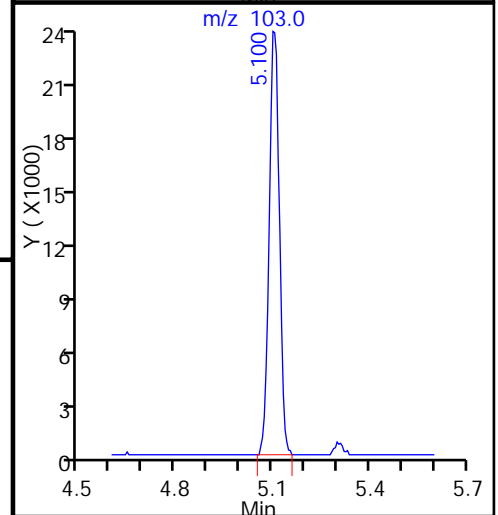
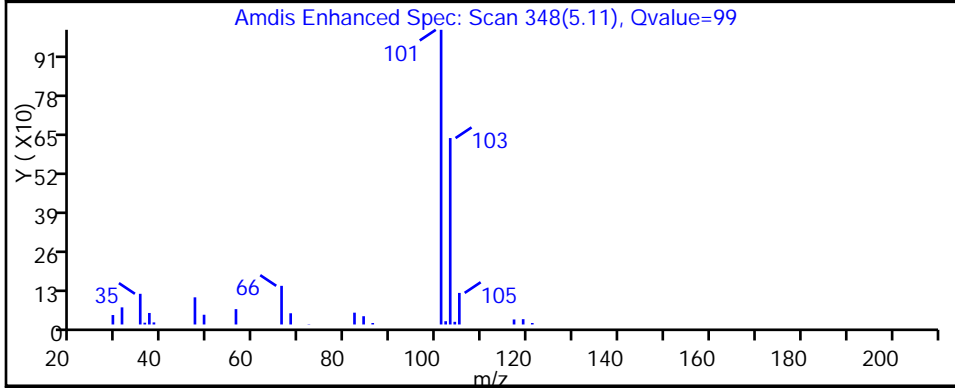
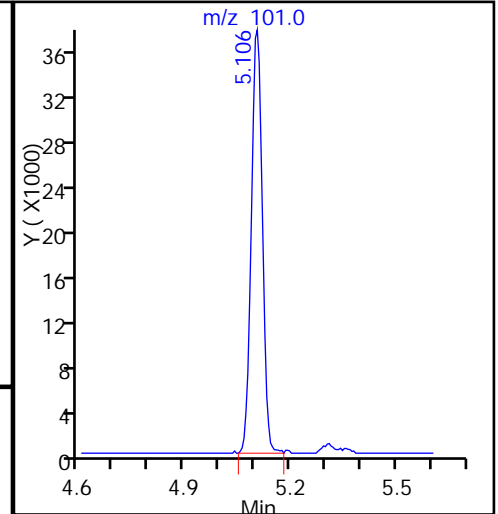
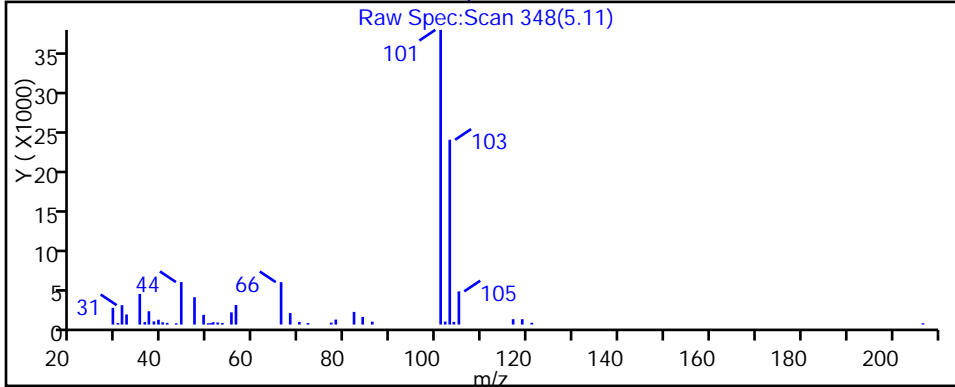
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-128 Lab Sample ID: 140-5852-3
 Matrix: Air Lab File ID: GI21P104.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:42
 Sample wt/vol: 10 (mL) Date Analyzed: 09/21/2016 18:15
 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.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		4.0
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		4.0
79-00-5	1,1,2-Trichloroethane	133.41	ND		4.0
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		4.0
75-34-3	1,1-Dichloroethane	98.96	ND		4.0
75-35-4	1,1-Dichloroethene	96.94	ND		4.0
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		4.0
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		4.0
106-93-4	1,2-Dibromoethane	187.87	ND		4.0
95-50-1	1,2-Dichlorobenzene	147.00	ND		4.0
107-06-2	1,2-Dichloroethane	98.96	ND		4.0
78-87-5	1,2-Dichloropropane	112.99	ND		4.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		4.0
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		4.0
541-73-1	1,3-Dichlorobenzene	147.00	ND		4.0
106-46-7	1,4-Dichlorobenzene	147.00	ND		4.0
123-91-1	1,4-Dioxane	88.11	ND		10
540-84-1	2,2,4-Trimethylpentane	114.23	ND		10
78-93-3	2-Butanone	72.11	ND		16
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		10
71-43-2	Benzene	78.11	11		4.0
100-44-7	Benzyl chloride	126.58	ND		8.0
75-27-4	Bromodichloromethane	163.83	ND		4.0
75-25-2	Bromoform	252.75	ND		4.0
74-83-9	Bromomethane	94.94	ND		4.0
56-23-5	Carbon tetrachloride	153.81	ND		2.0
108-90-7	Chlorobenzene	112.56	ND		4.0
75-00-3	Chloroethane	64.52	ND		4.0
67-66-3	Chloroform	119.38	56		4.0
74-87-3	Chloromethane	50.49	ND		10
156-59-2	cis-1,2-Dichloroethene	96.94	420		4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		4.0
110-82-7	Cyclohexane	84.16	ND		10

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-128 Lab Sample ID: 140-5852-3
 Matrix: Air Lab File ID: GI21P104.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:42
 Sample wt/vol: 10 (mL) Date Analyzed: 09/21/2016 18:15
 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.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		4.0
75-71-8	Dichlorodifluoromethane	120.91	ND		4.0
64-17-5	Ethanol	46.07	ND	*	100
100-41-4	Ethylbenzene	106.17	ND		4.0
87-68-3	Hexachlorobutadiene	260.76	ND		4.0
110-54-3	Hexane	86.17	ND		10
1634-04-4	Methyl tert-butyl ether	88.15	ND		8.0
75-09-2	Methylene Chloride	84.93	ND		10
179601-23-1	m-Xylene & p-Xylene	106.17	ND		4.0
95-47-6	o-Xylene	106.17	ND		4.0
100-42-5	Styrene	104.15	ND		4.0
75-65-0	t-Butyl alcohol	74.12	ND		16
127-18-4	Tetrachloroethene	165.83	870	E	4.0
108-88-3	Toluene	92.14	14		6.0
156-60-5	trans-1,2-Dichloroethene	96.94	ND		4.0
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		4.0
79-01-6	Trichloroethene	131.39	140		2.0
75-69-4	Trichlorofluoromethane	137.37	ND		4.0
75-01-4	Vinyl chloride	62.50	4.5		2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-128 Lab Sample ID: 140-5852-3
 Matrix: Air Lab File ID: GI21P104.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:42
 Sample wt/vol: 10 (mL) Date Analyzed: 09/21/2016 18:15
 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.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		22
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		27
79-00-5	1,1,2-Trichloroethane	133.41	ND		22
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		31
75-34-3	1,1-Dichloroethane	98.96	ND		16
75-35-4	1,1-Dichloroethene	96.94	ND		16
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		30
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		20
106-93-4	1,2-Dibromoethane	187.87	ND		31
95-50-1	1,2-Dichlorobenzene	147.00	ND		24
107-06-2	1,2-Dichloroethane	98.96	ND		16
78-87-5	1,2-Dichloropropane	112.99	ND		18
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		28
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		20
541-73-1	1,3-Dichlorobenzene	147.00	ND		24
106-46-7	1,4-Dichlorobenzene	147.00	ND		24
123-91-1	1,4-Dioxane	88.11	ND		36
540-84-1	2,2,4-Trimethylpentane	114.23	ND		47
78-93-3	2-Butanone	72.11	ND		47
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		41
71-43-2	Benzene	78.11	35		13
100-44-7	Benzyl chloride	126.58	ND		41
75-27-4	Bromodichloromethane	163.83	ND		27
75-25-2	Bromoform	252.75	ND		41
74-83-9	Bromomethane	94.94	ND		16
56-23-5	Carbon tetrachloride	153.81	ND		13
108-90-7	Chlorobenzene	112.56	ND		18
75-00-3	Chloroethane	64.52	ND		11
67-66-3	Chloroform	119.38	270		20
74-87-3	Chloromethane	50.49	ND		21
156-59-2	cis-1,2-Dichloroethene	96.94	1700		16
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		18
110-82-7	Cyclohexane	84.16	ND		34

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-128 Lab Sample ID: 140-5852-3
 Matrix: Air Lab File ID: GI21P104.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:42
 Sample wt/vol: 10 (mL) Date Analyzed: 09/21/2016 18:15
 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.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		34
75-71-8	Dichlorodifluoromethane	120.91	ND		20
64-17-5	Ethanol	46.07	ND	*	190
100-41-4	Ethylbenzene	106.17	ND		17
87-68-3	Hexachlorobutadiene	260.76	ND		43
110-54-3	Hexane	86.17	ND		35
1634-04-4	Methyl tert-butyl ether	88.15	ND		29
75-09-2	Methylene Chloride	84.93	ND		35
179601-23-1	m-Xylene & p-Xylene	106.17	ND		17
95-47-6	o-Xylene	106.17	ND		17
100-42-5	Styrene	104.15	ND		17
75-65-0	t-Butyl alcohol	74.12	ND		49
127-18-4	Tetrachloroethene	165.83	5900	E	27
108-88-3	Toluene	92.14	54		23
156-60-5	trans-1,2-Dichloroethene	96.94	ND		16
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		18
79-01-6	Trichloroethene	131.39	750		11
75-69-4	Trichlorofluoromethane	137.37	ND		22
75-01-4	Vinyl chloride	62.50	11		5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P104.D
 Lims ID: 140-5852-A-3
 Client ID: VP-128
 Sample Type: Client
 Inject. Date: 21-Sep-2016 18:15:30 ALS Bottle#: 4 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-008
 Misc. Info.: 140-5852-a-3
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 13:54:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.449	8.454	-0.005	89	232012	4.00	
* 2 1,4-Difluorobenzene	114	10.611	10.617	-0.006	96	1056977	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.389	15.394	-0.005	91	946844	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	92	693298	4.19	
12 Vinyl chloride	62	4.070	4.076	-0.006	98	6567	0.0900	
31 Methylene Chloride	84	6.049	6.055	-0.006	91	4089	0.0724	
34 trans-1,2-Dichloroethene	96	6.804	6.815	-0.011	95	5096	0.0749	
40 Hexane	56	7.770	7.775	-0.005	89	2096	0.0342	
42 cis-1,2-Dichloroethene	96	8.136	8.142	-0.006	96	602304	8.39	
44 Chloroform	83	8.465	8.476	-0.011	95	173359	1.12	
49 Benzene	78	10.051	10.056	-0.006	97	42017	0.2165	
59 Trichloroethene	130	11.329	11.334	-0.006	92	271330	2.77	
68 Toluene	91	13.405	13.405	0.001	93	59524	0.2876	
76 Tetrachloroethene	129	14.564	14.564	0.000	91	1438859	17.4	E
81 m-Xylene & p-Xylene	91	15.901	15.907	-0.006	96	12021	0.0567	
85 o-Xylene	91	16.430	16.435	-0.005	97	5968	0.0262	
100 1,4-Dichlorobenzene	146	18.619	18.624	-0.005	86	5288	0.0321	

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\MG\20160919-3444.b\GI21P104.D

Injection Date: 21-Sep-2016 18:15:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-3

Lab Sample ID: 140-5852-3

Worklist Smp#: 8

Client ID: VP-128

Purge Vol: 500.000 mL

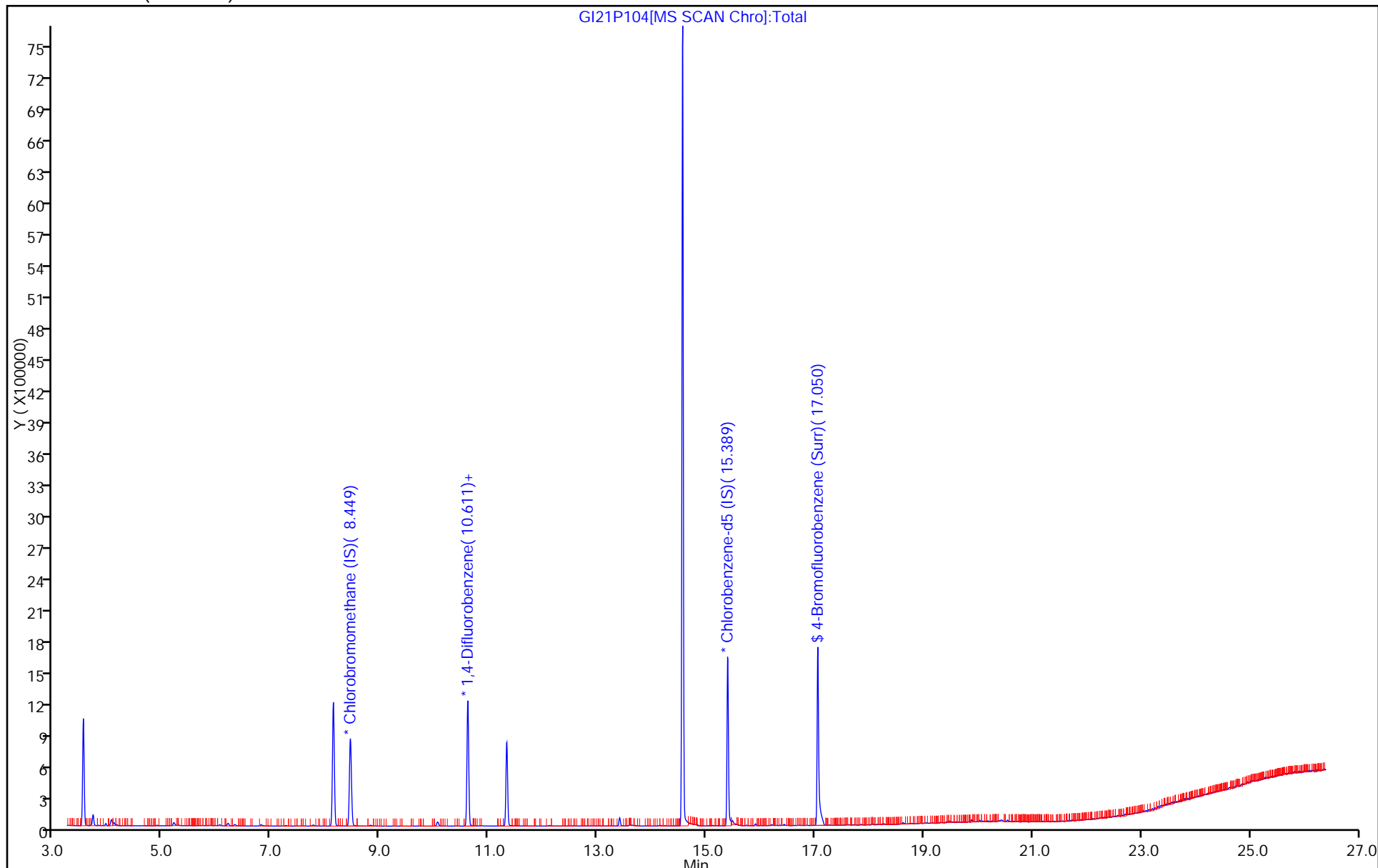
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P104.D
 Lims ID: 140-5852-A-3
 Client ID: VP-128
 Sample Type: Client
 Inject. Date: 21-Sep-2016 18:15:30 ALS Bottle#: 4 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-008
 Misc. Info.: 140-5852-a-3
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 13:54:50

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.19	104.87

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P104.D

Injection Date: 21-Sep-2016 18:15:30

Instrument ID: MG

Lims ID: 140-5852-A-3

Lab Sample ID: 140-5852-3

Client ID: VP-128

Operator ID: 7126

ALS Bottle#: 4

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

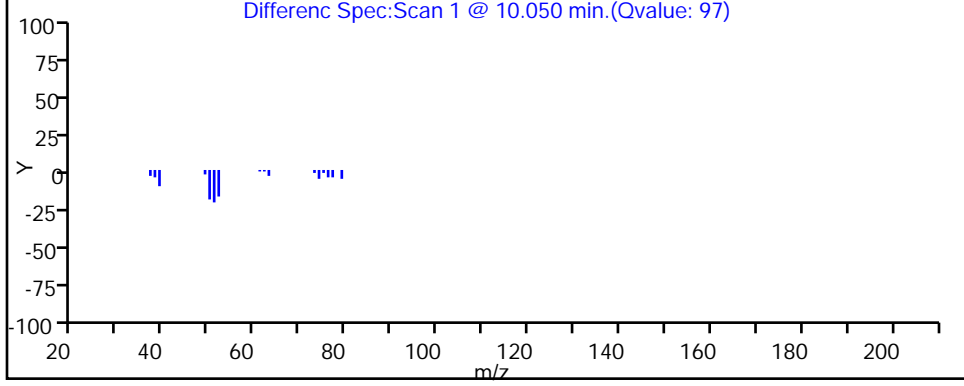
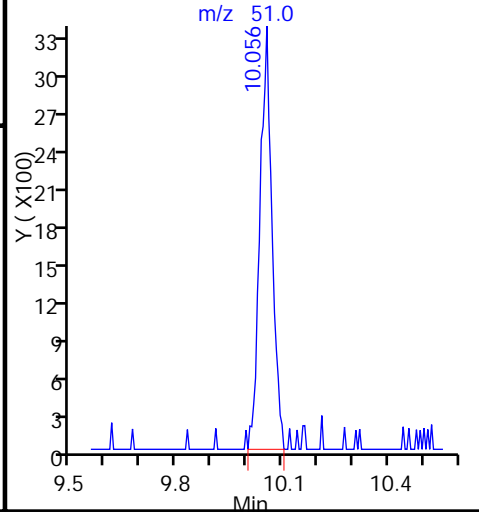
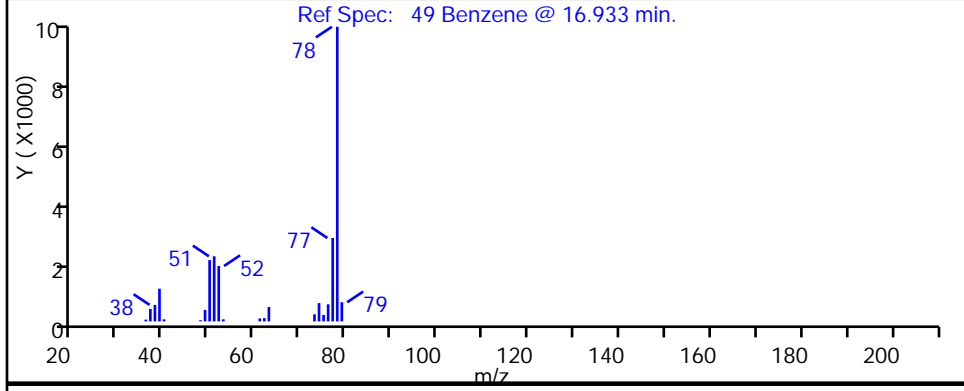
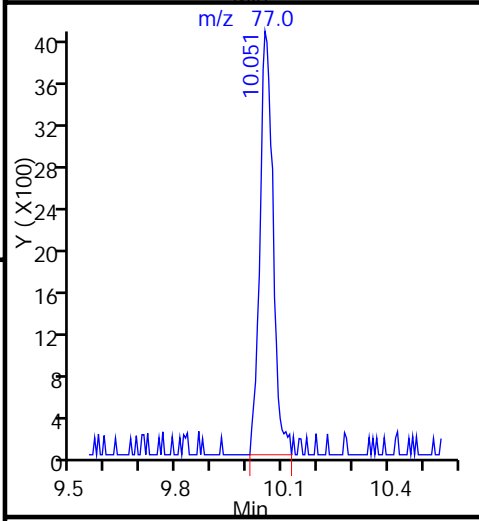
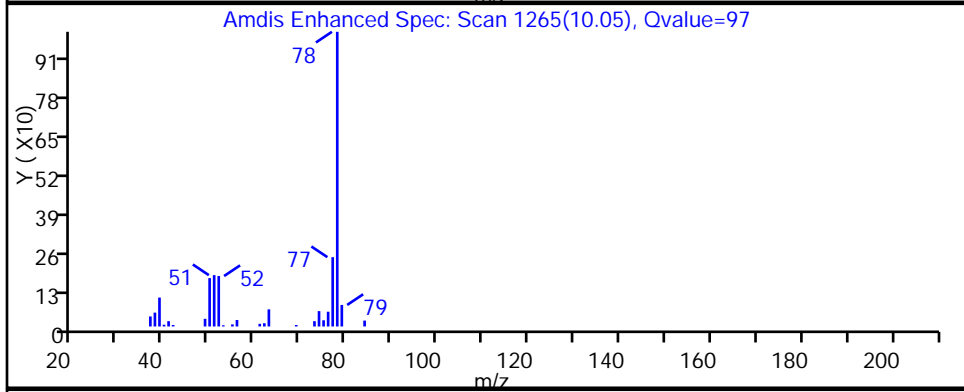
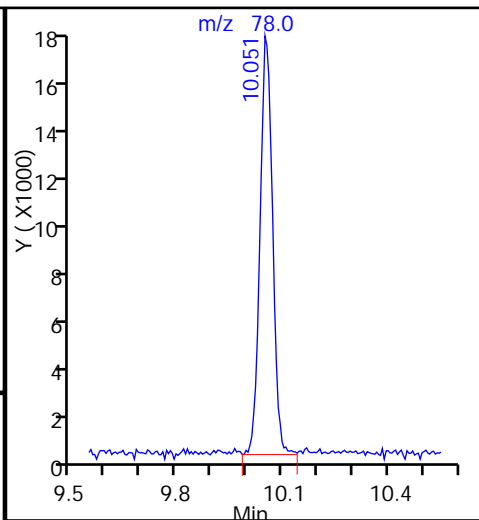
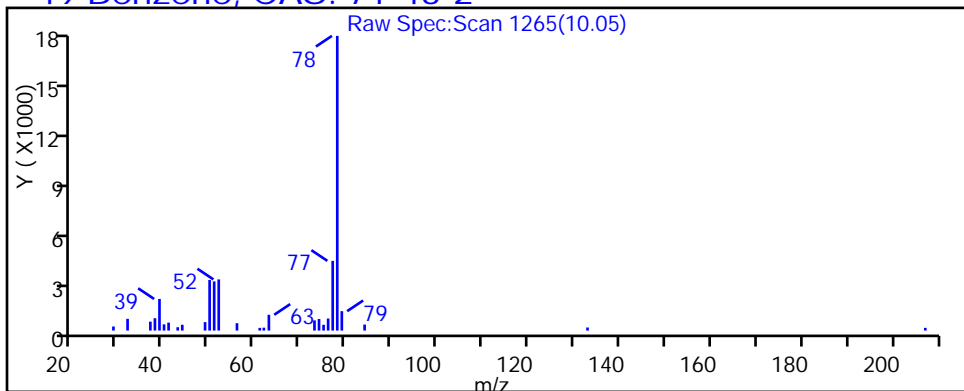
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P104.D

Injection Date: 21-Sep-2016 18:15:30

Instrument ID: MG

Lims ID: 140-5852-A-3

Lab Sample ID: 140-5852-3

Client ID: VP-128

Operator ID: 7126

ALS Bottle#: 4

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

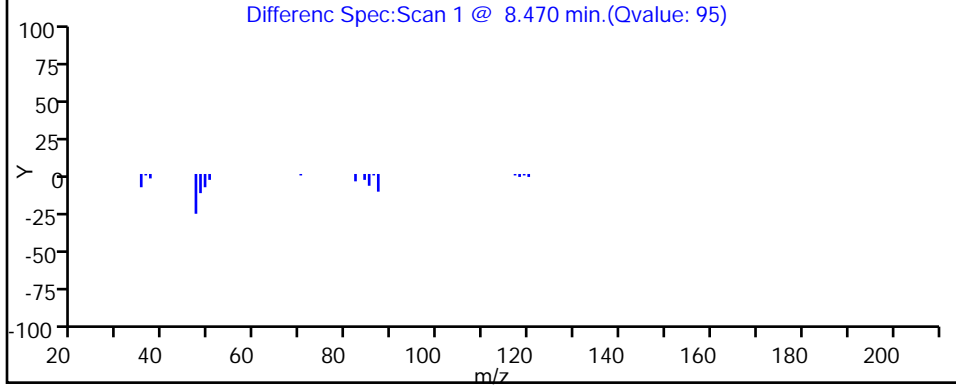
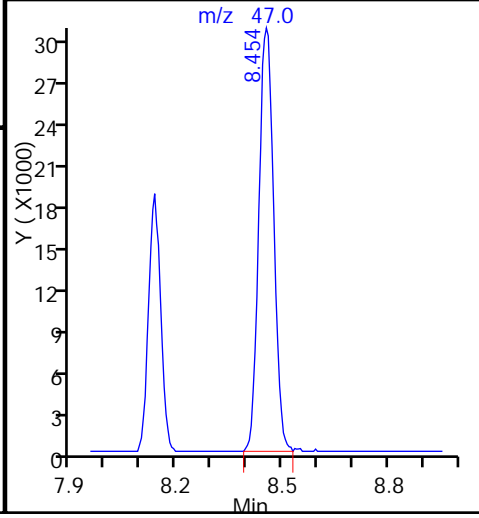
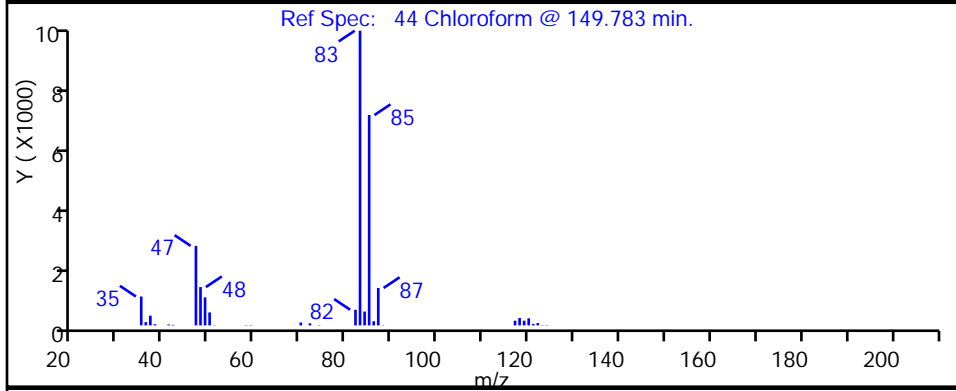
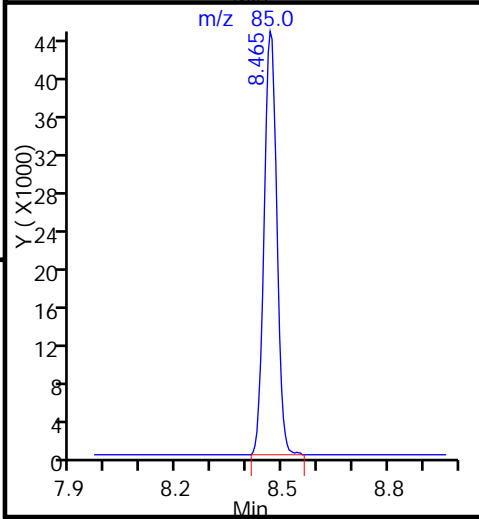
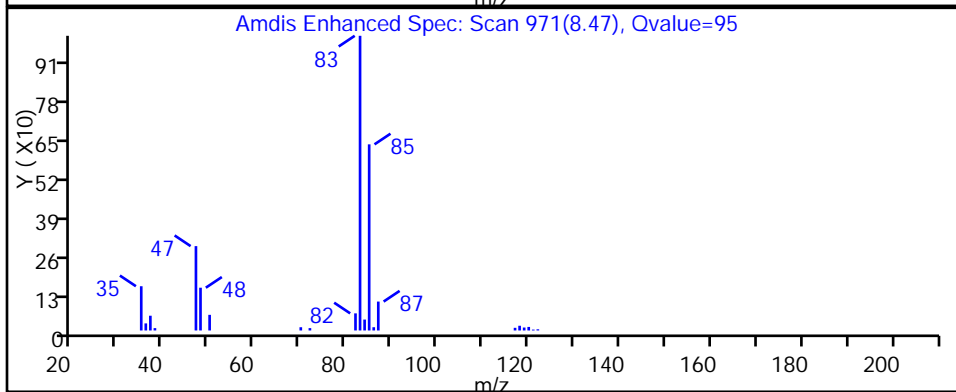
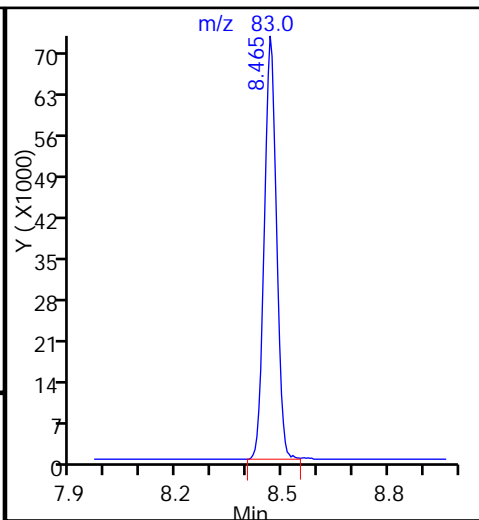
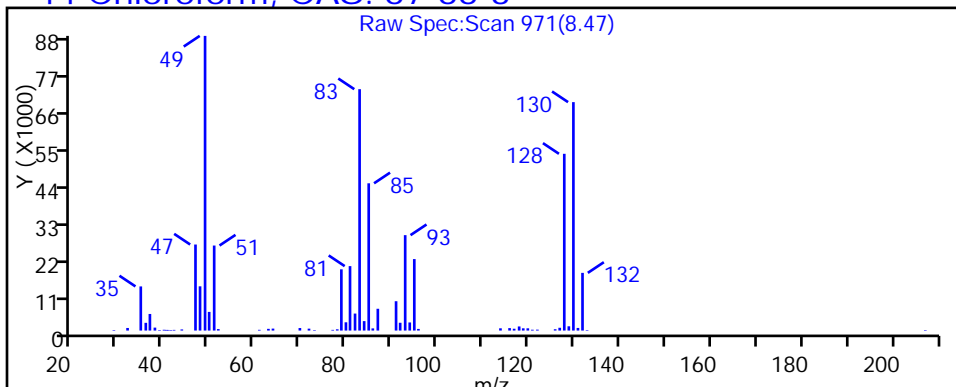
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P104.D

Injection Date: 21-Sep-2016 18:15:30

Instrument ID: MG

Lims ID: 140-5852-A-3

Lab Sample ID: 140-5852-3

Client ID: VP-128

Operator ID: 7126

ALS Bottle#: 4

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

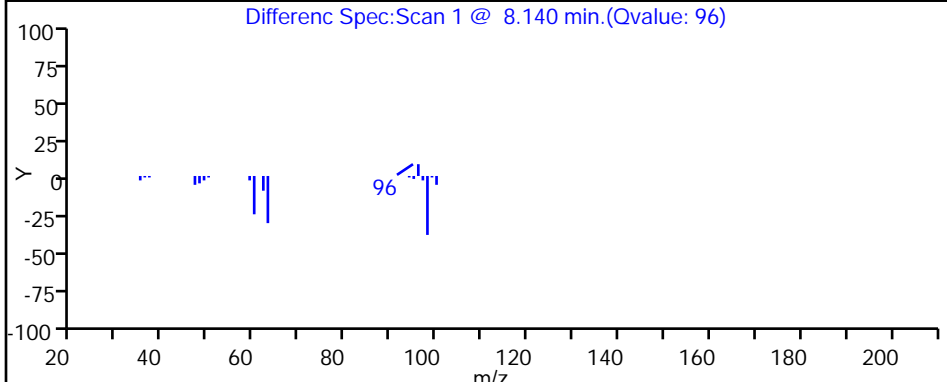
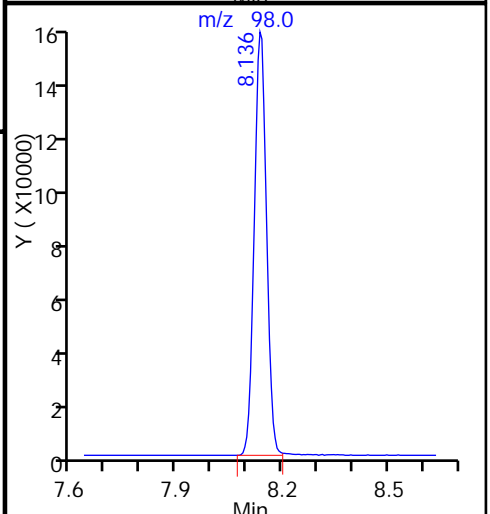
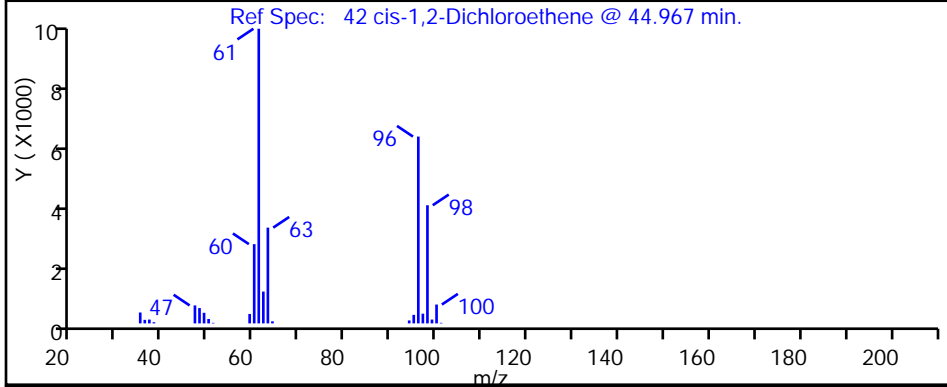
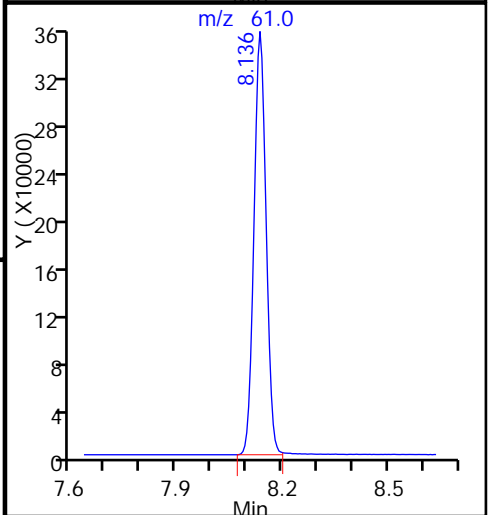
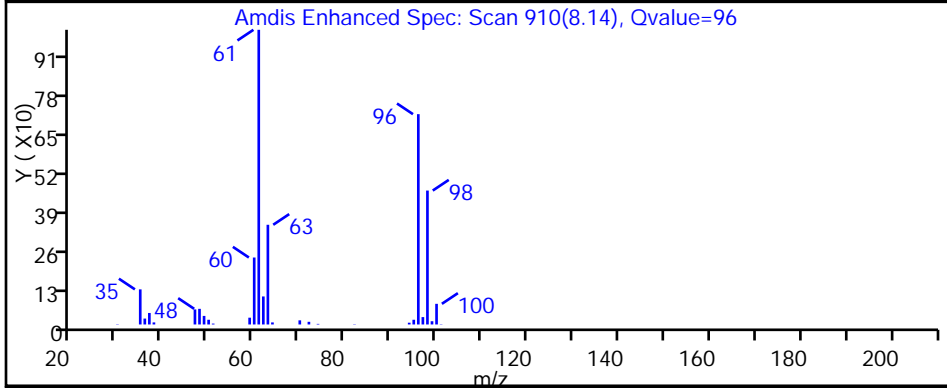
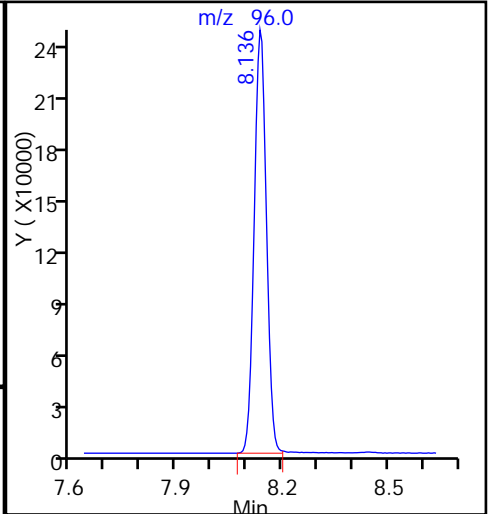
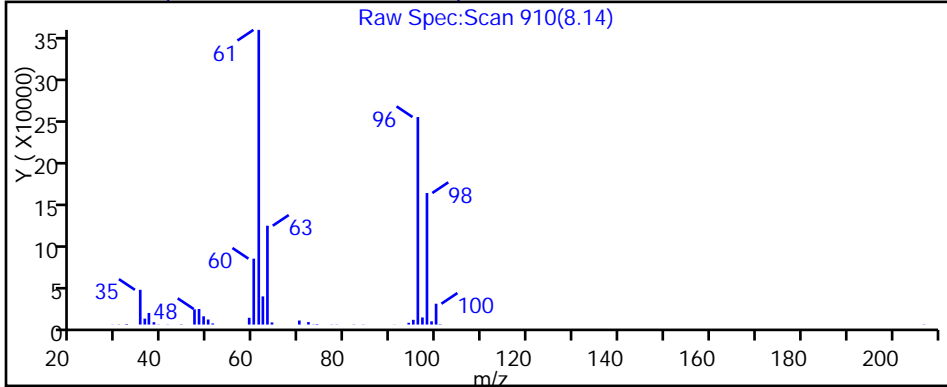
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

42 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P104.D

Injection Date: 21-Sep-2016 18:15:30

Instrument ID: MG

Lims ID: 140-5852-A-3

Lab Sample ID: 140-5852-3

Client ID: VP-128

Operator ID: 7126

ALS Bottle#: 4

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

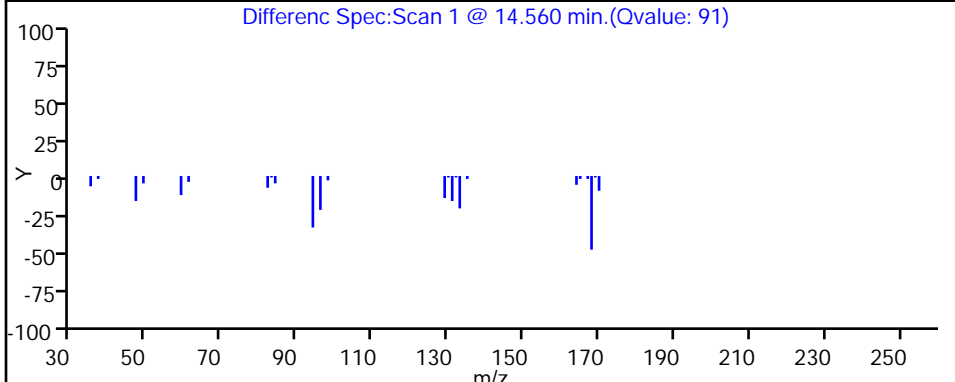
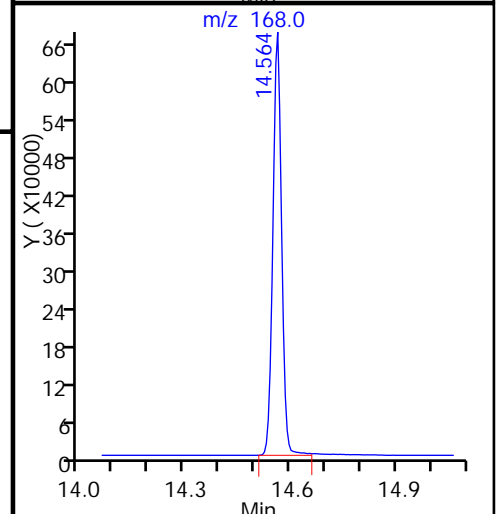
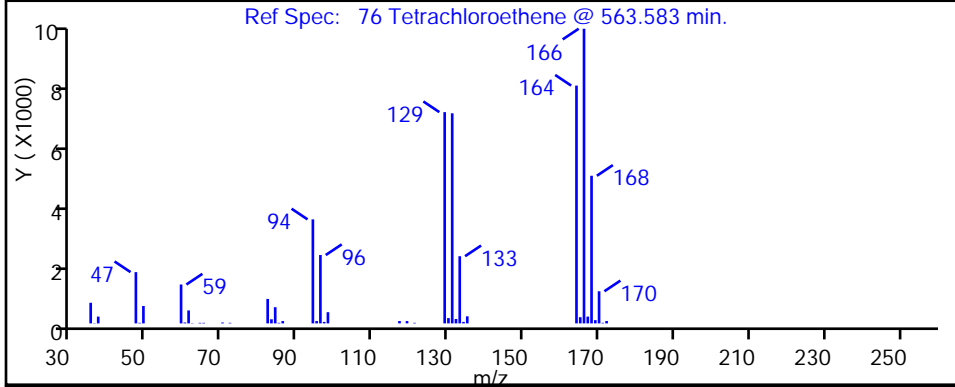
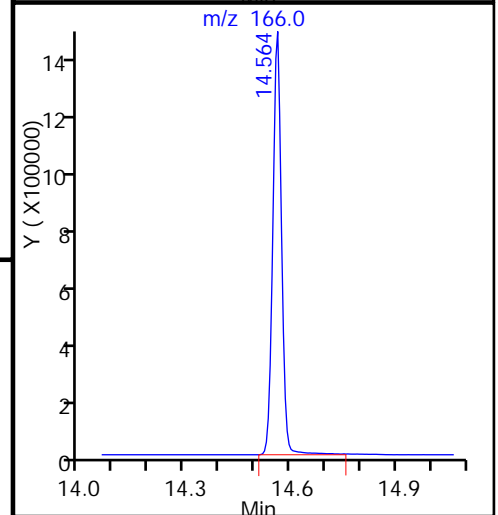
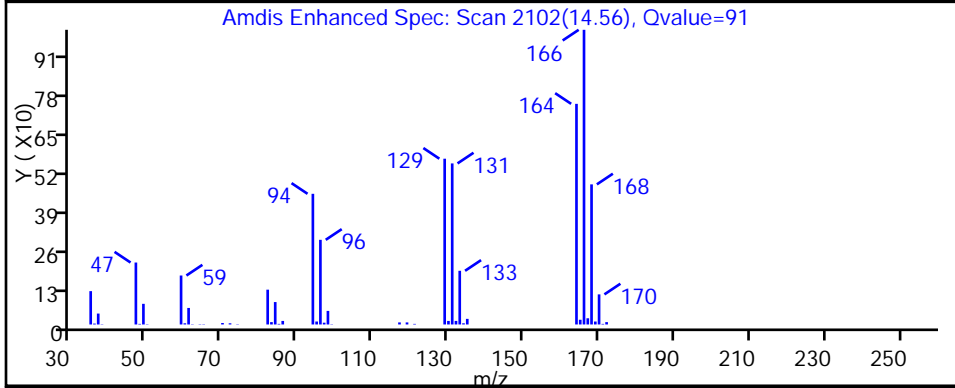
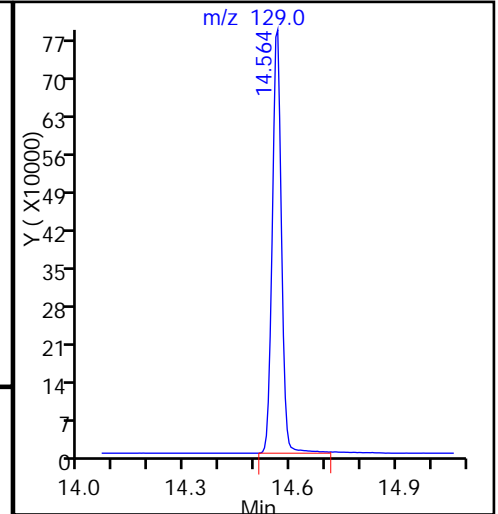
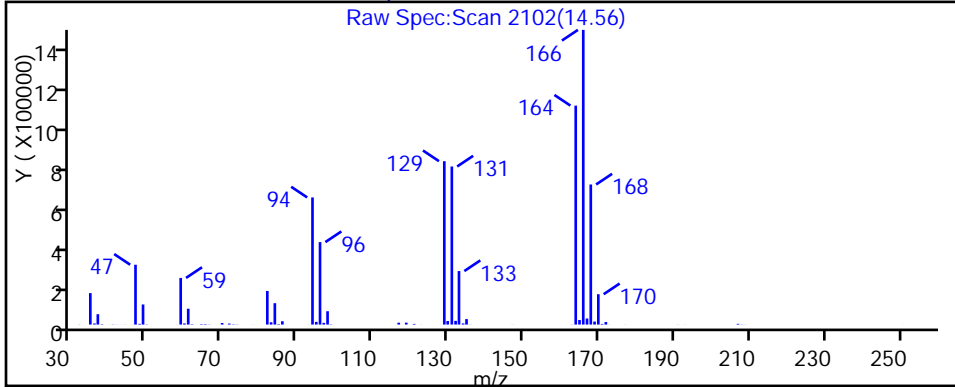
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P104.D

Injection Date: 21-Sep-2016 18:15:30

Instrument ID: MG

Lims ID: 140-5852-A-3

Lab Sample ID: 140-5852-3

Client ID: VP-128

Operator ID: 7126

ALS Bottle#: 4 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

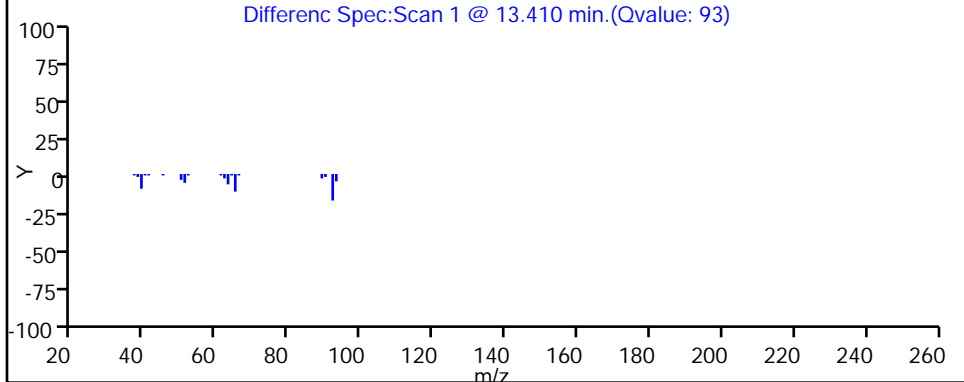
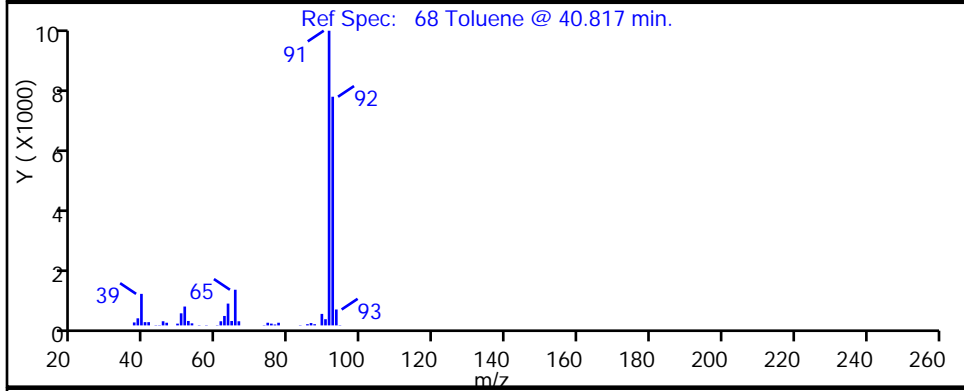
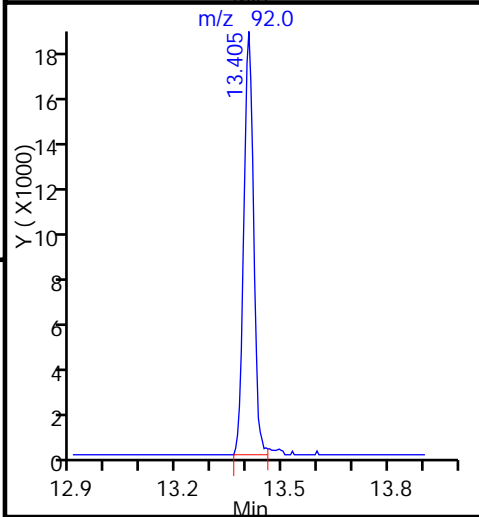
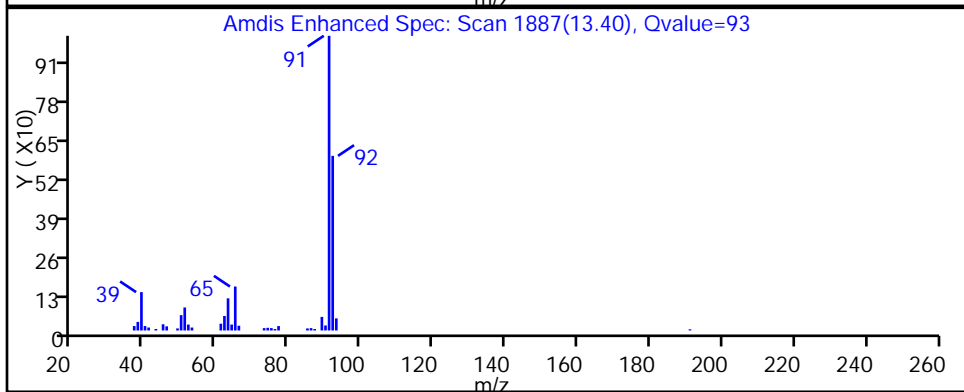
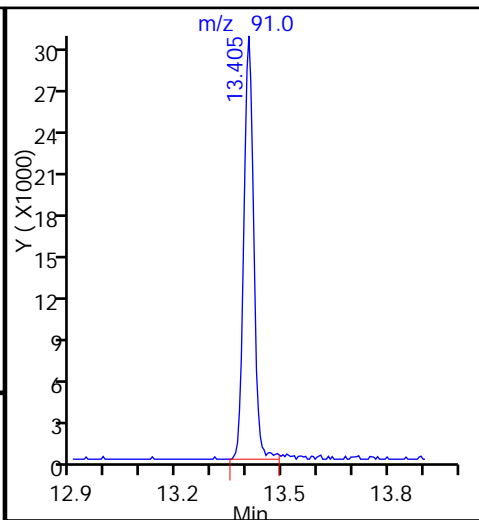
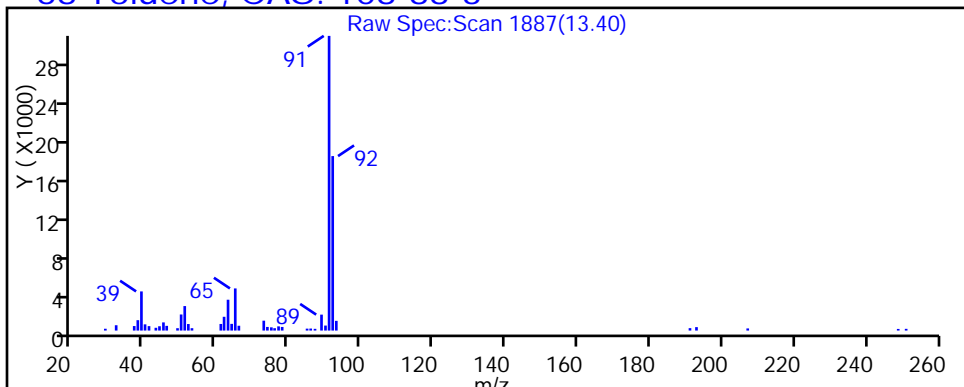
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P104.D

Injection Date: 21-Sep-2016 18:15:30

Instrument ID: MG

Lims ID: 140-5852-A-3

Lab Sample ID: 140-5852-3

Client ID: VP-128

Operator ID: 7126

ALS Bottle#: 4

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

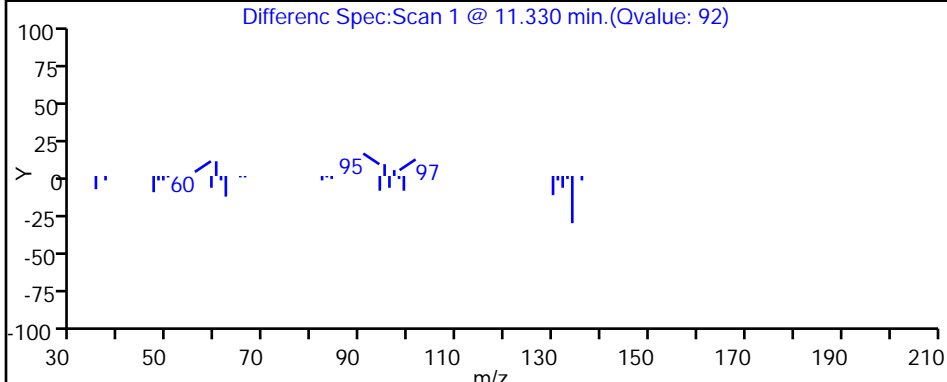
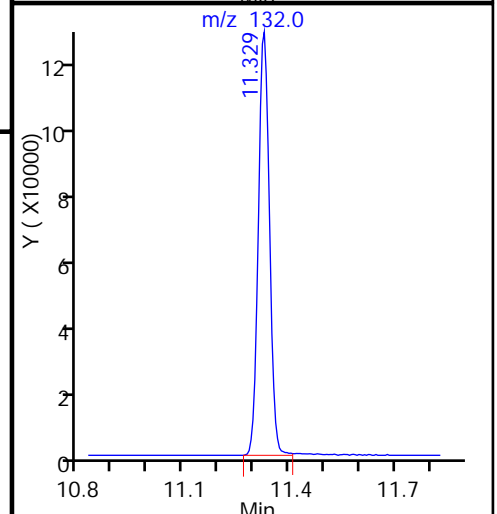
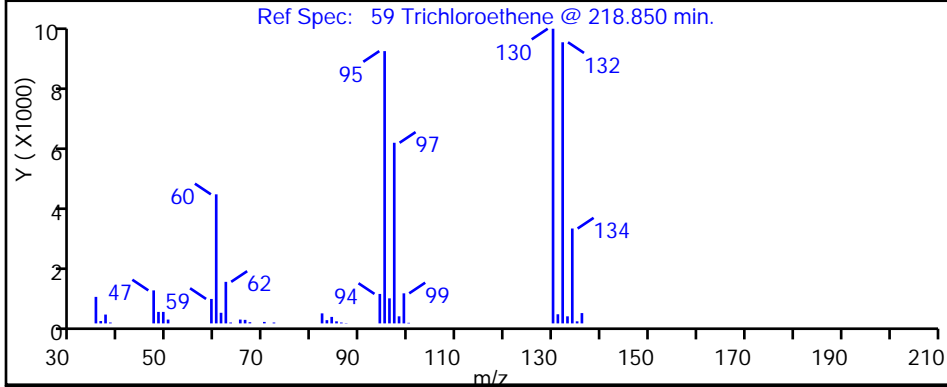
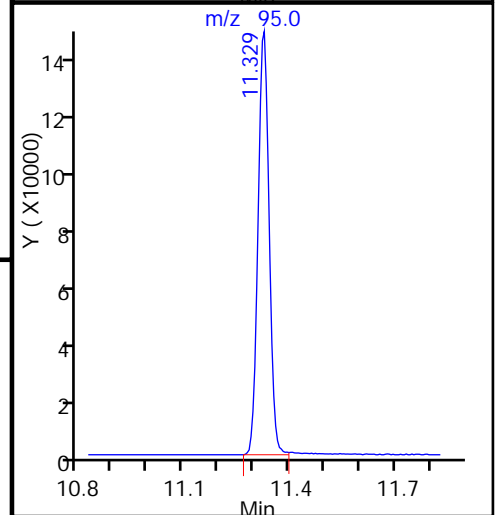
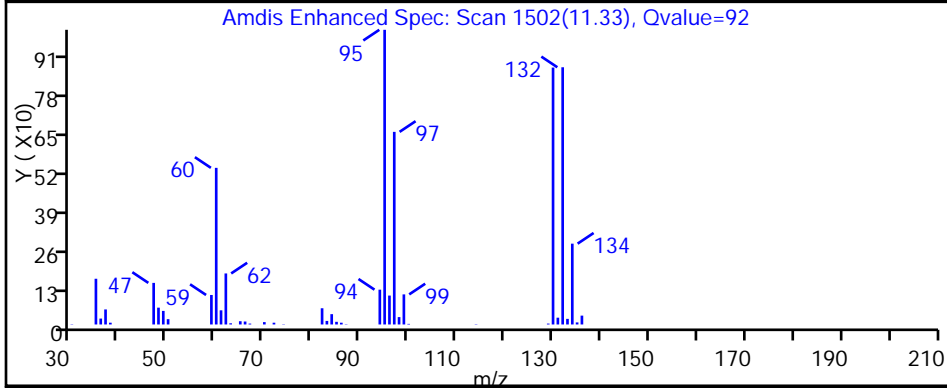
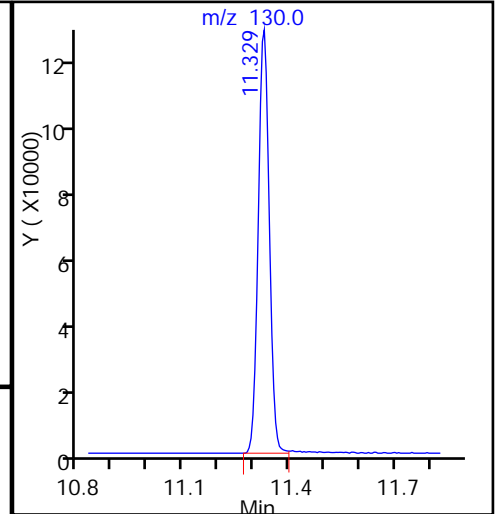
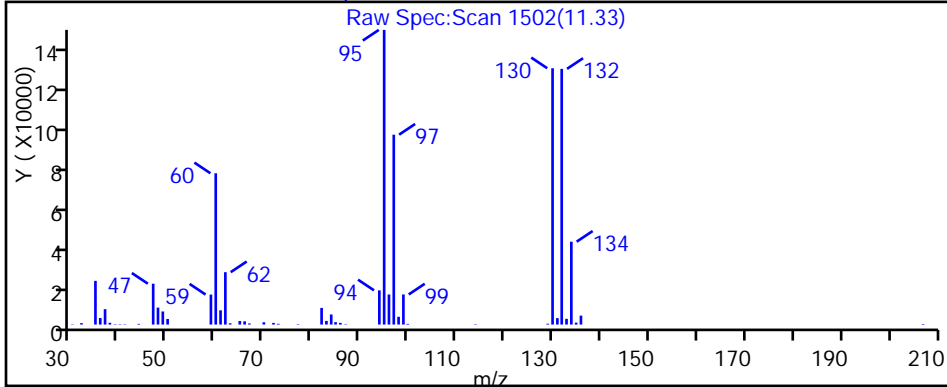
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

59 Trichloroethene, CAS: 79-01-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P104.D

Injection Date: 21-Sep-2016 18:15:30

Instrument ID: MG

Lims ID: 140-5852-A-3

Lab Sample ID: 140-5852-3

Client ID: VP-128

Operator ID: 7126

ALS Bottle#: 4

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

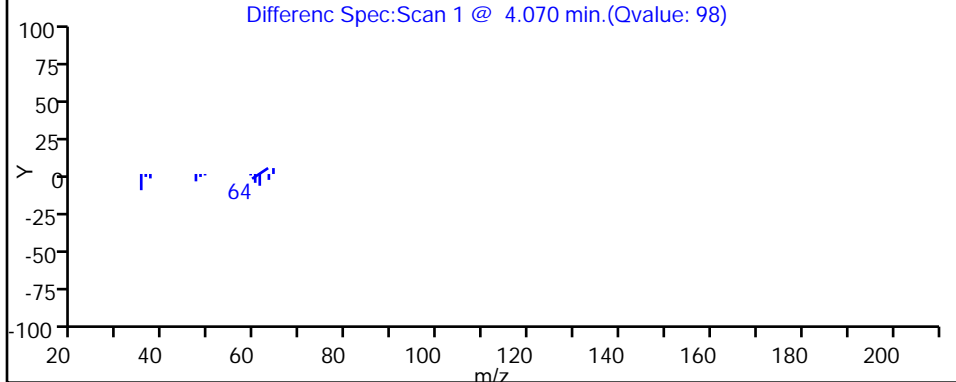
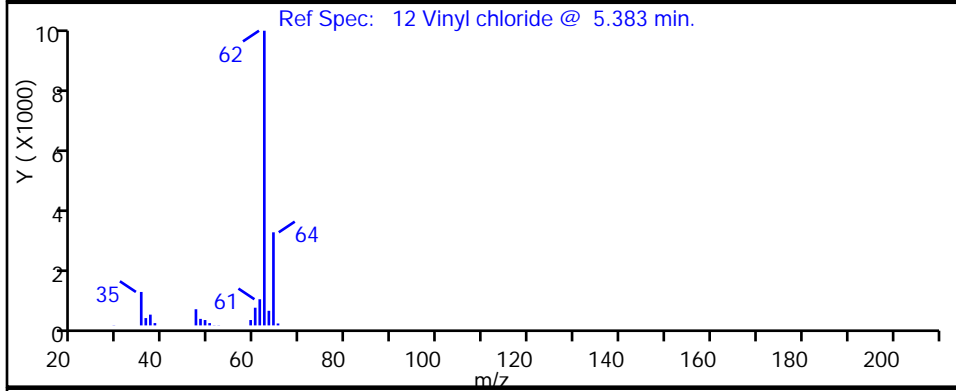
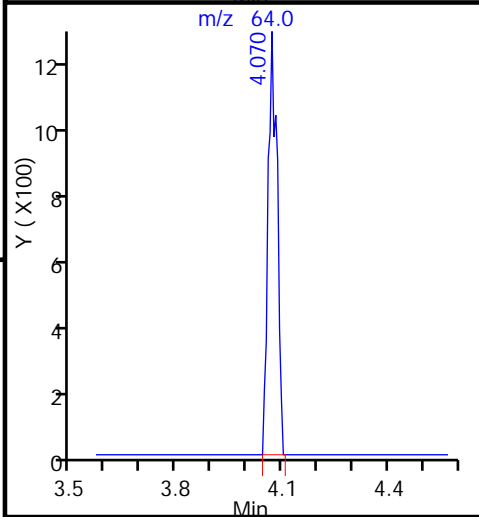
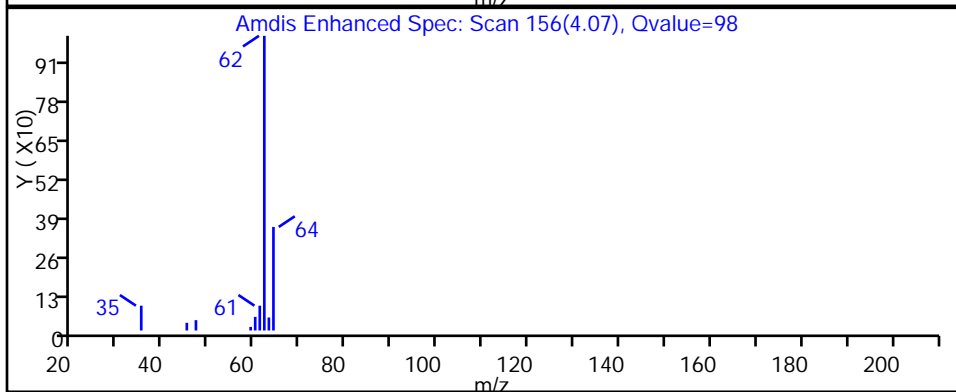
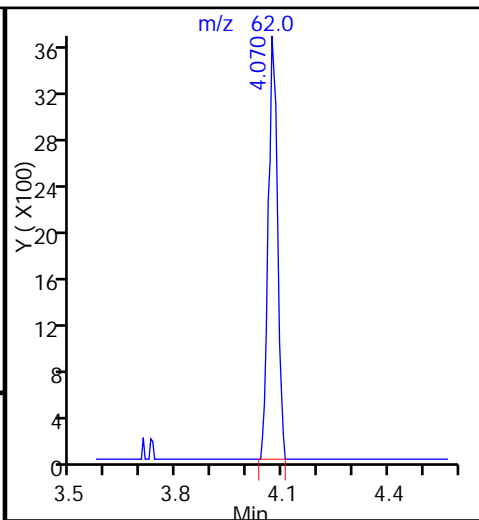
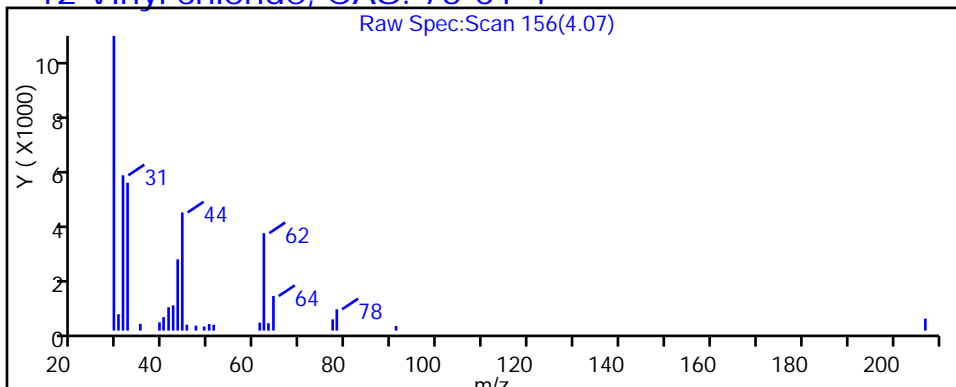
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

12 Vinyl chloride, CAS: 75-01-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-128 DL Lab Sample ID: 140-5852-3 DL
 Matrix: Air Lab File ID: JI22P113.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:42
 Sample wt/vol: 11 (mL) Date Analyzed: 09/23/2016 03:32
 Soil Aliquot Vol: _____ Dilution Factor: 3.32
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
127-18-4	Tetrachloroethene	165.83	450	D	12

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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-128 DL Lab Sample ID: 140-5852-3 DL
 Matrix: Air Lab File ID: JI22P113.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:42
 Sample wt/vol: 11 (mL) Date Analyzed: 09/23/2016 03:32
 Soil Aliquot Vol: _____ Dilution Factor: 3.32
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
127-18-4	Tetrachloroethene	165.83	3000	D	82

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\20160920-3446.b\JI22P113.D
 Lims ID: 140-5852-A-3
 Client ID: VP-128
 Sample Type: Client
 Inject. Date: 23-Sep-2016 03:32:30 ALS Bottle#: 13 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 3.3200
 Sample Info: 140-0003446-020
 Misc. Info.: 140-5852-a-3@3.32
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: tajh Date: 23-Sep-2016 10:11:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.328	9.335	-0.007	95	206954	4.00	
* 2 1,4-Difluorobenzene	114	11.491	11.497	-0.006	97	944190	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.176	16.177	-0.001	92	813859	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.801	17.802	-0.001	91	486429	4.05	
31 Methylene Chloride	84	6.703	6.709	-0.006	93	23501	0.4132	
40 Hexane	56	8.564	8.571	-0.007	85	874	0.0162	
42 cis-1,2-Dichloroethene	96	8.979	8.990	-0.011	96	107334	1.75	
44 Chloroform	83	9.334	9.345	-0.011	32	34155	0.2465	
51 Benzene	78	10.964	10.975	-0.011	94	8712	0.0529	
59 Trichloroethene	130	12.196	12.202	-0.006	91	47398	0.5698	
68 Toluene	91	14.218	14.225	-0.006	92	10744	0.0620	
76 Tetrachloroethene	129	15.353	15.354	-0.001	90	241846	2.98	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\J122P113.D

Injection Date: 23-Sep-2016 03:32:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-5852-A-3

Lab Sample ID: 140-5852-3

Worklist Smp#: 20

Client ID: VP-128

Purge Vol: 500.000 mL

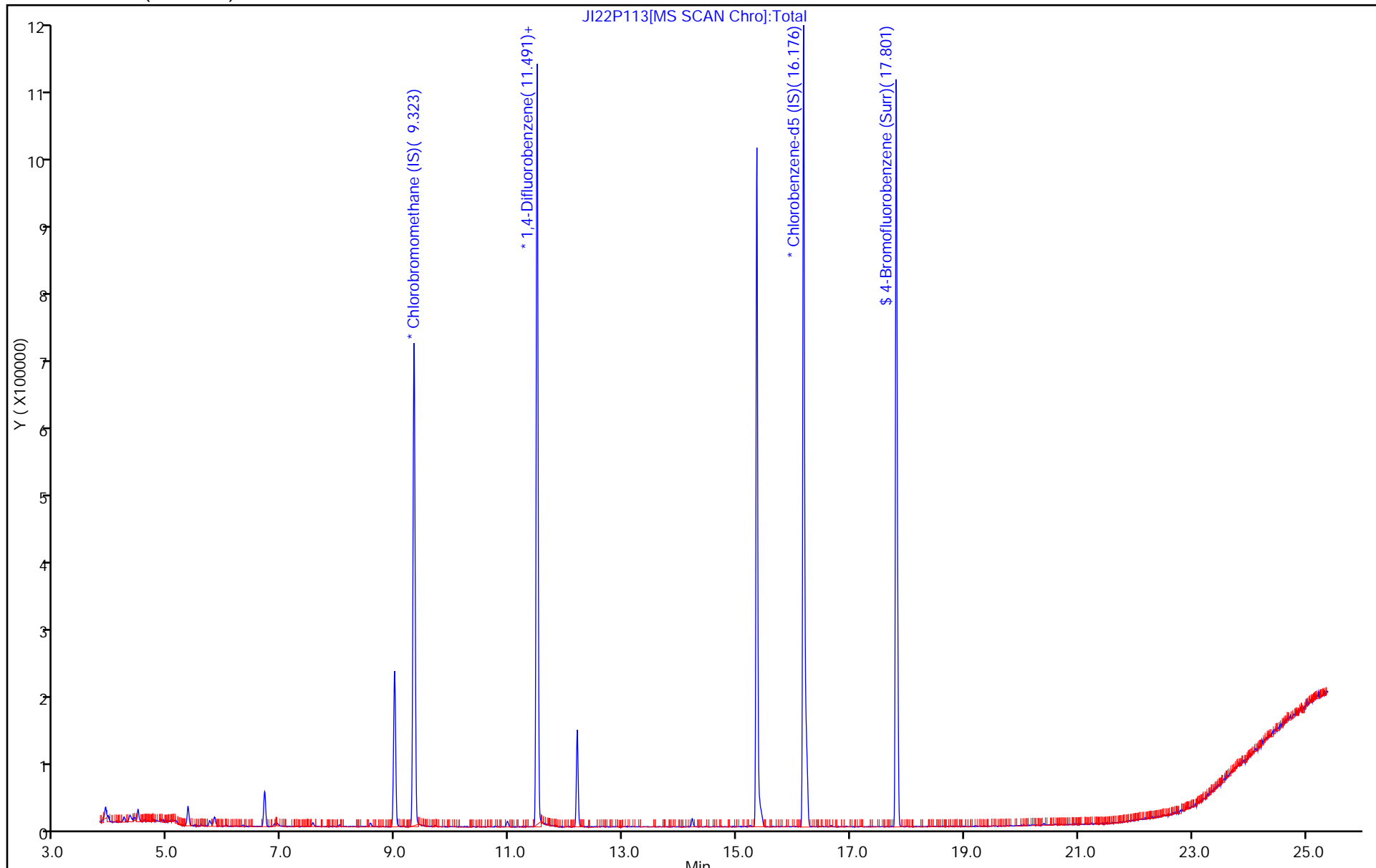
Dil. Factor: 3.3200

ALS Bottle#: 13

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\20160920-3446.b\JI22P113.D
 Lims ID: 140-5852-A-3
 Client ID: VP-128
 Sample Type: Client
 Inject. Date: 23-Sep-2016 03:32:30 ALS Bottle#: 13 Worklist Smp#: 20
 Purge Vol: 500.000 mL Dil. Factor: 3.3200
 Sample Info: 140-0003446-020
 Misc. Info.: 140-5852-a-3@3.32
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: tajh Date: 23-Sep-2016 10:11:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.05	101.20

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P113.D

Injection Date: 23-Sep-2016 03:32:30

Instrument ID: MJ

Lims ID: 140-5852-A-3

Lab Sample ID: 140-5852-3

Client ID: VP-128

Operator ID: 7126

ALS Bottle#: 13 Worklist Smp#: 20

Purge Vol: 500.000 mL

Dil. Factor: 3.3200

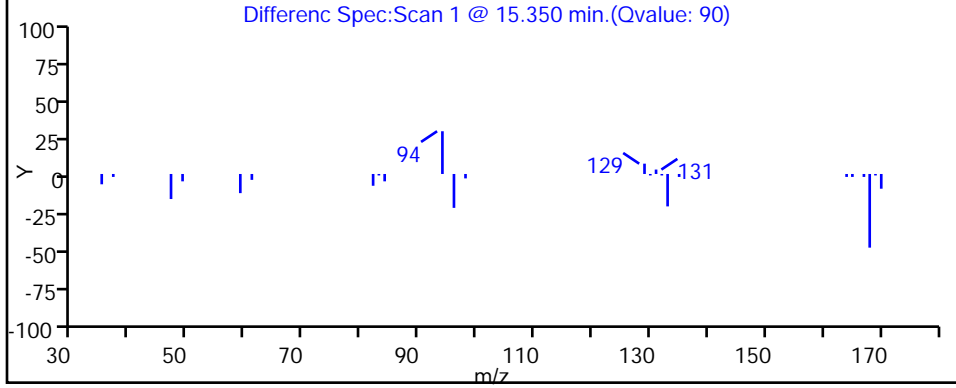
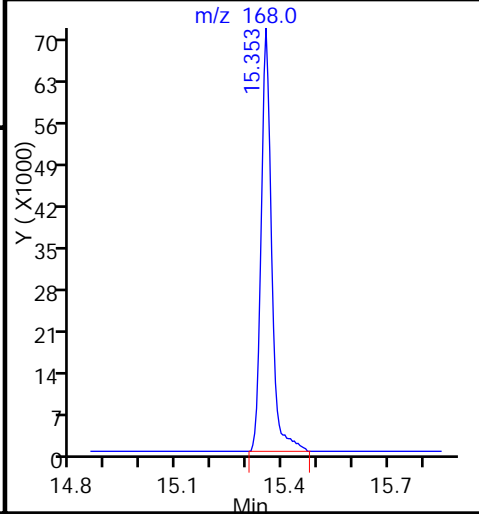
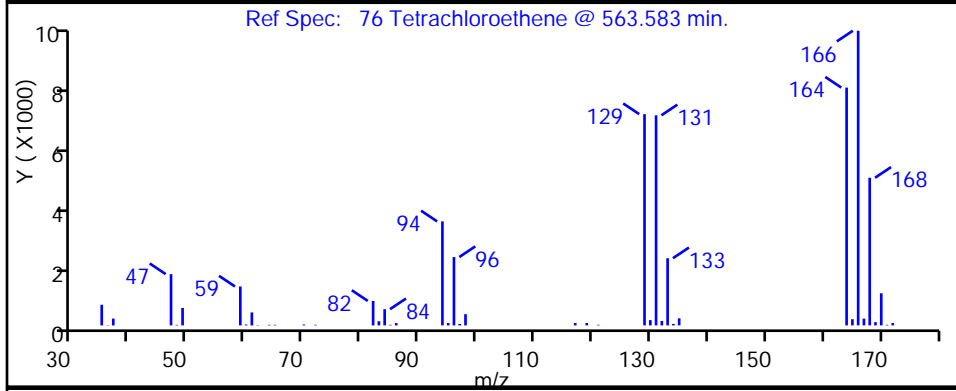
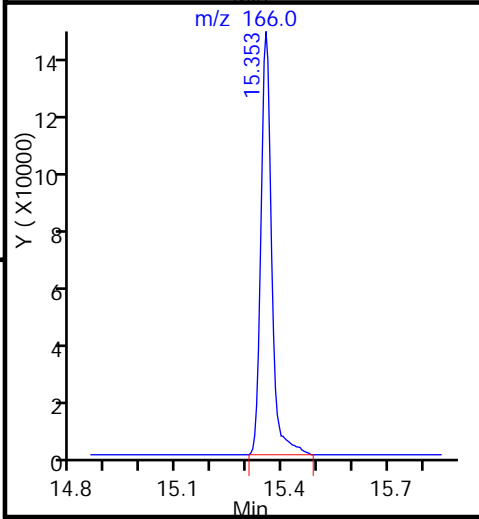
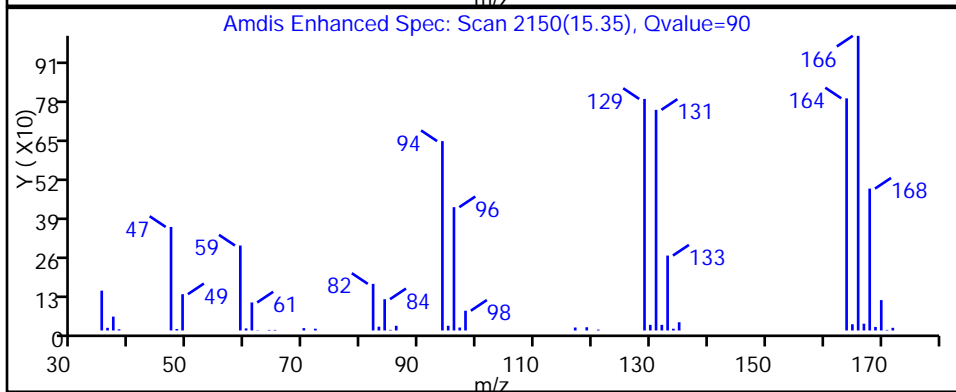
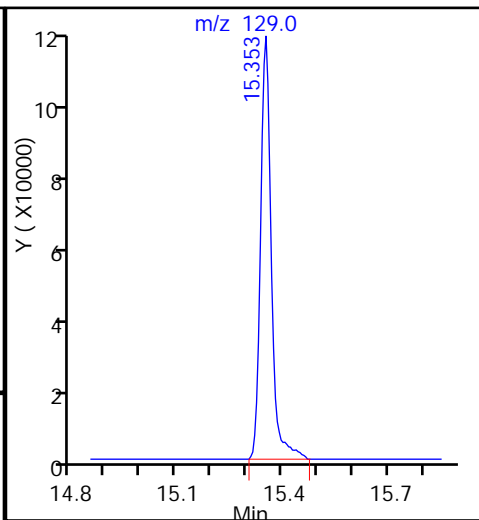
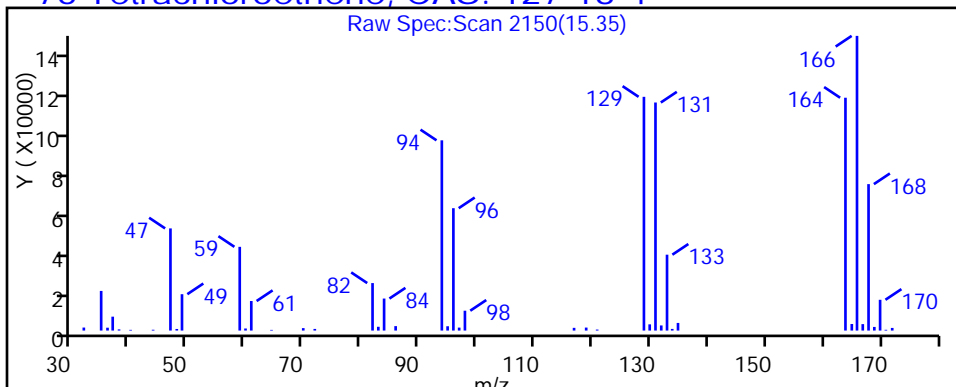
Method: MJ_TO15

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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-129 Lab Sample ID: 140-5852-4
 Matrix: Air Lab File ID: GI21P105.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:15
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 19:01
 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.: 6625 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	0.46		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	0.12		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	0.73		0.080	
123-91-1	1,4-Dioxane	88.11	0.26		0.20	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20	
78-93-3	2-Butanone	72.11	1.1		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20	
71-43-2	Benzene	78.11	0.18		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	0.094		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	0.26		0.080	
74-87-3	Chloromethane	50.49	0.40		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-129 Lab Sample ID: 140-5852-4
 Matrix: Air Lab File ID: GI21P105.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:15
 Sample wt/vol: 500 (mL) Date Analyzed: 09/21/2016 19:01
 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.: 6625 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	0.59		0.080	
64-17-5	Ethanol	46.07	5.1	*	2.0	
100-41-4	Ethylbenzene	106.17	0.19		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	0.27		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	0.72		0.080	
95-47-6	o-Xylene	106.17	0.25		0.080	
100-42-5	Styrene	104.15	0.29		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	3.3		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	0.28		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-129 Lab Sample ID: 140-5852-4
 Matrix: Air Lab File ID: GI21P105.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:15
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 19:01
 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.: 6625 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	2.3		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	0.61		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	4.4		0.48
123-91-1	1,4-Dioxane	88.11	0.95		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93
78-93-3	2-Butanone	72.11	3.3		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82
71-43-2	Benzene	78.11	0.58		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	0.59		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	1.3		0.39
74-87-3	Chloromethane	50.49	0.82		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-129 Lab Sample ID: 140-5852-4
 Matrix: Air Lab File ID: GI21P105.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:15
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 19:01
 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.: 6625 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	2.9		0.40
64-17-5	Ethanol	46.07	9.6	*	3.8
100-41-4	Ethylbenzene	106.17	0.80		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	0.95		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	3.1		0.35
95-47-6	o-Xylene	106.17	1.1		0.35
100-42-5	Styrene	104.15	1.2		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	23		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	1.6		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D
 Lims ID: 140-5852-A-4
 Client ID: VP-129
 Sample Type: Client
 Inject. Date: 21-Sep-2016 19:01:30 ALS Bottle#: 5 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-009
 Misc. Info.: 140-5852-a-4
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 13:56:45

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.449	8.454	-0.005	90	240868	4.00	
* 2 1,4-Difluorobenzene	114	10.611	10.617	-0.006	96	1165746	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.394	15.394	0.000	91	1105713	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	92	849473	4.40	
8 Dichlorodifluoromethane	85	3.758	3.758	0.000	100	121632	0.5872	
9 Chloromethane	52	3.919	3.919	0.000	100	9329	0.3977	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.925	3.930	-0.005	37	2081	0.0160	
17 Ethanol	31	4.658	4.663	-0.005	97	176311	5.10	
20 Trichlorofluoromethane	101	5.090	5.095	-0.005	99	55175	0.2835	
29 2-Methyl-2-propanol	59	5.845	5.834	0.011	94	6191	0.0588	
30 1,1,2-Trichloro-1,2,2-trif	101	5.904	5.909	-0.005	89	8960	0.0753	
31 Methylene Chloride	84	6.049	6.055	-0.006	90	15960	0.2722	
39 2-Butanone (MEK)	72	7.716	7.721	-0.005	99	39333	1.12	
40 Hexane	56	7.770	7.775	-0.005	78	9046	0.1421	
44 Chloroform	83	8.465	8.476	-0.011	96	41247	0.2564	
49 Benzene	78	10.051	10.056	-0.005	96	38605	0.1804	
50 Cyclohexane	69	10.061	10.067	-0.006	61	1110	0.0303	
52 Carbon tetrachloride	117	10.078	10.088	-0.010	97	15856	0.0940	
56 Isooctane	57	10.843	10.854	-0.011	95	23024	0.0571	
61 Dichlorobromomethane	83	11.555	11.555	0.000	97	8311	0.0500	
62 1,4-Dioxane	88	11.571	11.571	0.000	89	8013	0.2634	
65 4-Methyl-2-pentanone (MIBK	43	12.526	12.520	0.006	97	24442	0.0918	
68 Toluene	91	13.405	13.405	0.001	93	129436	0.5356	
74 Chlorodibromomethane	129	14.176	14.181	-0.005	96	6653	0.0440	
76 Tetrachloroethene	129	14.559	14.564	-0.005	92	321798	3.33	
79 Ethylbenzene	91	15.740	15.739	0.001	99	59330	0.1852	
81 m-Xylene & p-Xylene	91	15.901	15.907	-0.006	97	179252	0.7235	
84 Styrene	104	16.370	16.370	0.000	97	47938	0.2925	
85 o-Xylene	91	16.435	16.435	0.000	97	67671	0.2546	
92 1,3,5-Trimethylbenzene	120	17.821	17.821	0.000	92	21054	0.1244	
96 1,2,4-Trimethylbenzene	105	18.263	18.268	-0.005	98	144365	0.4644	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	93	140565	0.7295	

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Worklist Smp#: 9

Client ID: VP-129

Purge Vol: 500.000 mL

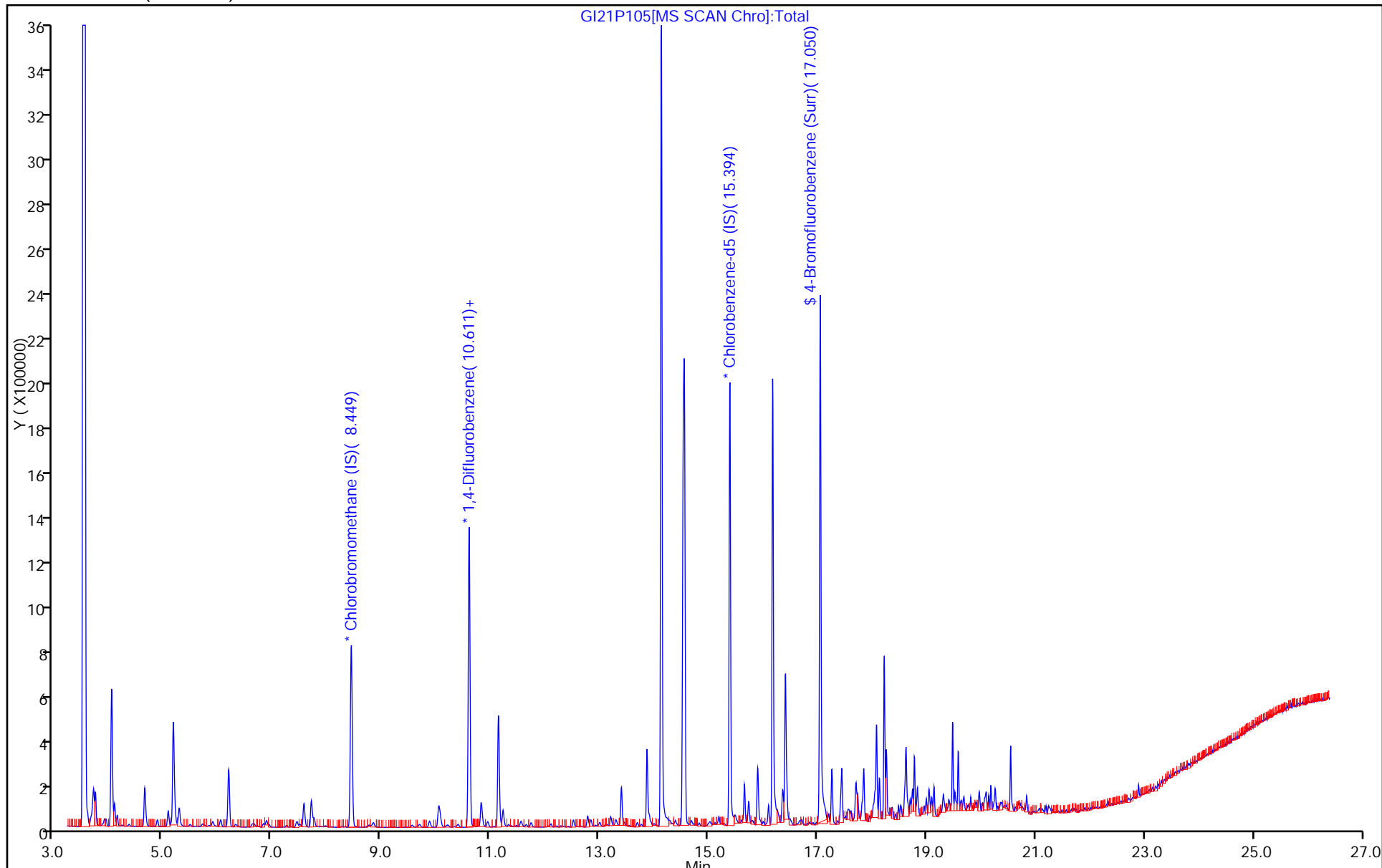
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D
 Lims ID: 140-5852-A-4
 Client ID: VP-129
 Sample Type: Client
 Inject. Date: 21-Sep-2016 19:01:30 ALS Bottle#: 5 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-009
 Misc. Info.: 140-5852-a-4
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 13:56:45

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.40	110.03

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

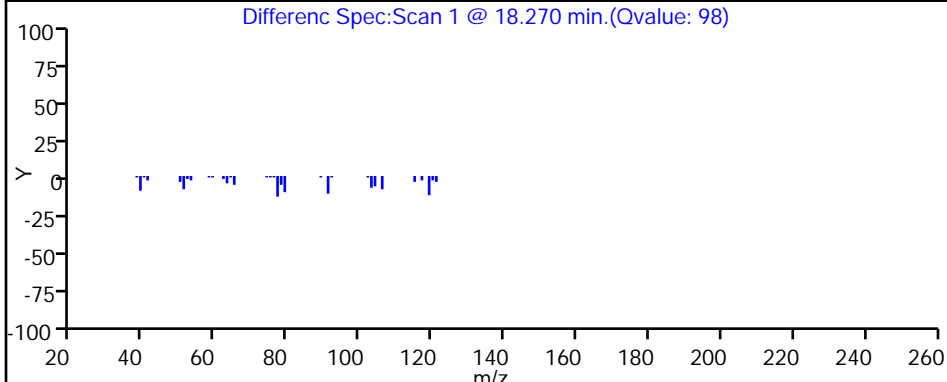
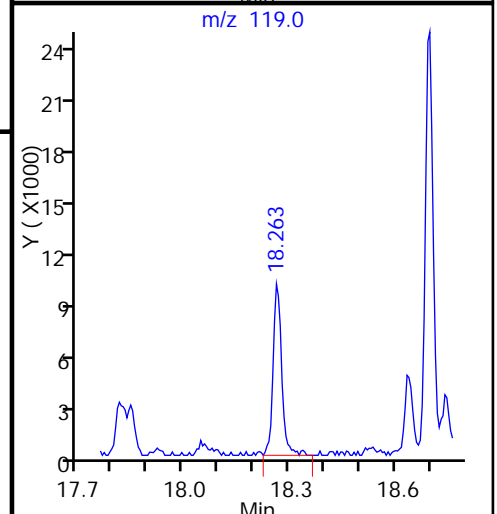
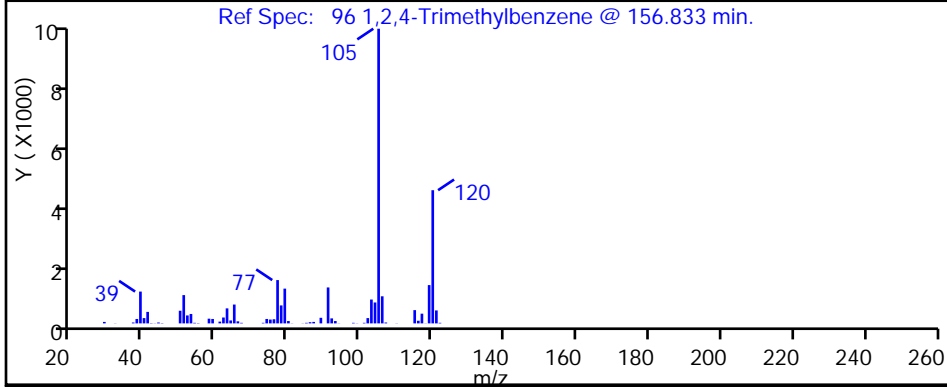
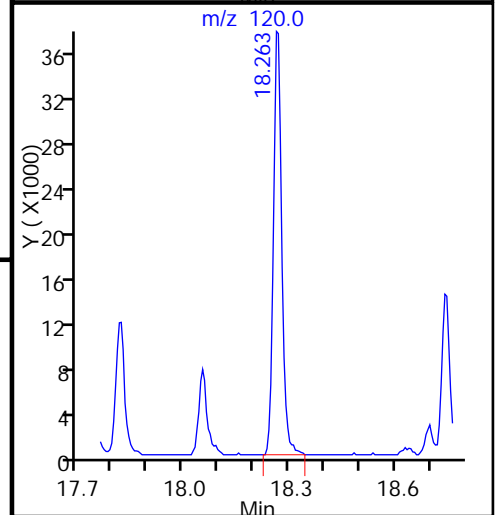
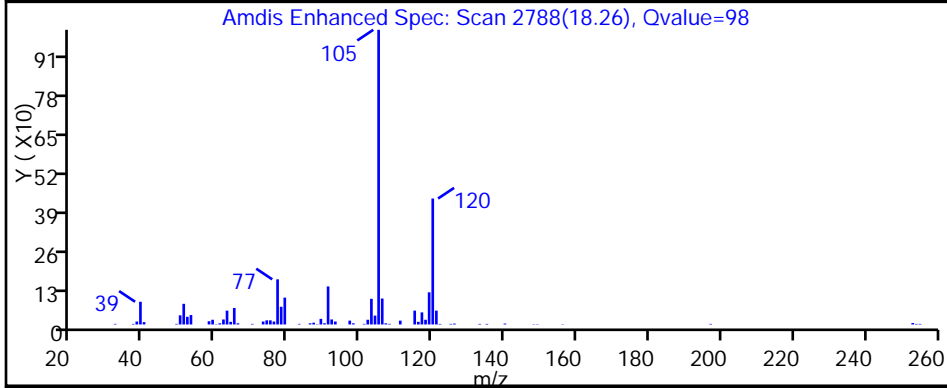
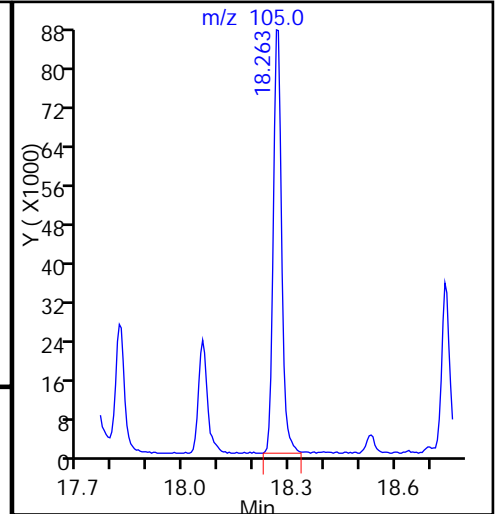
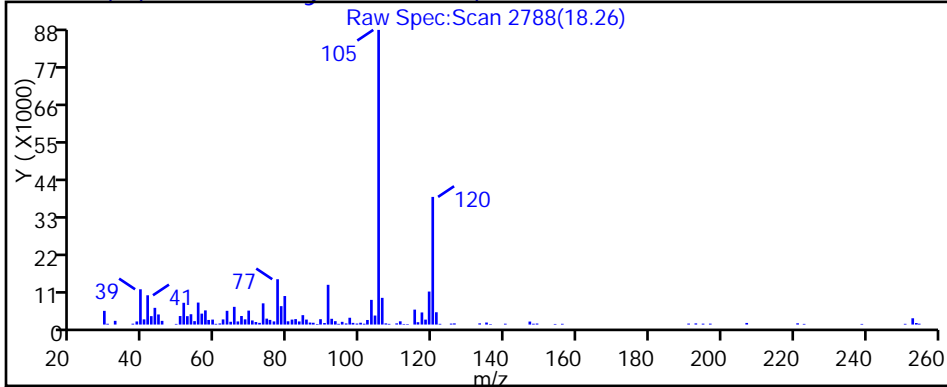
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

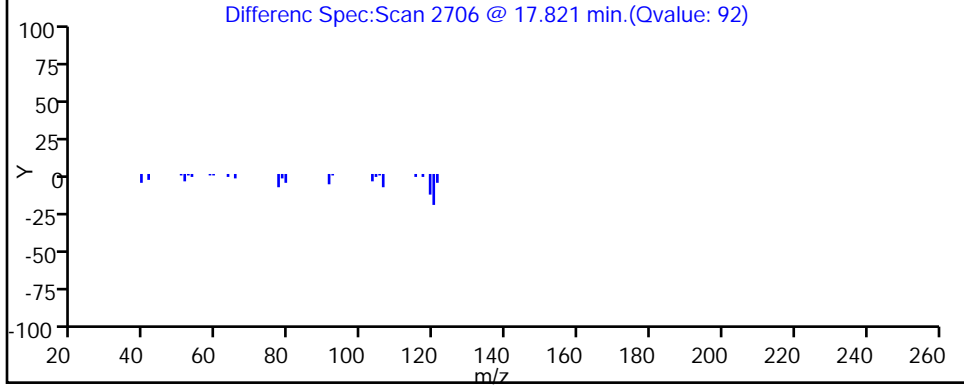
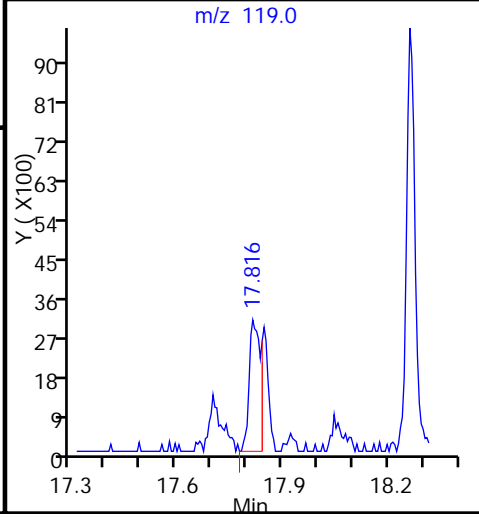
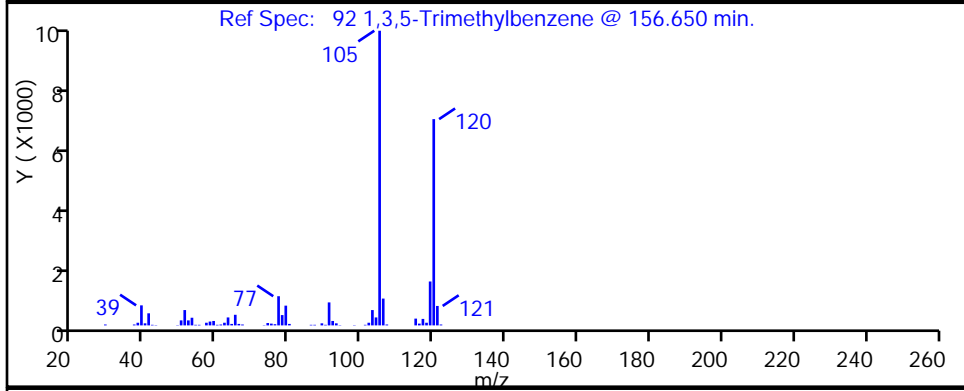
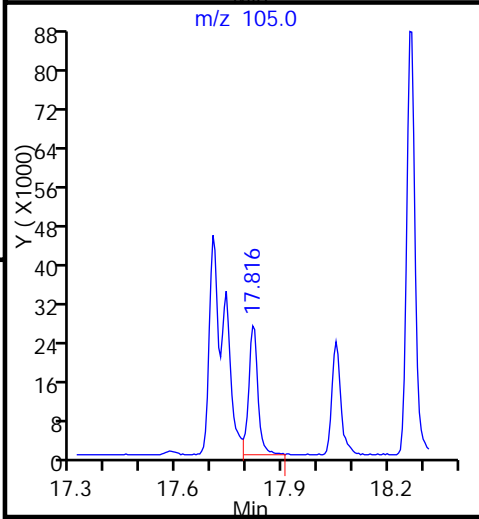
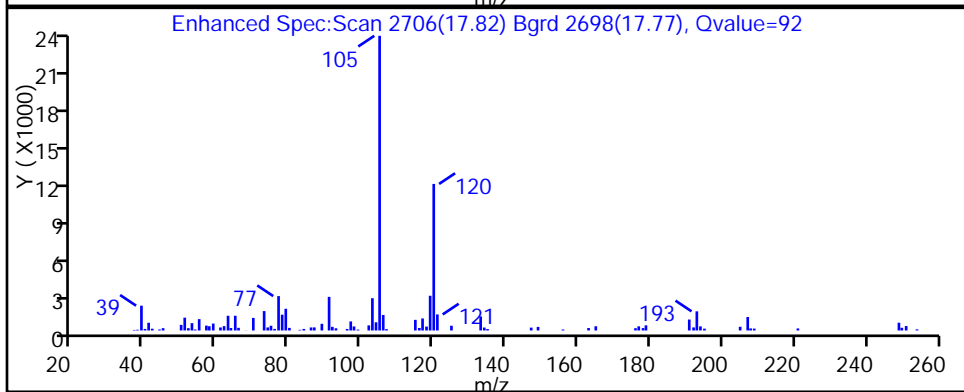
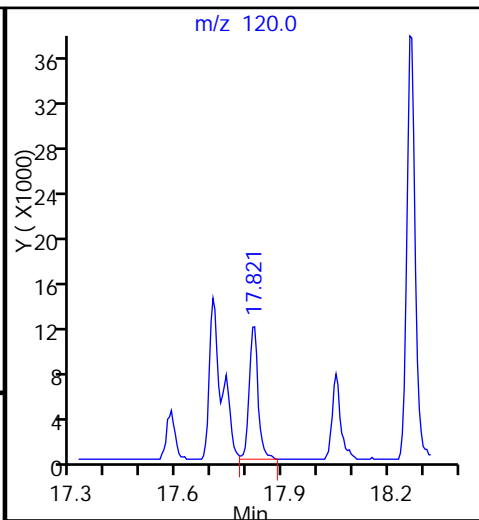
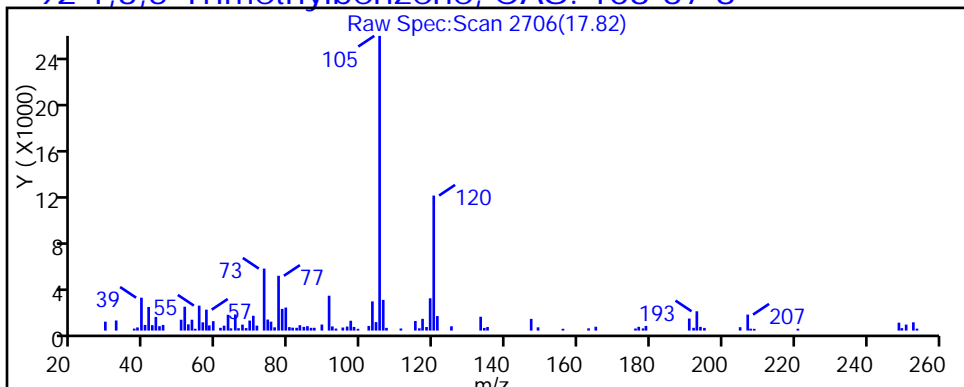
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

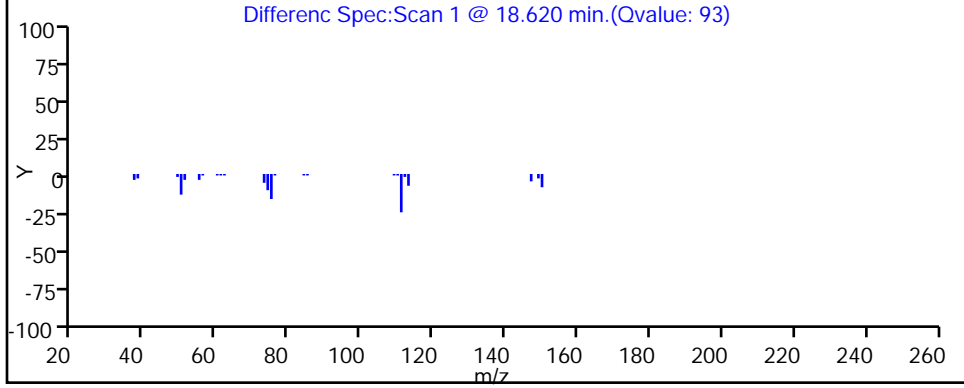
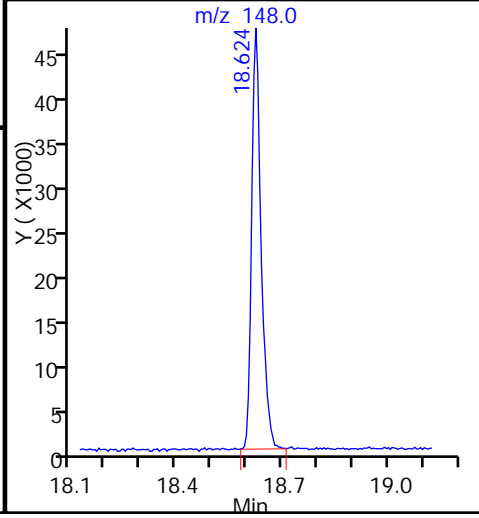
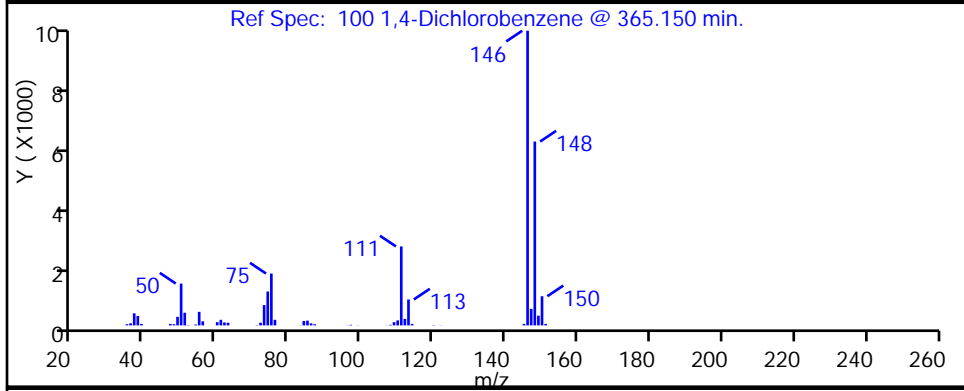
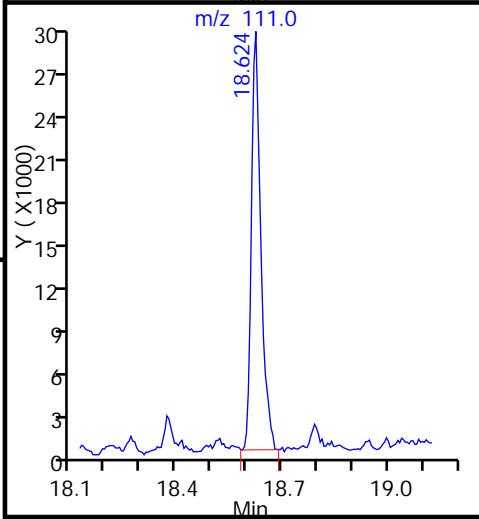
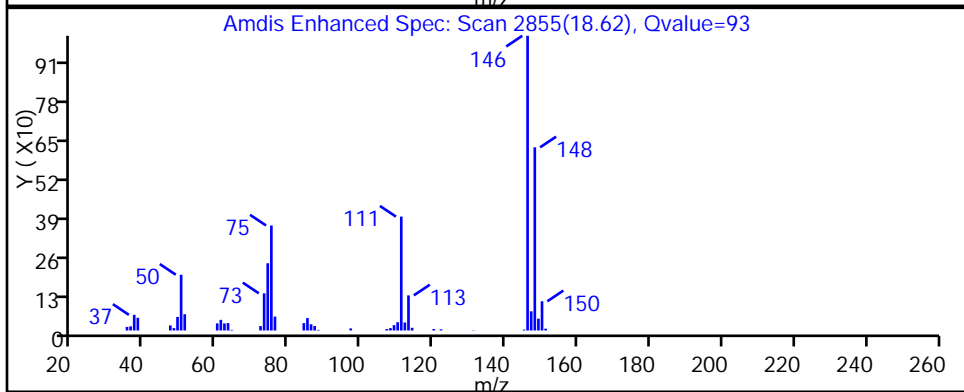
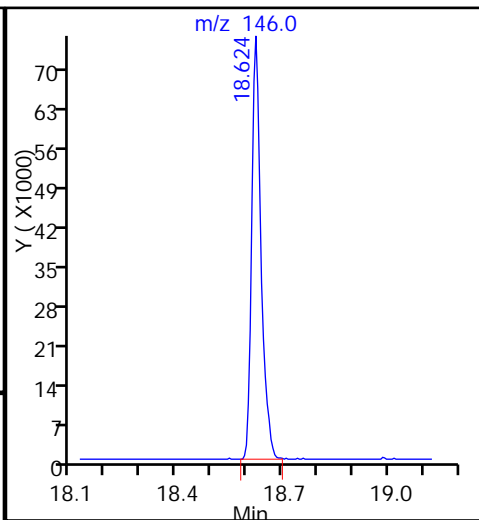
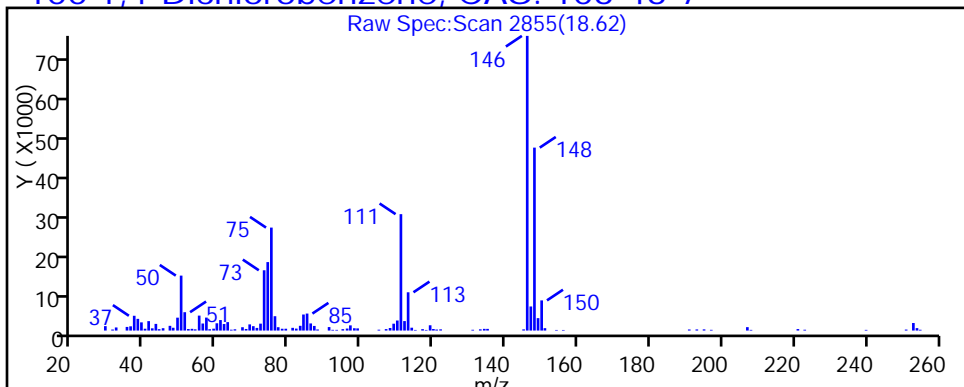
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

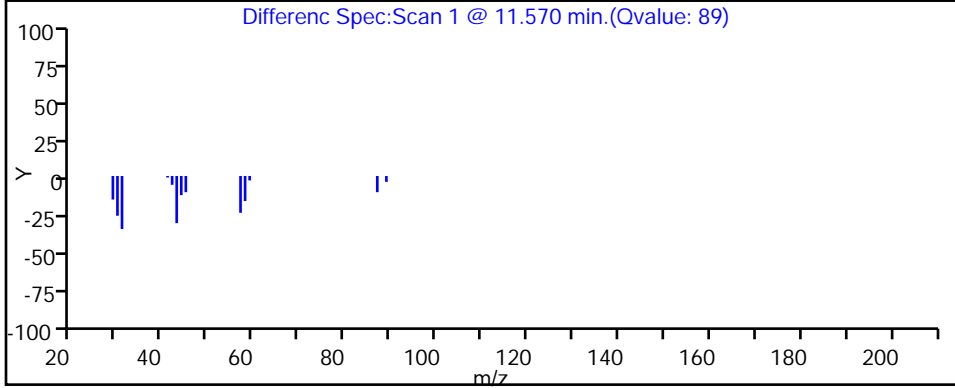
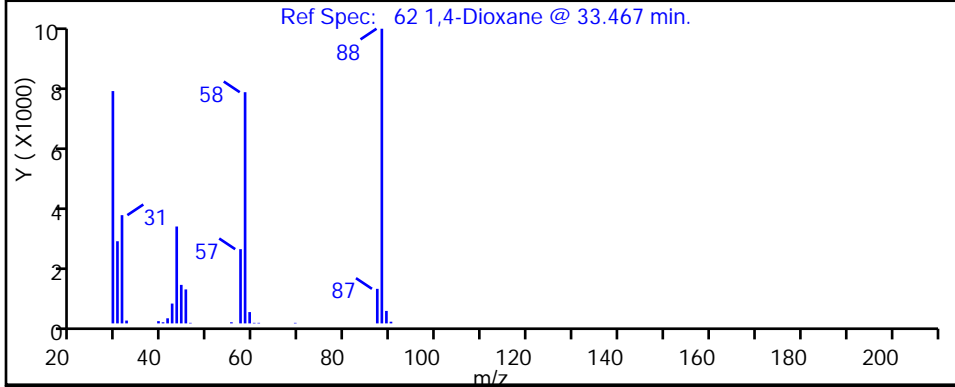
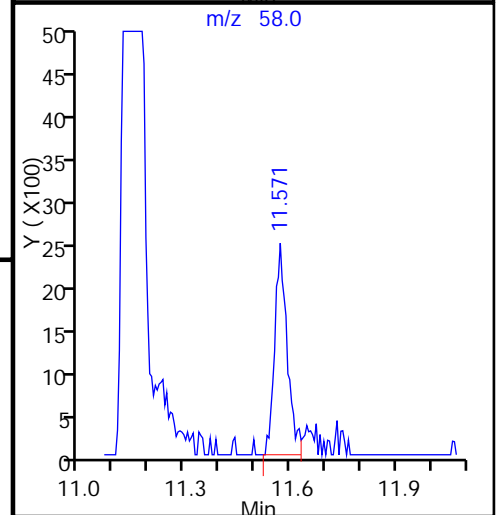
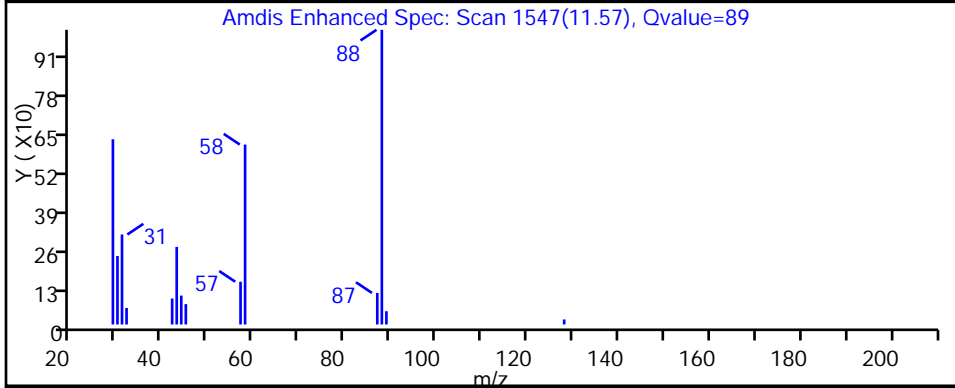
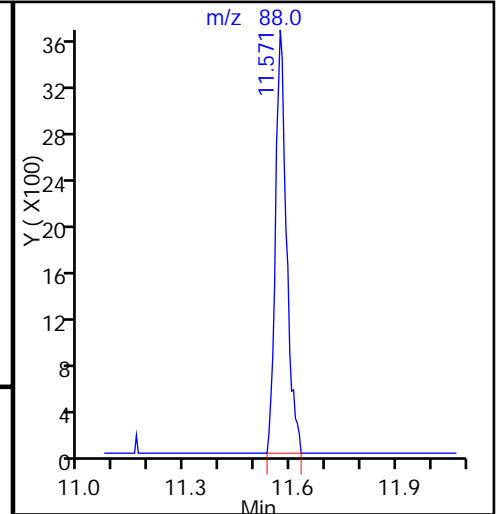
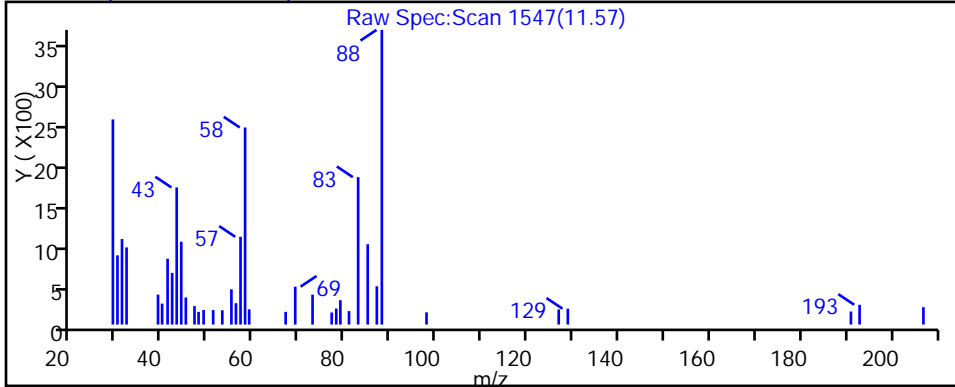
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 1,4-Dioxane, CAS: 123-91-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

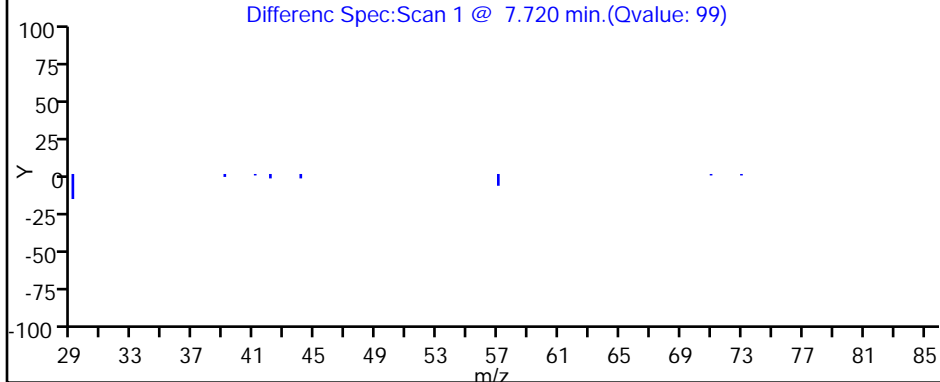
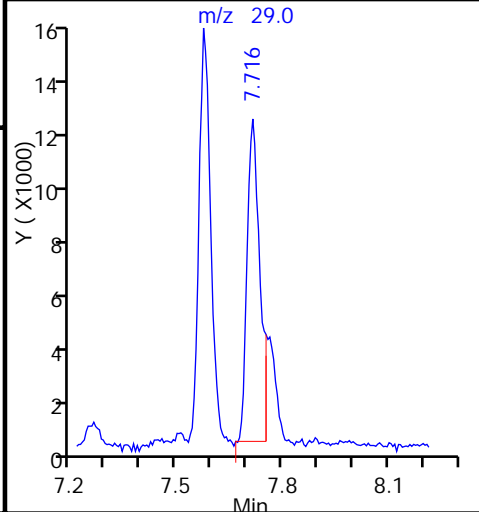
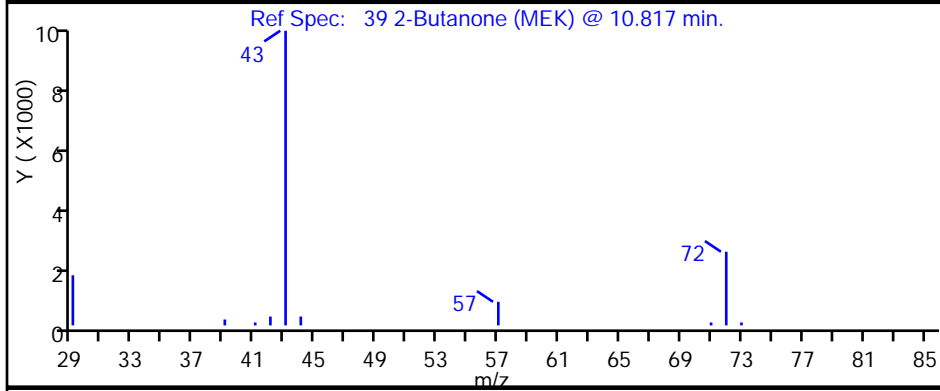
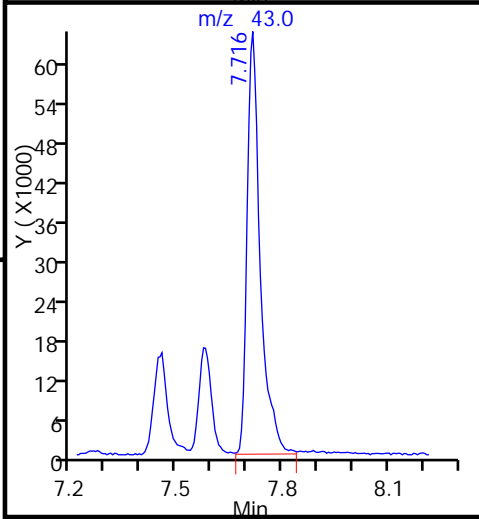
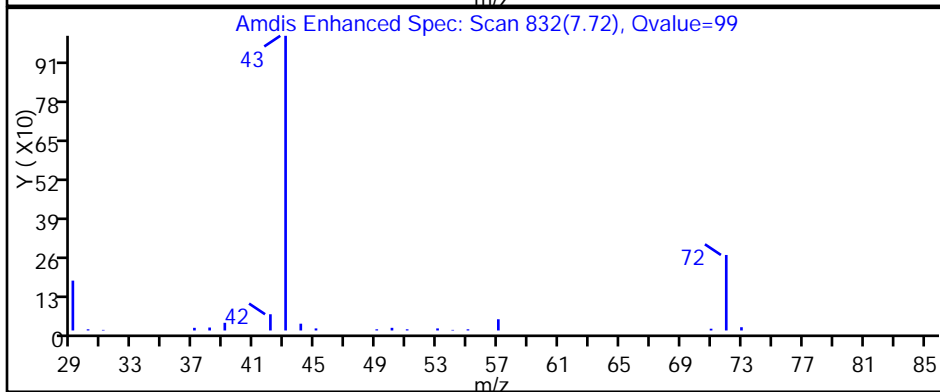
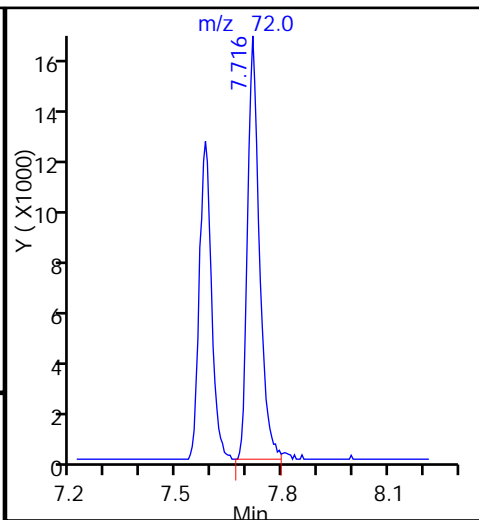
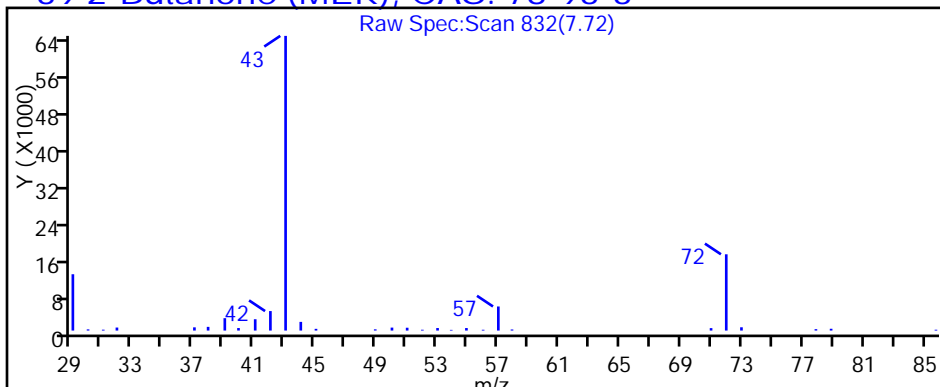
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5 Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

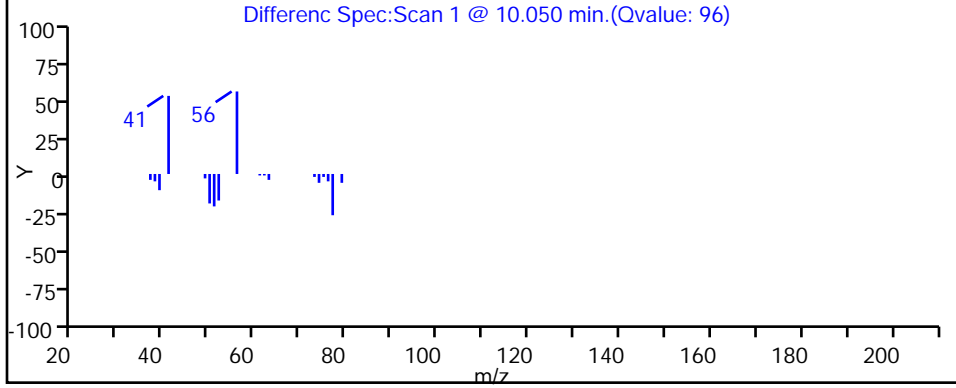
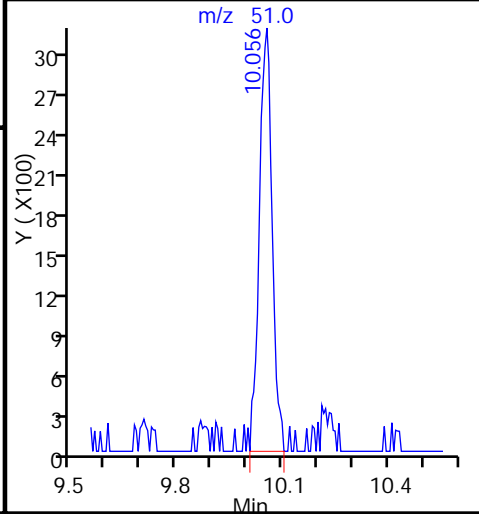
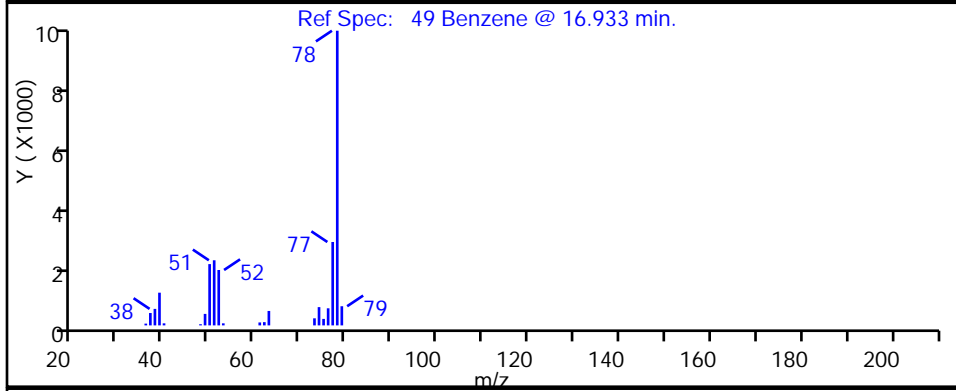
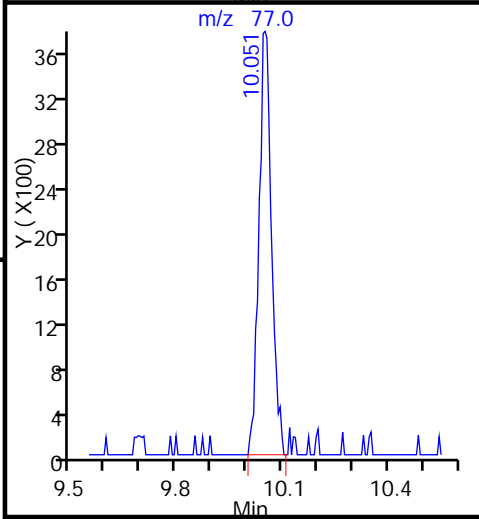
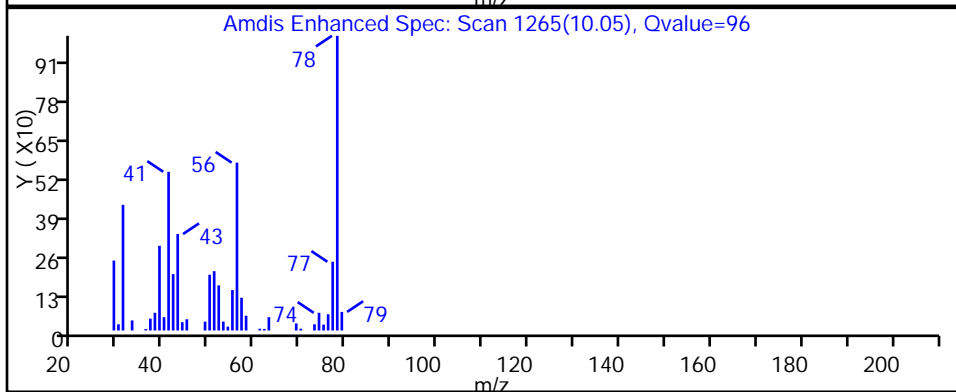
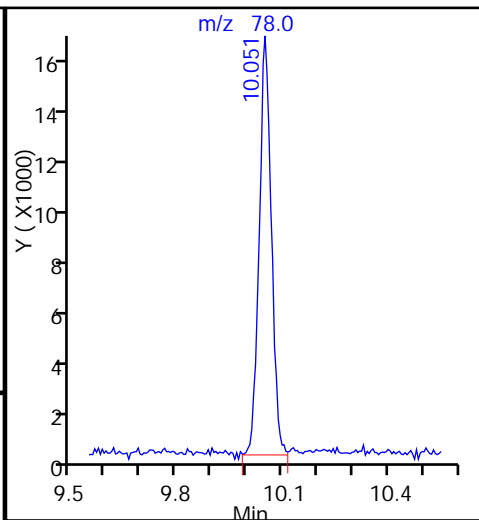
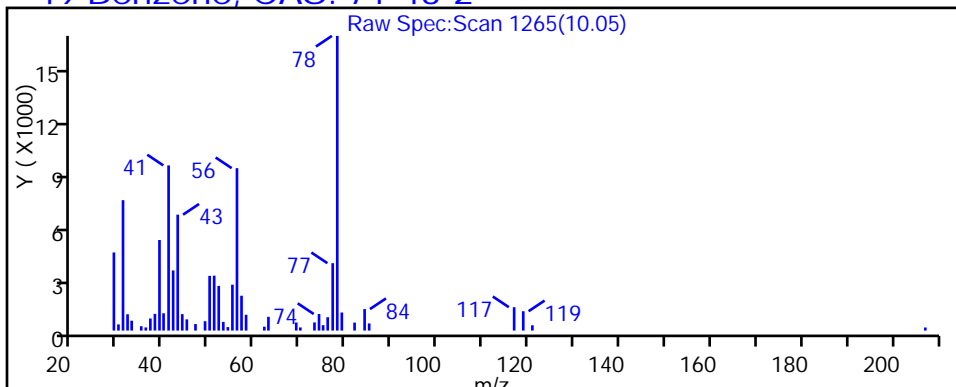
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

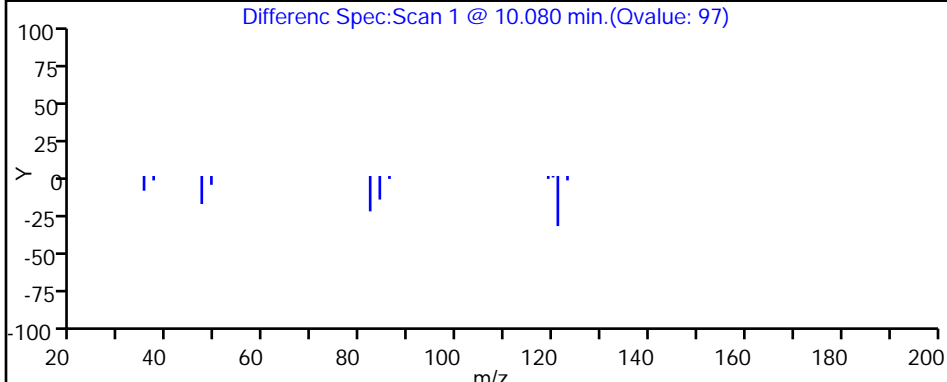
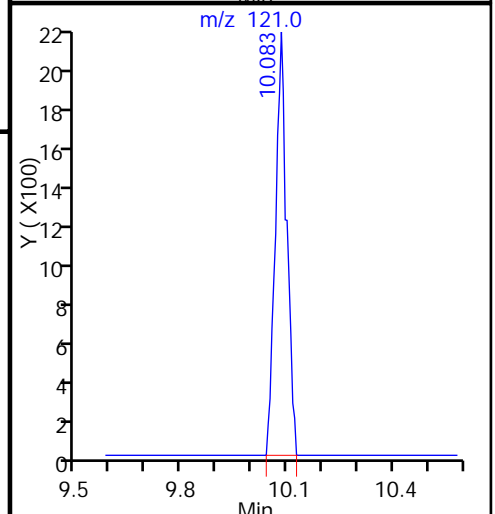
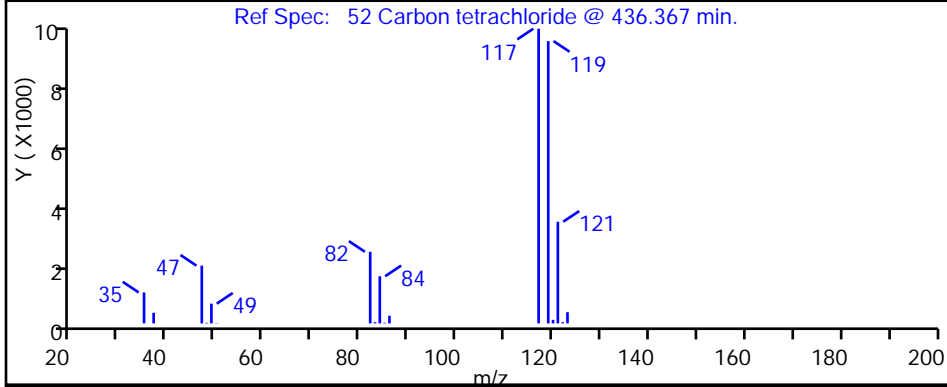
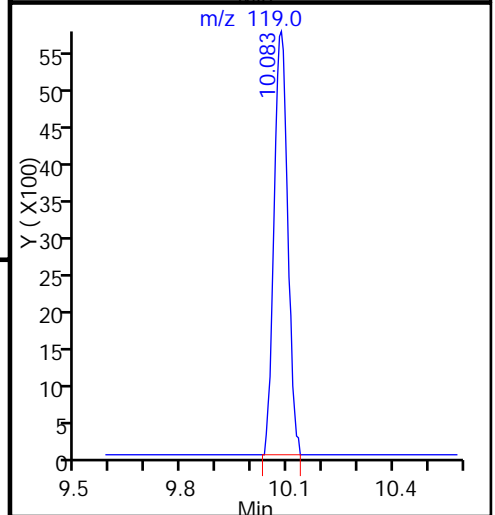
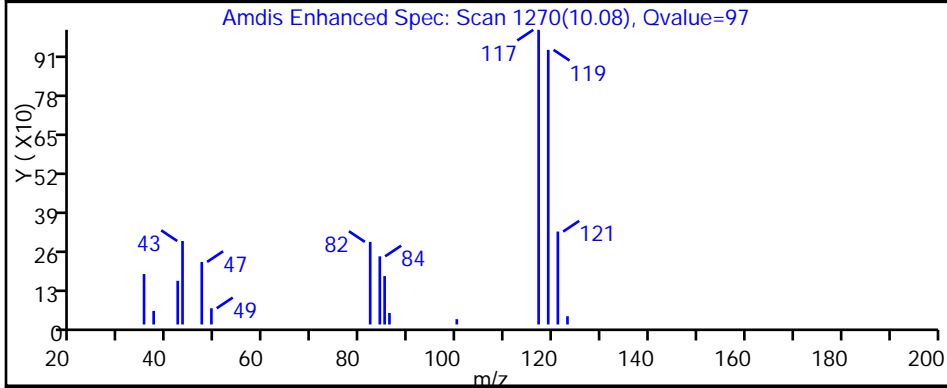
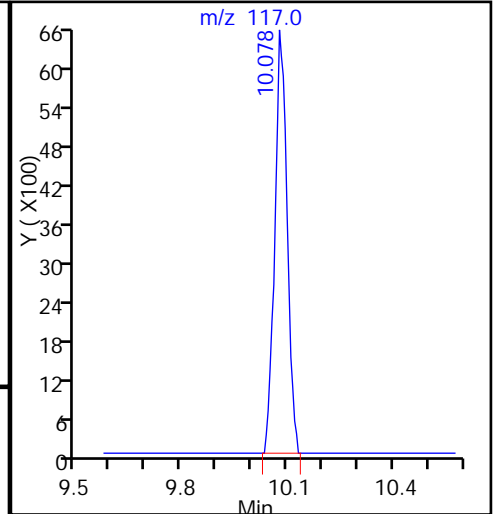
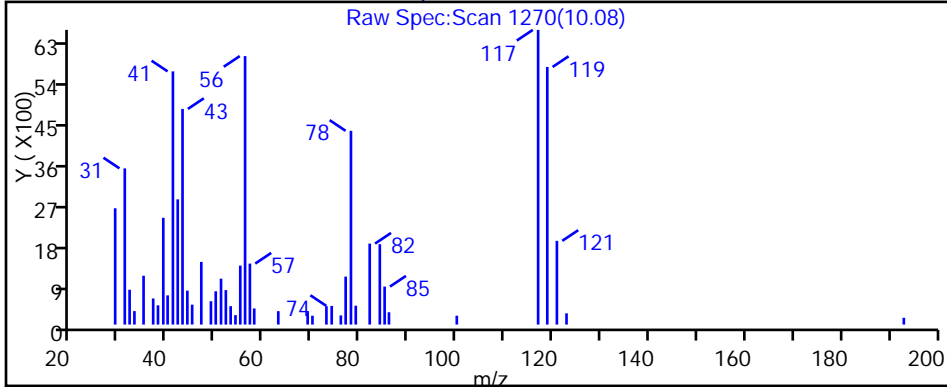
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

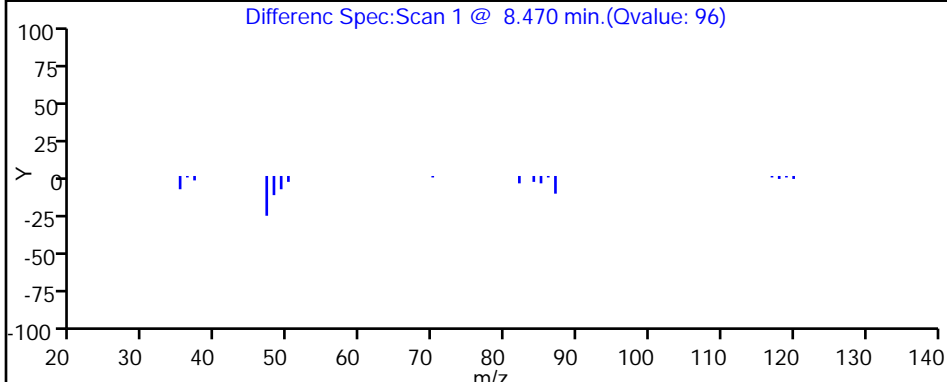
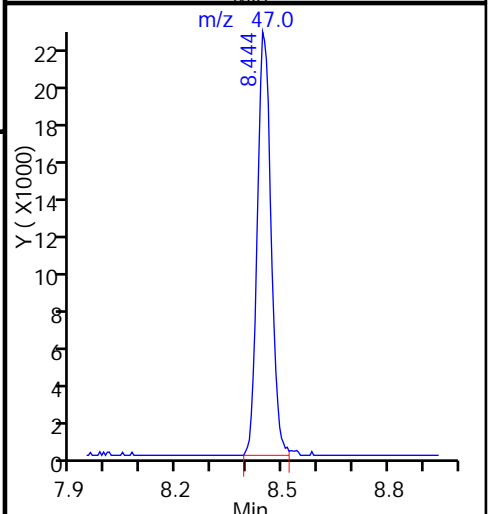
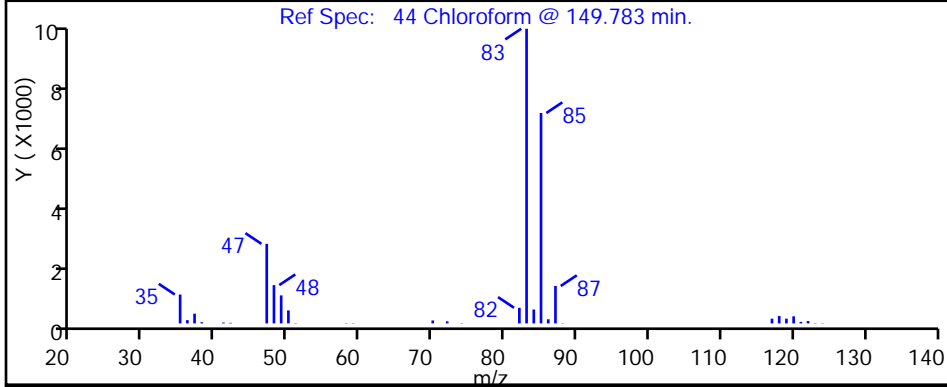
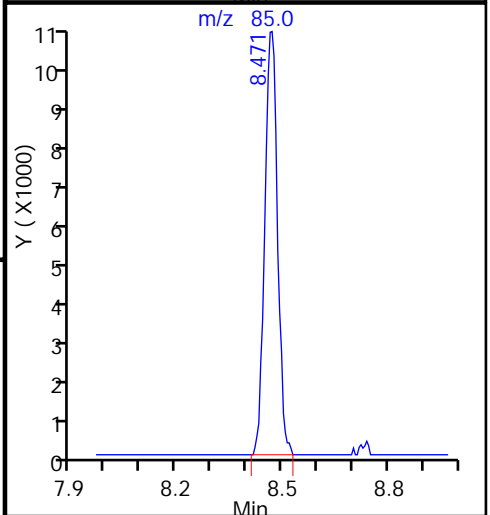
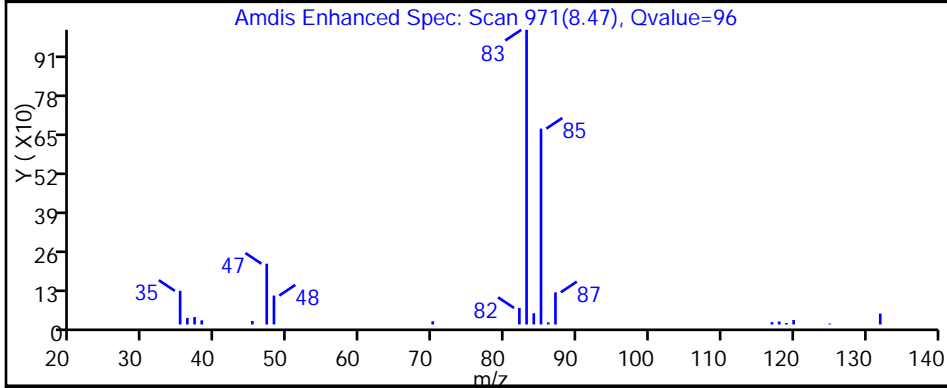
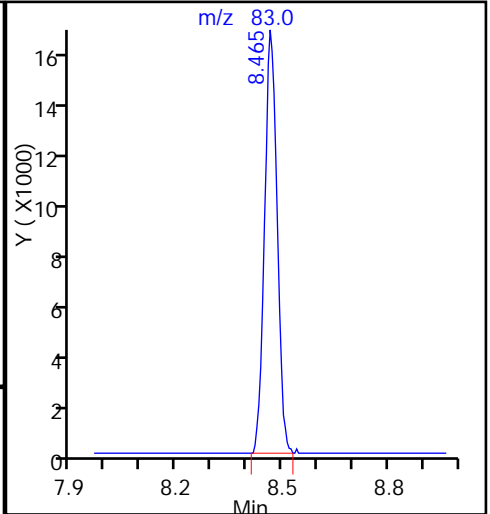
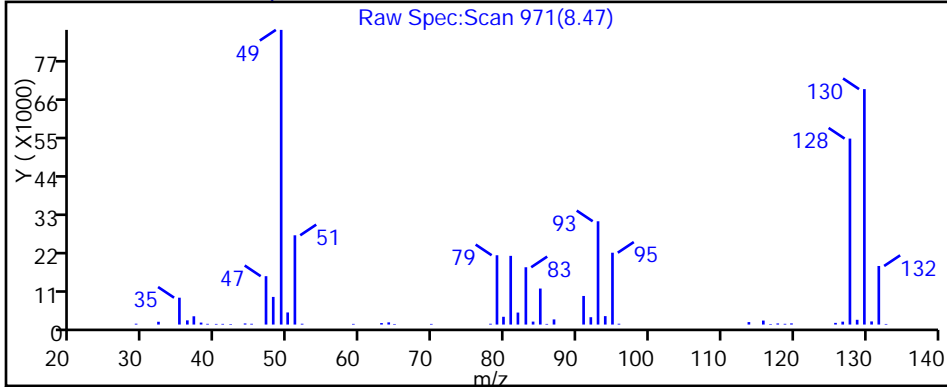
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

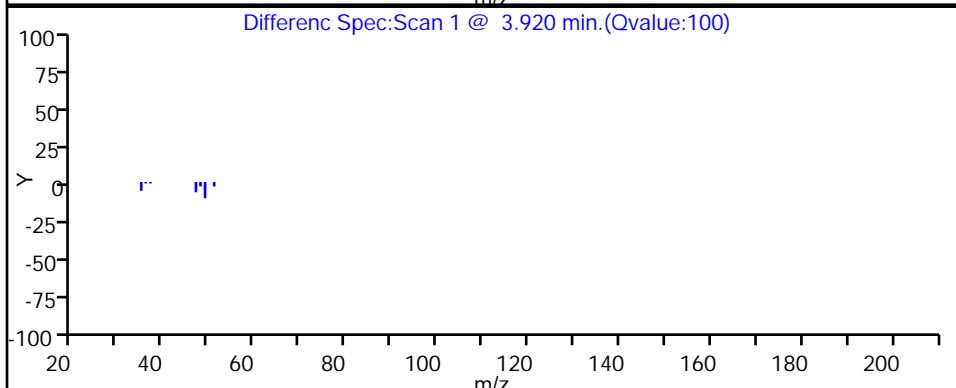
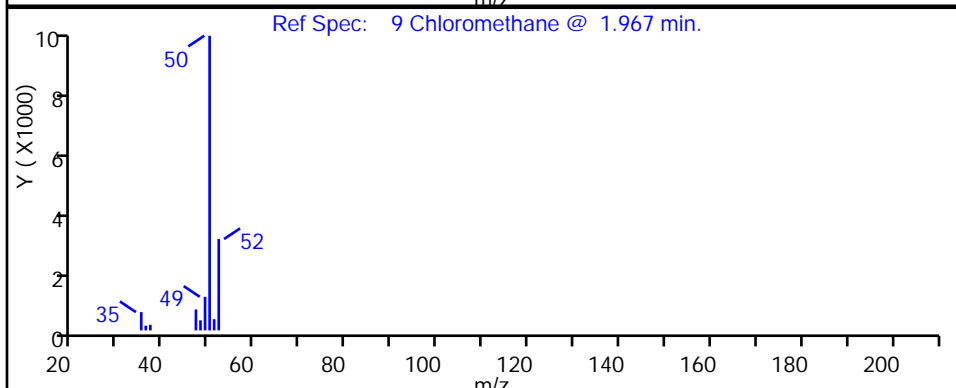
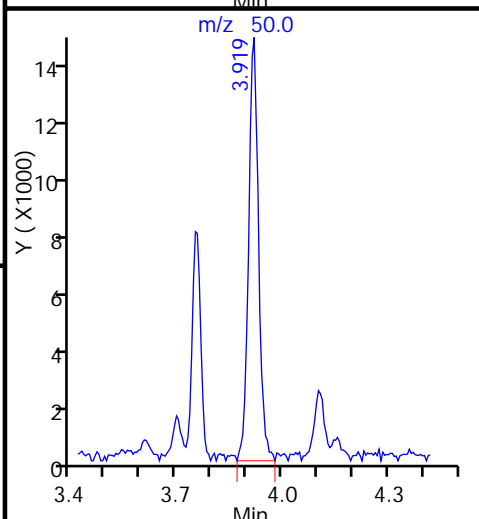
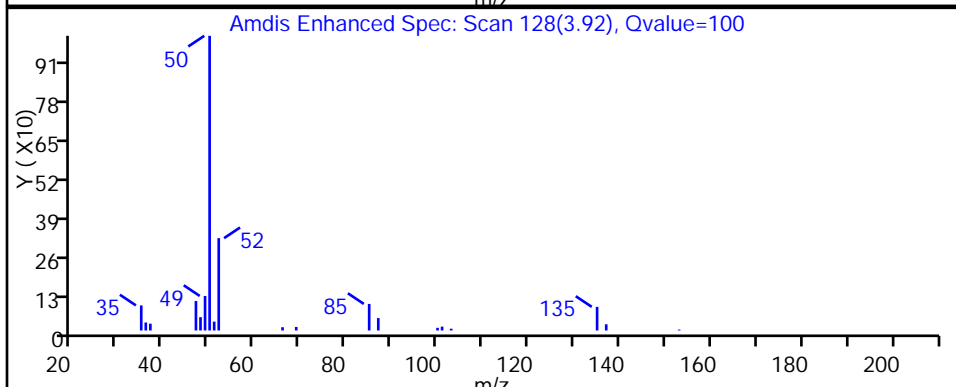
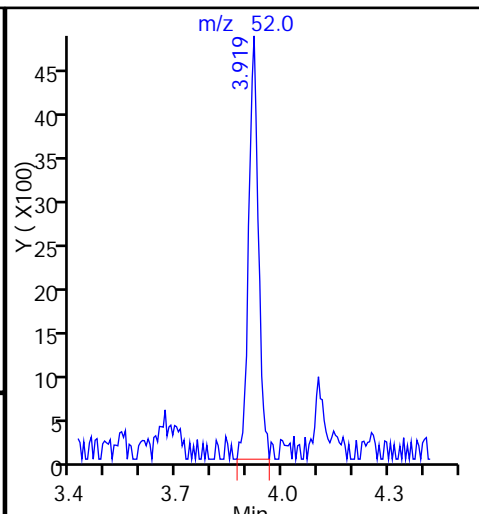
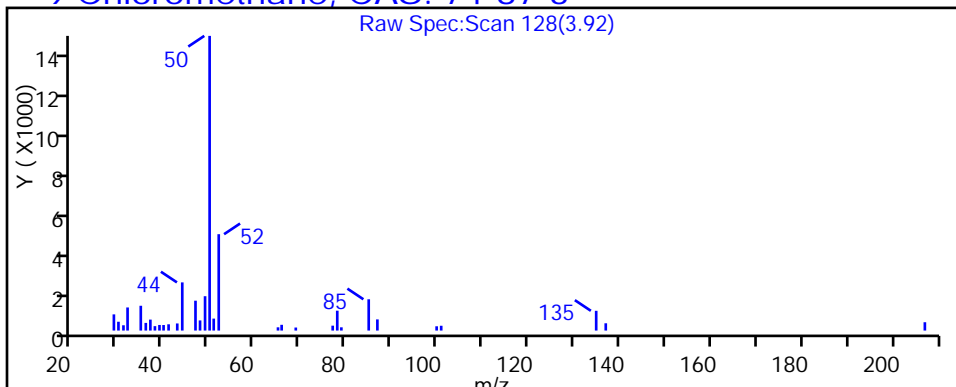
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

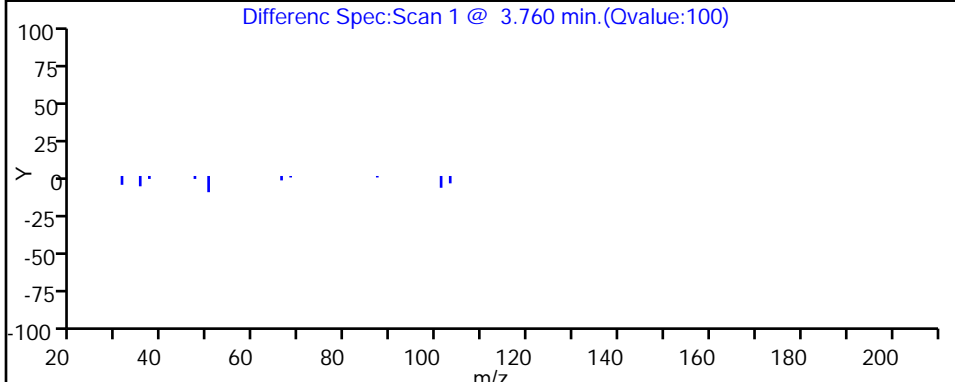
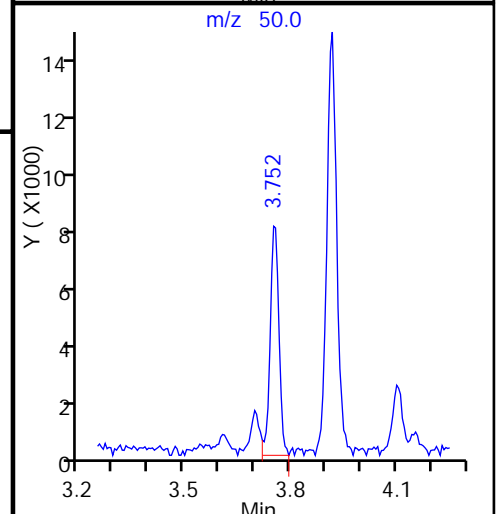
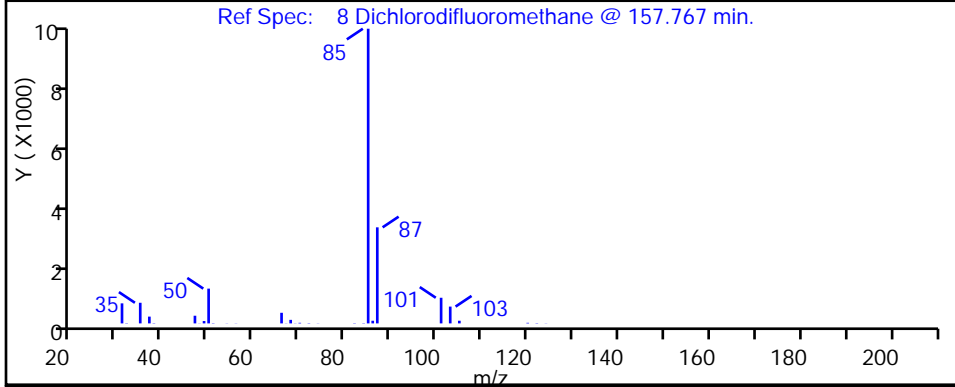
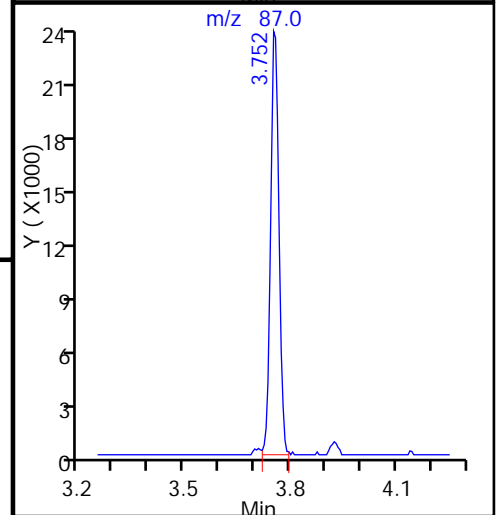
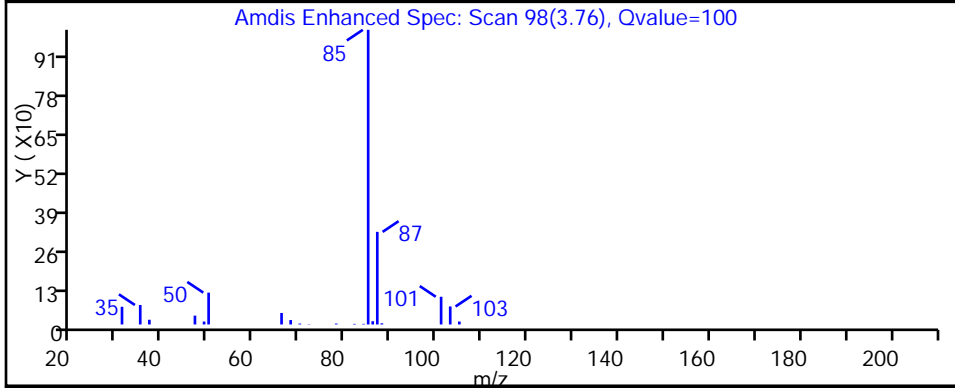
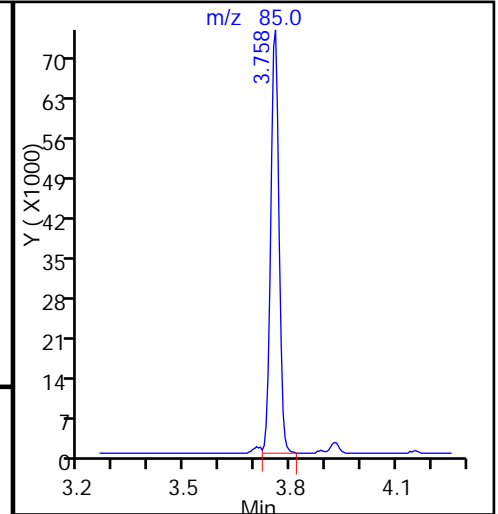
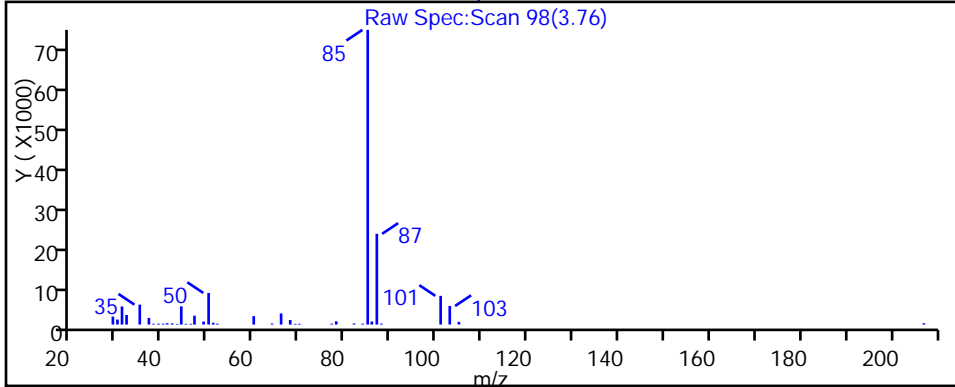
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

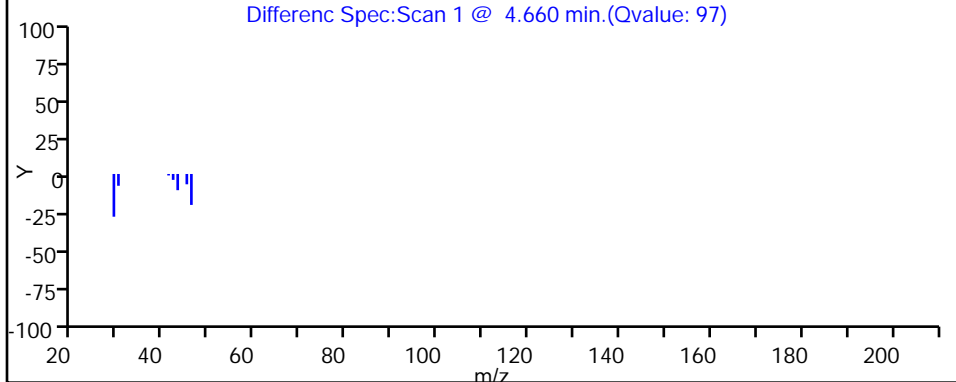
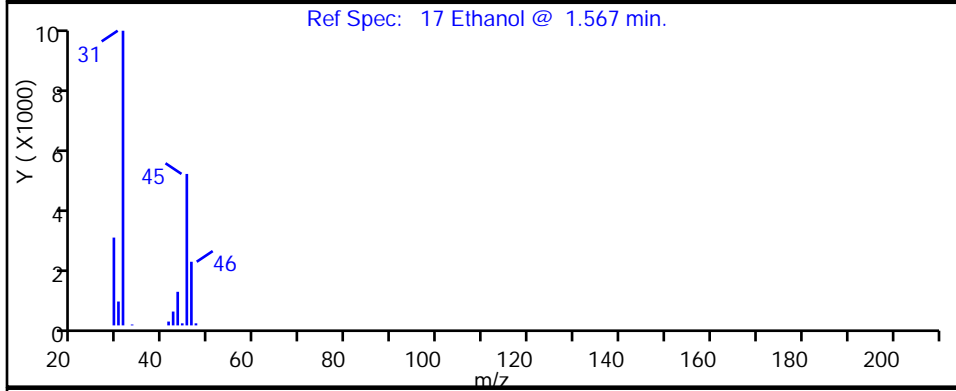
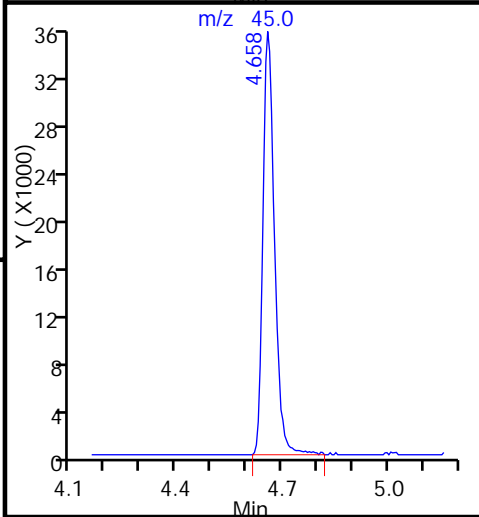
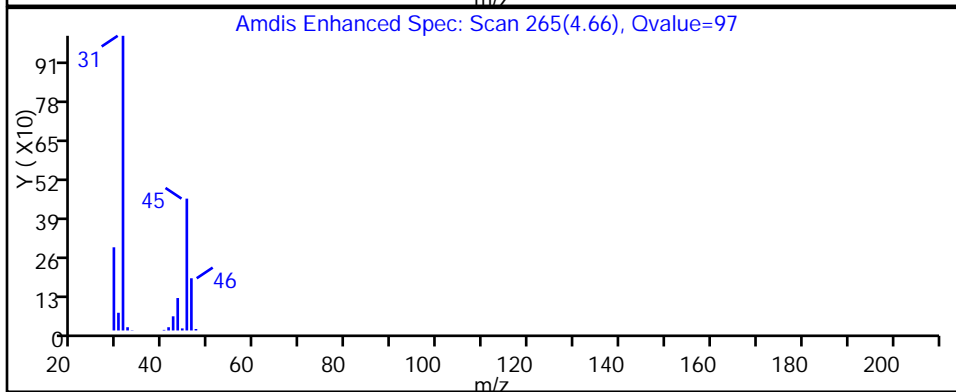
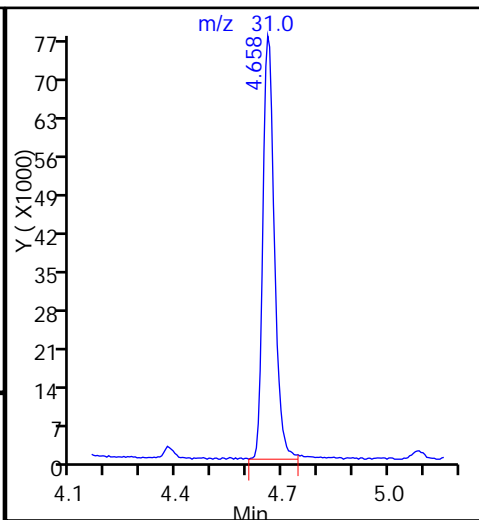
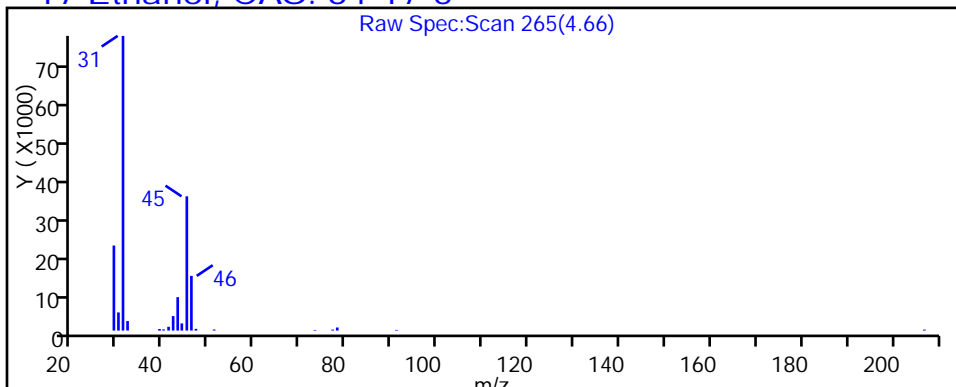
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

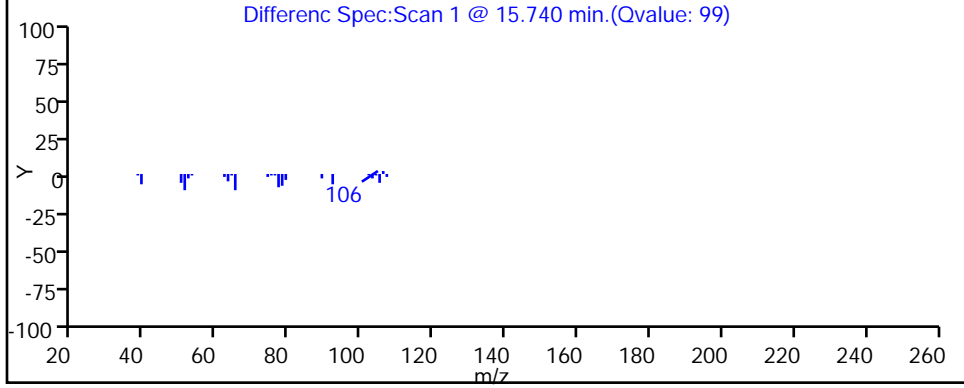
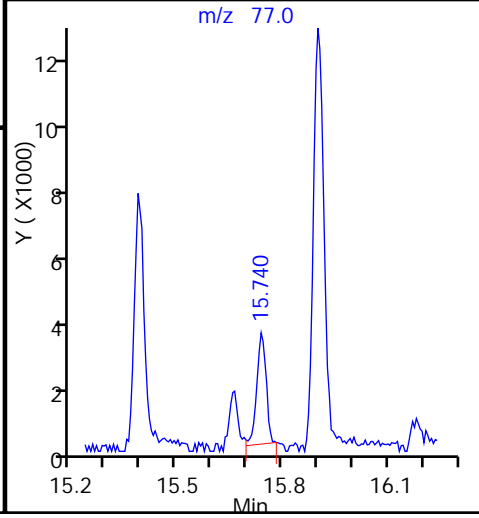
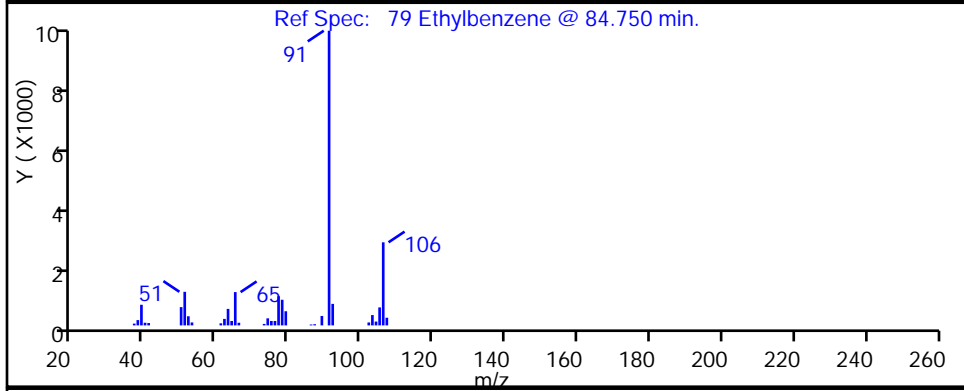
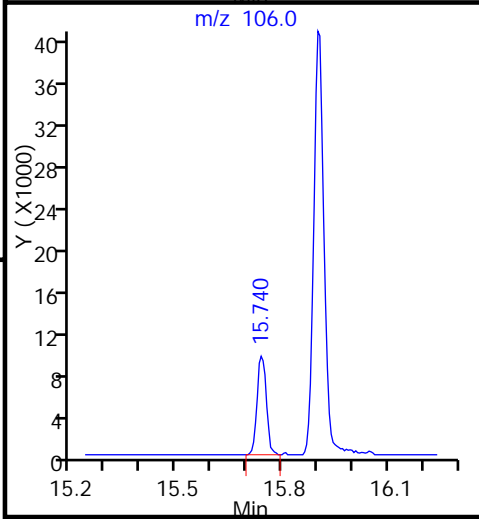
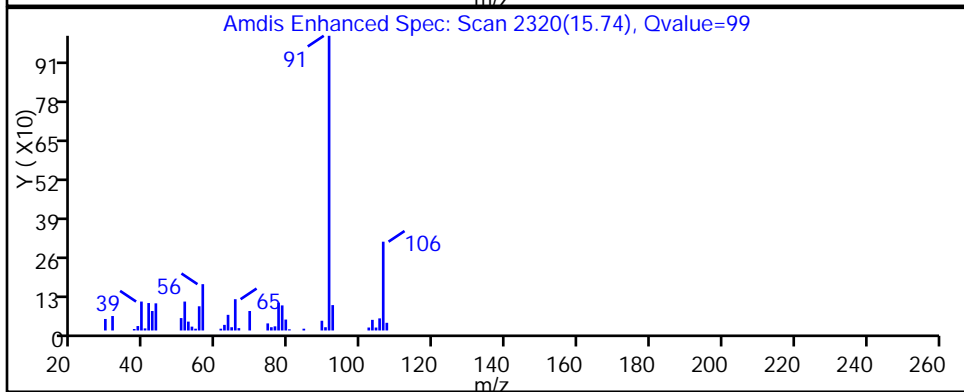
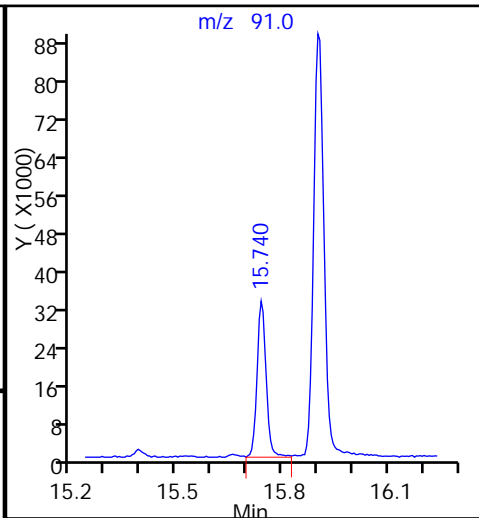
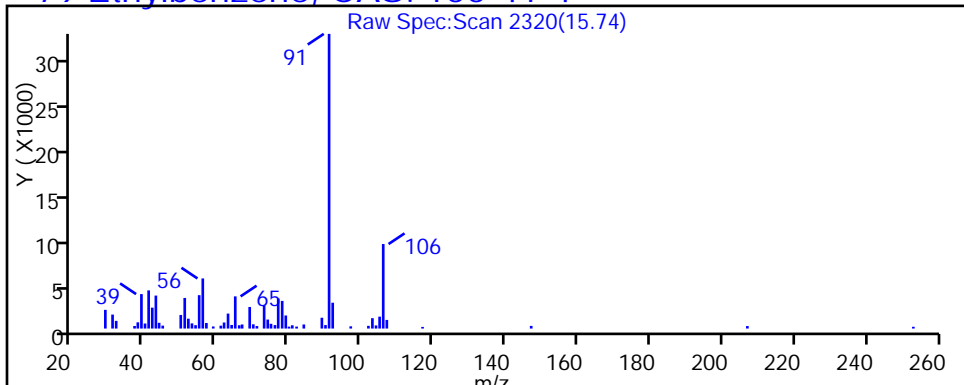
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5 Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

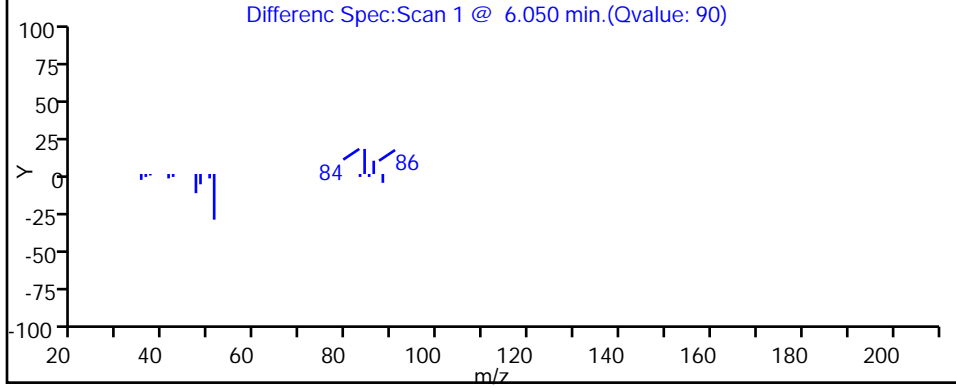
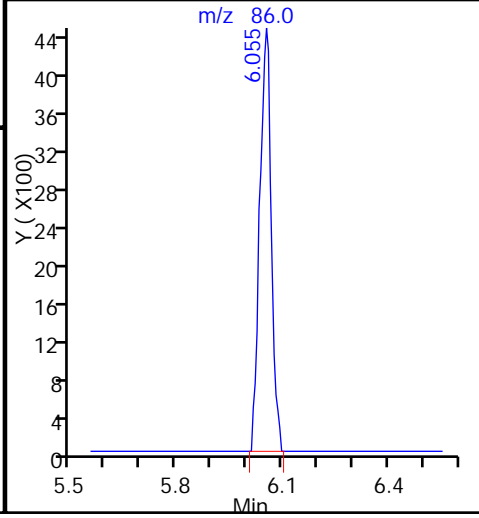
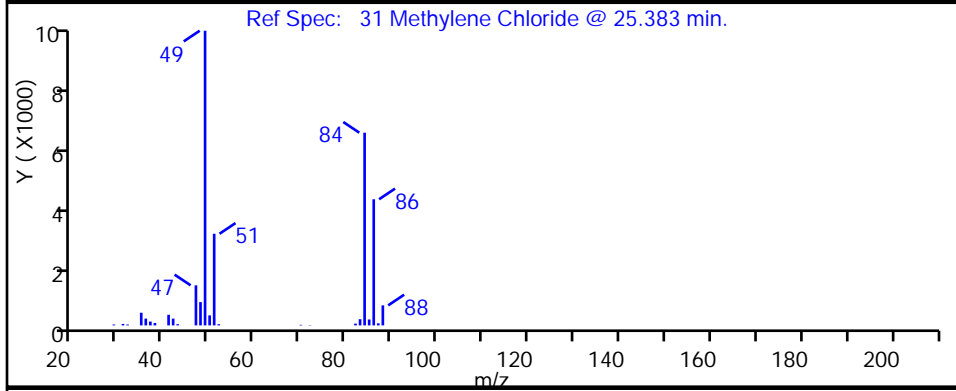
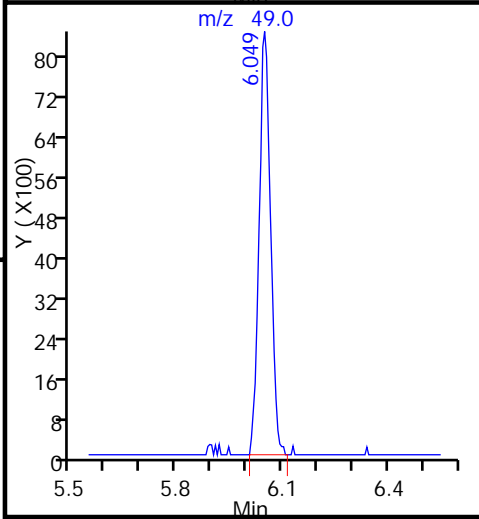
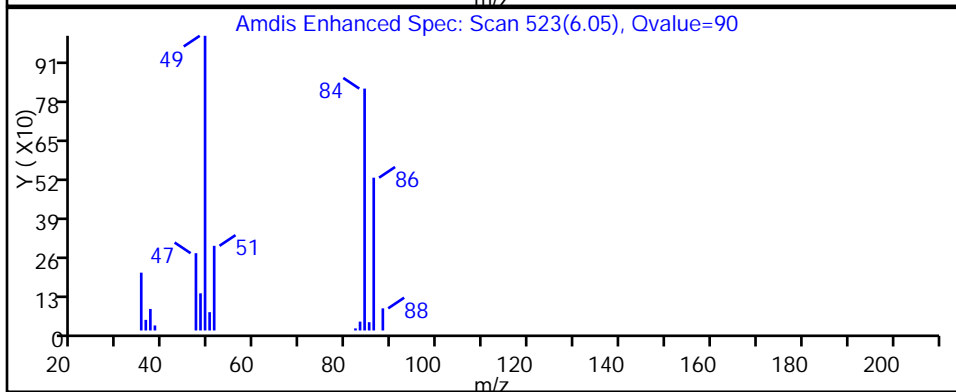
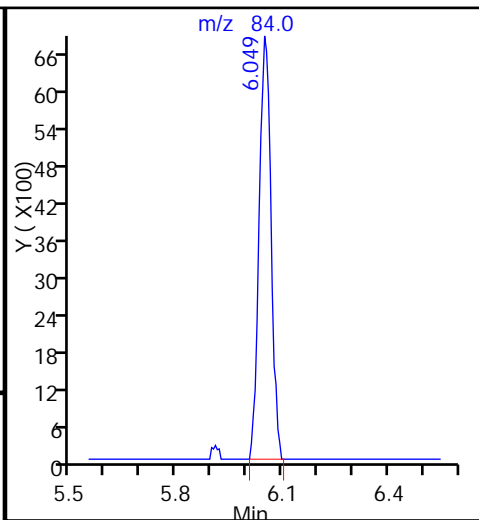
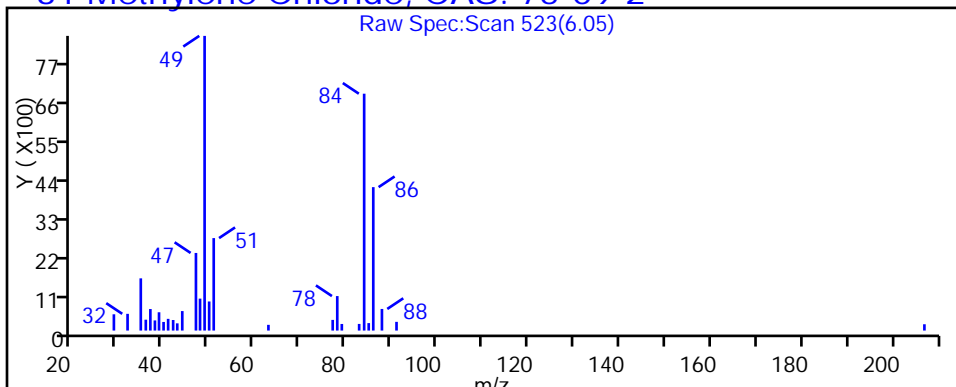
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5 Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

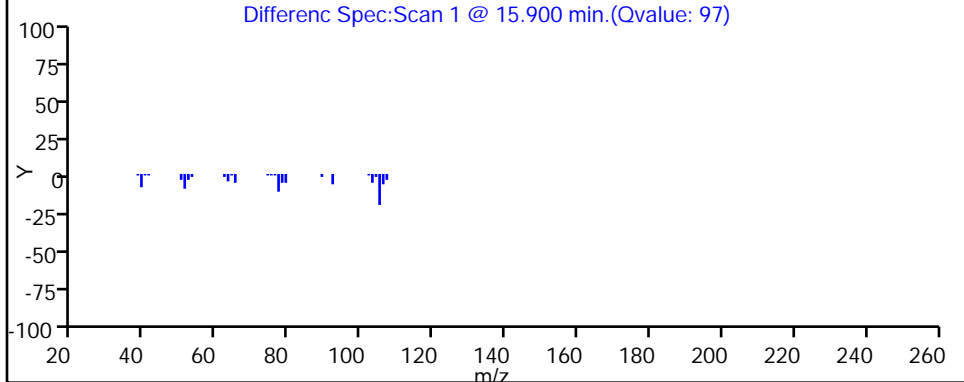
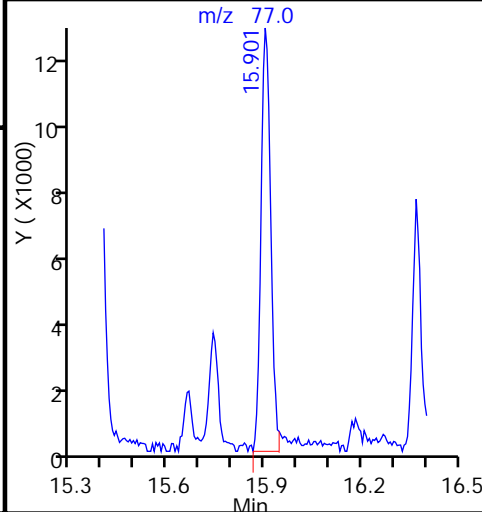
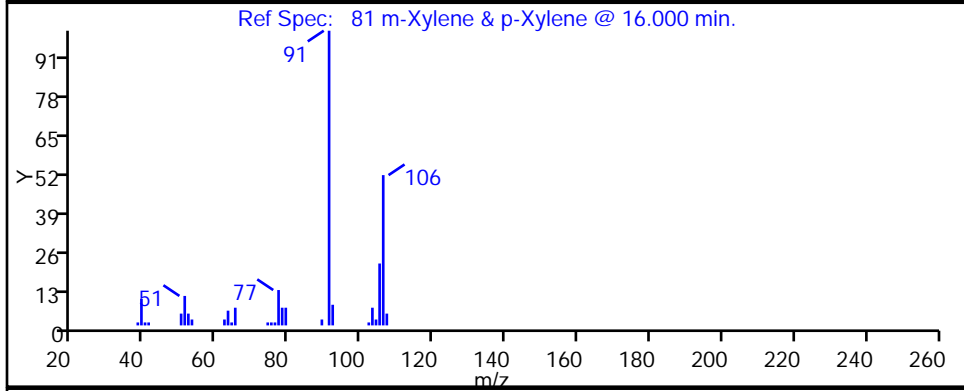
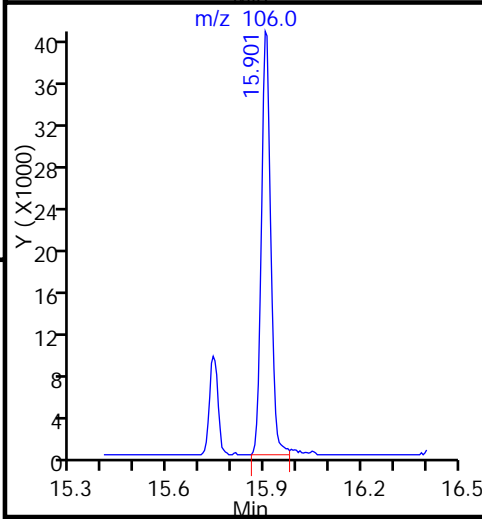
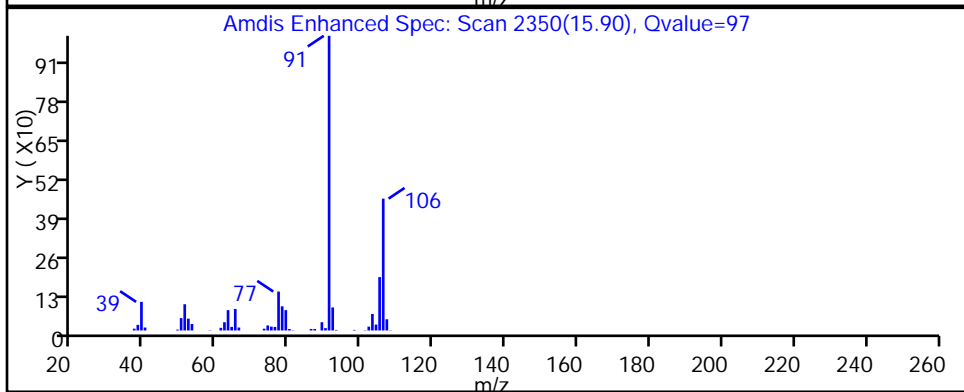
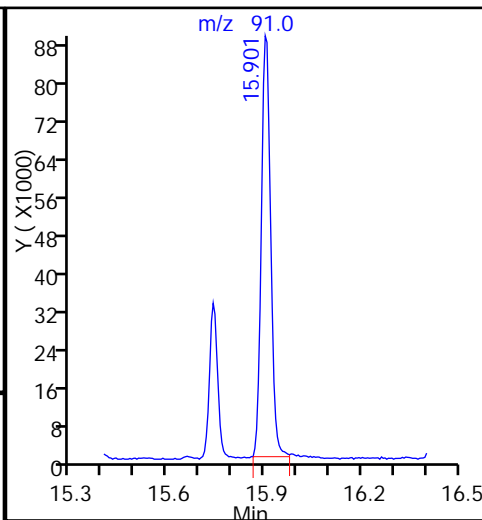
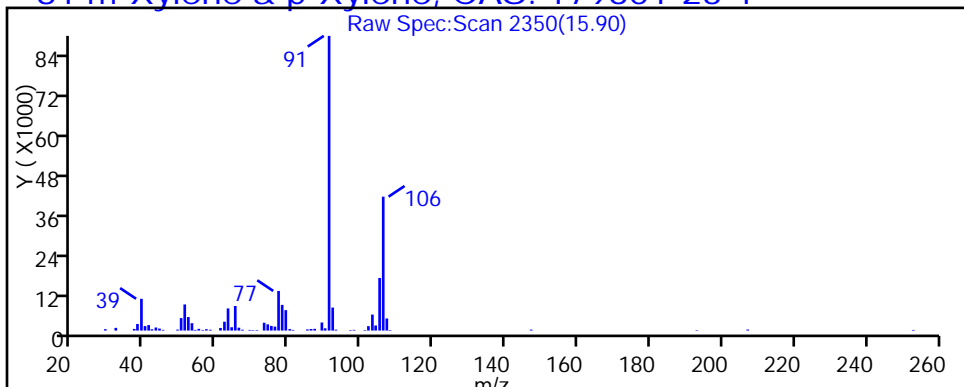
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

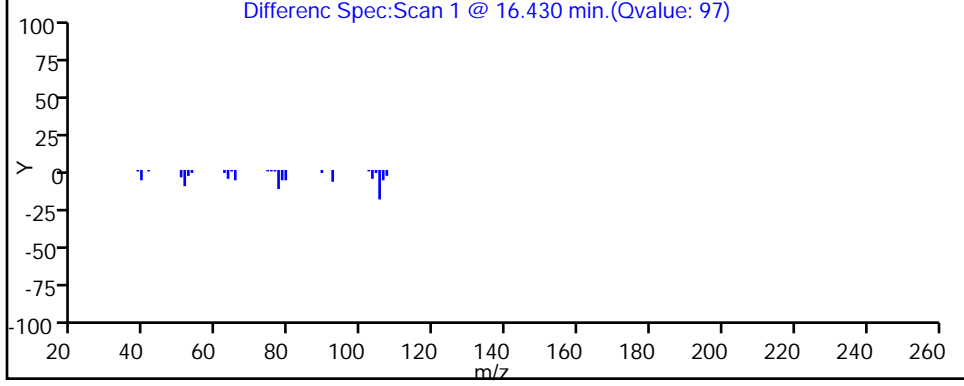
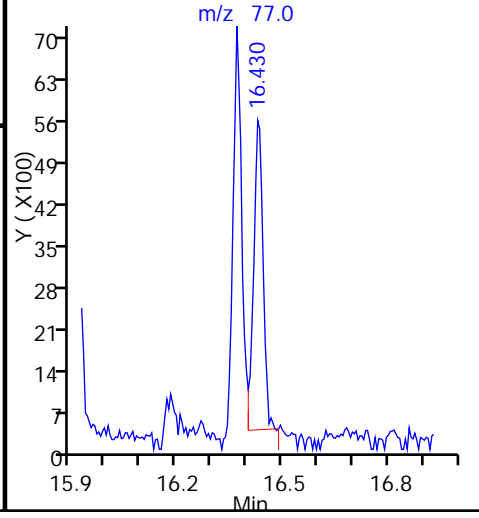
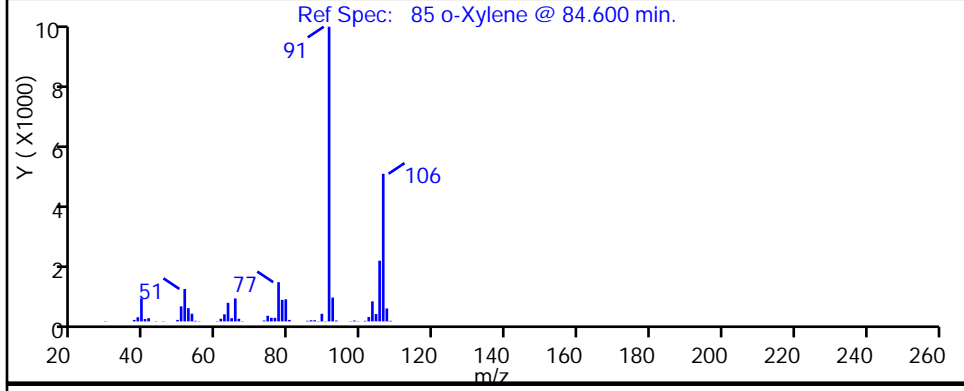
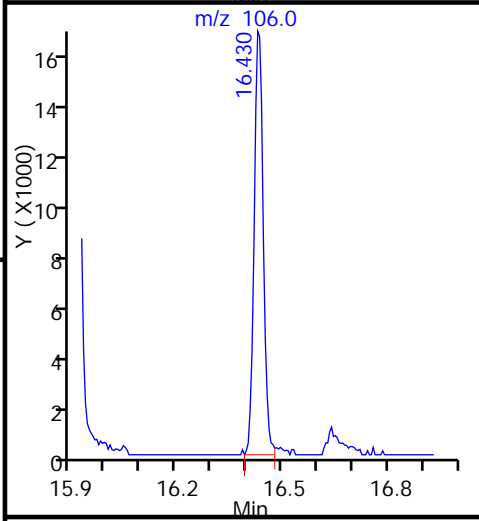
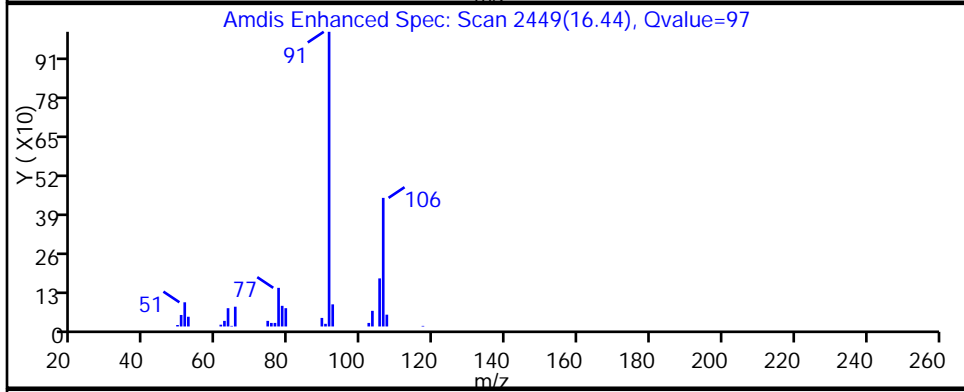
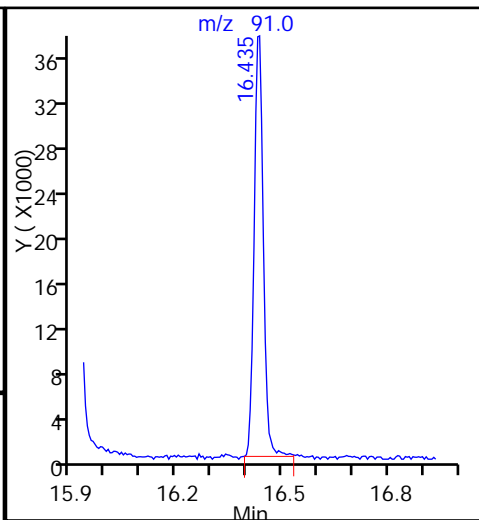
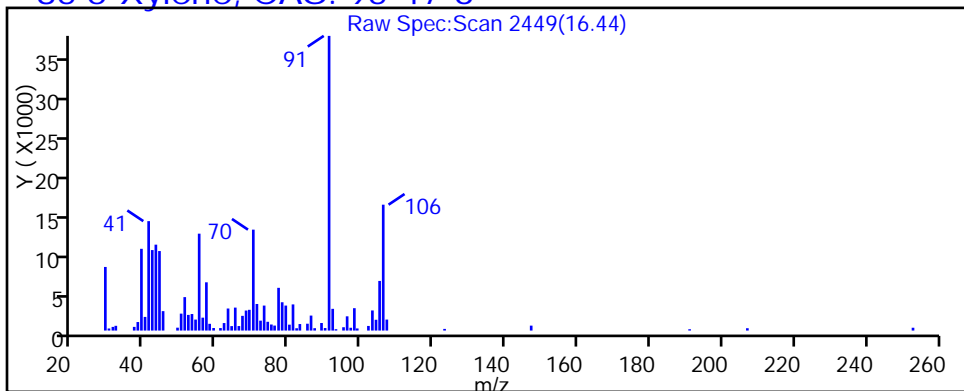
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

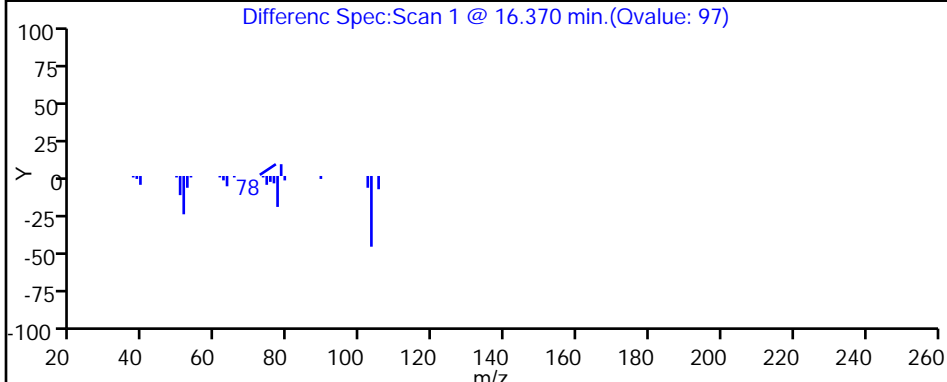
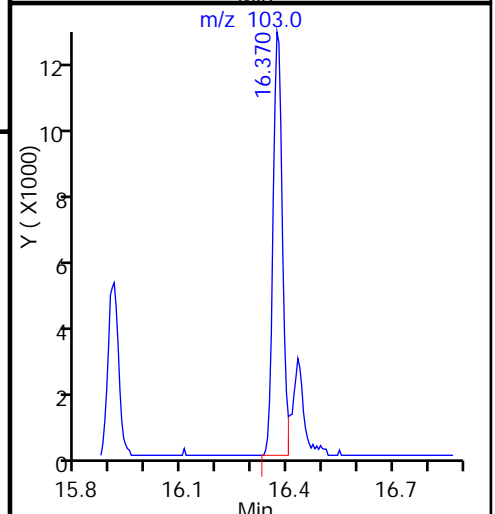
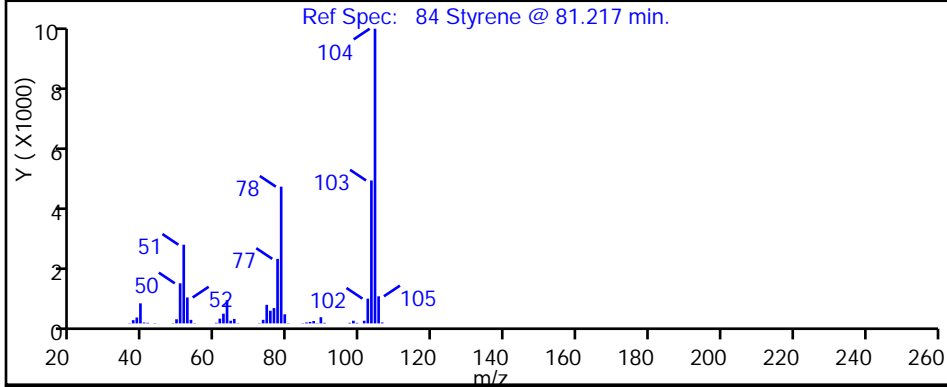
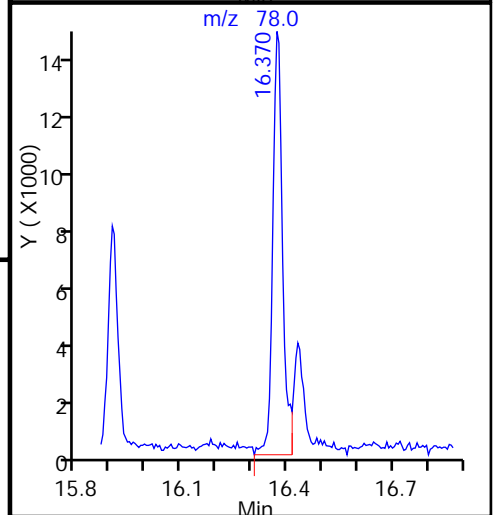
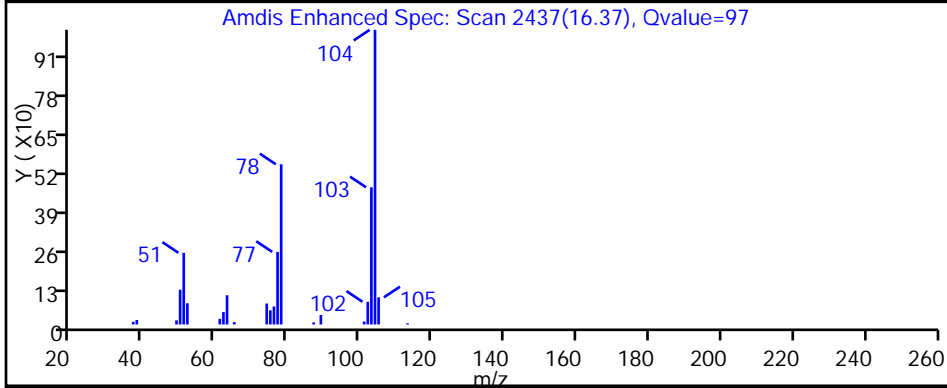
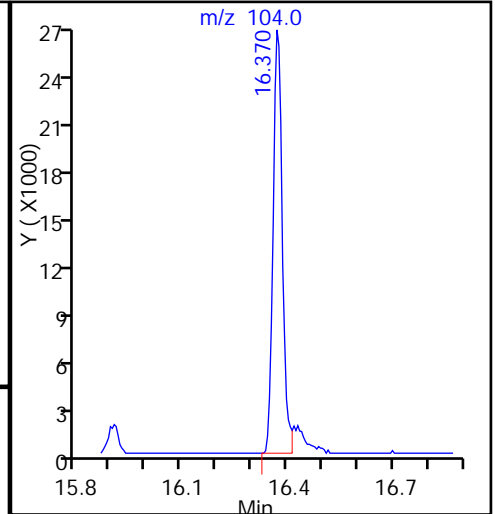
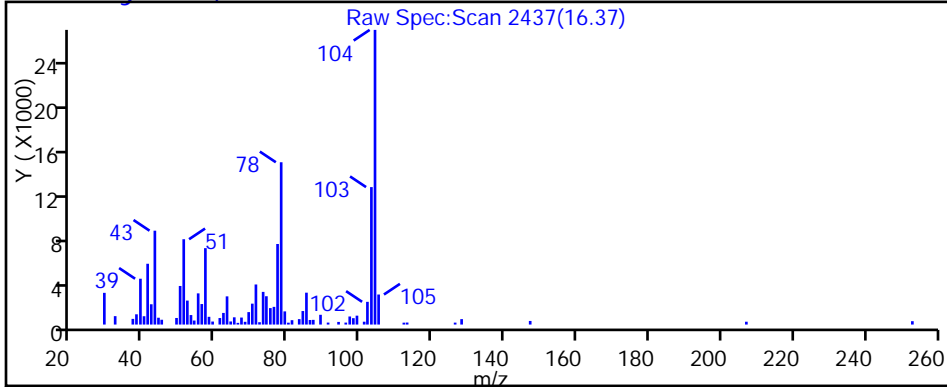
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

84 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

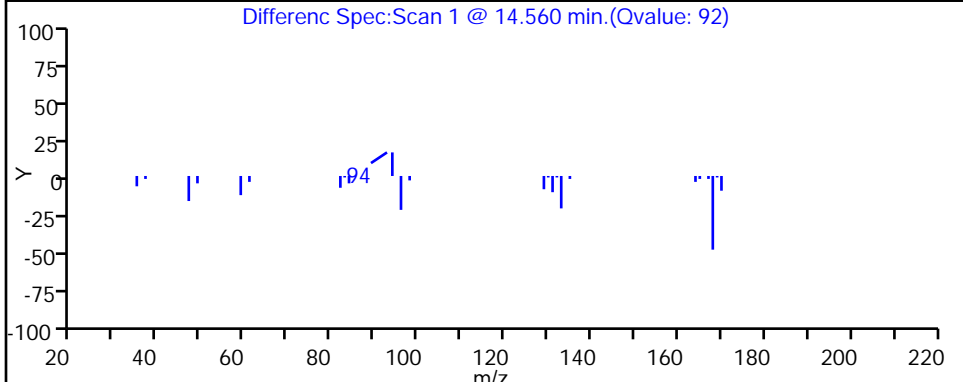
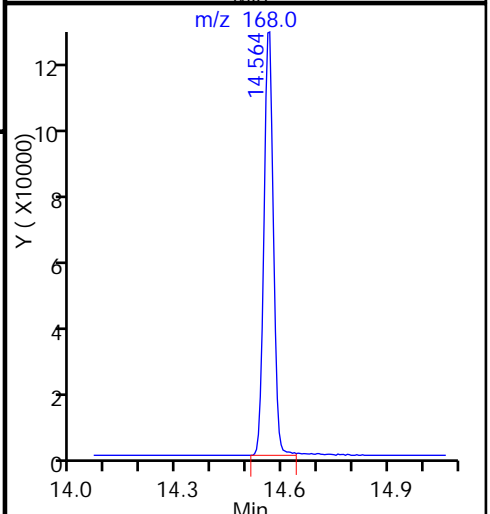
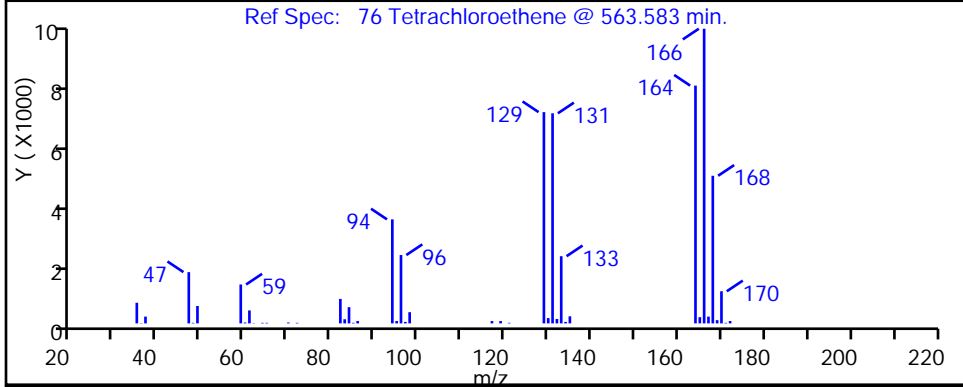
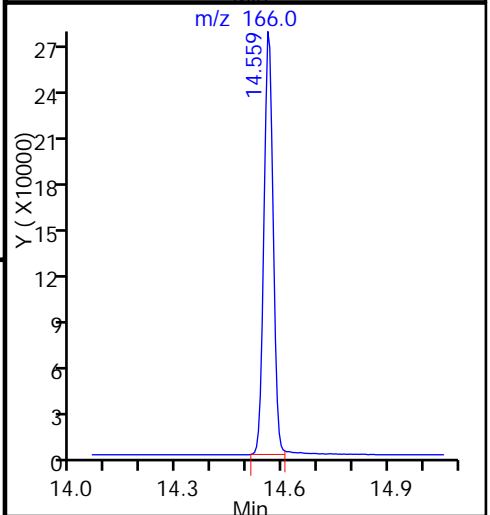
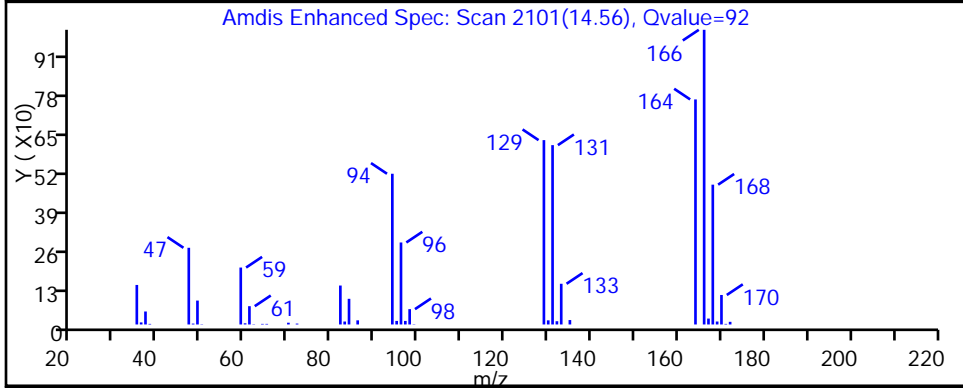
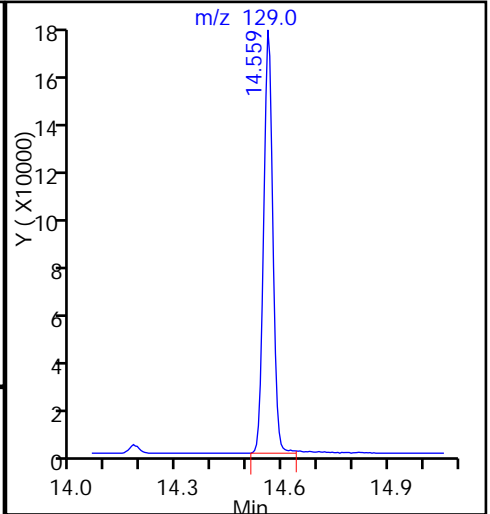
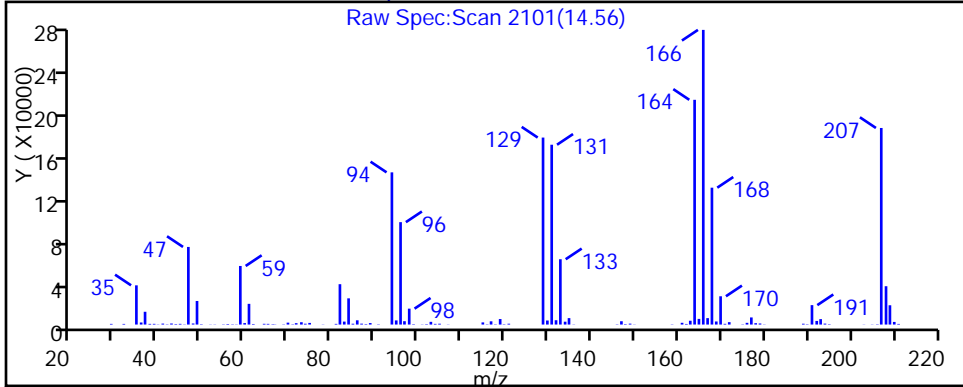
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

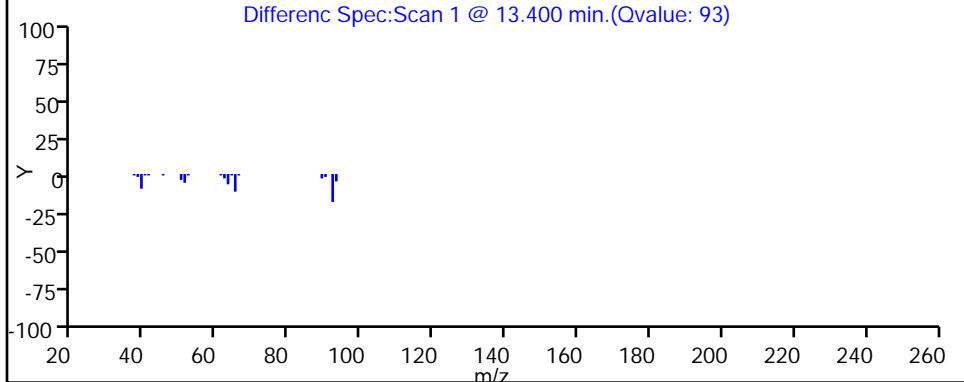
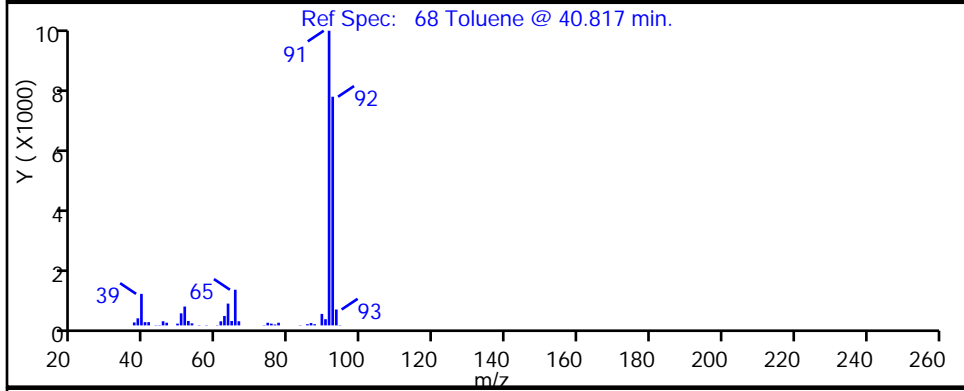
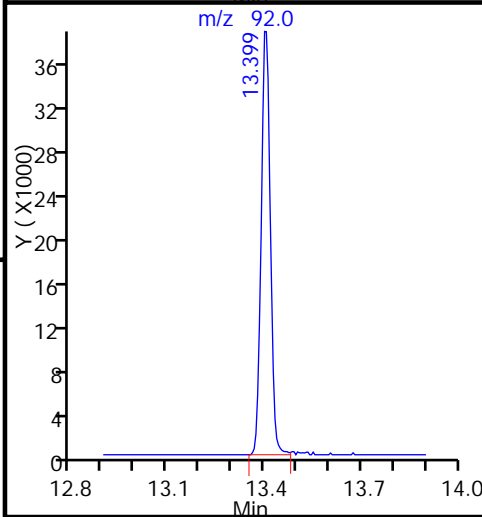
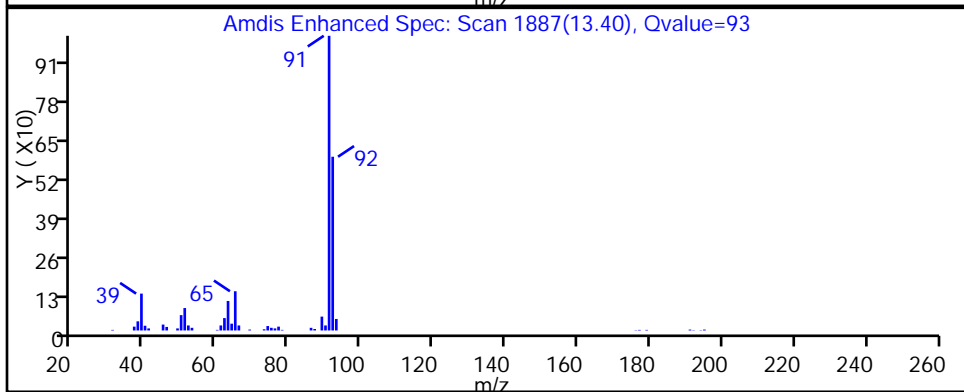
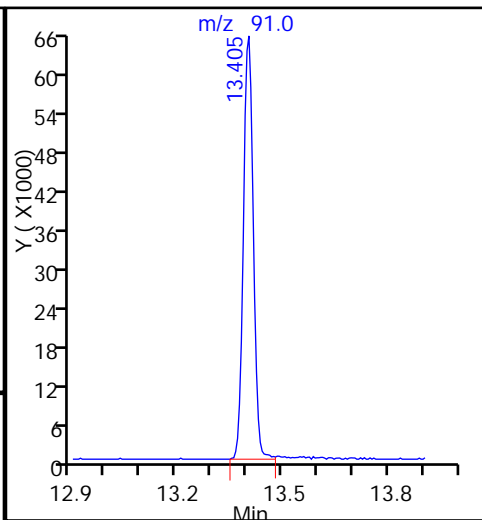
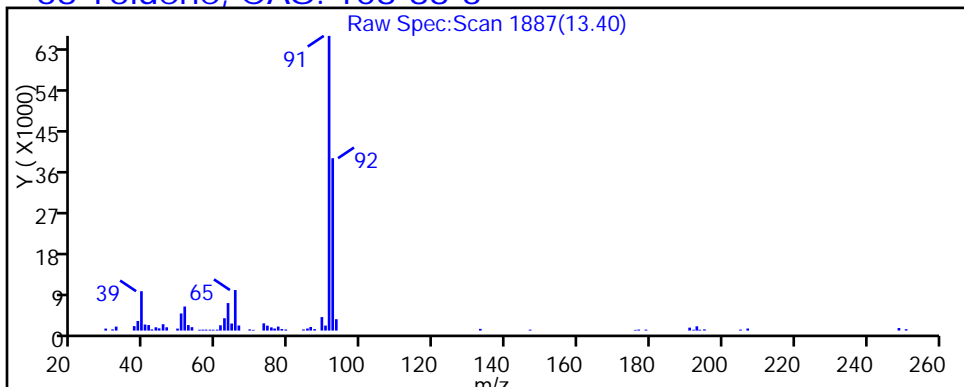
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P105.D

Injection Date: 21-Sep-2016 19:01:30

Instrument ID: MG

Lims ID: 140-5852-A-4

Lab Sample ID: 140-5852-4

Client ID: VP-129

Operator ID: 7126

ALS Bottle#: 5

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

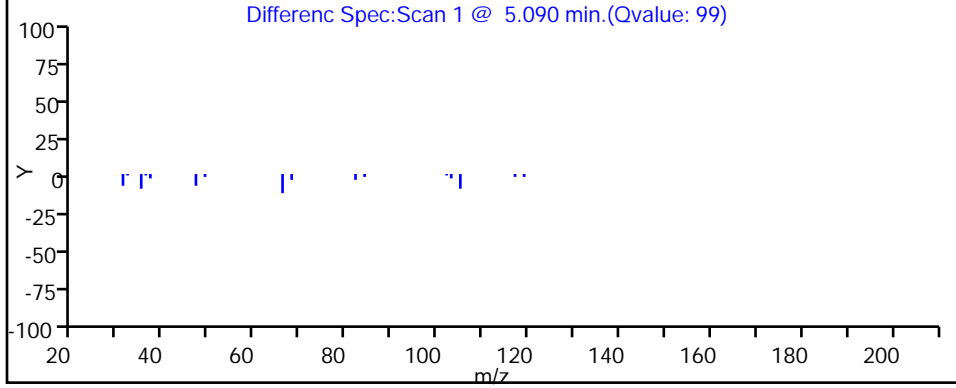
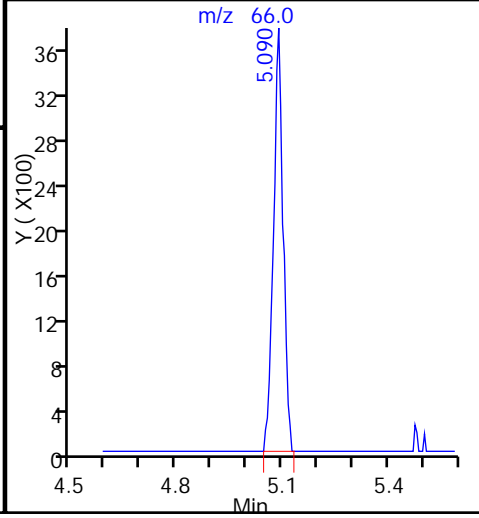
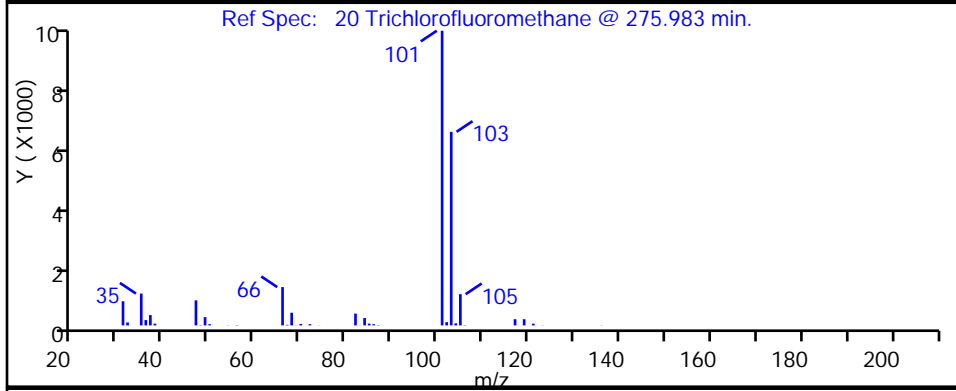
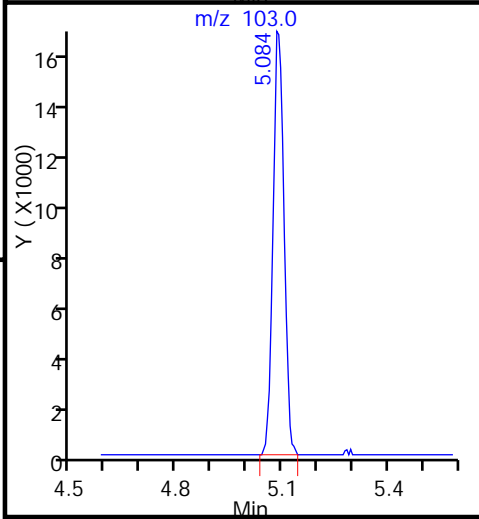
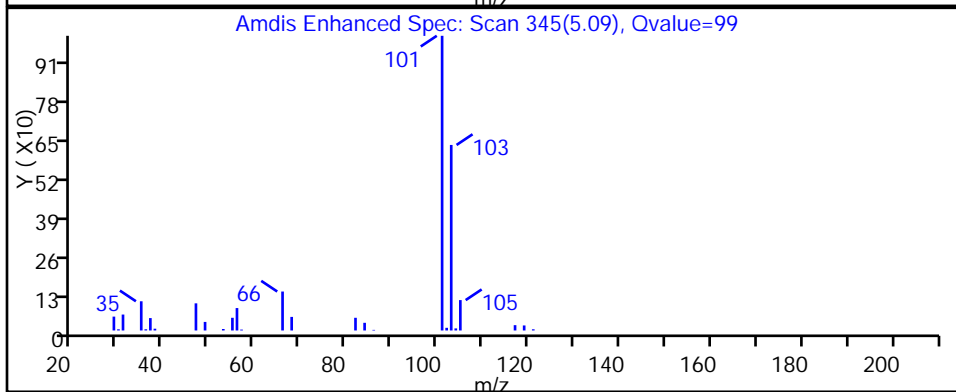
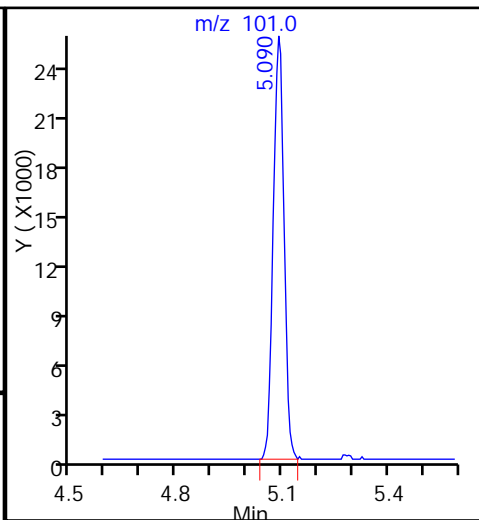
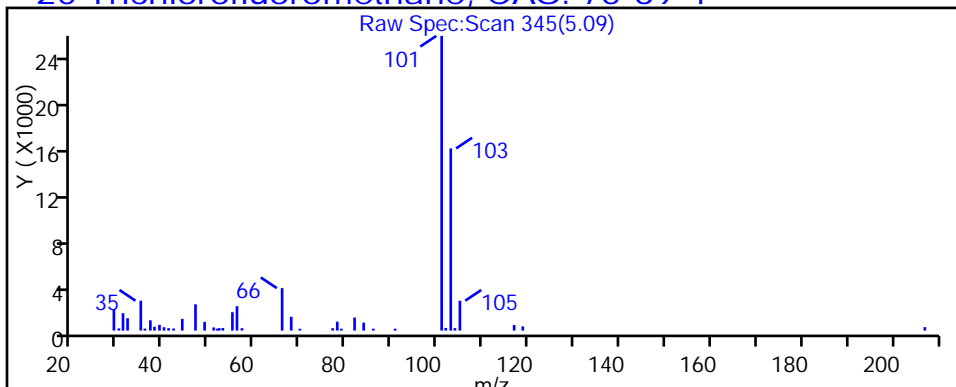
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-130 Lab Sample ID: 140-5852-5
 Matrix: Air Lab File ID: GI21P106.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:21
 Sample wt/vol: 730 (mL) Date Analyzed: 09/21/2016 19:50
 Soil Aliquot Vol: _____ Dilution Factor: 1.46
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	0.11		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	1.0		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	0.27		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	7.8		0.080
123-91-1	1,4-Dioxane	88.11	0.53		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20
78-93-3	2-Butanone	72.11	2.8		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20
71-43-2	Benzene	78.11	0.35		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	0.094		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	0.22		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	0.71		0.080
74-87-3	Chloromethane	50.49	ND		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	0.15		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-130 Lab Sample ID: 140-5852-5
 Matrix: Air Lab File ID: GI21P106.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:21
 Sample wt/vol: 730 (mL) Date Analyzed: 09/21/2016 19:50
 Soil Aliquot Vol: _____ Dilution Factor: 1.46
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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	ND	*	2.0	
100-41-4	Ethylbenzene	106.17	0.76		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	0.37		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	3.0		0.080	
95-47-6	o-Xylene	106.17	0.97		0.080	
100-42-5	Styrene	104.15	0.46		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	69	E	0.080	
108-88-3	Toluene	92.14	2.8		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	0.27		0.040	
75-69-4	Trichlorofluoromethane	137.37	0.32		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-130 Lab Sample ID: 140-5852-5
 Matrix: Air Lab File ID: GI21P106.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:21
 Sample wt/vol: 730 (mL) Date Analyzed: 09/21/2016 19:50
 Soil Aliquot Vol: _____ Dilution Factor: 1.46
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	0.59		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	5.0		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	1.3		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	47		0.48
123-91-1	1,4-Dioxane	88.11	1.9		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93
78-93-3	2-Butanone	72.11	8.3		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82
71-43-2	Benzene	78.11	1.1		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	0.63		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	1.4		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	3.5		0.39
74-87-3	Chloromethane	50.49	ND		0.41
156-59-2	cis-1,2-Dichloroethene	96.94	0.60		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-130 Lab Sample ID: 140-5852-5
 Matrix: Air Lab File ID: GI21P106.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:21
 Sample wt/vol: 730 (mL) Date Analyzed: 09/21/2016 19:50
 Soil Aliquot Vol: _____ Dilution Factor: 1.46
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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	ND	*	3.8
100-41-4	Ethylbenzene	106.17	3.3		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	1.3		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	13		0.35
95-47-6	o-Xylene	106.17	4.2		0.35
100-42-5	Styrene	104.15	2.0		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	470	E	0.54
108-88-3	Toluene	92.14	11		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	1.4		0.21
75-69-4	Trichlorofluoromethane	137.37	1.8		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P106.D
 Lims ID: 140-5852-A-5
 Client ID: VP-130
 Sample Type: Client
 Inject. Date: 21-Sep-2016 19:50:30 ALS Bottle#: 6 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.4600
 Sample Info: 140-0003444-010
 Misc. Info.: 140-5852-a-5@1.46
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh

Date: 22-Sep-2016 13:57:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.454	8.454	0.000	90	243826	4.00	
* 2 1,4-Difluorobenzene	114	10.611	10.617	-0.006	96	1147420	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.394	15.394	0.000	91	1051677	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	91	821013	4.47	
8 Dichlorodifluoromethane	85	3.752	3.758	-0.006	100	95635	0.4561	
9 Chloromethane	52	3.919	3.919	0.000	85	2051	0.0864	
16 Chloroethane	64	4.566	4.566	0.000	22	583	0.0157	
17 Ethanol	31	4.658	4.663	-0.005	98	27964	0.7996	
20 Trichlorofluoromethane	101	5.090	5.095	-0.005	99	62911	0.3193	
29 2-Methyl-2-propanol	59	5.839	5.834	0.005	94	6008	0.0564	
30 1,1,2-Trichloro-1,2,2-trif	101	5.909	5.909	0.000	91	8404	0.0698	
31 Methylene Chloride	84	6.055	6.055	0.000	93	17098	0.2881	
37 1,1-Dichloroethane	63	7.214	7.203	0.011	2	1788	0.0123	
39 2-Butanone (MEK)	72	7.710	7.721	-0.011	99	93918	2.80	
40 Hexane	56	7.770	7.775	-0.005	91	24058	0.3734	
42 cis-1,2-Dichloroethene	96	8.147	8.142	0.005	96	11343	0.1504	
44 Chloroform	83	8.471	8.476	-0.005	95	116250	0.7138	
47 1,1,1-Trichloroethane	97	9.463	9.463	0.000	97	19327	0.1076	
48 1,2-Dichloroethane	62	9.554	9.560	-0.006	63	3077	0.0270	
49 Benzene	78	10.056	10.056	0.000	97	73994	0.3512	
50 Cyclohexane	69	10.067	10.067	0.000	58	6018	0.1669	
52 Carbon tetrachloride	117	10.083	10.088	-0.005	97	36656	0.2208	
56 Isooctane	57	10.849	10.854	-0.005	92	21568	0.0543	
59 Trichloroethene	130	11.334	11.334	0.000	91	28620	0.2696	
61 Dichlorobromomethane	83	11.555	11.555	0.000	96	15438	0.0943	
62 1,4-Dioxane	88	11.571	11.571	0.000	97	15854	0.5295	
65 4-Methyl-2-pentanone (MIBK	43	12.526	12.520	0.006	96	38123	0.1692	
68 Toluene	91	13.405	13.405	0.001	93	654729	2.85	
74 Chlorodibromomethane	129	14.176	14.181	-0.005	96	10035	0.0697	
76 Tetrachloroethene	129	14.569	14.564	0.005	93	6317614	68.8	E
79 Ethylbenzene	91	15.739	15.739	0.000	99	230209	0.7556	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
81 m-Xylene & p-Xylene	91	15.907	15.907	0.000	98	702306	2.98	
84 Styrene	104	16.370	16.370	0.000	97	72265	0.4636	
85 o-Xylene	91	16.435	16.435	0.000	97	245967	0.9728	
92 1,3,5-Trimethylbenzene	120	17.816	17.821	-0.005	92	42696	0.2653	
96 1,2,4-Trimethylbenzene	105	18.268	18.268	0.000	99	298604	1.01	
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	93	1422897	7.76	

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Worklist Smp#: 10

Client ID: VP-130

Purge Vol: 500.000 mL

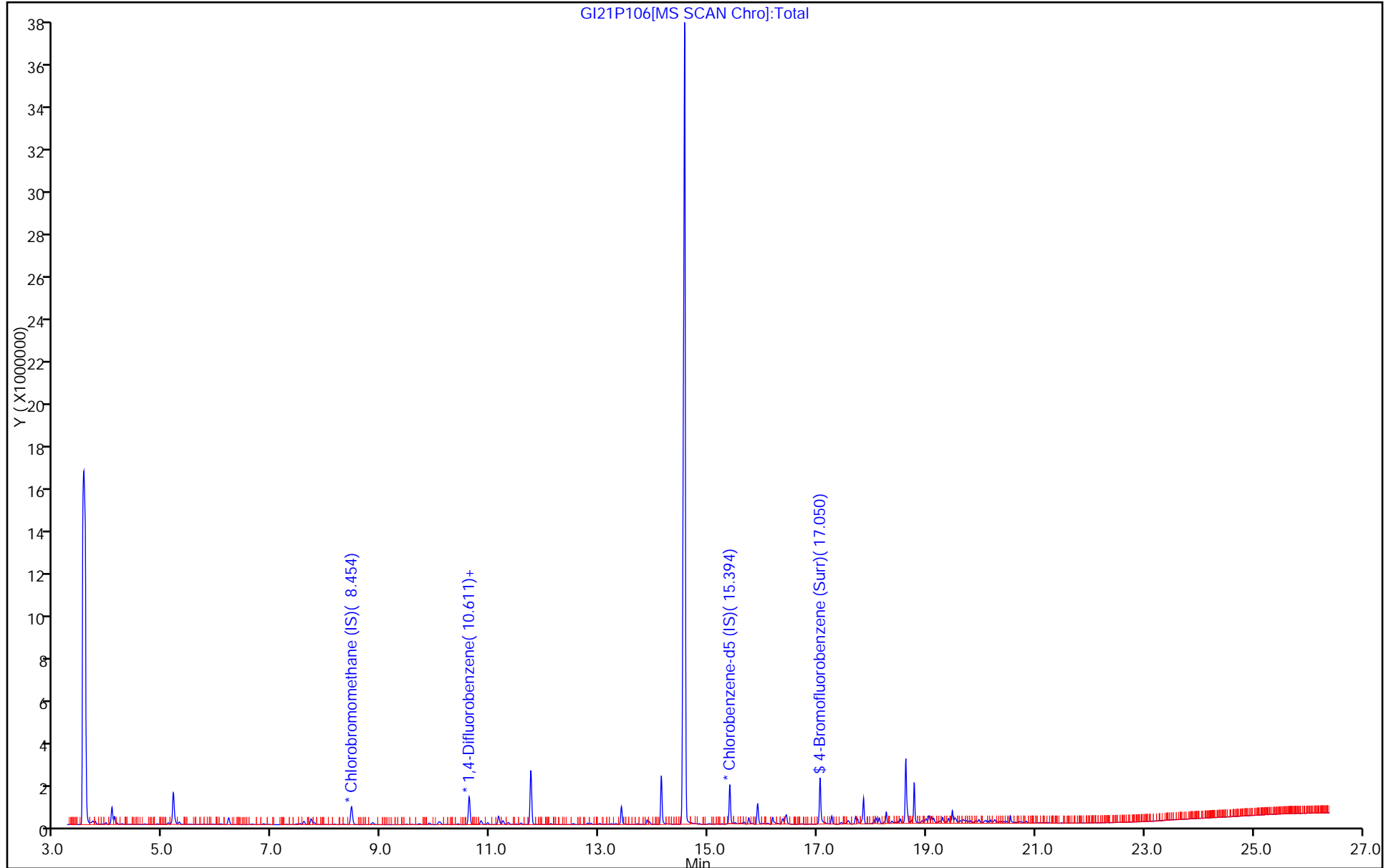
Dil. Factor: 1.4600

ALS Bottle#: 6

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\20160919-3444.b\GI21P106.D
 Lims ID: 140-5852-A-5
 Client ID: VP-130
 Sample Type: Client
 Inject. Date: 21-Sep-2016 19:50:30 ALS Bottle#: 6 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.4600
 Sample Info: 140-0003444-010
 Misc. Info.: 140-5852-a-5@1.46
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 13:57:39

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.47	111.80

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

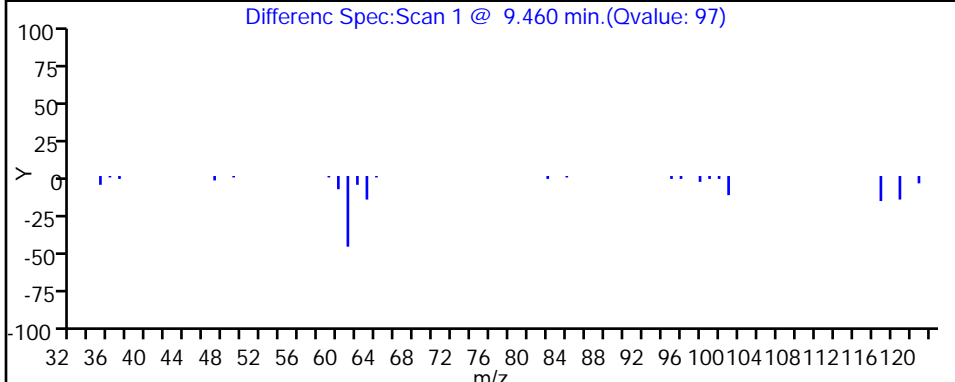
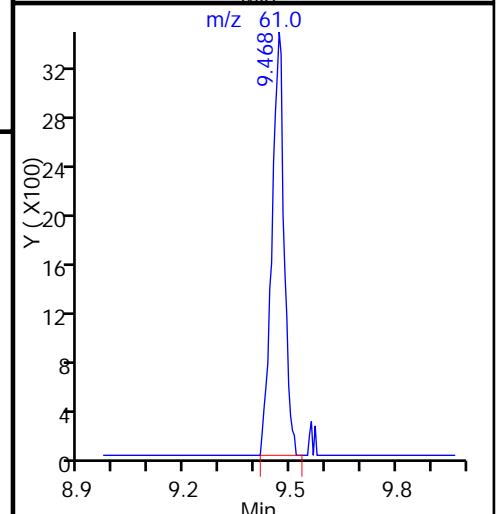
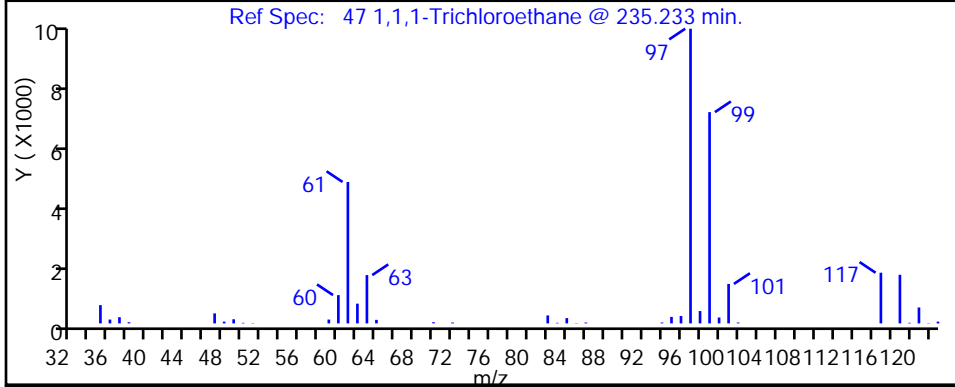
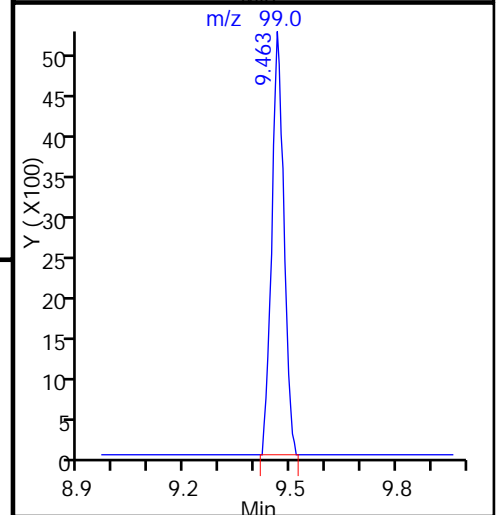
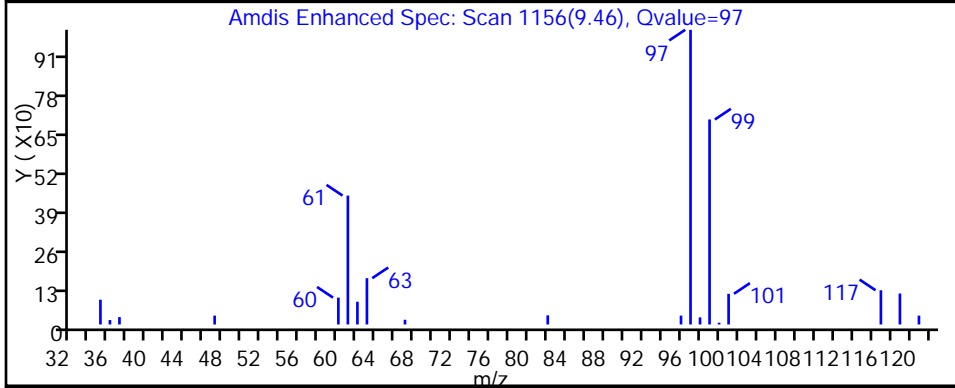
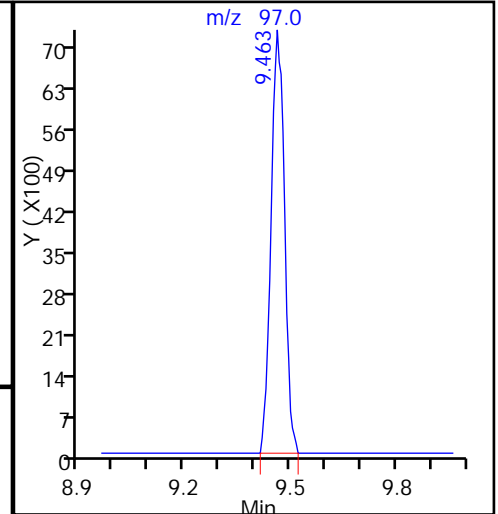
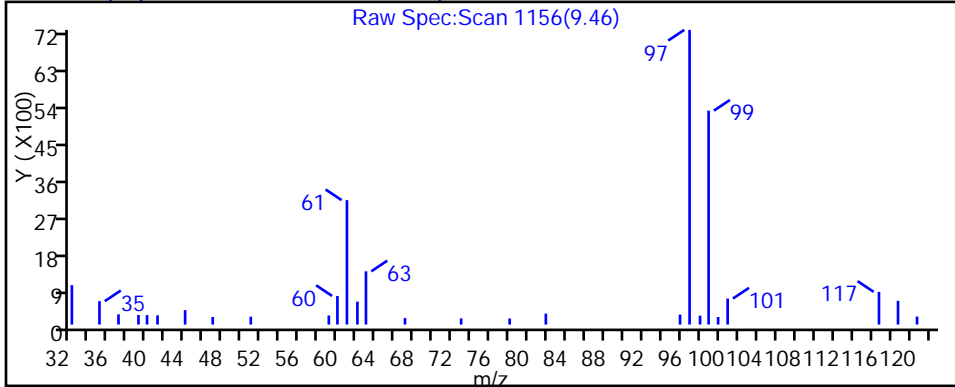
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

47 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

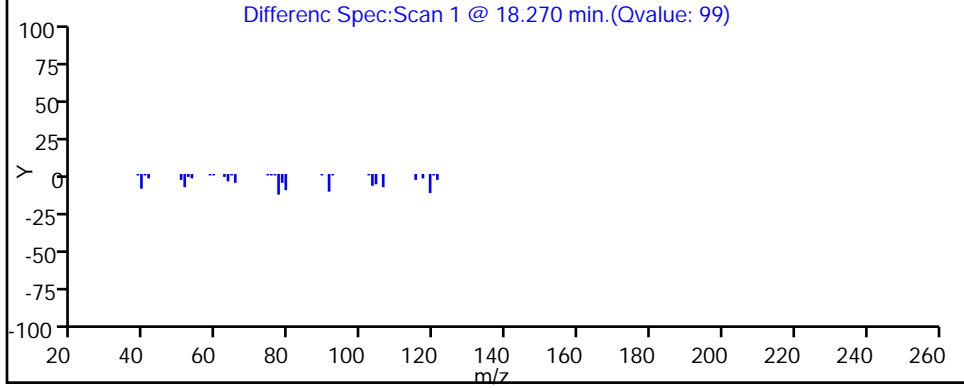
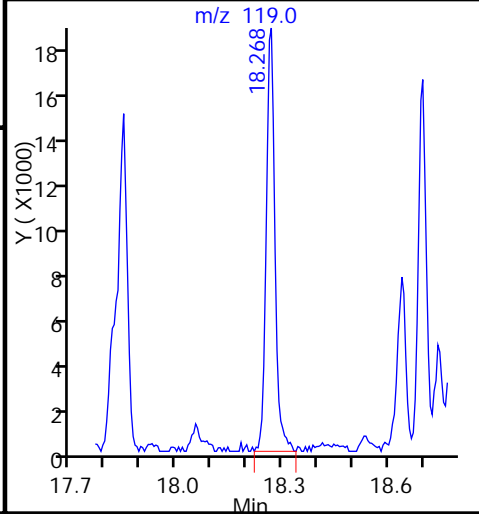
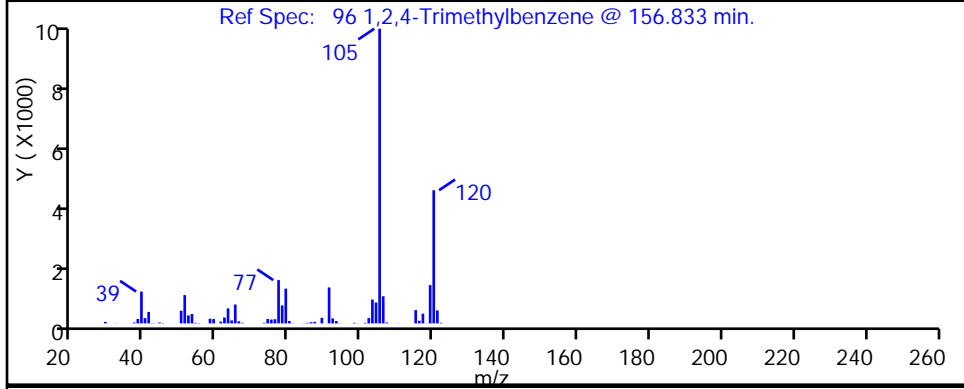
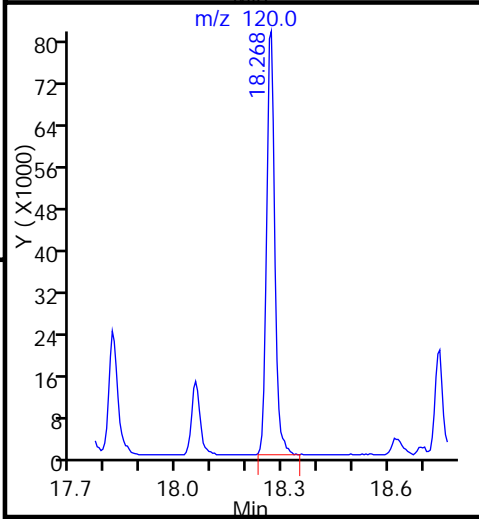
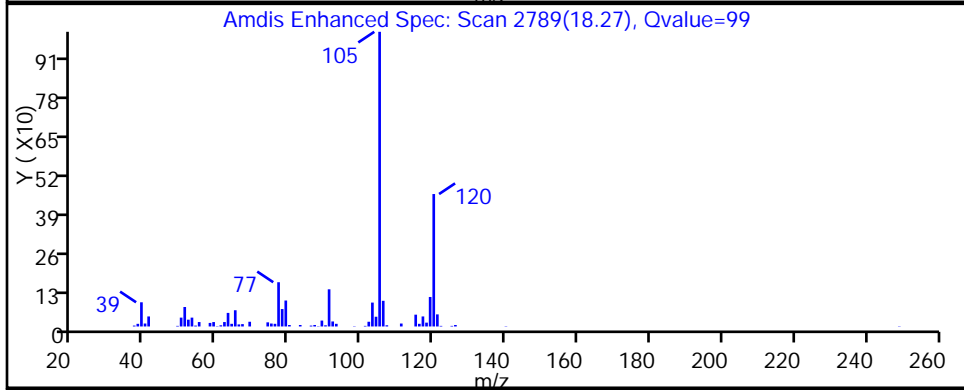
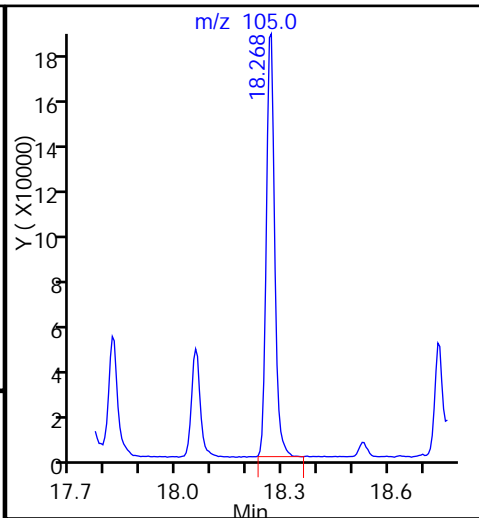
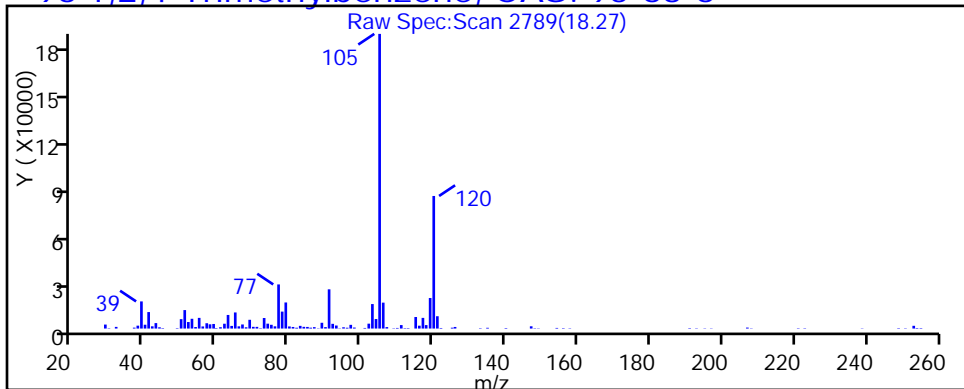
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

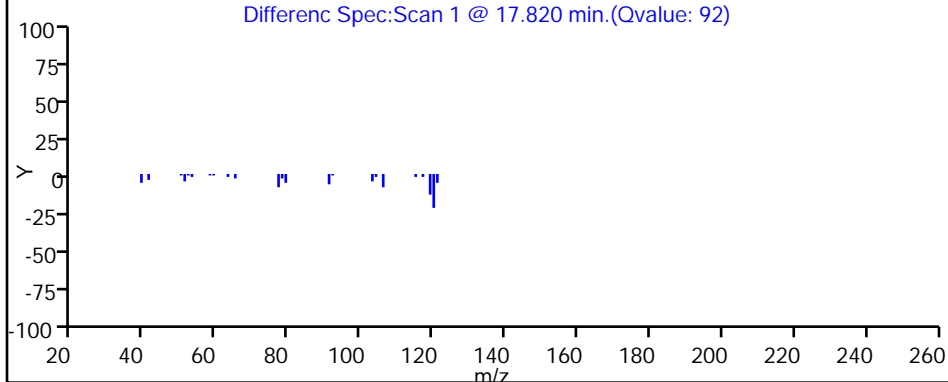
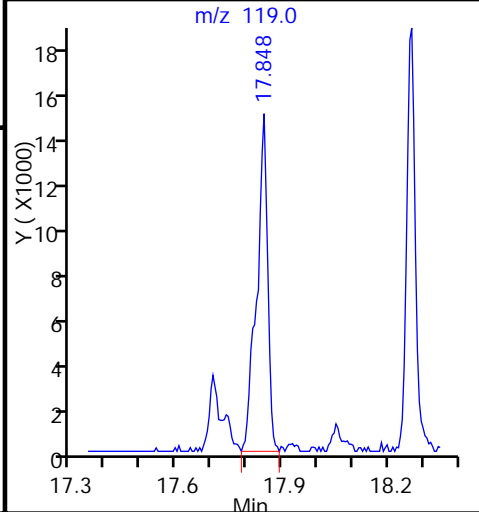
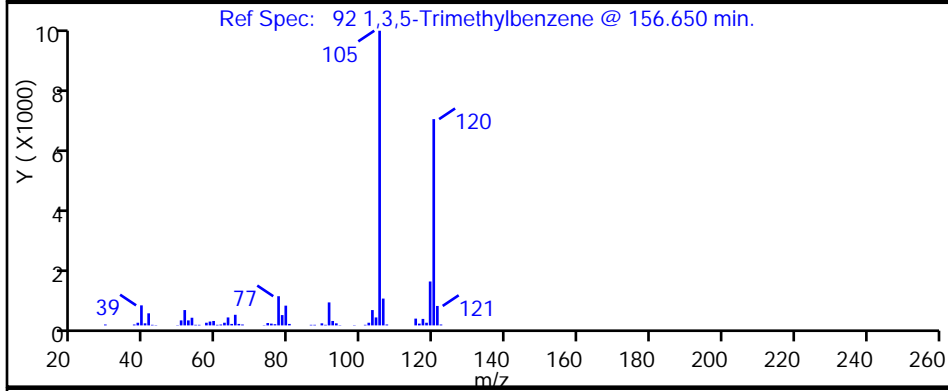
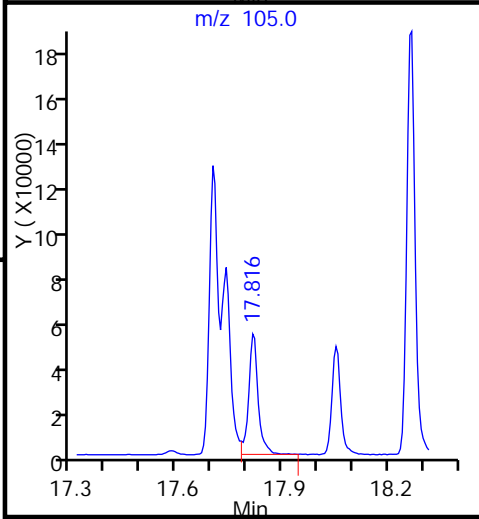
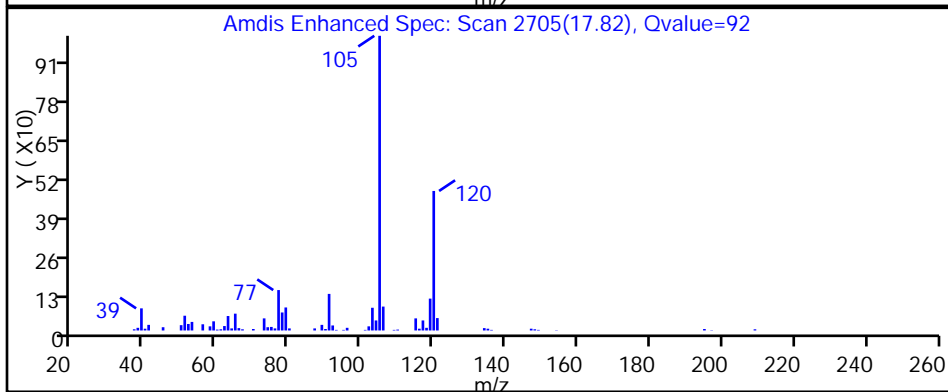
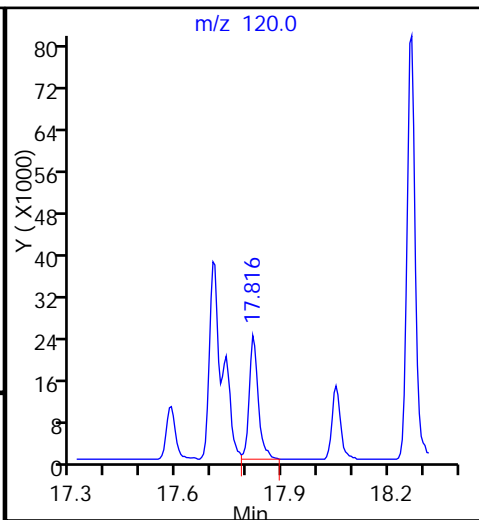
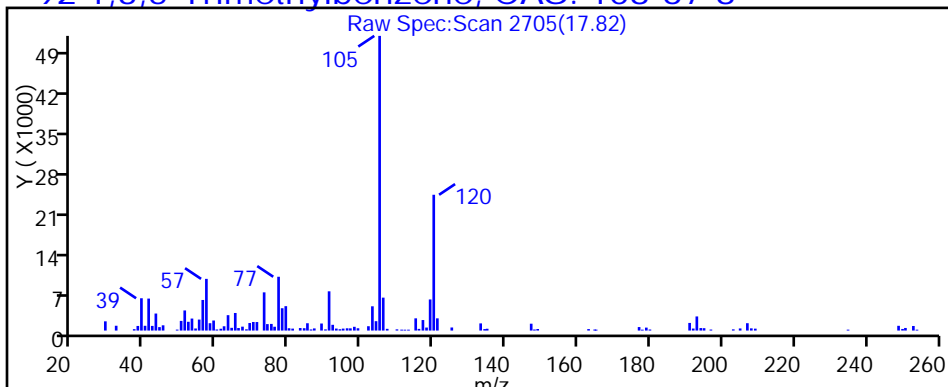
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

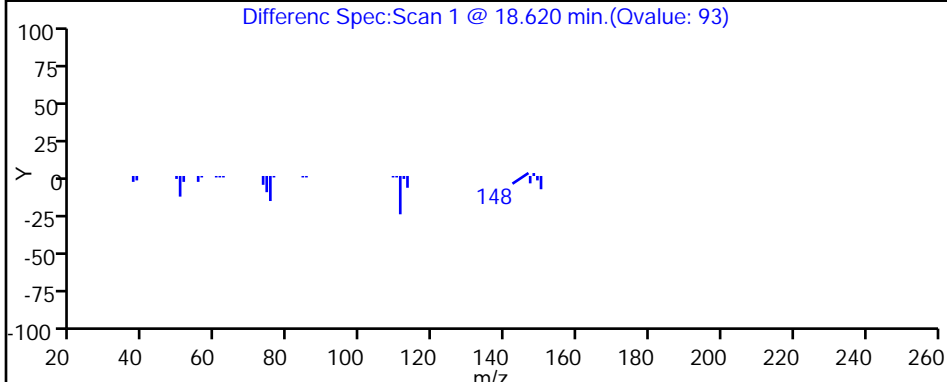
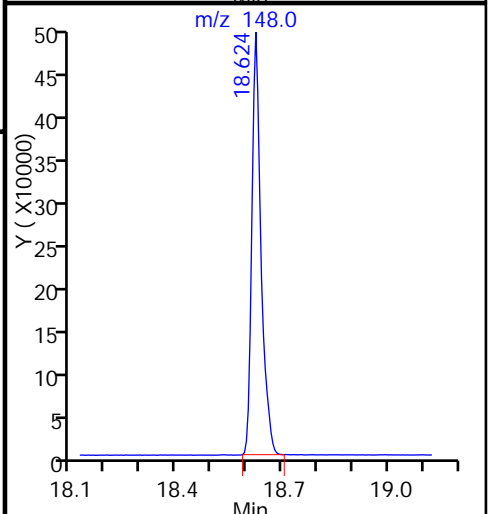
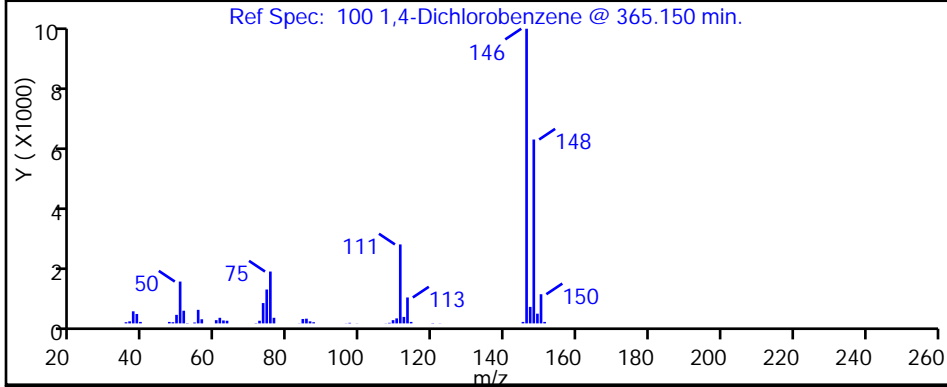
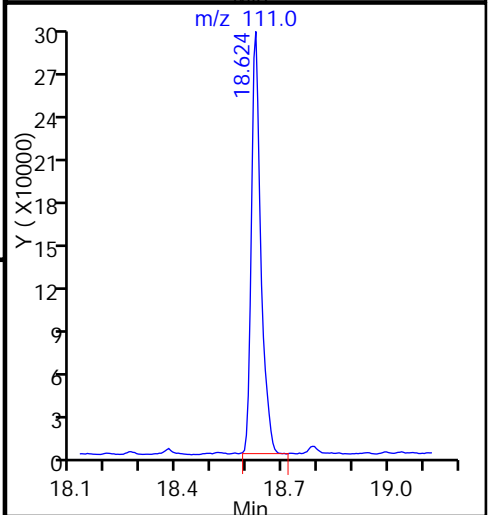
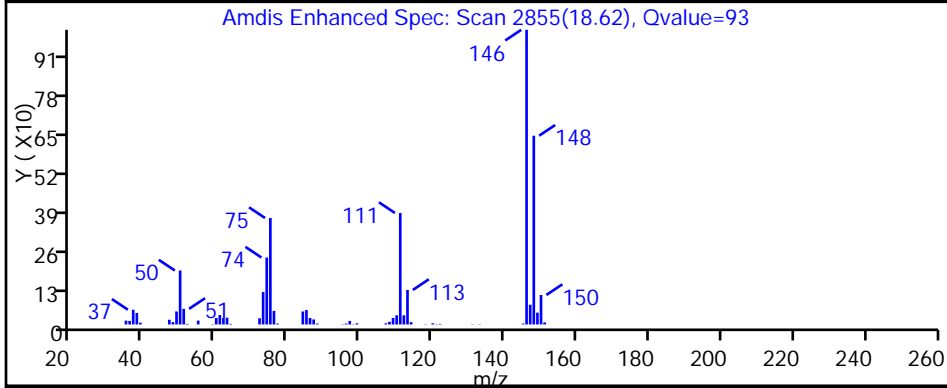
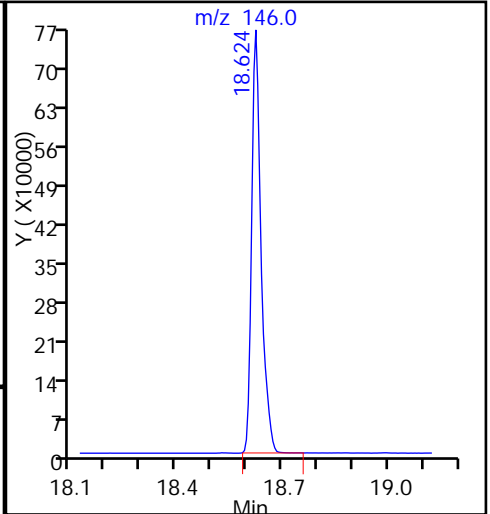
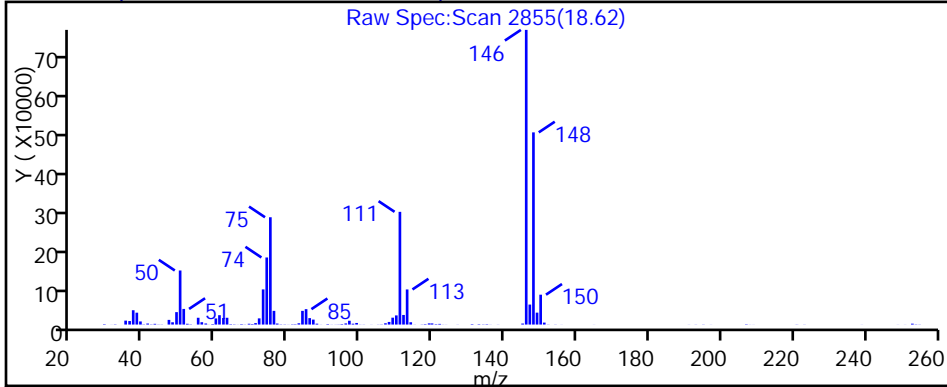
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

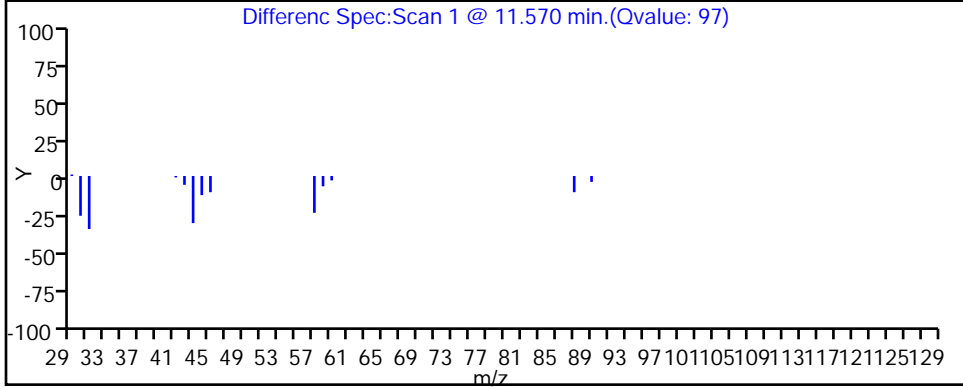
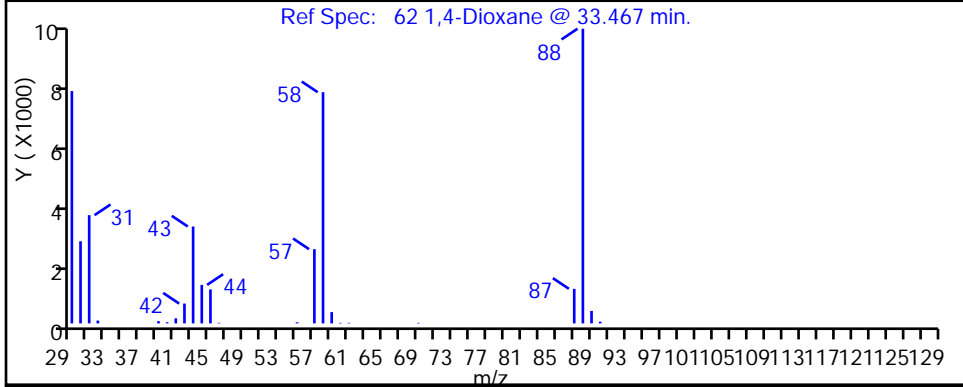
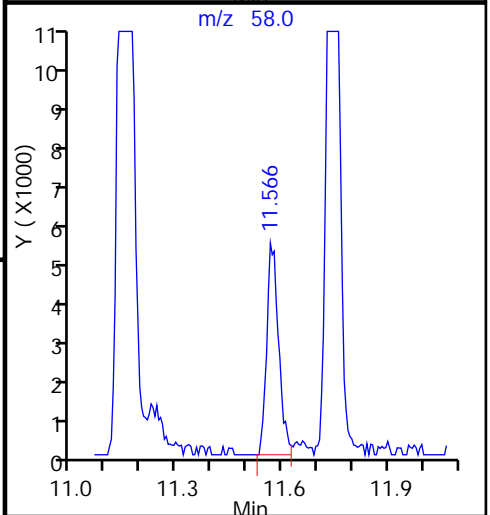
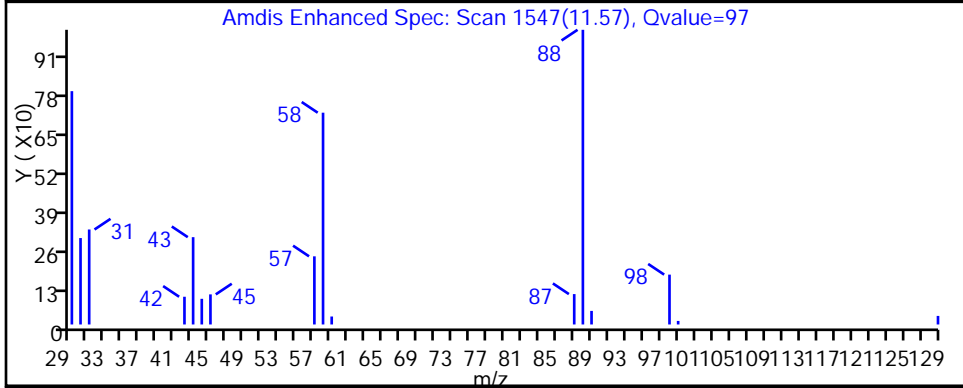
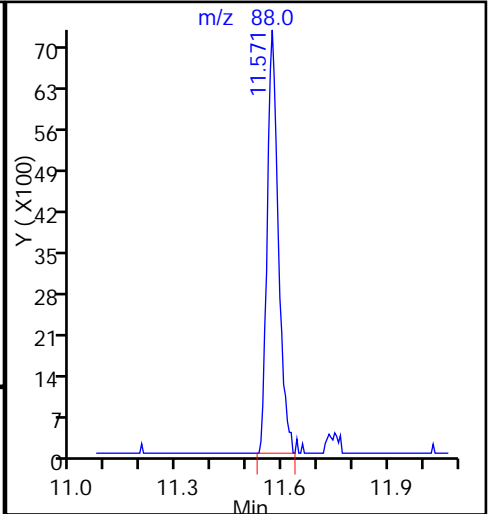
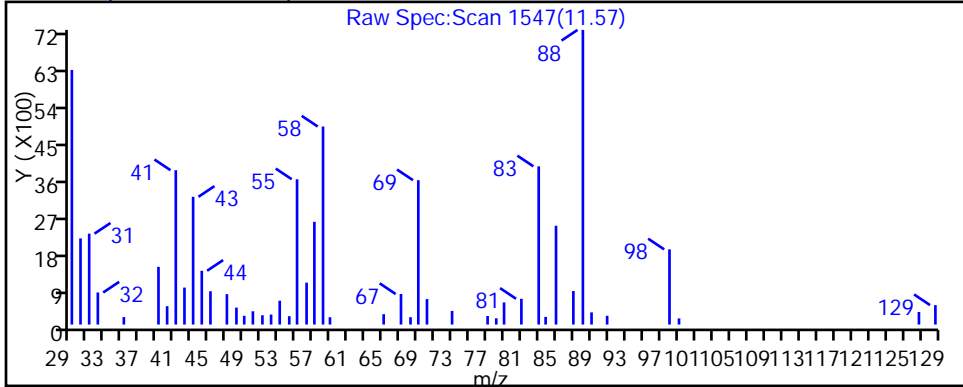
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

62 1,4-Dioxane, CAS: 123-91-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

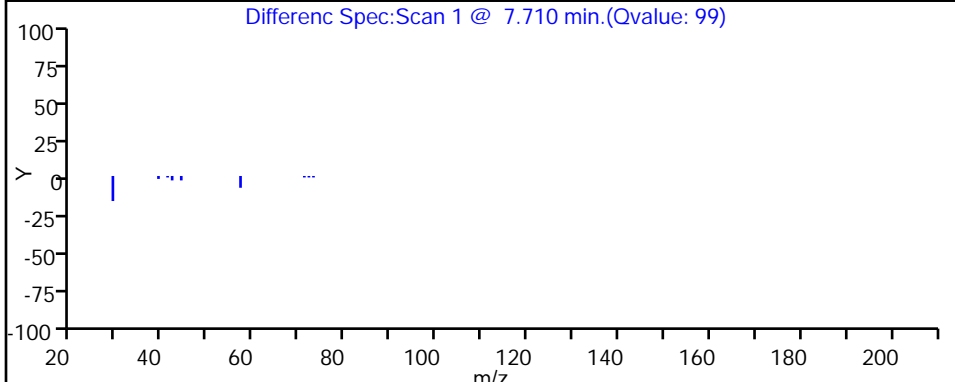
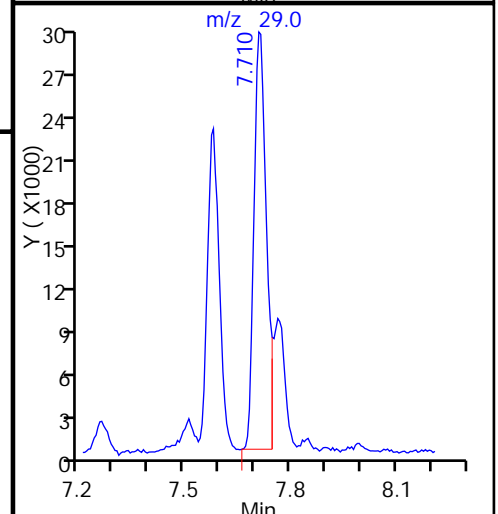
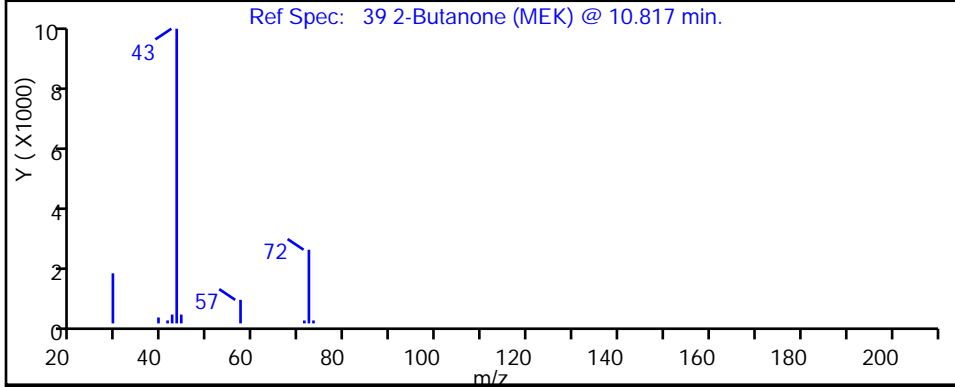
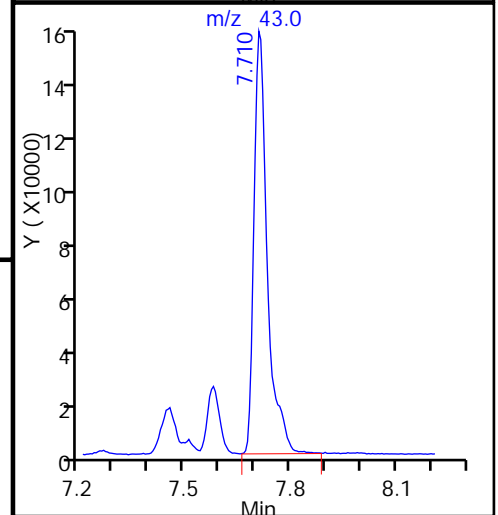
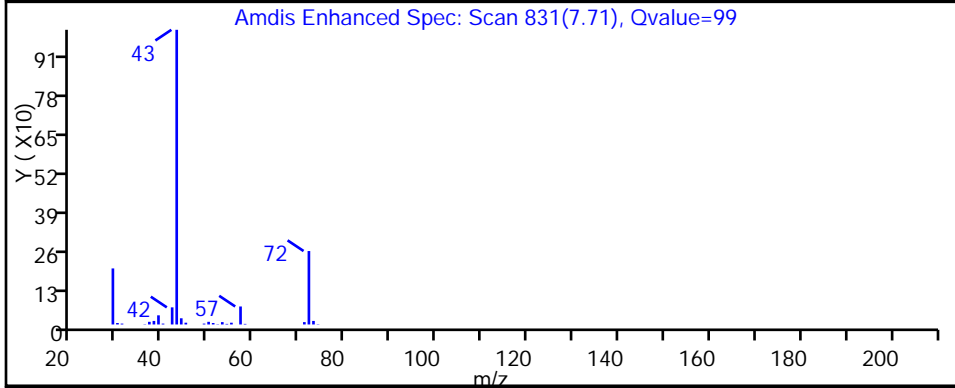
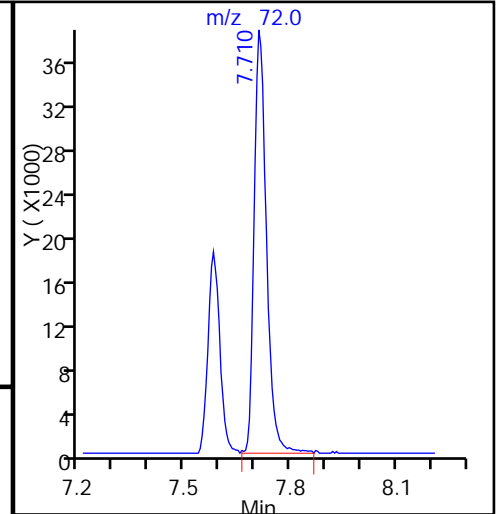
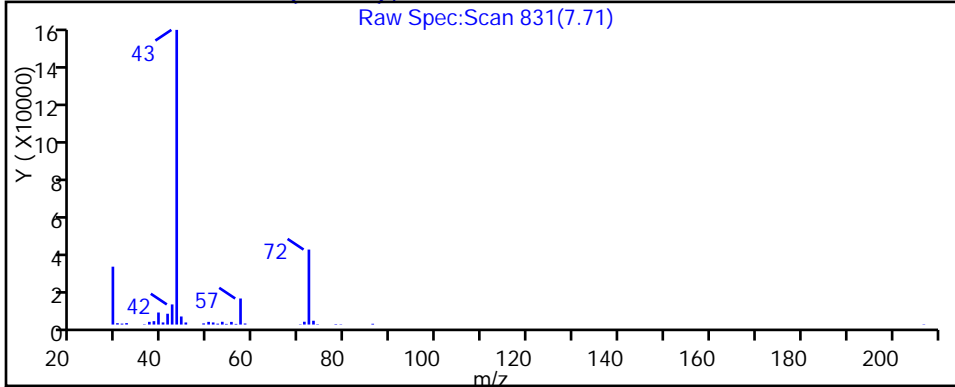
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

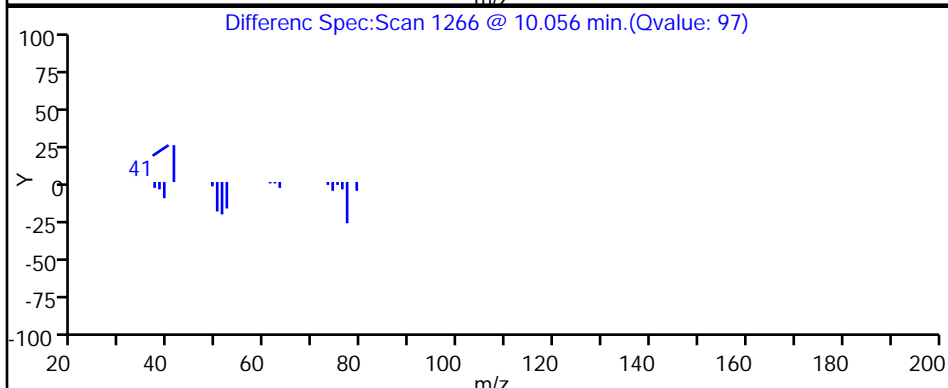
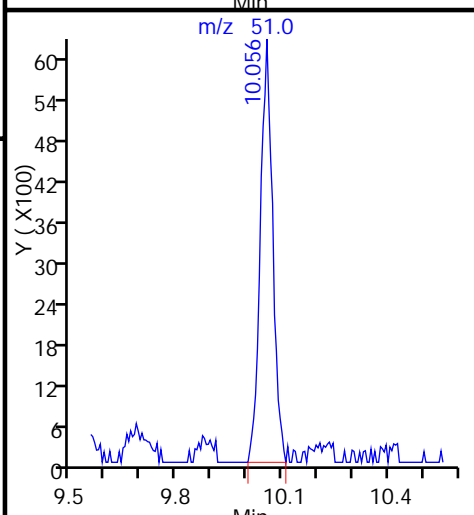
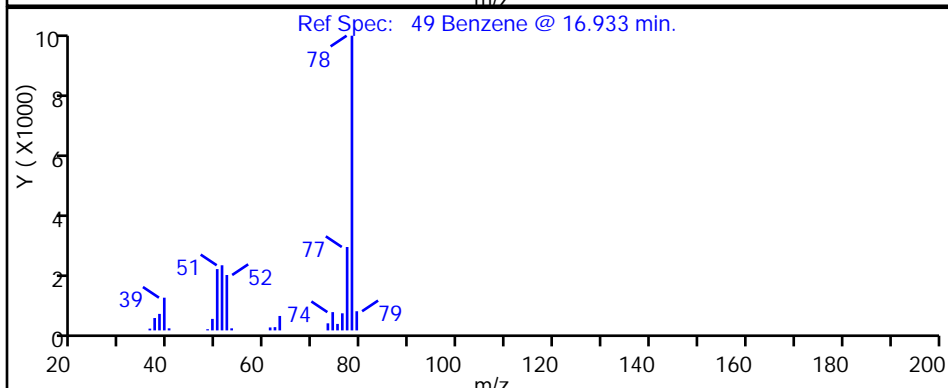
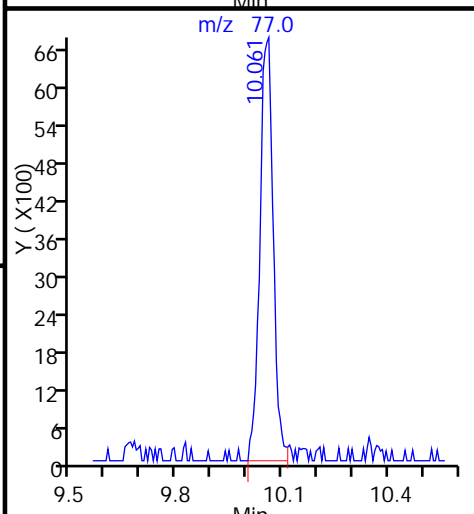
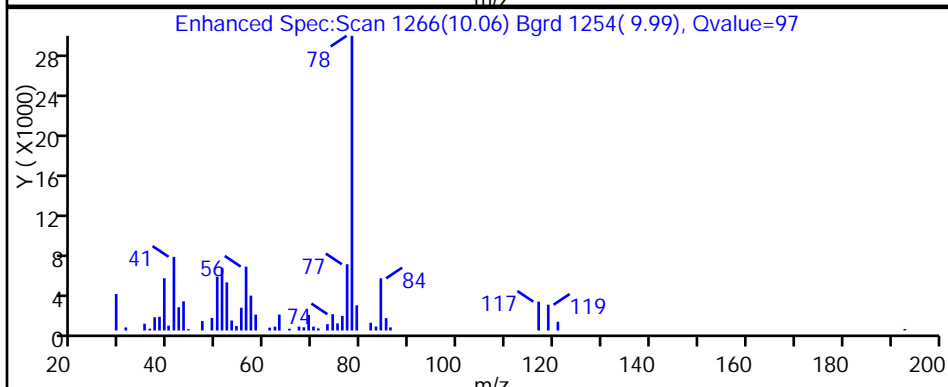
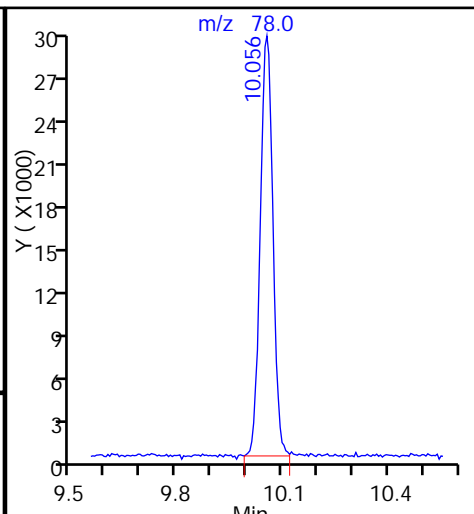
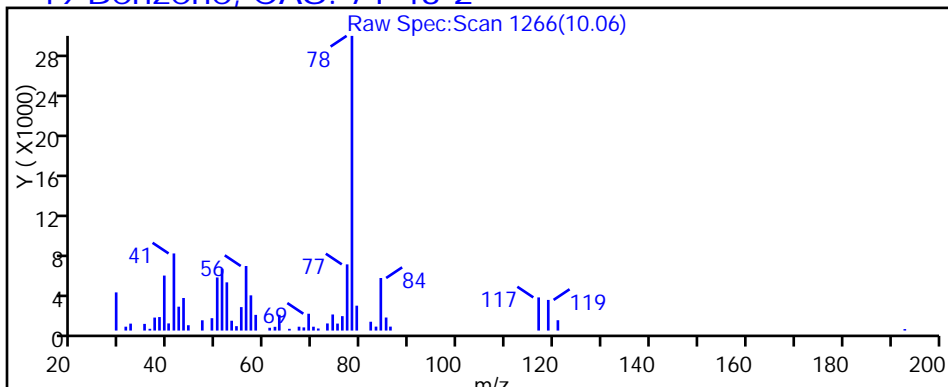
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

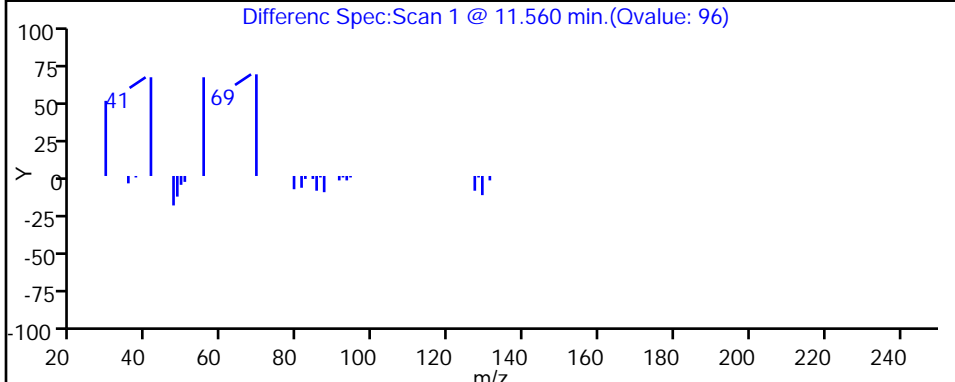
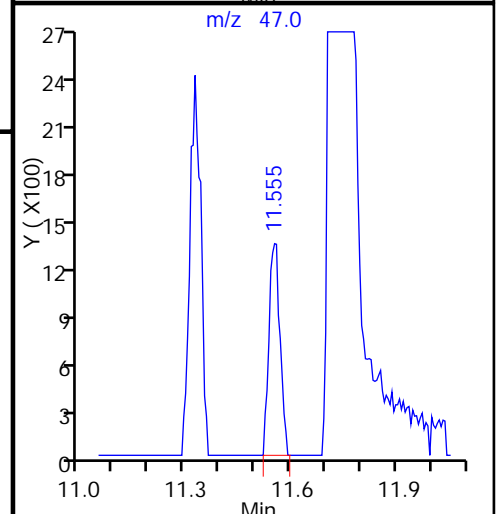
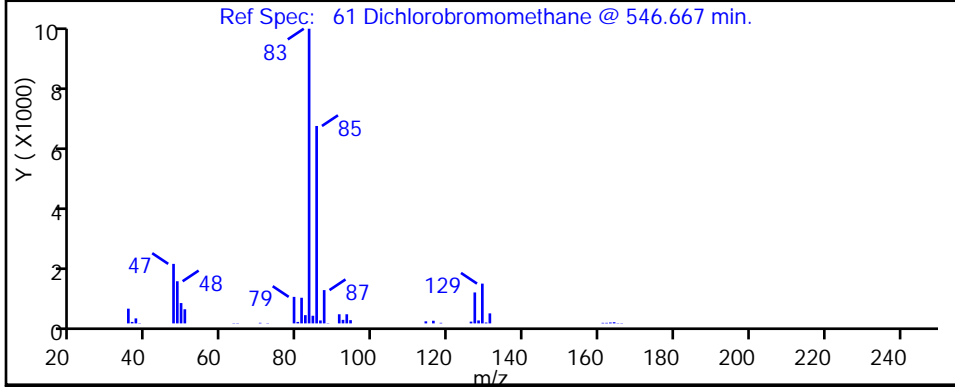
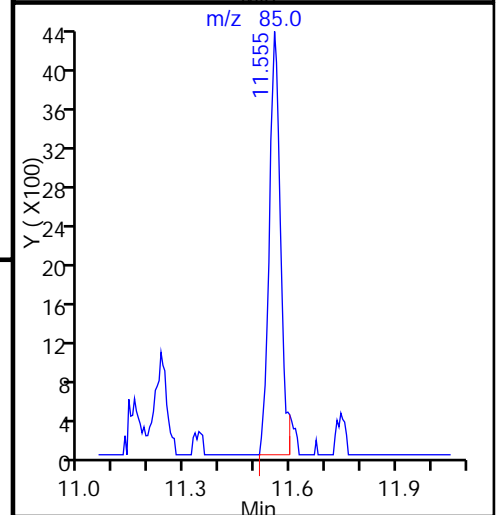
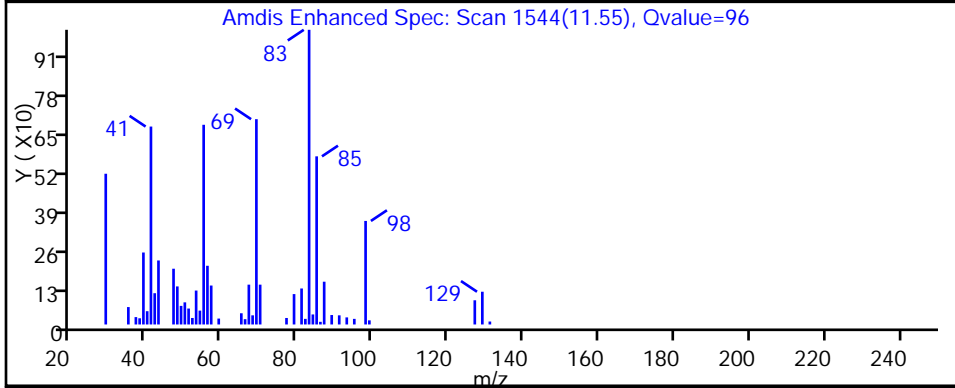
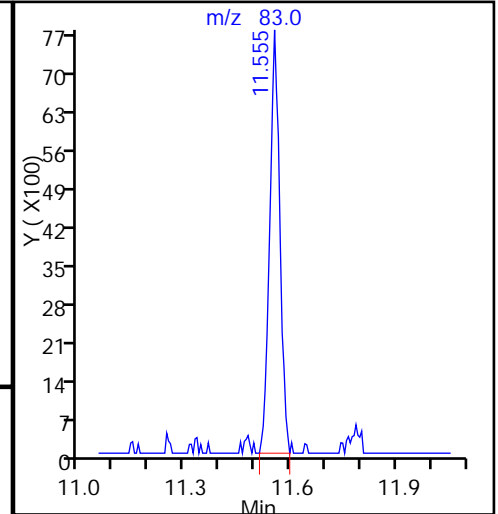
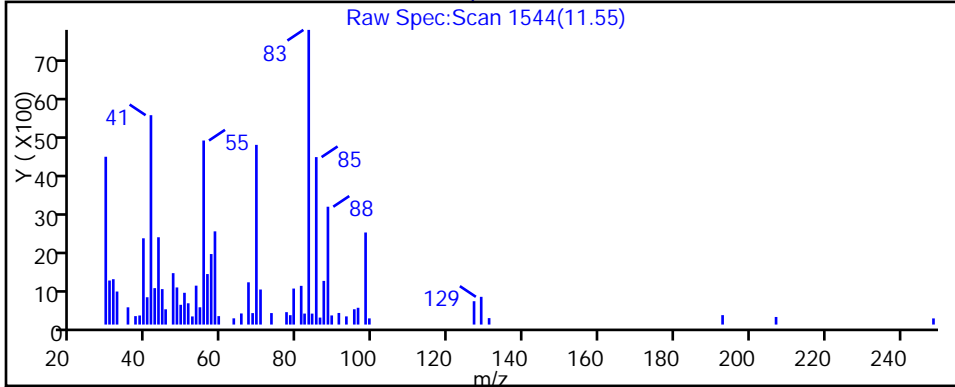
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

61 Dichlorobromomethane, CAS: 75-27-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

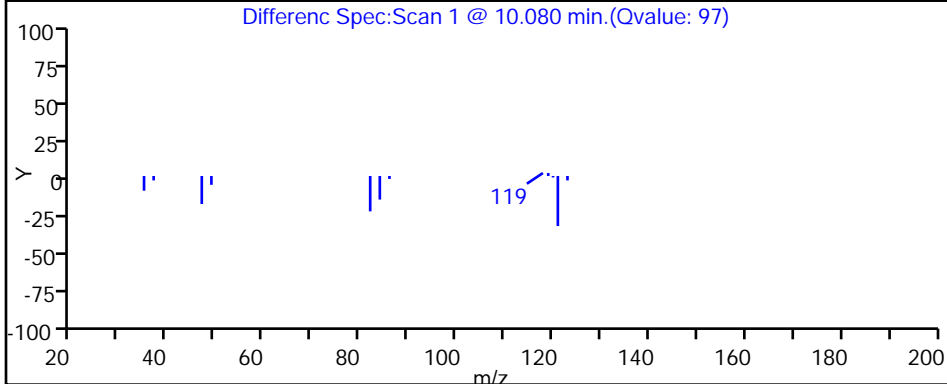
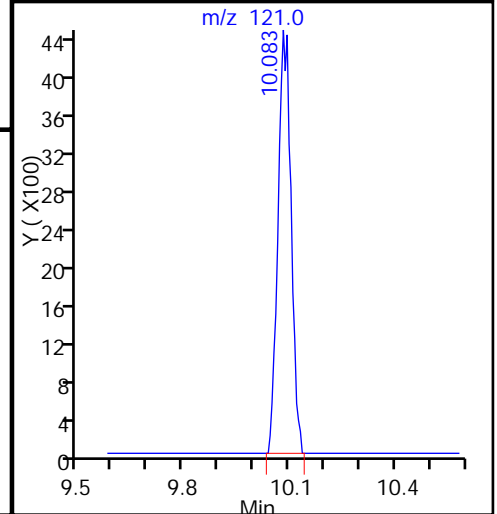
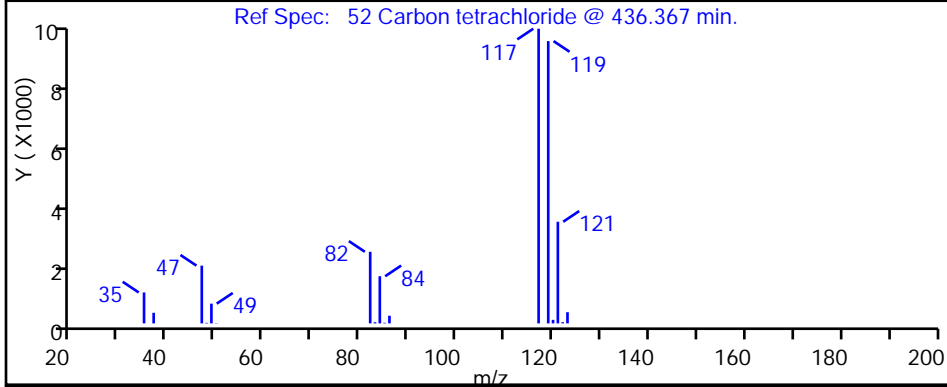
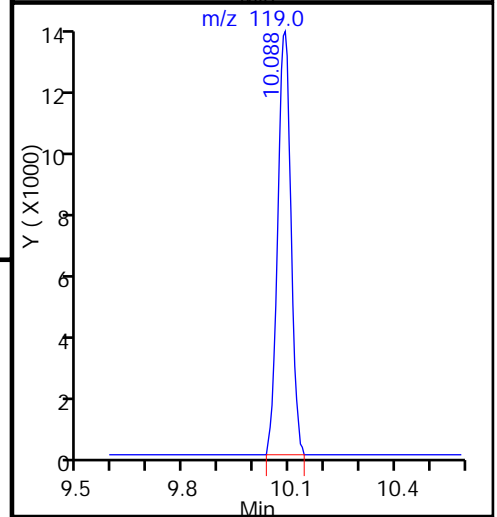
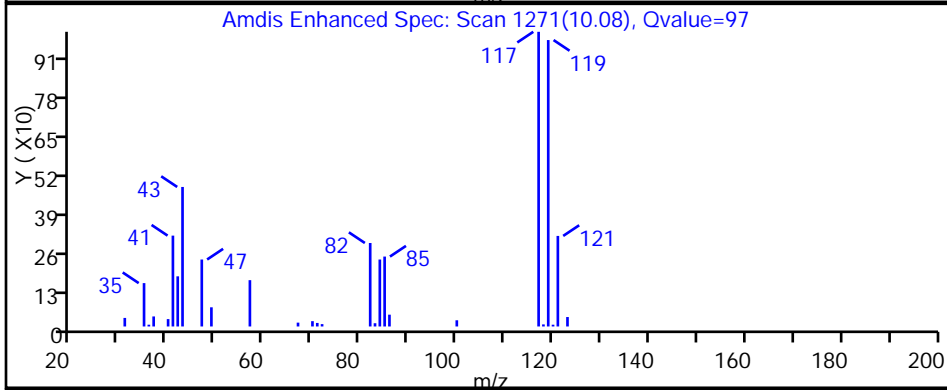
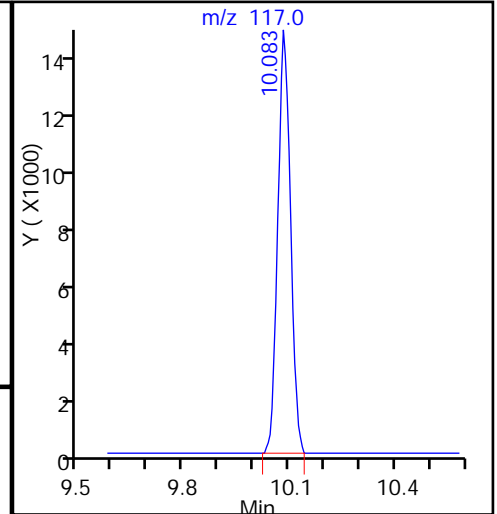
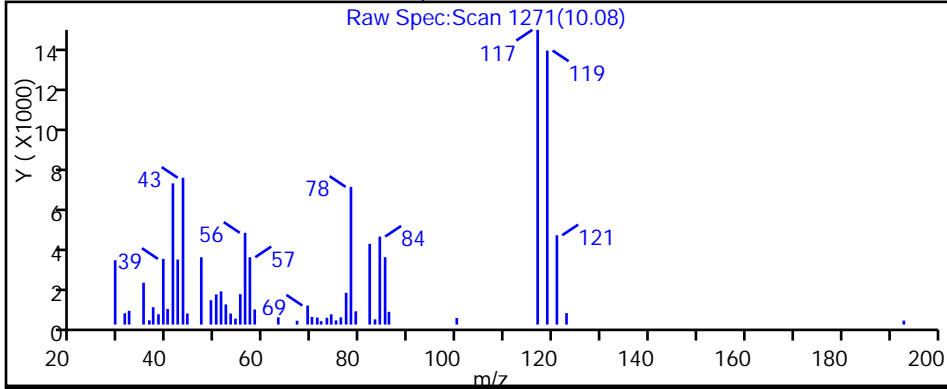
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

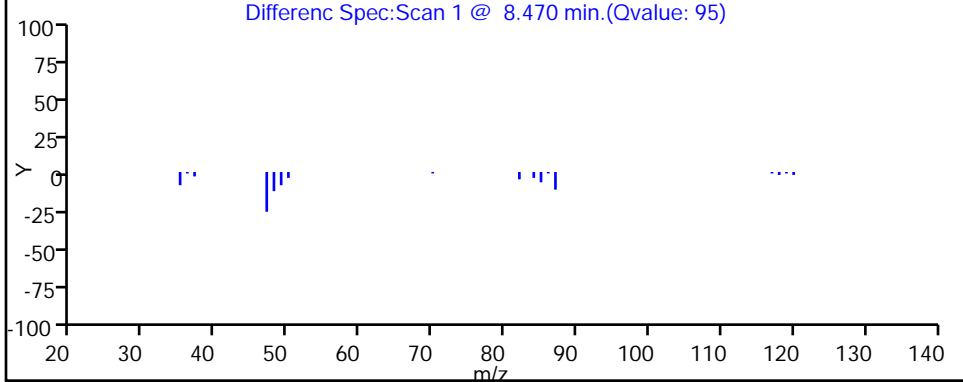
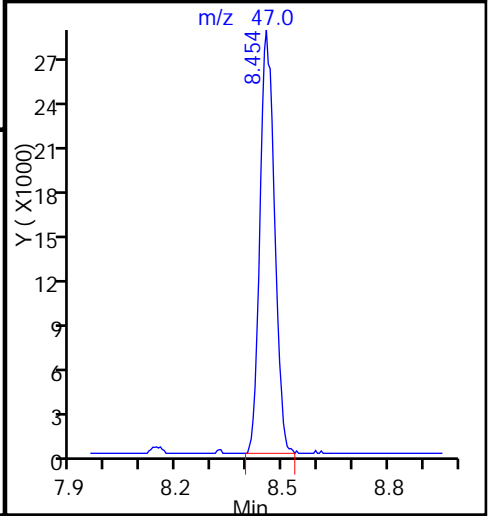
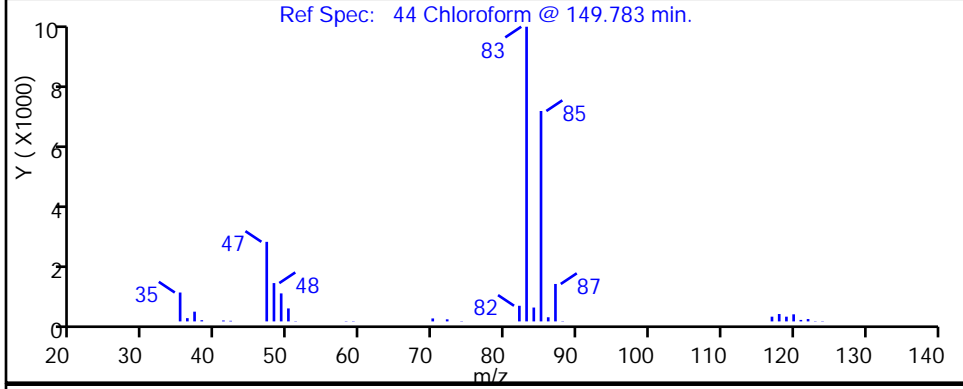
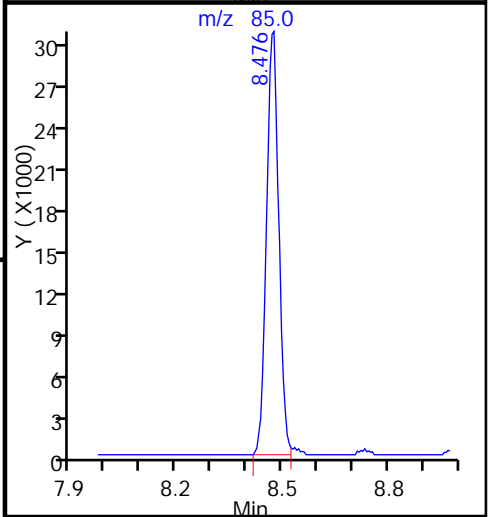
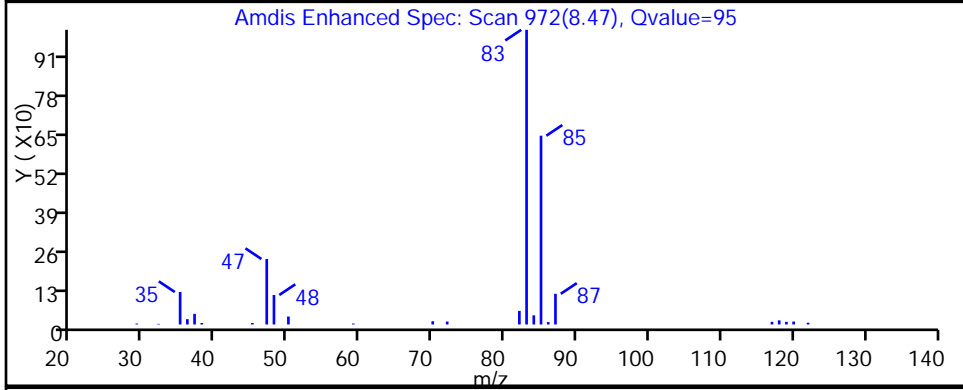
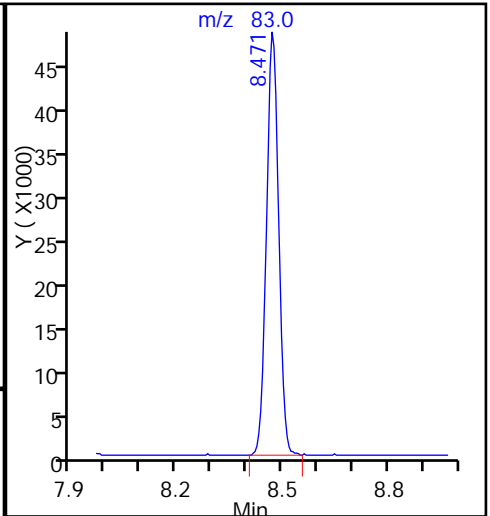
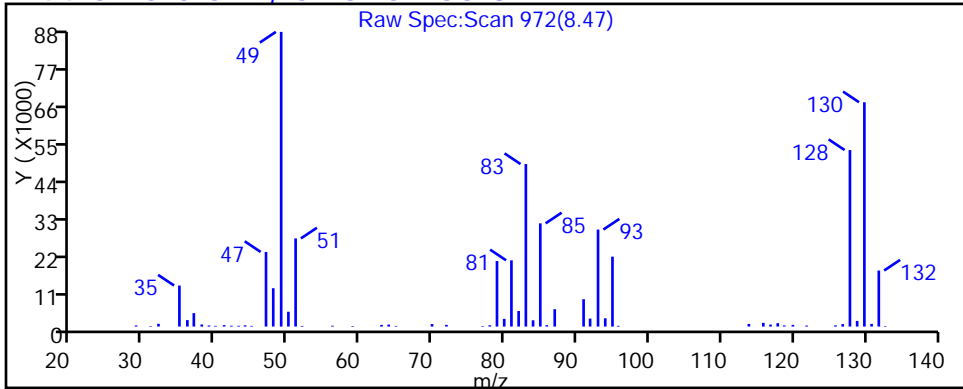
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

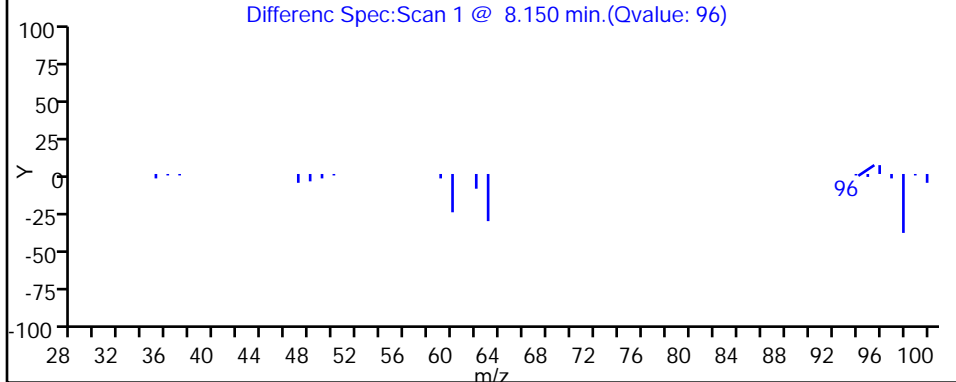
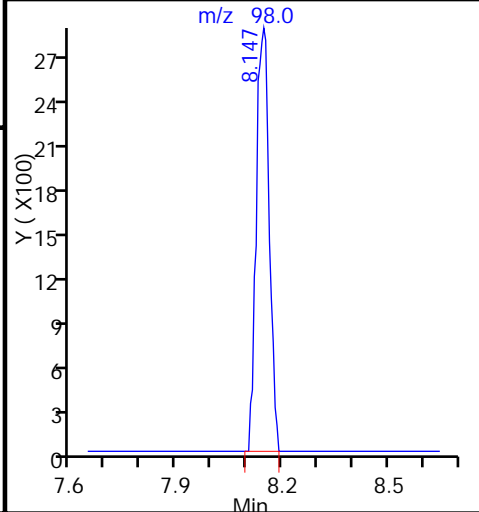
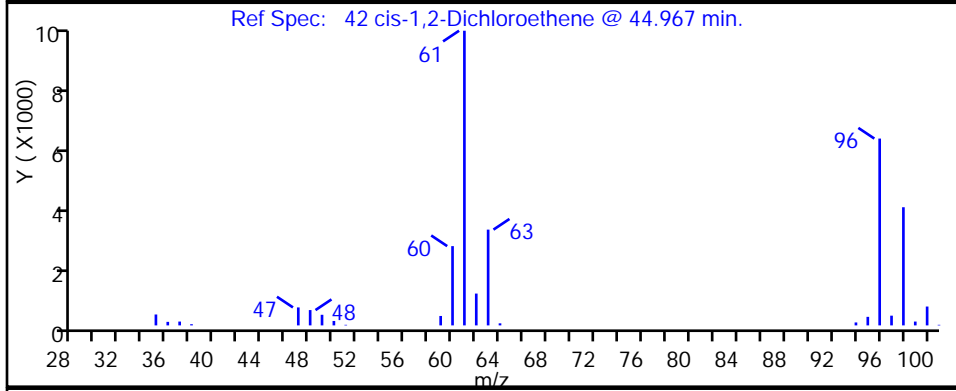
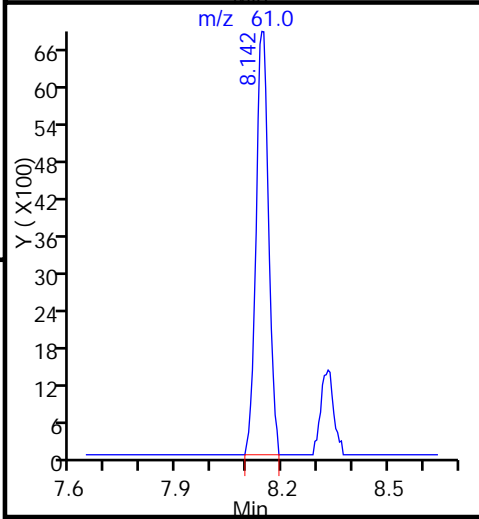
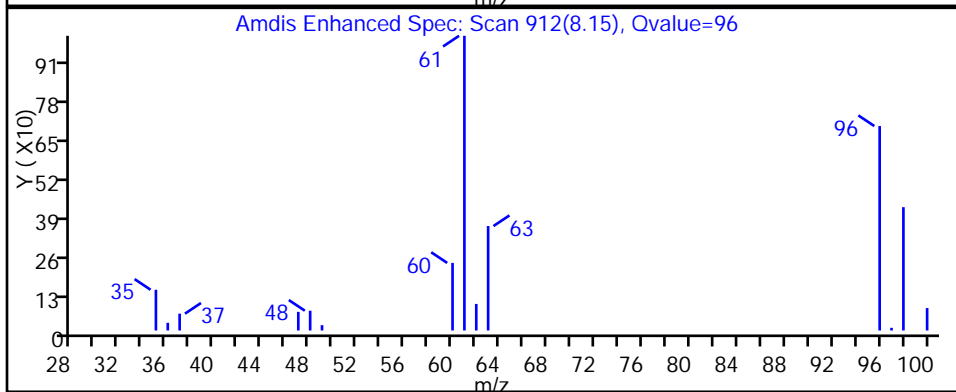
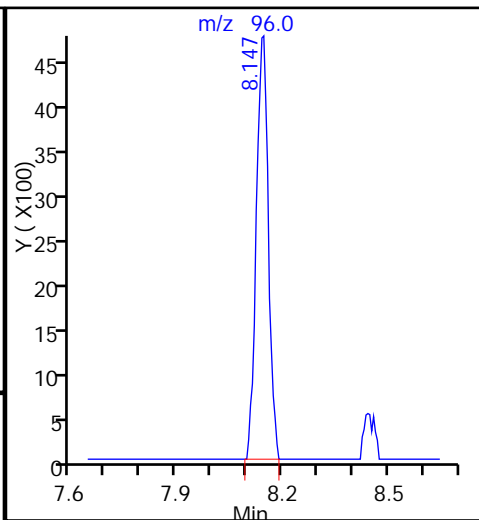
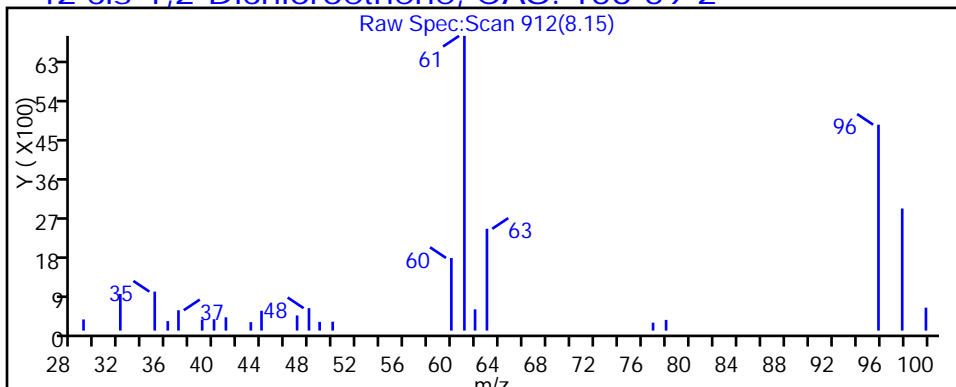
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

42 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

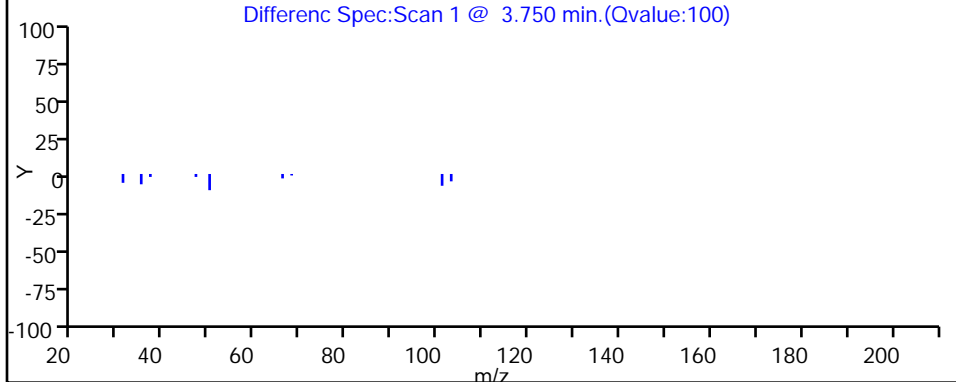
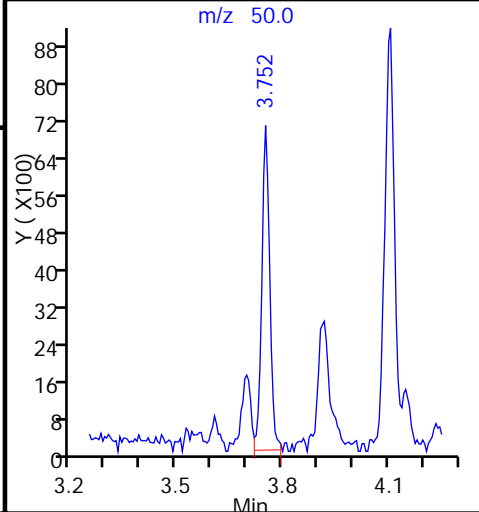
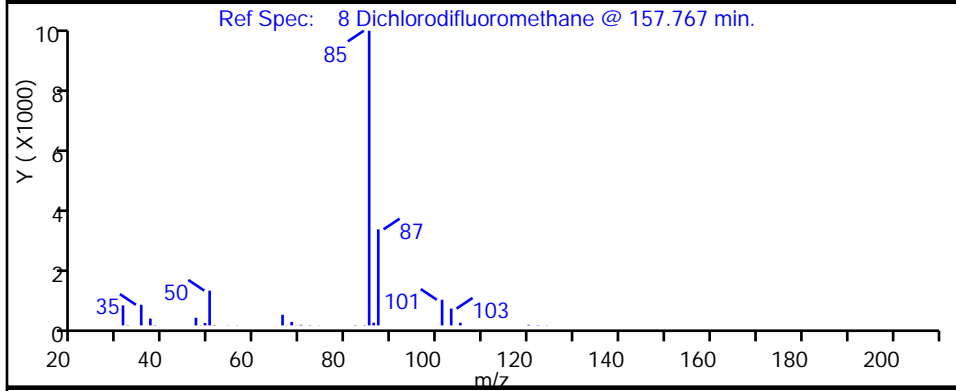
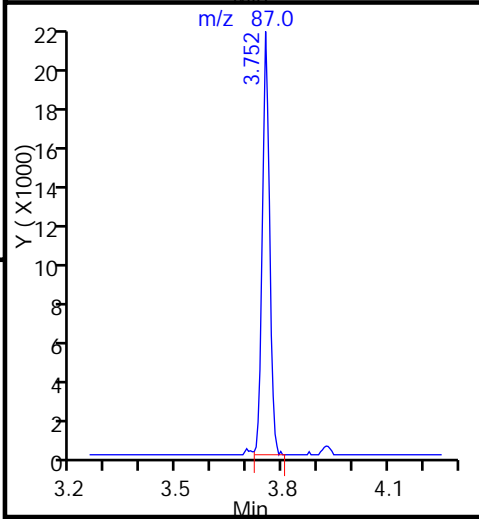
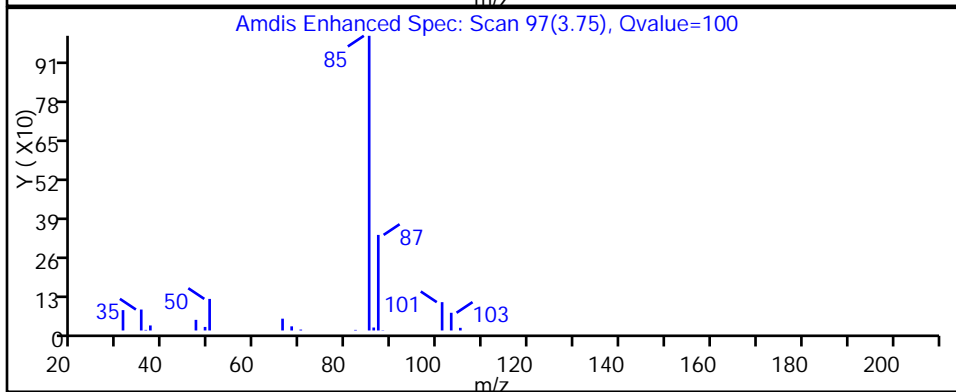
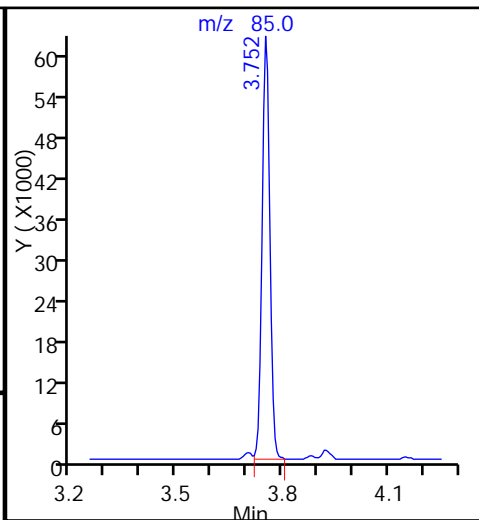
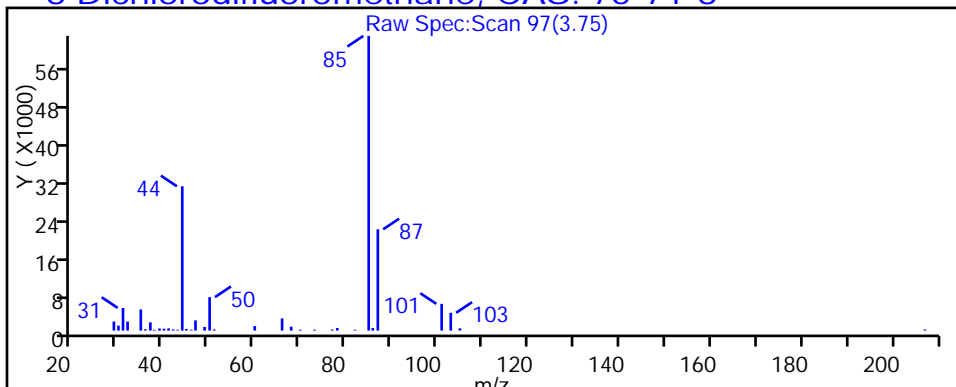
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

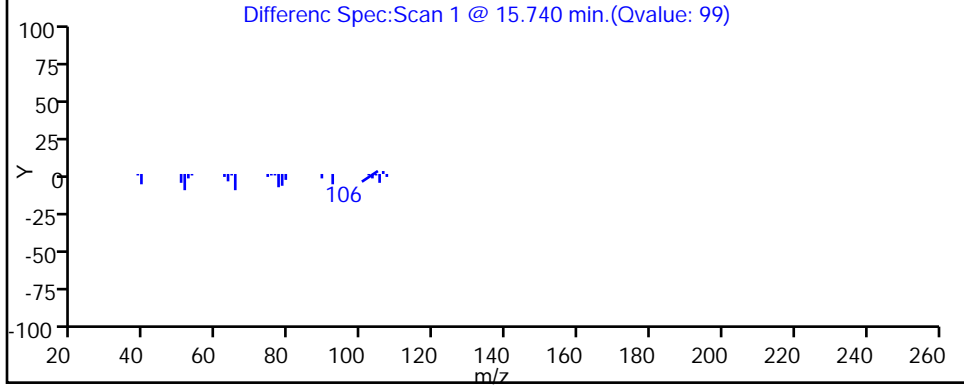
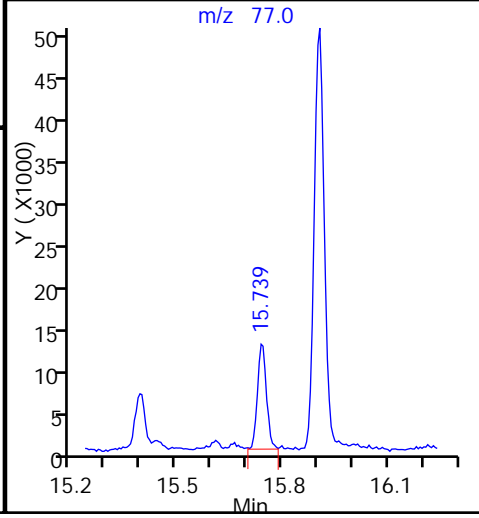
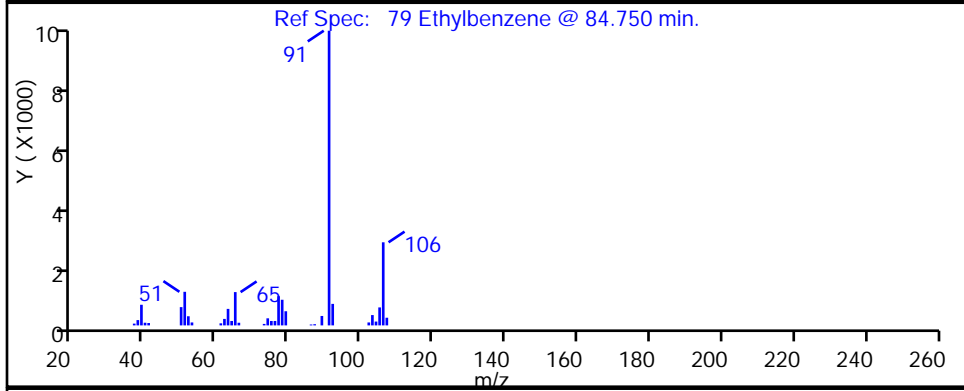
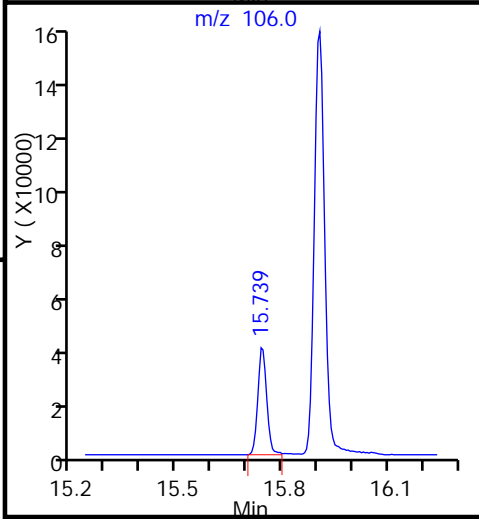
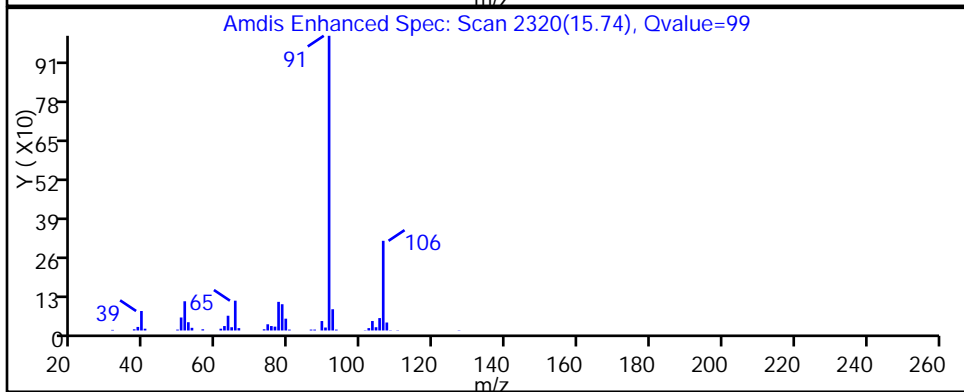
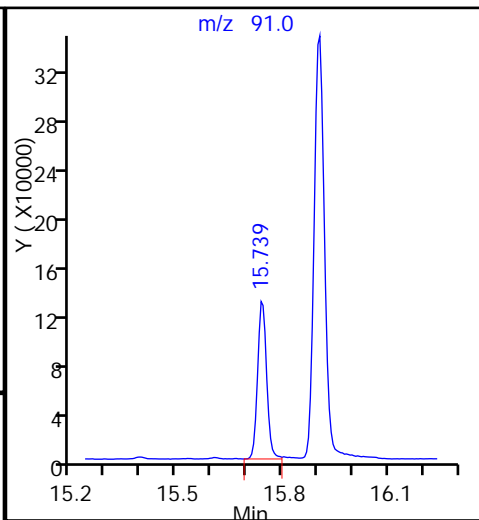
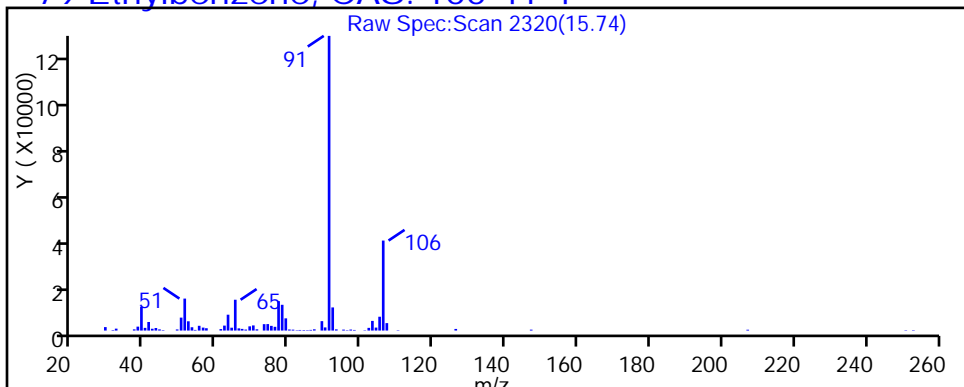
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

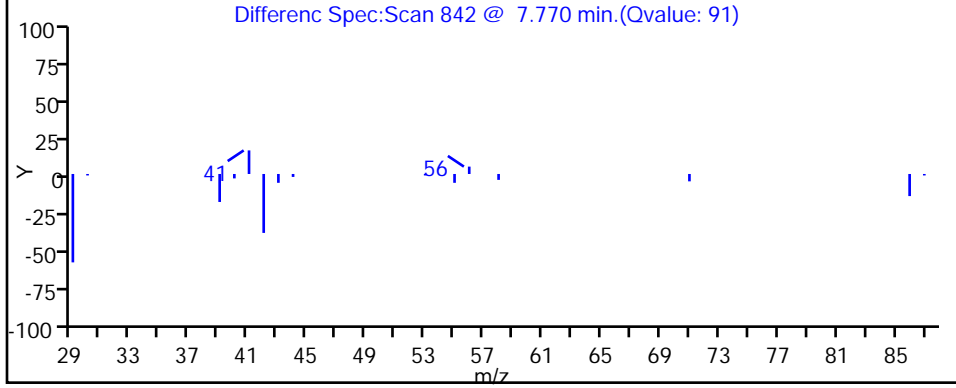
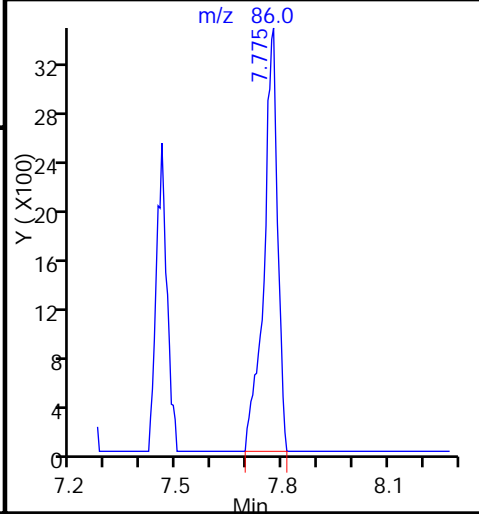
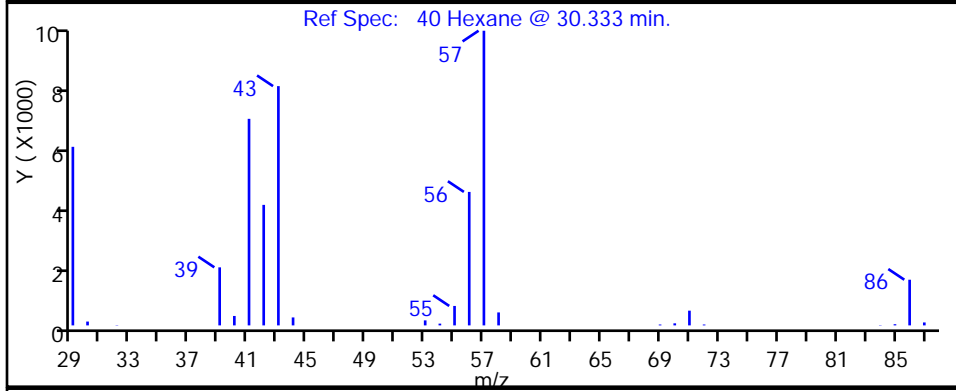
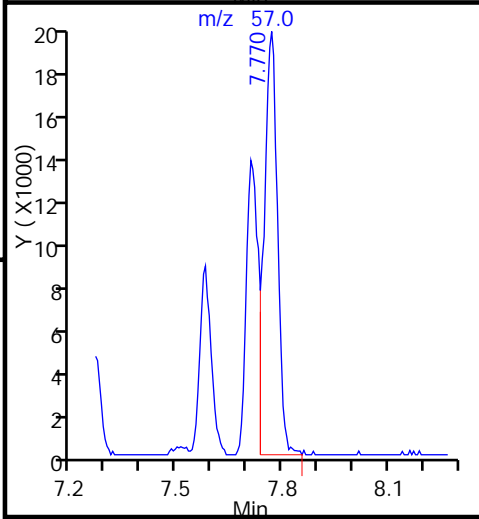
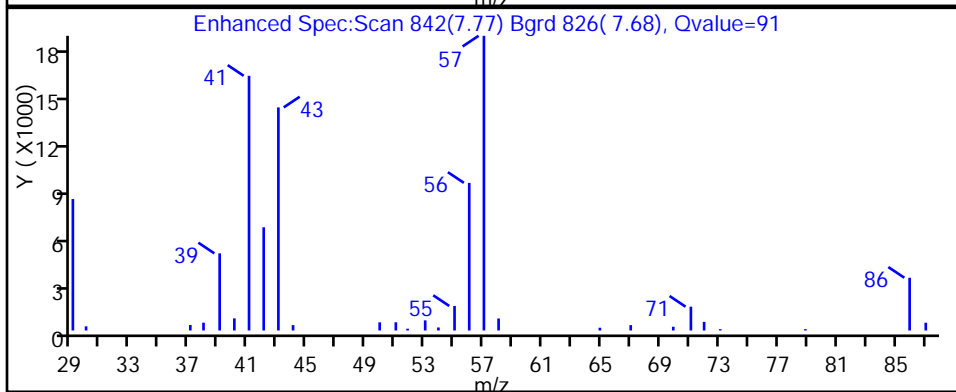
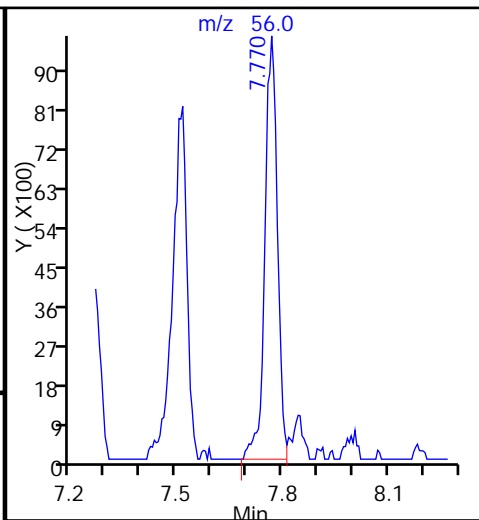
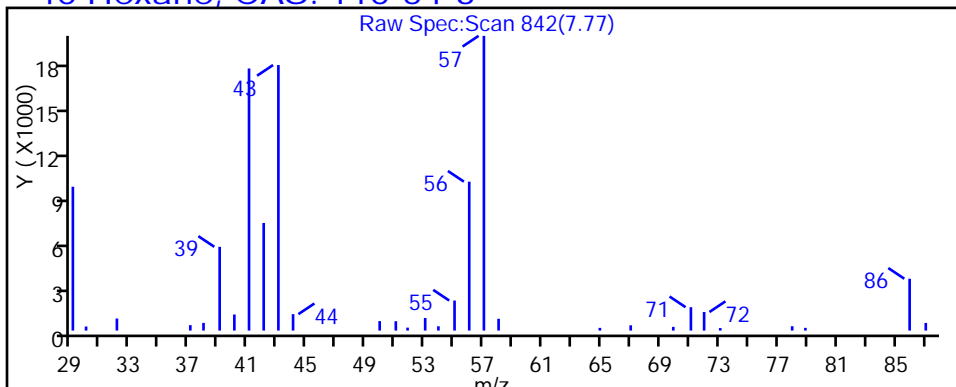
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

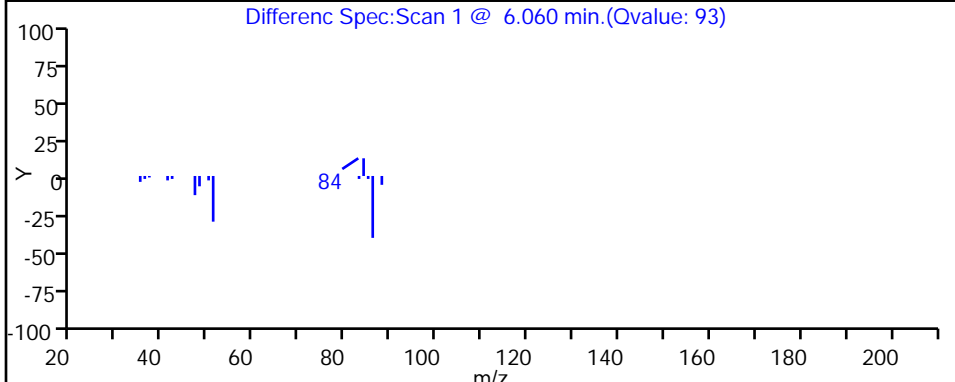
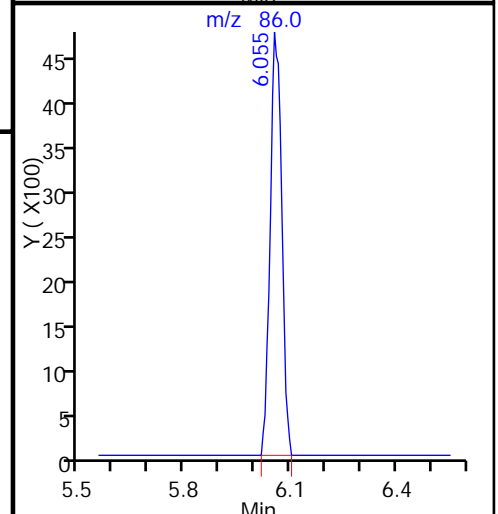
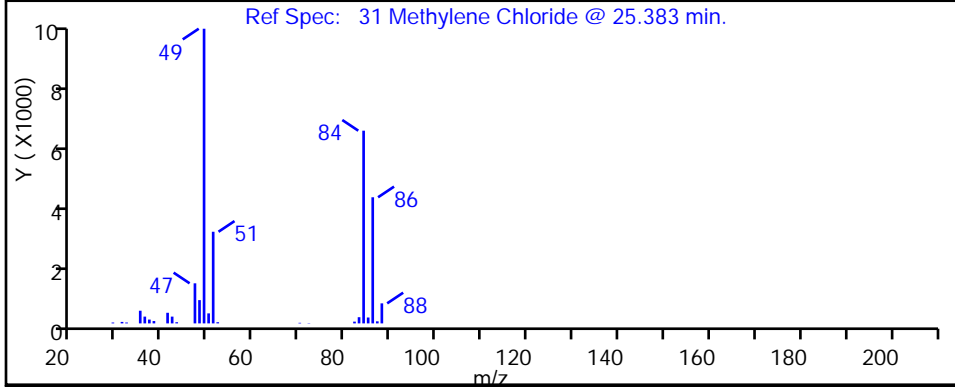
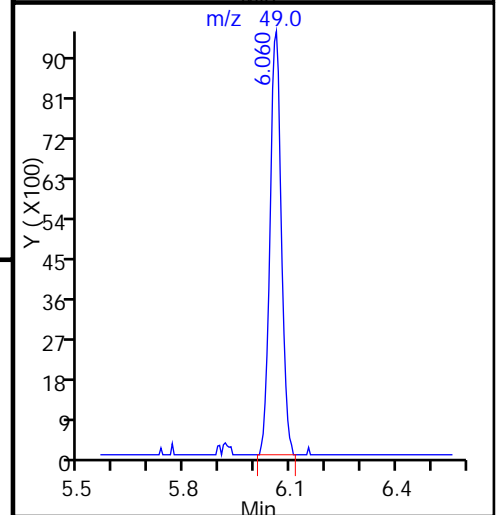
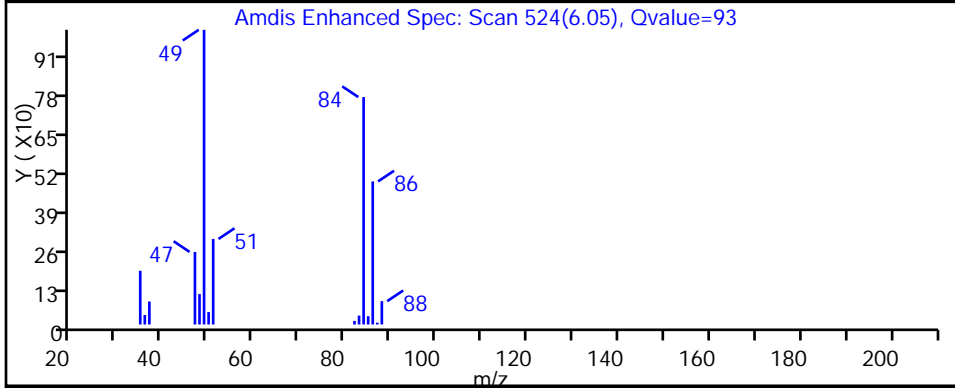
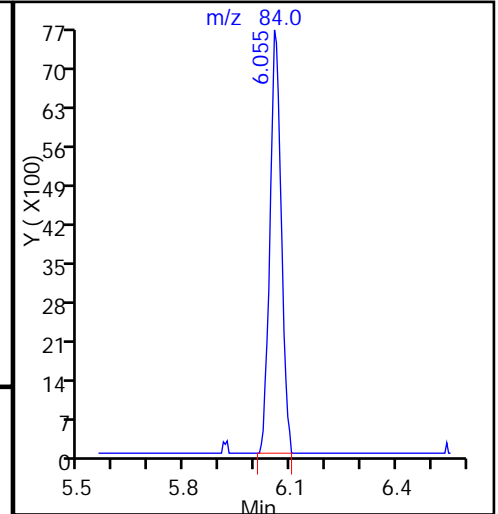
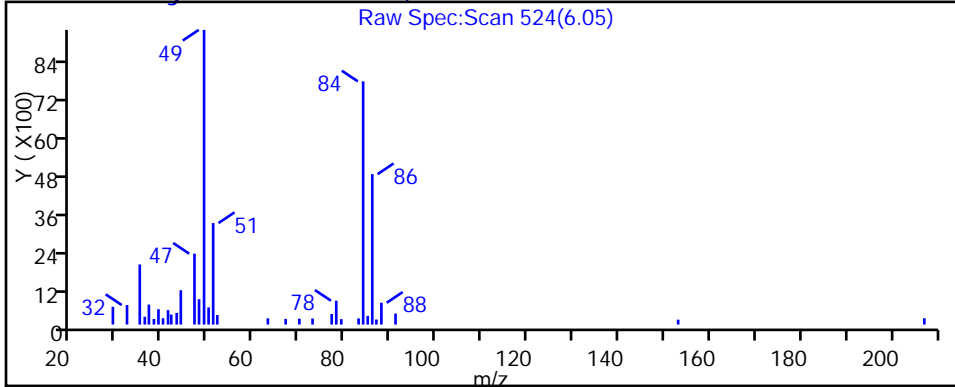
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

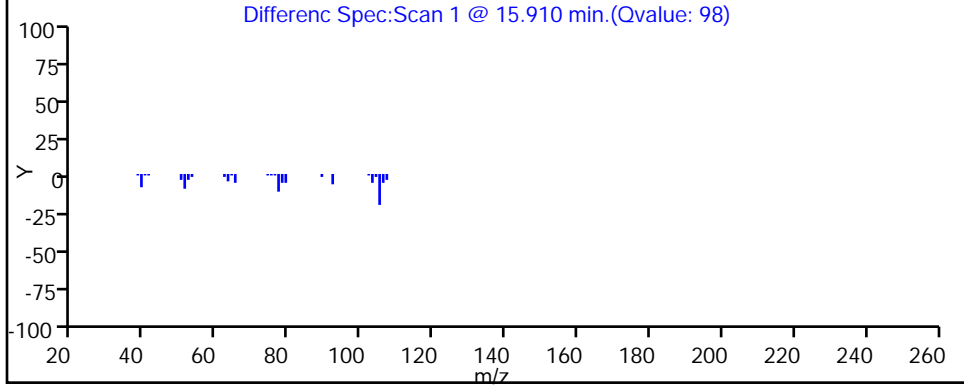
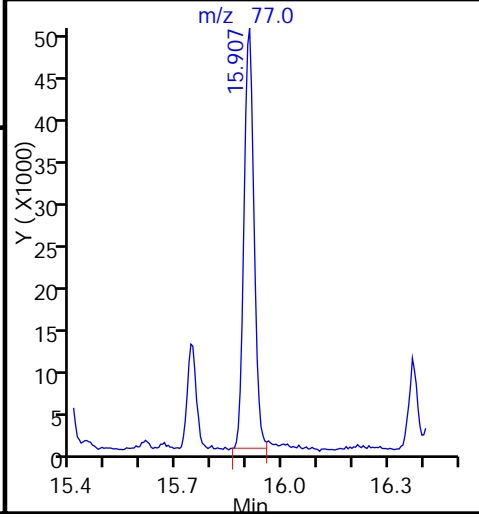
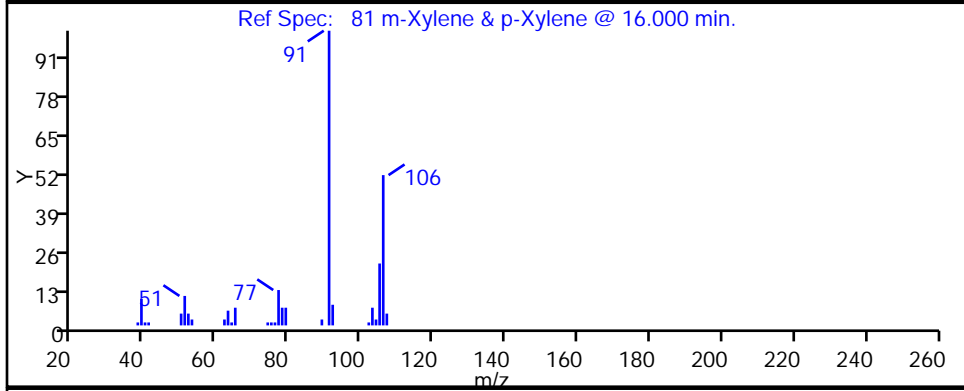
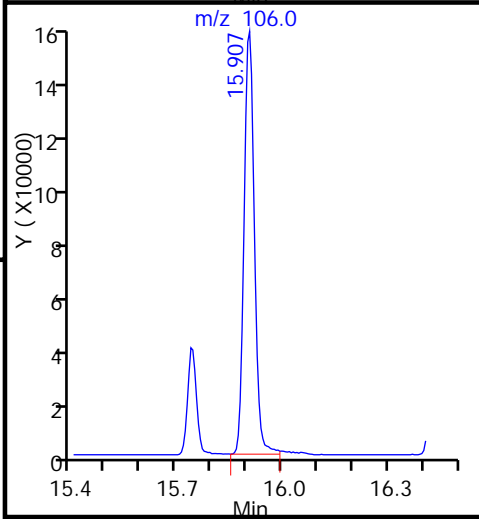
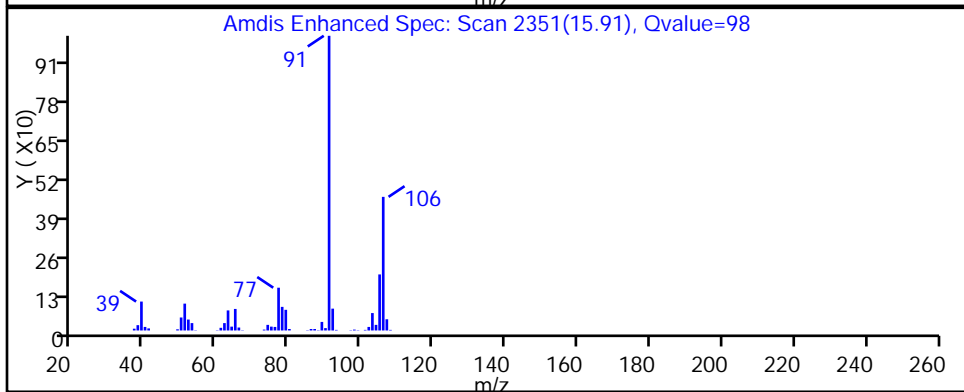
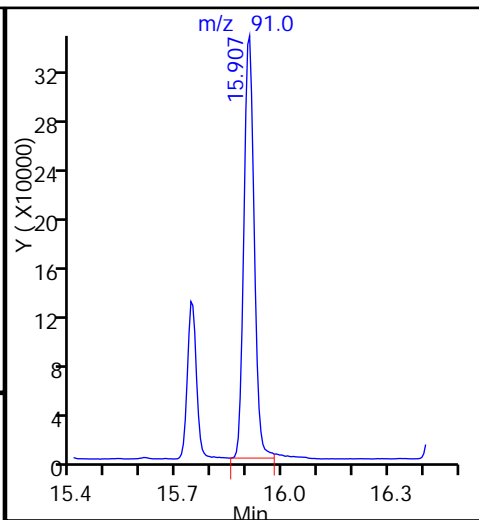
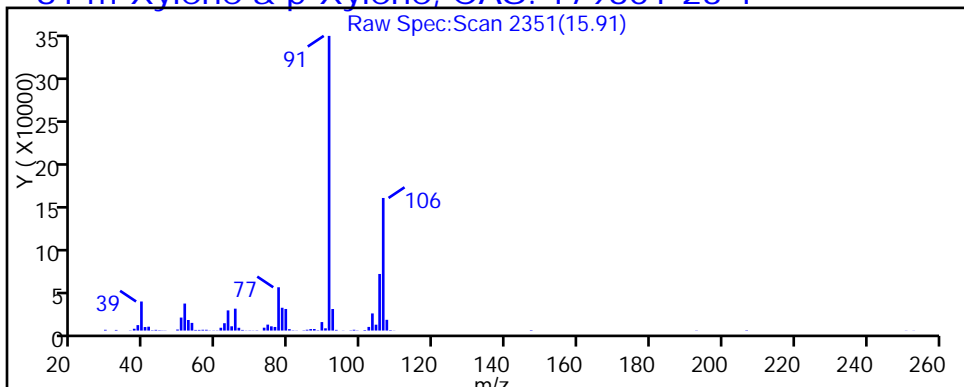
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

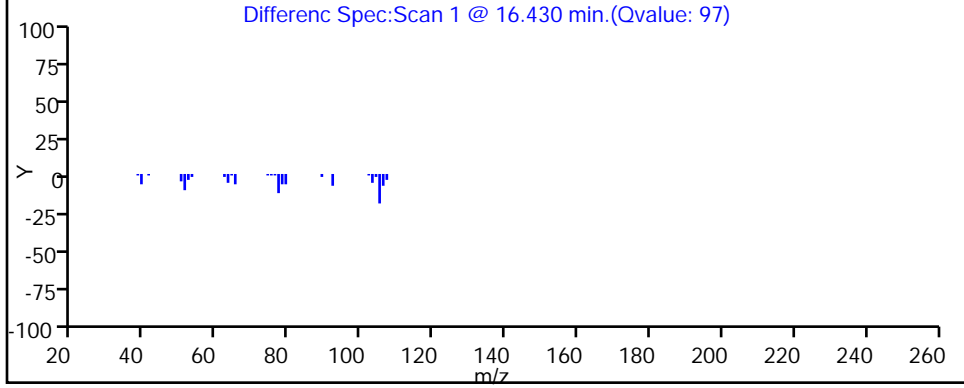
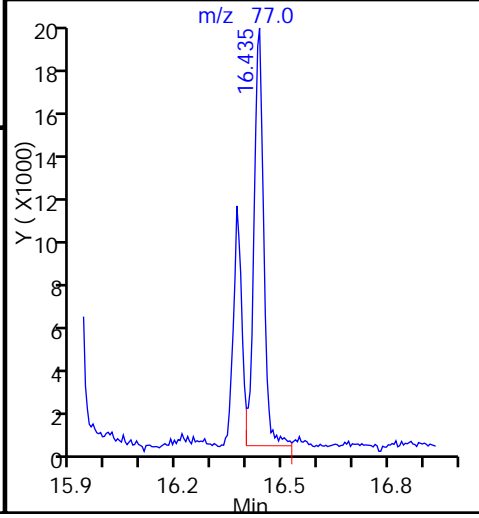
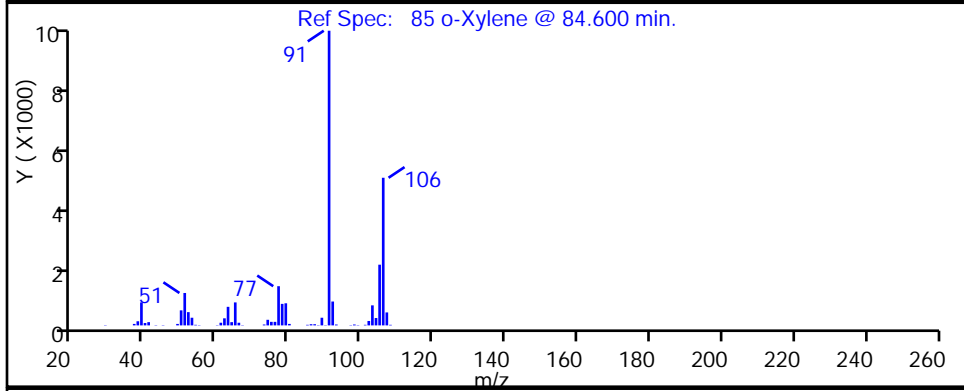
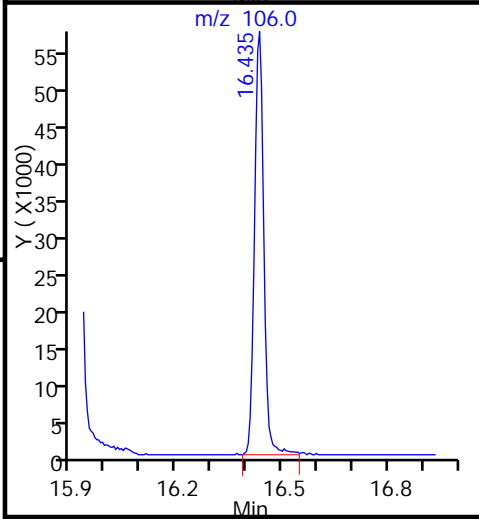
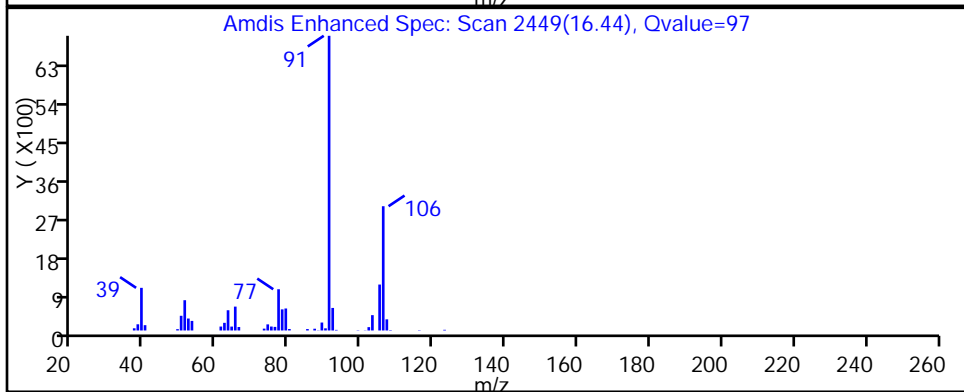
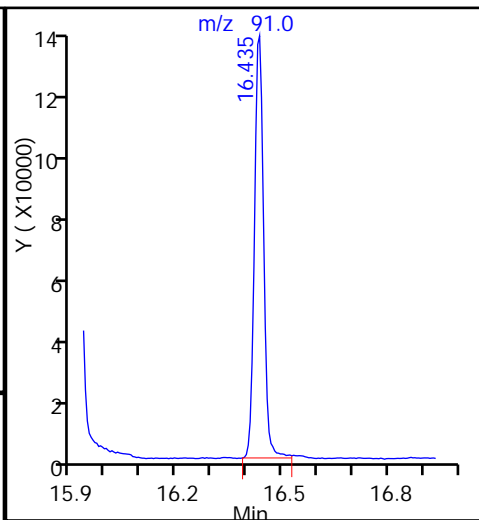
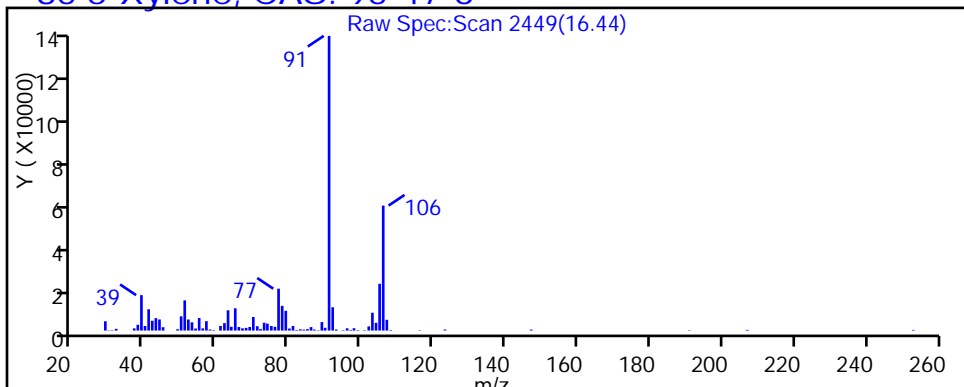
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

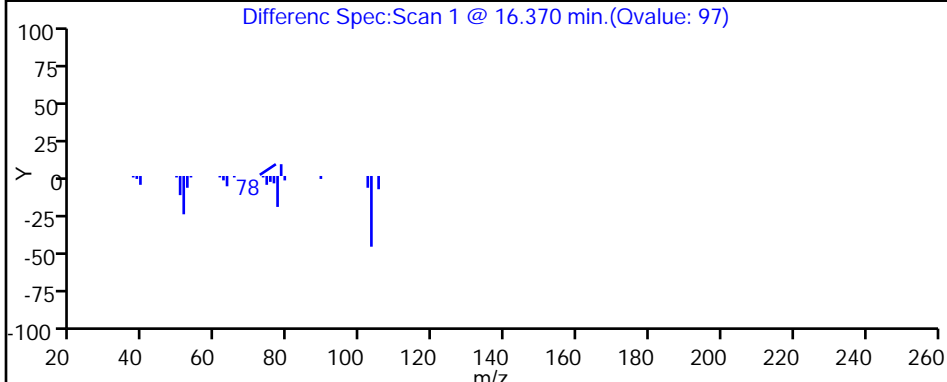
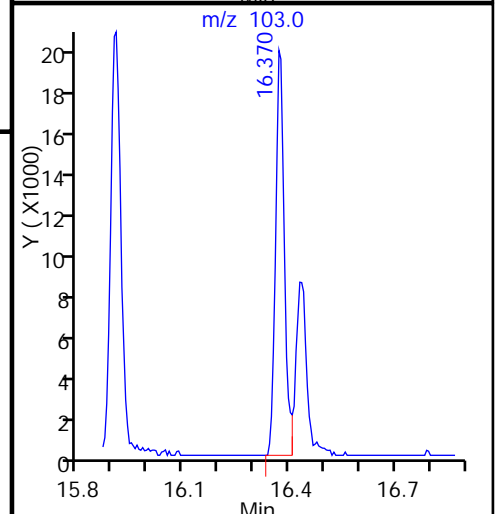
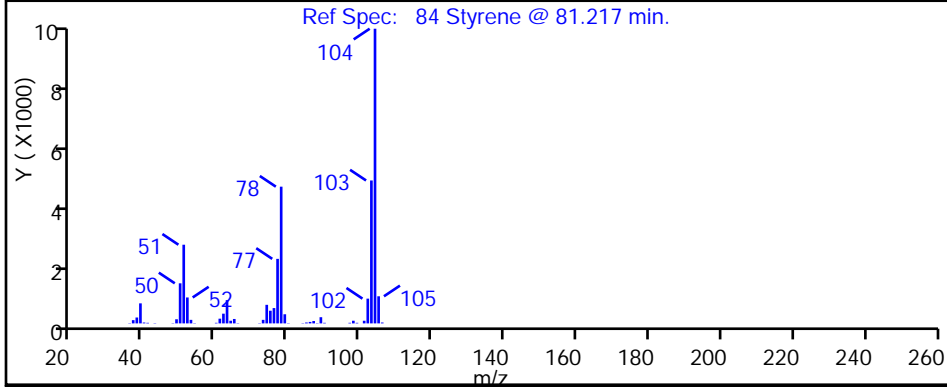
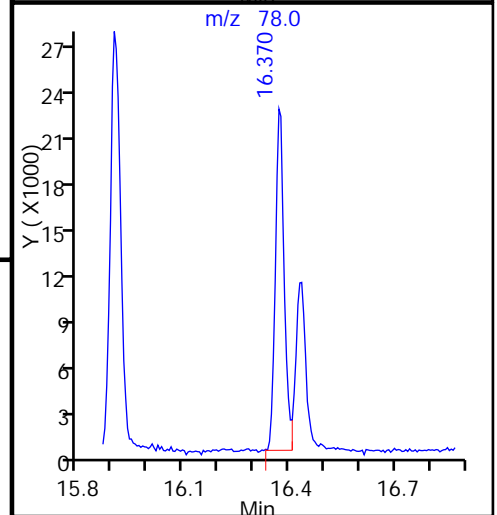
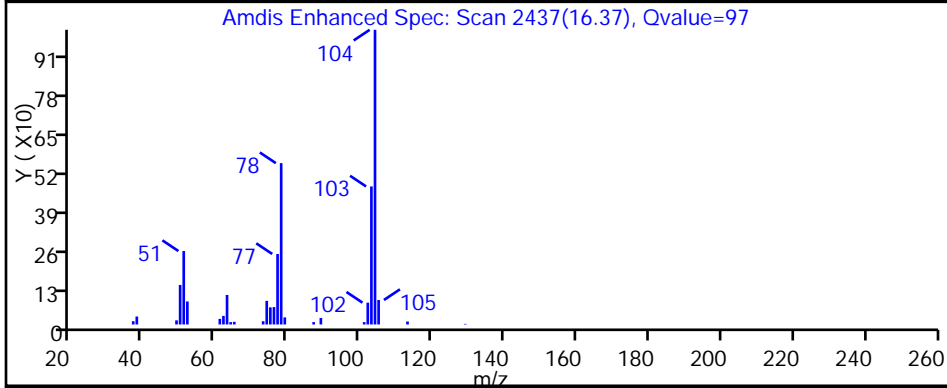
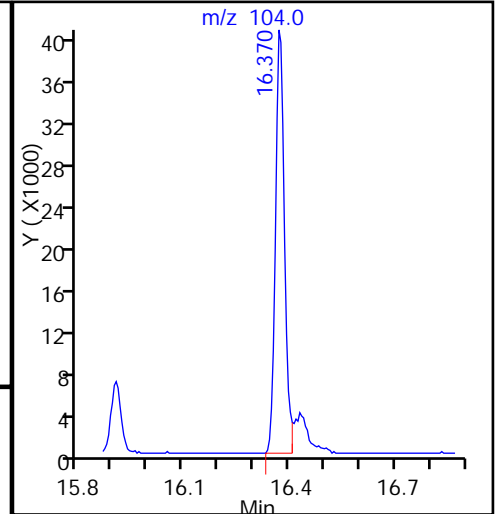
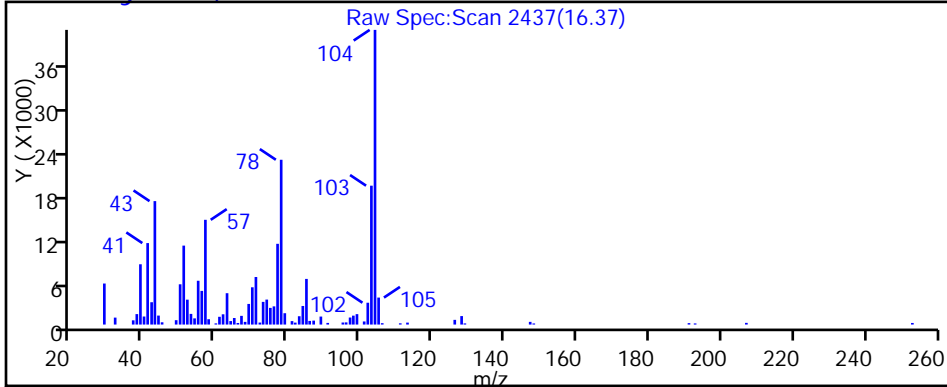
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

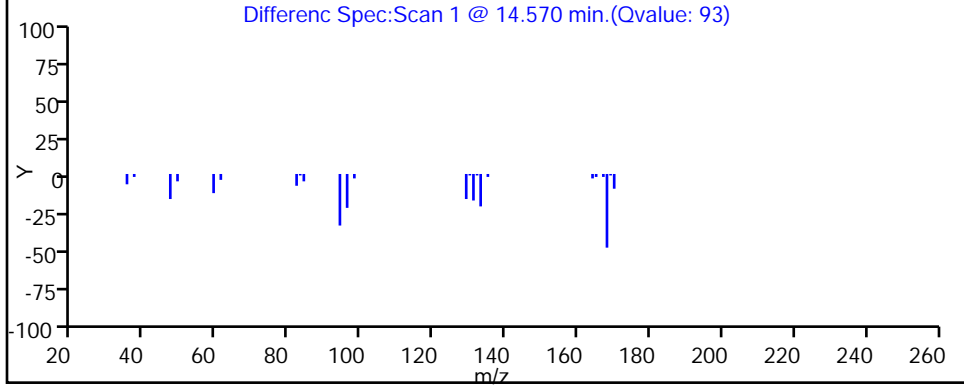
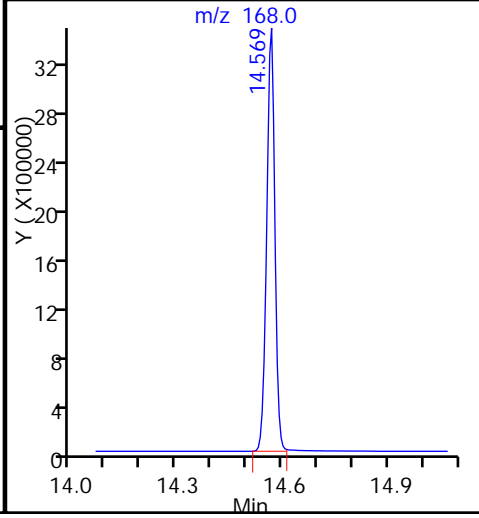
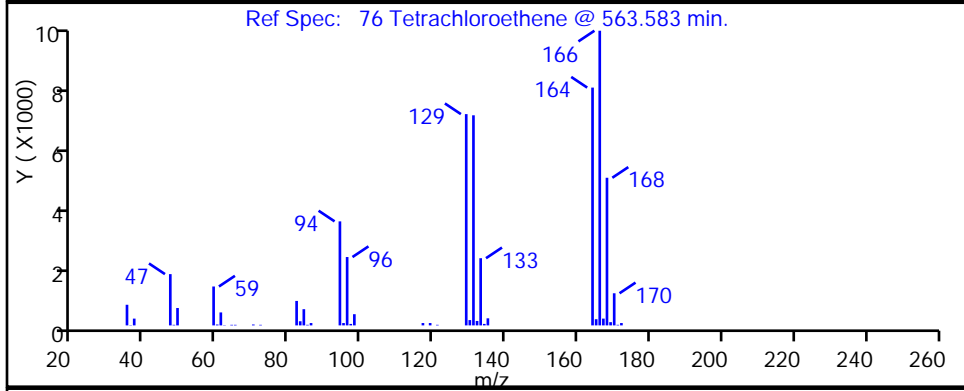
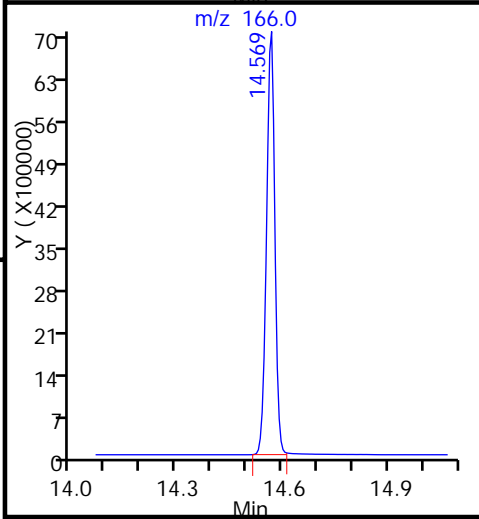
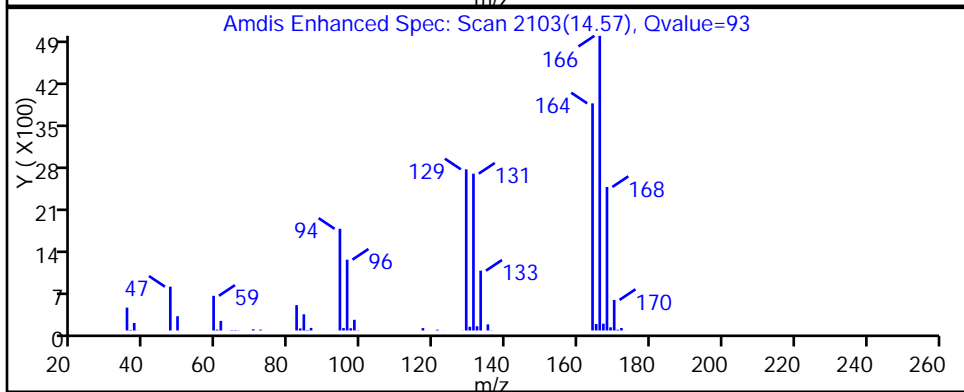
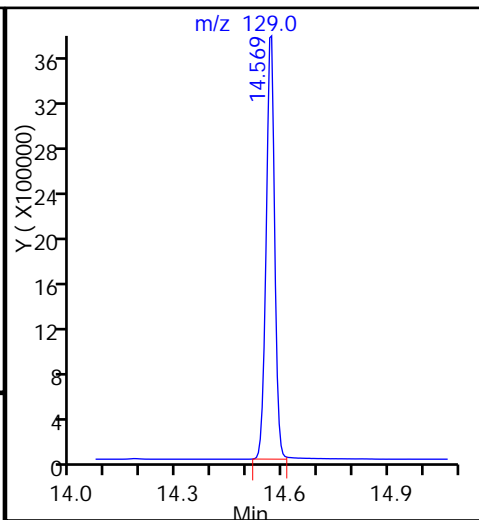
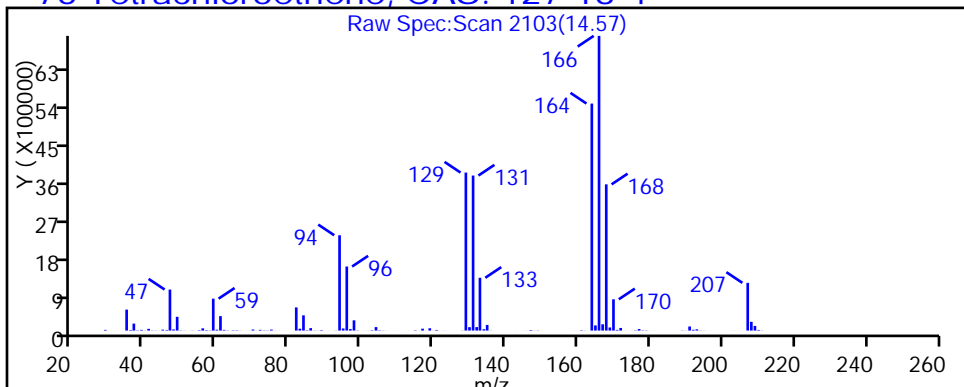
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

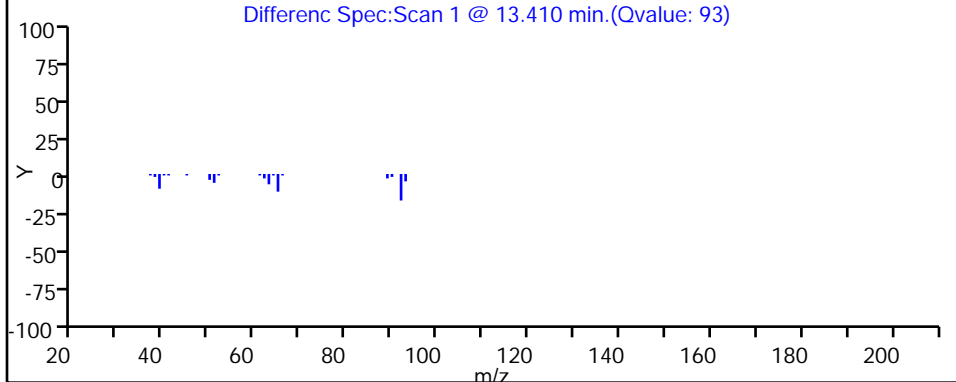
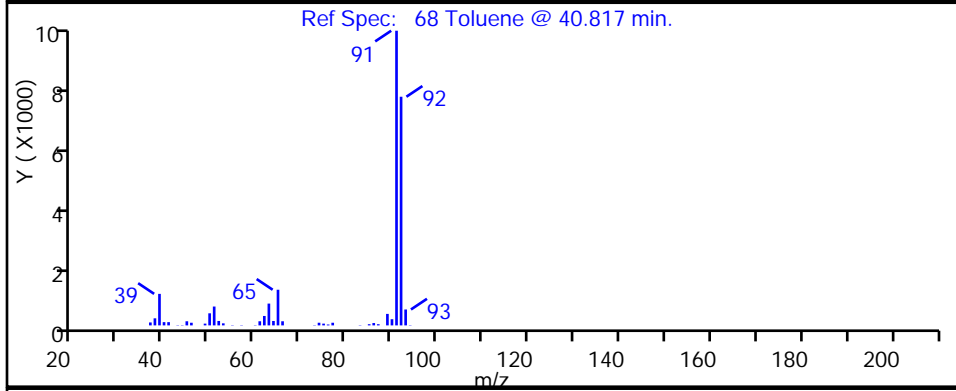
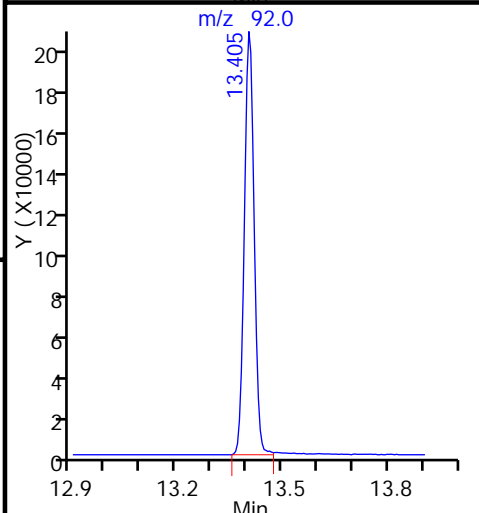
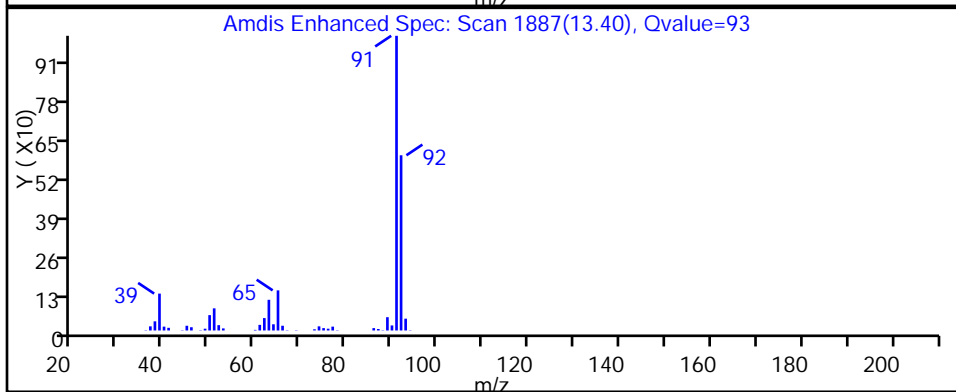
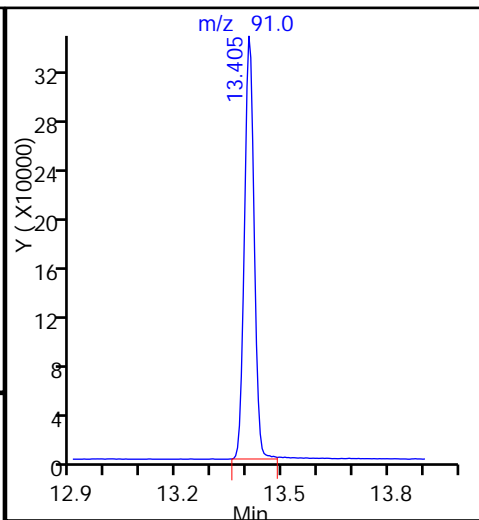
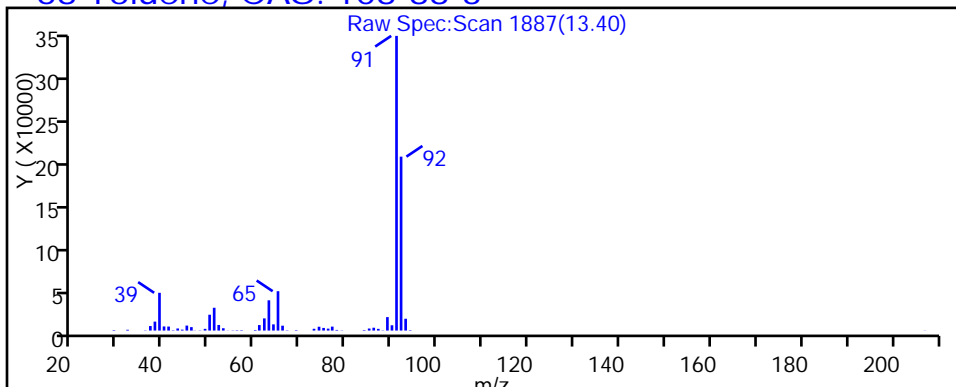
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

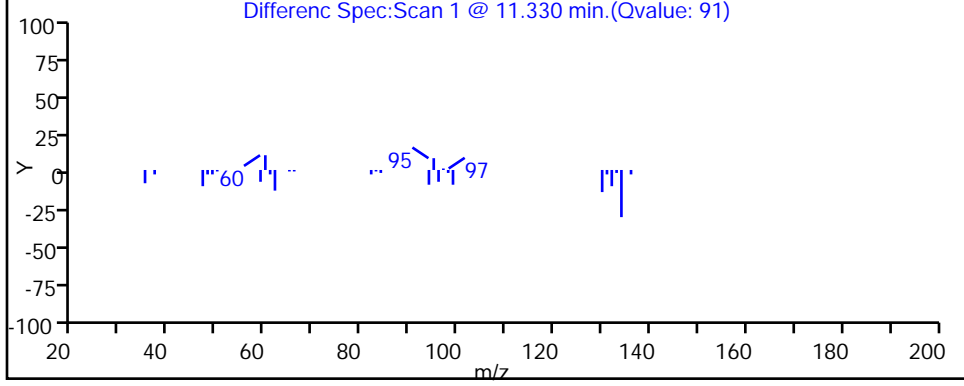
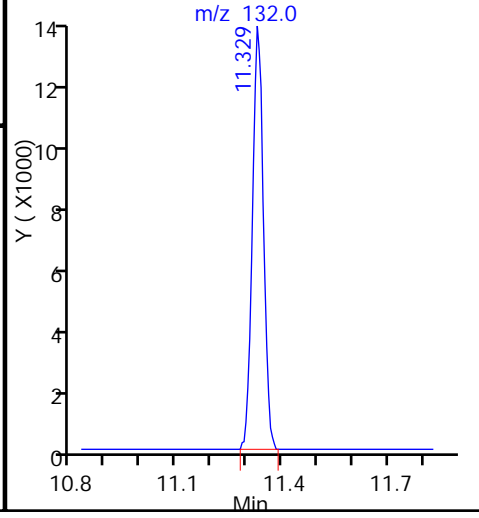
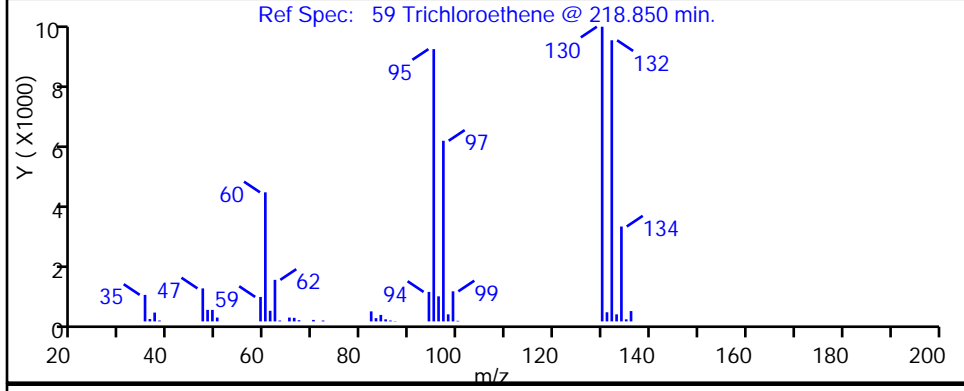
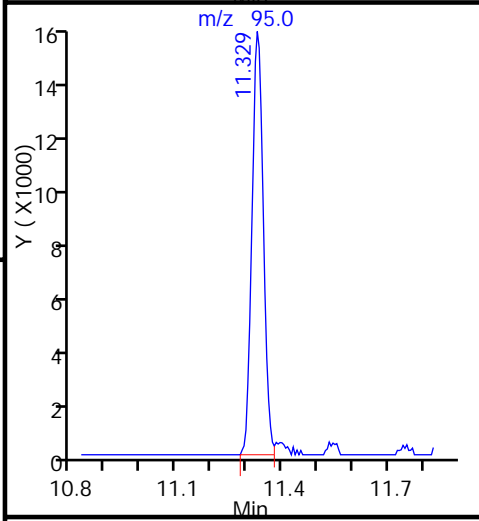
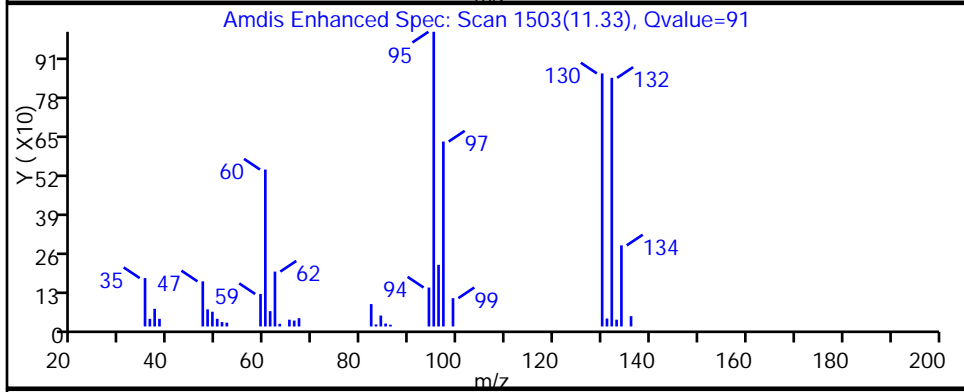
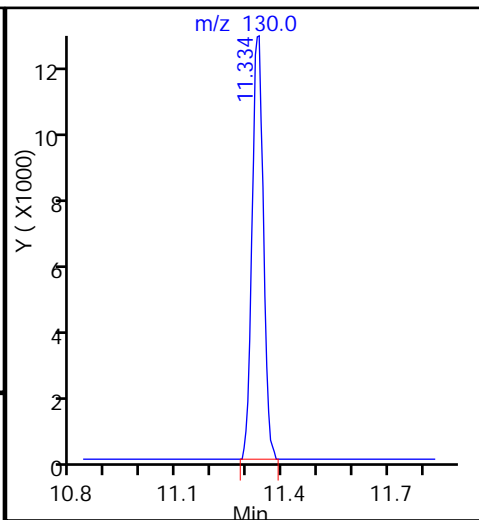
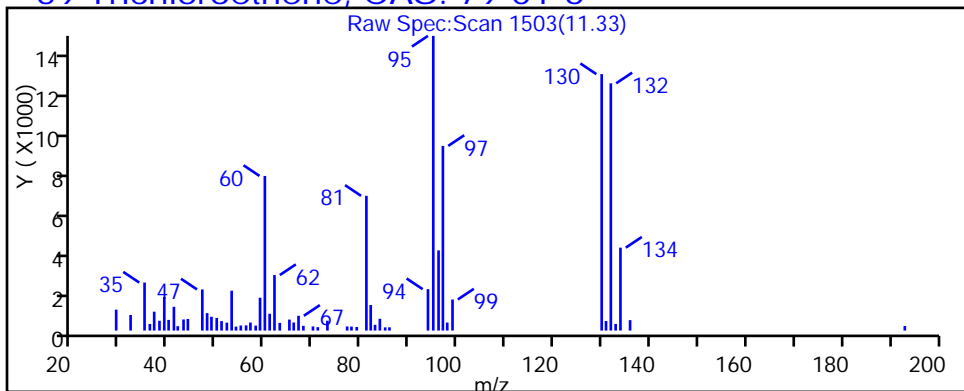
Method: MG_TO15

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\MG\20160919-3444.b\GI21P106.D

Injection Date: 21-Sep-2016 19:50:30

Instrument ID: MG

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 6

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

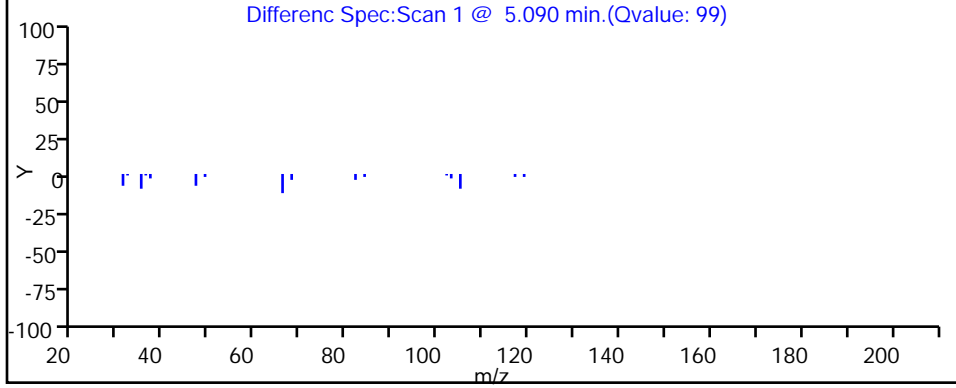
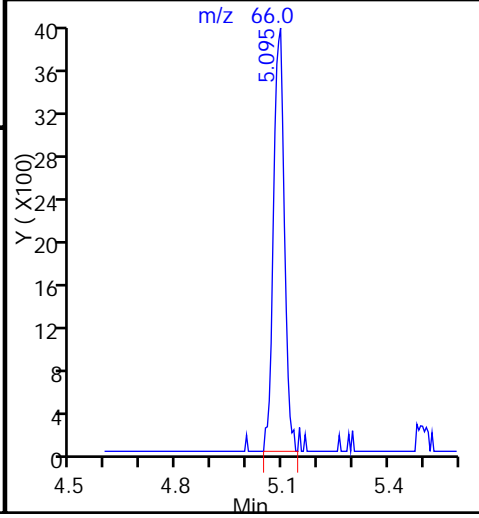
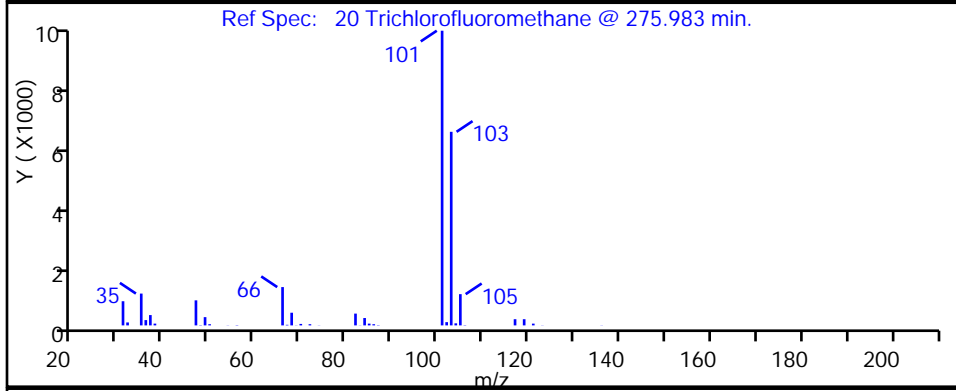
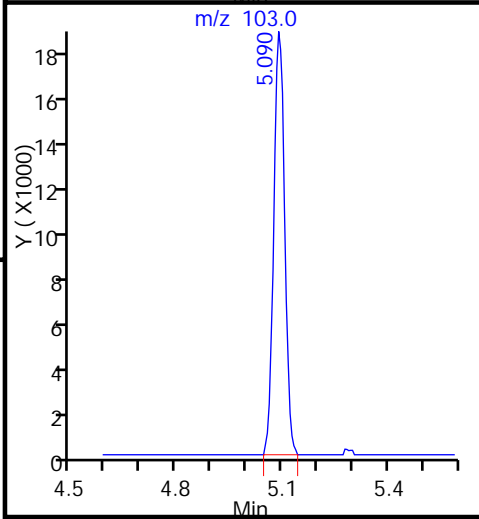
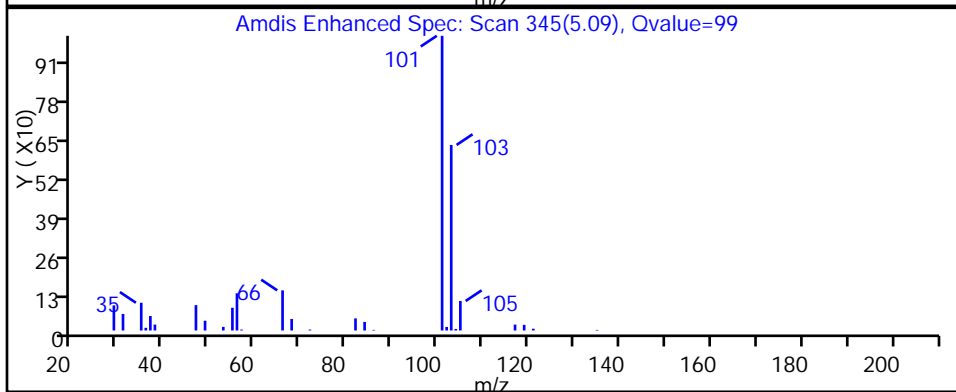
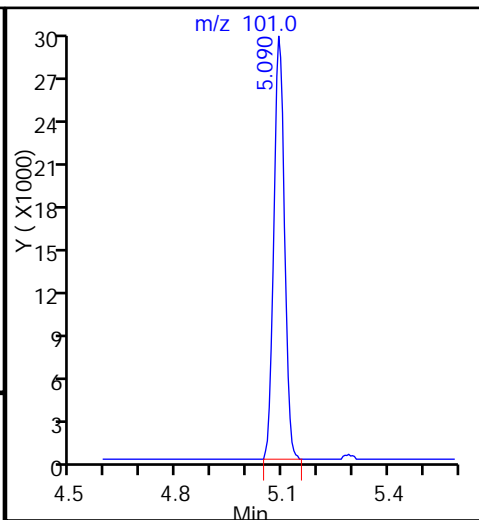
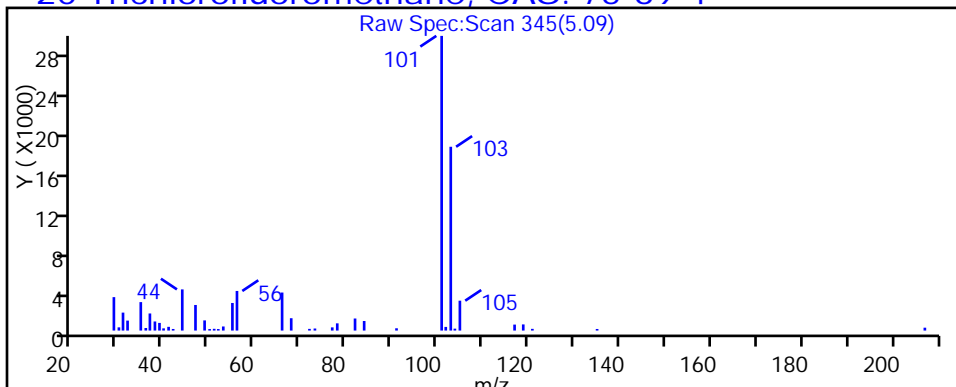
Method: MG_TO15

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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-130 DL Lab Sample ID: 140-5852-5 DL
 Matrix: Air Lab File ID: JI22P114.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:21
 Sample wt/vol: 80 (mL) Date Analyzed: 09/23/2016 04:27
 Soil Aliquot Vol: _____ Dilution Factor: 1.46
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
127-18-4	Tetrachloroethene	165.83	42	D	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	114		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-130 DL Lab Sample ID: 140-5852-5 DL
 Matrix: Air Lab File ID: JI22P114.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:21
 Sample wt/vol: 80 (mL) Date Analyzed: 09/23/2016 04:27
 Soil Aliquot Vol: _____ Dilution Factor: 1.46
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
127-18-4	Tetrachloroethene	165.83	280	D	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	114		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P114.D
 Lims ID: 140-5852-A-5
 Client ID: VP-130
 Sample Type: Client
 Inject. Date: 23-Sep-2016 04:27:30 ALS Bottle#: 14 Worklist Smp#: 21
 Purge Vol: 500.000 mL Dil. Factor: 1.4600
 Sample Info: 140-0003446-021
 Misc. Info.: 140-5852-a-5@1.46
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.332	9.335	-0.003	95	198054	4.00	
* 2 1,4-Difluorobenzene	114	11.495	11.497	-0.002	97	902129	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.175	16.177	-0.002	92	812629	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.805	17.802	0.003	88	545373	4.55	
8 Dichlorodifluoromethane	85	3.996	3.998	-0.002	98	11284	0.0518	
17 Ethanol	31	5.077	5.074	0.003	93	7368	0.9628	
20 Trichlorofluoromethane	101	5.593	5.596	-0.003	96	7682	0.0381	
28 2-Methyl-2-propanol	59	6.438	6.430	0.008	94	13006	0.1260	
31 Methylene Chloride	84	6.696	6.709	-0.013	92	30702	0.5641	
39 2-Butanone (MEK)	72	8.552	8.555	-0.003	93	4638	0.2440	
40 Hexane	56	8.568	8.571	-0.003	54	3829	0.0742	
44 Chloroform	83	9.337	9.345	-0.008	29	10532	0.0794	
51 Benzene	78	10.967	10.975	-0.008	92	6960	0.0442	
56 Isooctane	57	11.699	11.707	-0.008	92	4969	0.0168	
59 Trichloroethene	130	12.194	12.202	-0.008	88	2393	0.0301	
61 1,4-Dioxane	88	12.452	12.444	0.008	89	2801	0.1492	
65 4-Methyl-2-pentanone (MIBK	43	13.345	13.348	-0.003	94	5063	0.0475	
68 Toluene	91	14.217	14.225	-0.007	91	41491	0.2398	
76 Tetrachloroethene	129	15.352	15.354	-0.002	89	369359	4.56	
79 Ethylbenzene	91	16.503	16.505	-0.002	96	11264	0.0571	
81 m-Xylene & p-Xylene	91	16.659	16.667	-0.008	97	33204	0.2168	
84 Styrene	104	17.132	17.129	0.003	91	2530	0.0269	
85 o-Xylene	91	17.191	17.189	0.002	97	12412	0.0754	
92 1,3,5-Trimethylbenzene	120	18.402	18.501	-0.099	84	3001	0.0322	
96 1,2,4-Trimethylbenzene	105	18.929	18.926	0.003	98	12591	0.0798	
98 1,3-Dichlorobenzene	146	19.289	19.201	0.088	95	35042	0.4350	
99 Benzyl chloride	91	19.402	19.270	0.132	55	5073	0.0641	
100 1,4-Dichlorobenzene	146	19.289	19.287	0.002	89	35042	0.5084	

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\J122P114.D

Injection Date: 23-Sep-2016 04:27:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Worklist Smp#: 21

Client ID: VP-130

Purge Vol: 500.000 mL

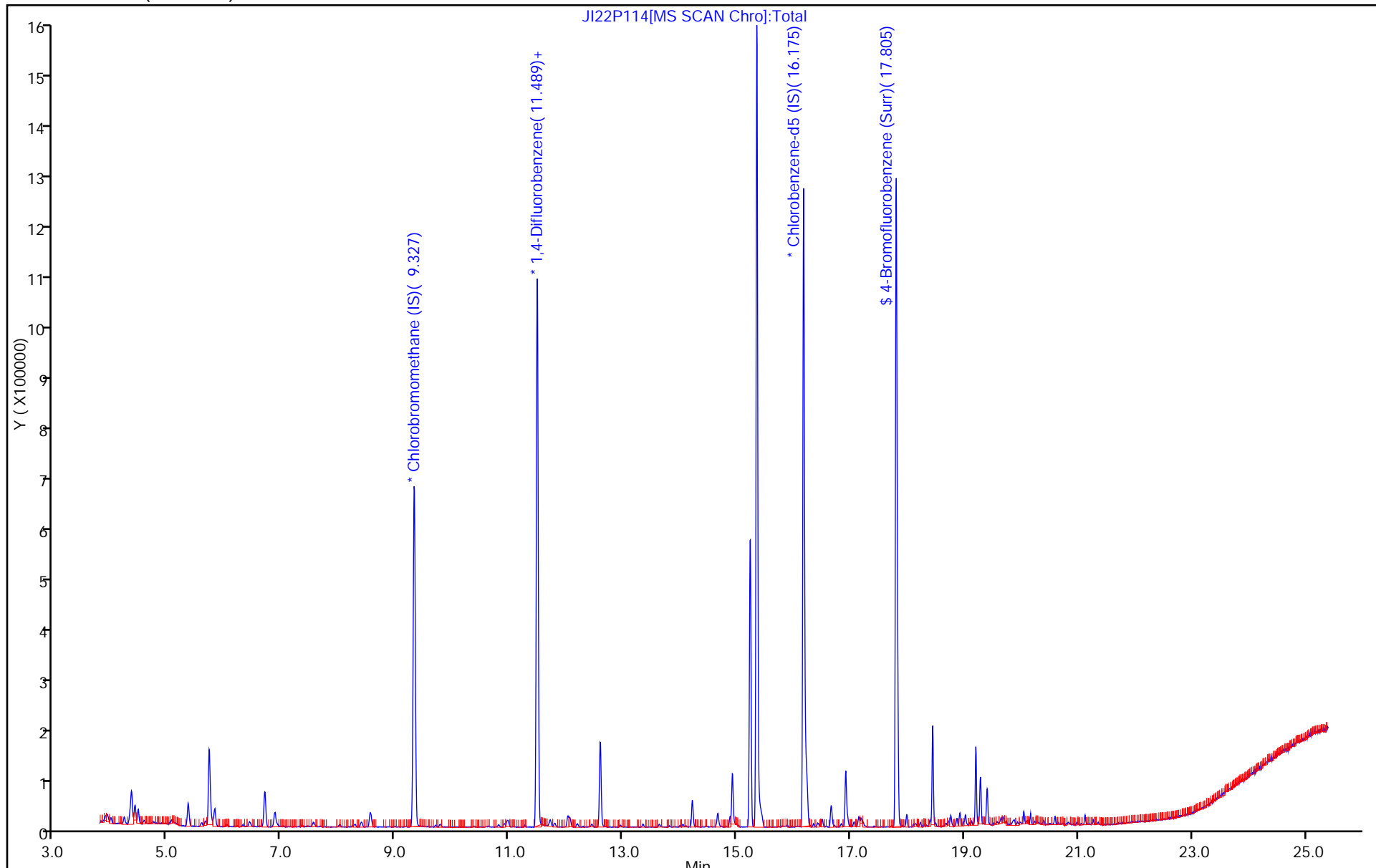
Dil. Factor: 1.4600

ALS Bottle#: 14

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\20160920-3446.b\JI22P114.D
 Lims ID: 140-5852-A-5
 Client ID: VP-130
 Sample Type: Client
 Inject. Date: 23-Sep-2016 04:27:30 ALS Bottle#: 14 Worklist Smp#: 21
 Purge Vol: 500.000 mL Dil. Factor: 1.4600
 Sample Info: 140-0003446-021
 Misc. Info.: 140-5852-a-5@1.46
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.55	113.64

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P114.D

Injection Date: 23-Sep-2016 04:27:30

Instrument ID: MJ

Lims ID: 140-5852-A-5

Lab Sample ID: 140-5852-5

Client ID: VP-130

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.4600

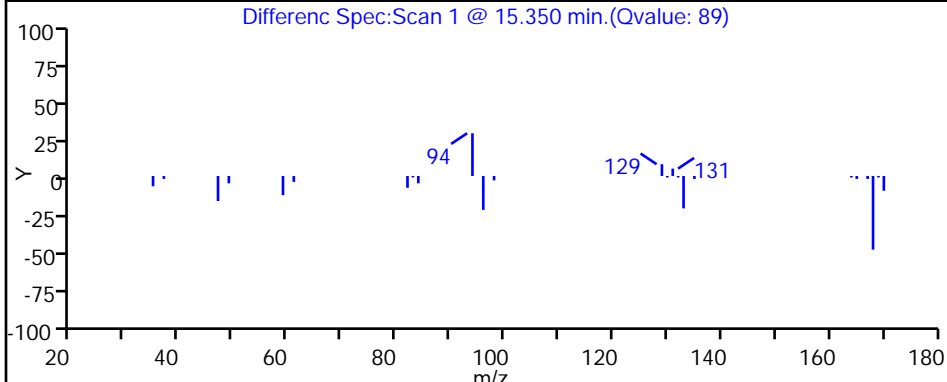
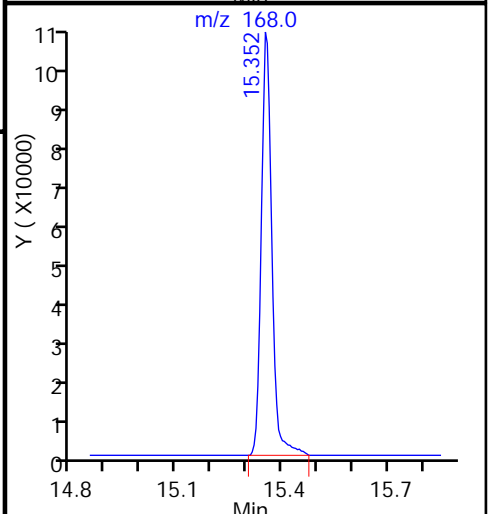
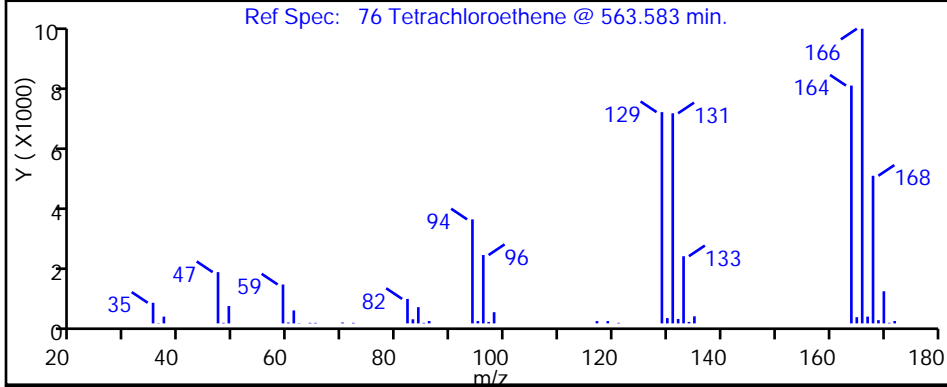
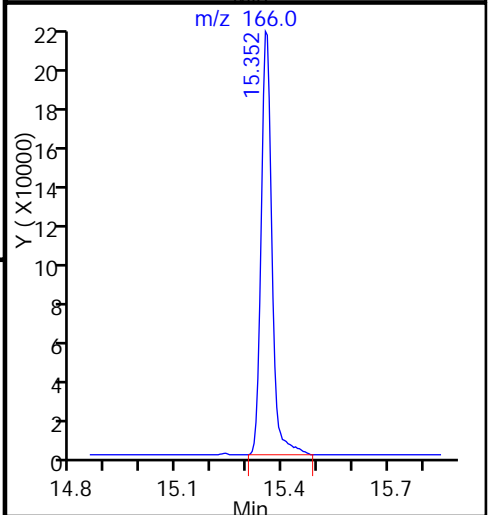
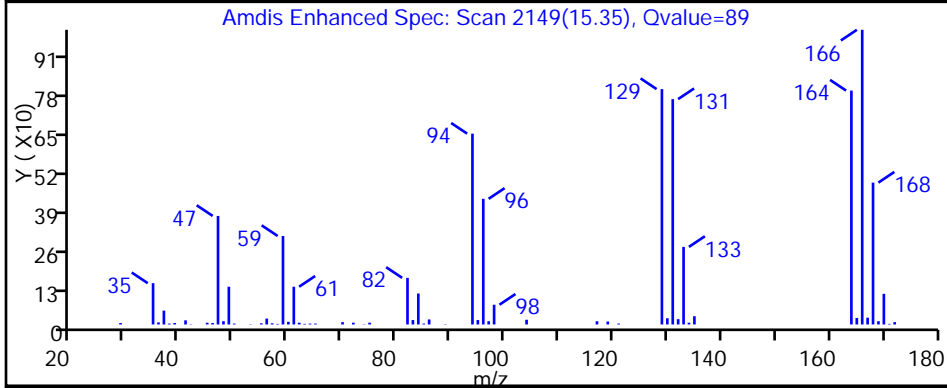
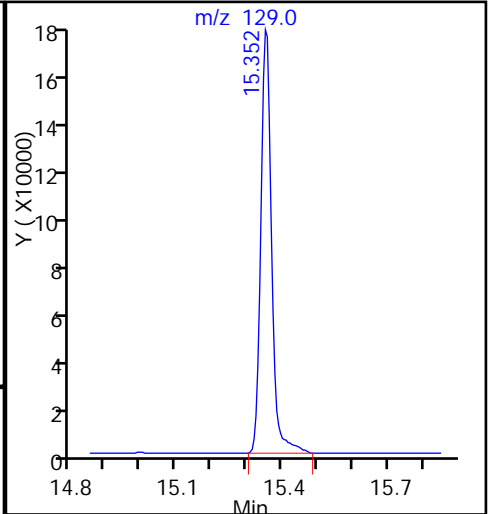
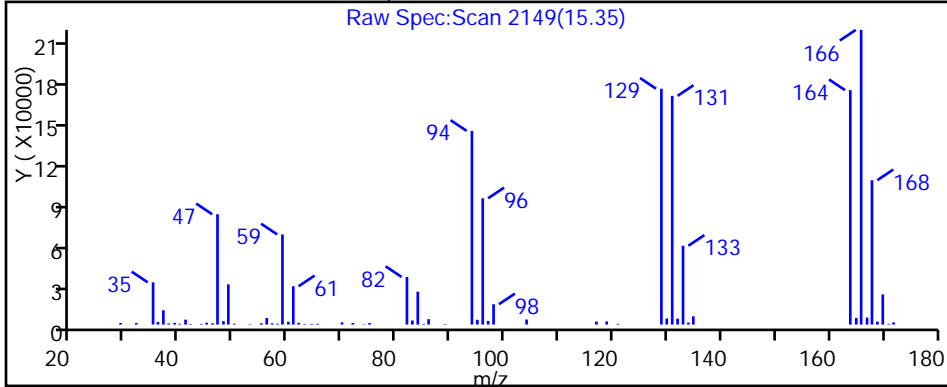
Method: MJ_TO15

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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-126 Lab Sample ID: 140-5852-6
 Matrix: Air Lab File ID: GI21P107.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:58
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 20:35
 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.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.40
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.40
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.40
75-34-3	1,1-Dichloroethane	98.96	ND		0.40
75-35-4	1,1-Dichloroethene	96.94	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	120.20	5.2		0.40
106-93-4	1,2-Dibromoethane	187.87	ND		0.40
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.40
107-06-2	1,2-Dichloroethane	98.96	ND		0.40
78-87-5	1,2-Dichloropropane	112.99	ND		0.40
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.2		0.40
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.40
106-46-7	1,4-Dichlorobenzene	147.00	3.8		0.40
123-91-1	1,4-Dioxane	88.11	ND		1.0
540-84-1	2,2,4-Trimethylpentane	114.23	ND		1.0
78-93-3	2-Butanone	72.11	1.9		1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		1.0
71-43-2	Benzene	78.11	ND		0.40
100-44-7	Benzyl chloride	126.58	ND		0.80
75-27-4	Bromodichloromethane	163.83	0.48		0.40
75-25-2	Bromoform	252.75	ND		0.40
74-83-9	Bromomethane	94.94	ND		0.40
56-23-5	Carbon tetrachloride	153.81	ND		0.20
108-90-7	Chlorobenzene	112.56	ND		0.40
75-00-3	Chloroethane	64.52	ND		0.40
67-66-3	Chloroform	119.38	11		0.40
74-87-3	Chloromethane	50.49	ND		1.0
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.40
110-82-7	Cyclohexane	84.16	ND		1.0

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-126 Lab Sample ID: 140-5852-6
 Matrix: Air Lab File ID: GI21P107.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:58
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 20:35
 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.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.40
75-71-8	Dichlorodifluoromethane	120.91	0.69		0.40
64-17-5	Ethanol	46.07	ND	*	10
100-41-4	Ethylbenzene	106.17	1.9		0.40
87-68-3	Hexachlorobutadiene	260.76	ND		0.40
110-54-3	Hexane	86.17	ND		1.0
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.80
75-09-2	Methylene Chloride	84.93	1.7		1.0
179601-23-1	m-Xylene & p-Xylene	106.17	5.5		0.40
95-47-6	o-Xylene	106.17	2.5		0.40
100-42-5	Styrene	104.15	1.4		0.40
75-65-0	t-Butyl alcohol	74.12	ND		1.6
127-18-4	Tetrachloroethene	165.83	34		0.40
108-88-3	Toluene	92.14	1.2		0.60
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.40
79-01-6	Trichloroethene	131.39	ND		0.20
75-69-4	Trichlorofluoromethane	137.37	0.52		0.40
75-01-4	Vinyl chloride	62.50	ND		0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-126 Lab Sample ID: 140-5852-6
 Matrix: Air Lab File ID: GI21P107.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:58
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 20:35
 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.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		2.2
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.7
79-00-5	1,1,2-Trichloroethane	133.41	ND		2.2
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		3.1
75-34-3	1,1-Dichloroethane	98.96	ND		1.6
75-35-4	1,1-Dichloroethene	96.94	ND		1.6
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.0
95-63-6	1,2,4-Trimethylbenzene	120.20	26		2.0
106-93-4	1,2-Dibromoethane	187.87	ND		3.1
95-50-1	1,2-Dichlorobenzene	147.00	ND		2.4
107-06-2	1,2-Dichloroethane	98.96	ND		1.6
78-87-5	1,2-Dichloropropane	112.99	ND		1.8
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.8
108-67-8	1,3,5-Trimethylbenzene	120.20	11		2.0
541-73-1	1,3-Dichlorobenzene	147.00	ND		2.4
106-46-7	1,4-Dichlorobenzene	147.00	23		2.4
123-91-1	1,4-Dioxane	88.11	ND		3.6
540-84-1	2,2,4-Trimethylpentane	114.23	ND		4.7
78-93-3	2-Butanone	72.11	5.6		4.7
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		4.1
71-43-2	Benzene	78.11	ND		1.3
100-44-7	Benzyl chloride	126.58	ND		4.1
75-27-4	Bromodichloromethane	163.83	3.2		2.7
75-25-2	Bromoform	252.75	ND		4.1
74-83-9	Bromomethane	94.94	ND		1.6
56-23-5	Carbon tetrachloride	153.81	ND		1.3
108-90-7	Chlorobenzene	112.56	ND		1.8
75-00-3	Chloroethane	64.52	ND		1.1
67-66-3	Chloroform	119.38	53		2.0
74-87-3	Chloromethane	50.49	ND		2.1
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.6
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.8
110-82-7	Cyclohexane	84.16	ND		3.4

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 SDG No.: _____
 Client Sample ID: VP-126 Lab Sample ID: 140-5852-6
 Matrix: Air Lab File ID: GI21P107.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:58
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 20:35
 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.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		3.4
75-71-8	Dichlorodifluoromethane	120.91	3.4		2.0
64-17-5	Ethanol	46.07	ND	*	19
100-41-4	Ethylbenzene	106.17	8.2		1.7
87-68-3	Hexachlorobutadiene	260.76	ND		4.3
110-54-3	Hexane	86.17	ND		3.5
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.9
75-09-2	Methylene Chloride	84.93	5.8		3.5
179601-23-1	m-Xylene & p-Xylene	106.17	24		1.7
95-47-6	o-Xylene	106.17	11		1.7
100-42-5	Styrene	104.15	6.1		1.7
75-65-0	t-Butyl alcohol	74.12	ND		4.9
127-18-4	Tetrachloroethene	165.83	230		2.7
108-88-3	Toluene	92.14	4.4		2.3
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.6
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.8
79-01-6	Trichloroethene	131.39	ND		1.1
75-69-4	Trichlorofluoromethane	137.37	2.9		2.2
75-01-4	Vinyl chloride	62.50	ND		0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D
 Lims ID: 140-5852-A-6
 Client ID: VP-126
 Sample Type: Client
 Inject. Date: 21-Sep-2016 20:35:30 ALS Bottle#: 7 Worklist Smp#: 11
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-011
 Misc. Info.: 140-5852-a-6
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh

Date: 22-Sep-2016 13:58:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.449	8.454	-0.005	90	246905	4.00	
* 2 1,4-Difluorobenzene	114	10.611	10.617	-0.006	96	1212940	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.389	15.394	-0.005	91	1090875	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	92	833893	4.38	
8 Dichlorodifluoromethane	85	3.752	3.758	-0.006	100	29228	0.1377	
20 Trichlorofluoromethane	101	5.090	5.095	-0.005	99	20726	0.1039	
29 2-Methyl-2-propanol	59	5.845	5.834	0.011	98	8333	0.0773	
30 1,1,2-Trichloro-1,2,2-trif	101	5.909	5.909	0.000	91	1943	0.0159	
31 Methylene Chloride	84	6.050	6.055	-0.005	90	20112	0.3347	
39 2-Butanone (MEK)	72	7.721	7.721	0.000	99	16284	0.3797	
40 Hexane	56	7.759	7.775	-0.016	72	4555	0.0698	
44 Chloroform	83	8.465	8.476	-0.011	96	359645	2.18	
47 1,1,1-Trichloroethane	97	9.463	9.463	0.000	91	2649	0.0146	
49 Benzene	78	10.051	10.056	-0.005	96	7447	0.0334	
52 Carbon tetrachloride	117	10.088	10.088	0.000	93	2662	0.0152	
61 Dichlorobromomethane	83	11.550	11.555	-0.005	99	16743	0.0968	
65 4-Methyl-2-pentanone (MIBK	43	12.520	12.520	0.000	98	33968	0.1363	
68 Toluene	91	13.405	13.405	0.001	94	55300	0.2319	
76 Tetrachloroethene	129	14.559	14.564	-0.005	92	639636	6.71	
79 Ethylbenzene	91	15.740	15.739	0.001	99	119248	0.3774	
81 m-Xylene & p-Xylene	91	15.901	15.907	-0.006	97	267220	1.09	
84 Styrene	104	16.371	16.370	0.000	96	46671	0.2887	
85 o-Xylene	91	16.430	16.435	-0.005	97	131293	0.5006	
92 1,3,5-Trimethylbenzene	120	17.816	17.821	-0.005	91	72651	0.4352	
96 1,2,4-Trimethylbenzene	105	18.263	18.268	-0.005	98	318501	1.04	
100 1,4-Dichlorobenzene	146	18.625	18.624	0.001	93	144645	0.7609	

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Worklist Smp#: 11

Client ID: VP-126

Purge Vol: 500.000 mL

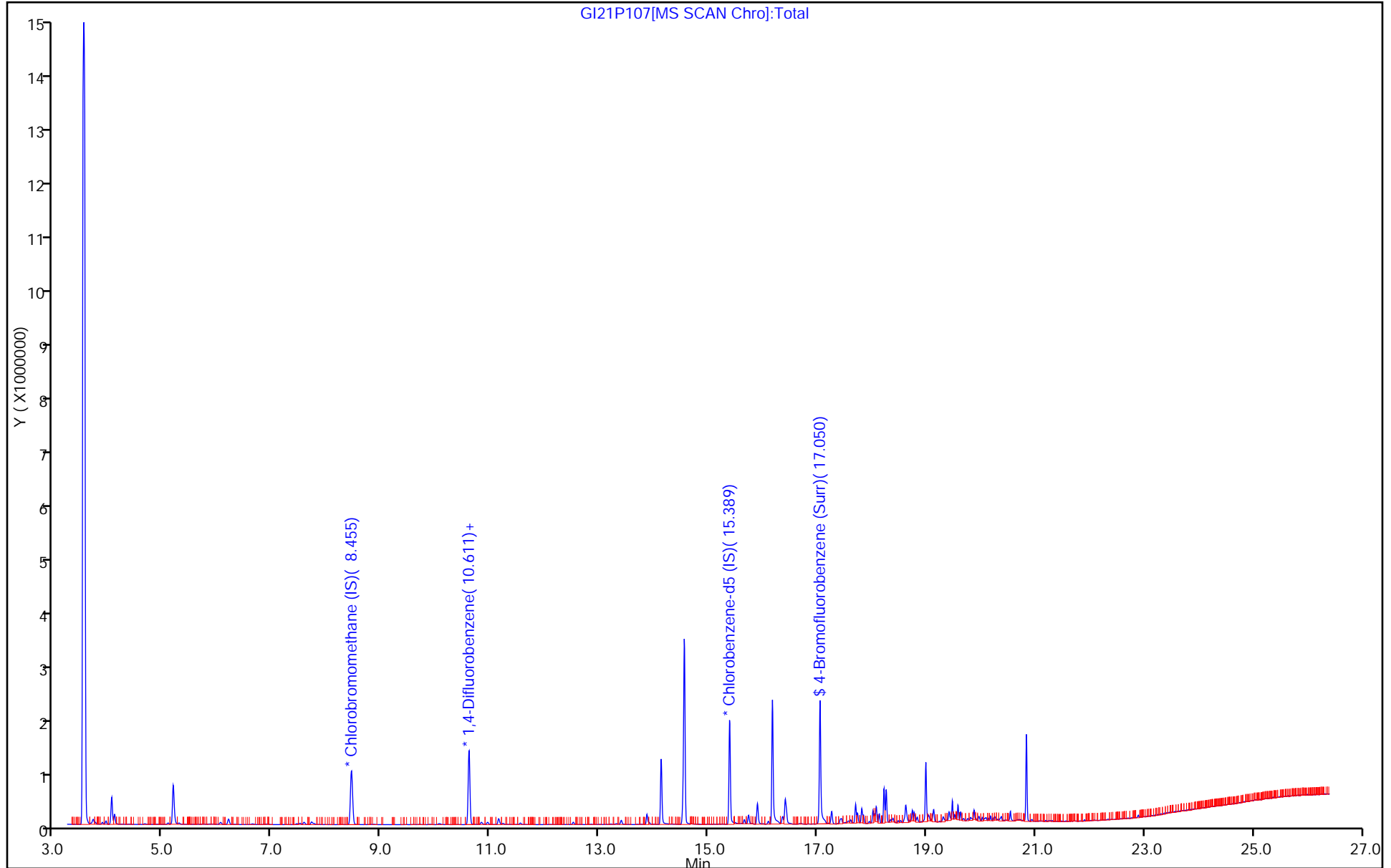
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D
 Lims ID: 140-5852-A-6
 Client ID: VP-126
 Sample Type: Client
 Inject. Date: 21-Sep-2016 20:35:30 ALS Bottle#: 7 Worklist Smp#: 11
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-011
 Misc. Info.: 140-5852-a-6
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 13:58:43

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.38	109.48

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

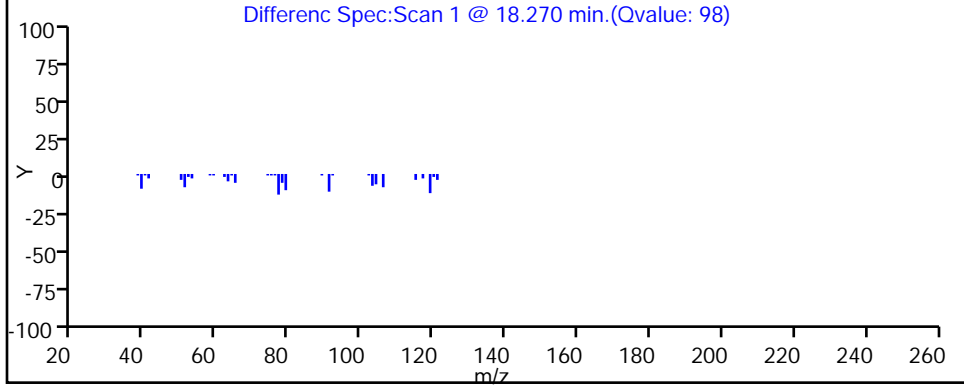
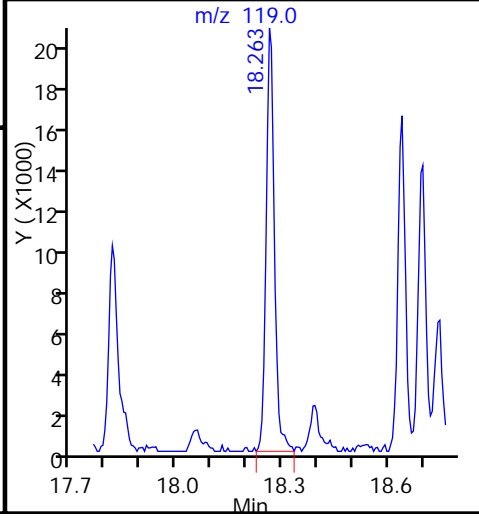
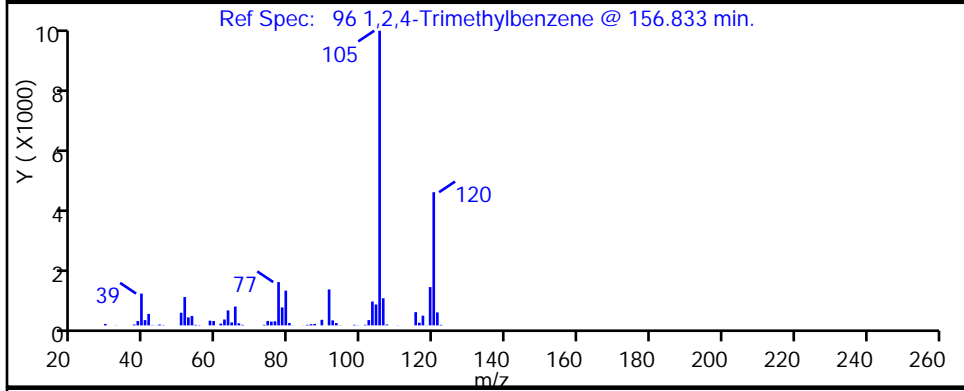
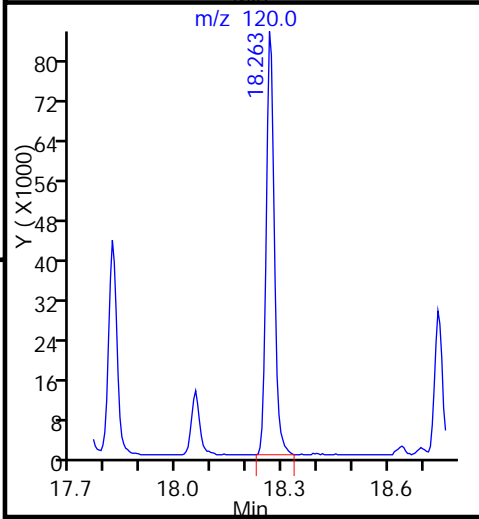
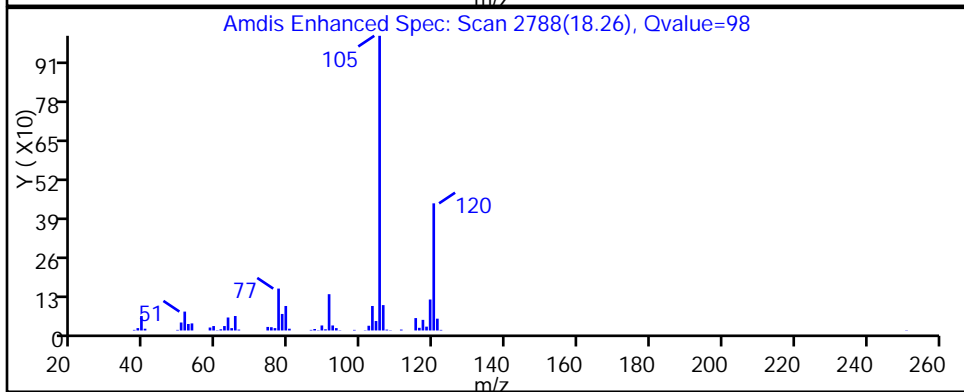
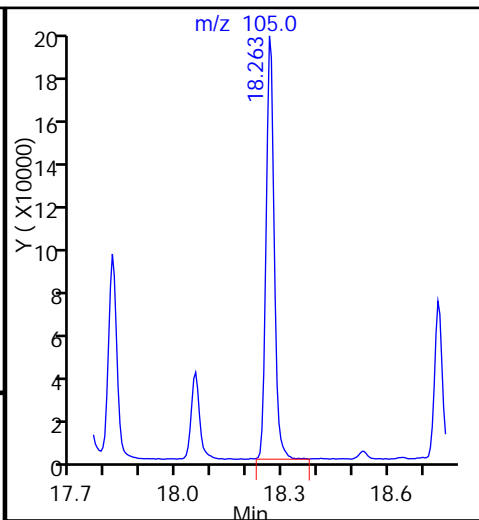
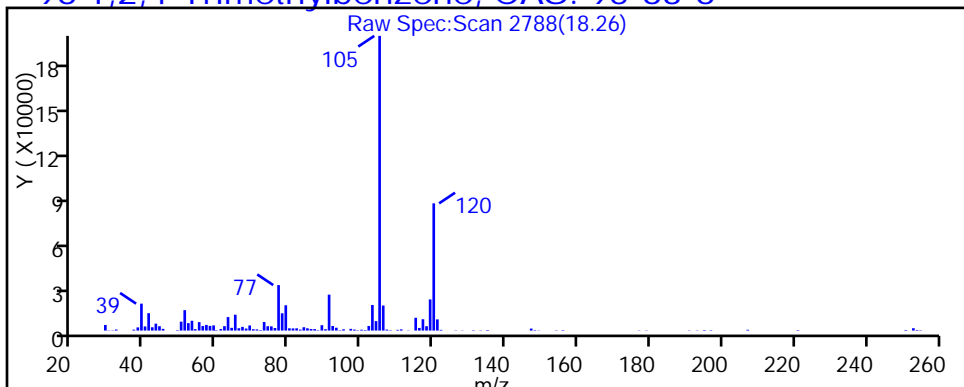
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

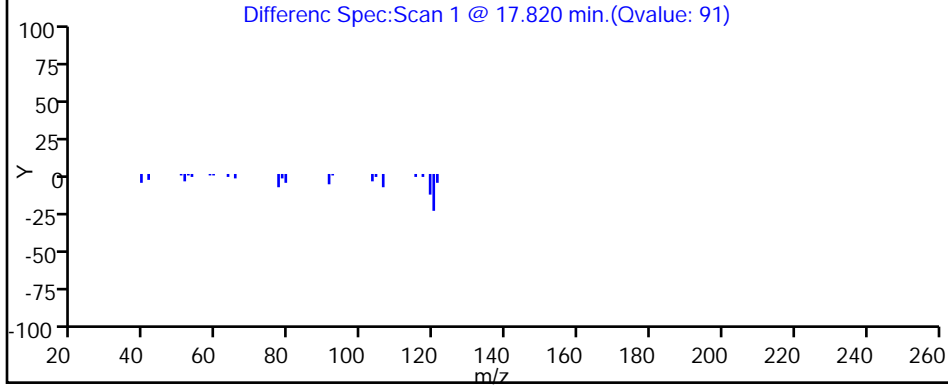
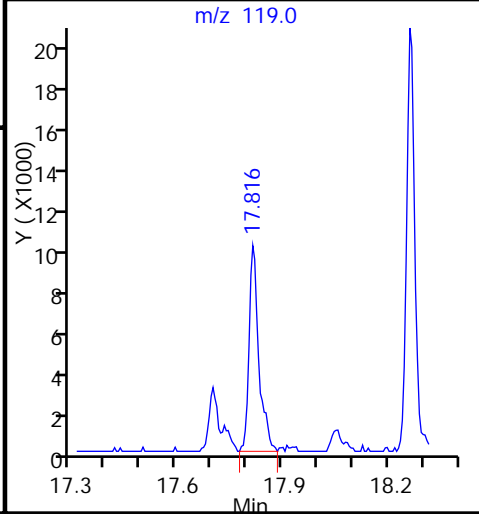
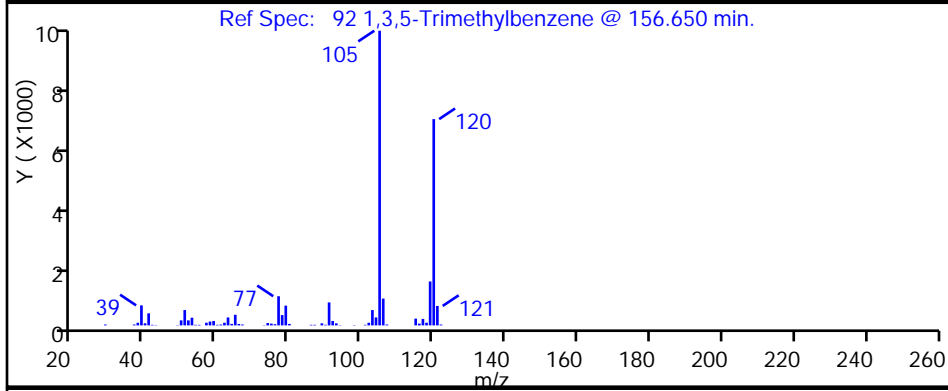
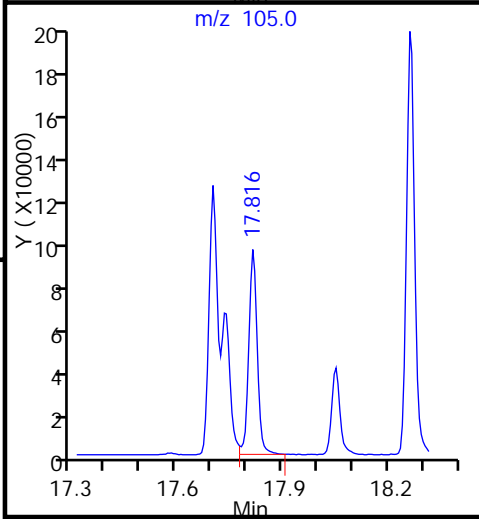
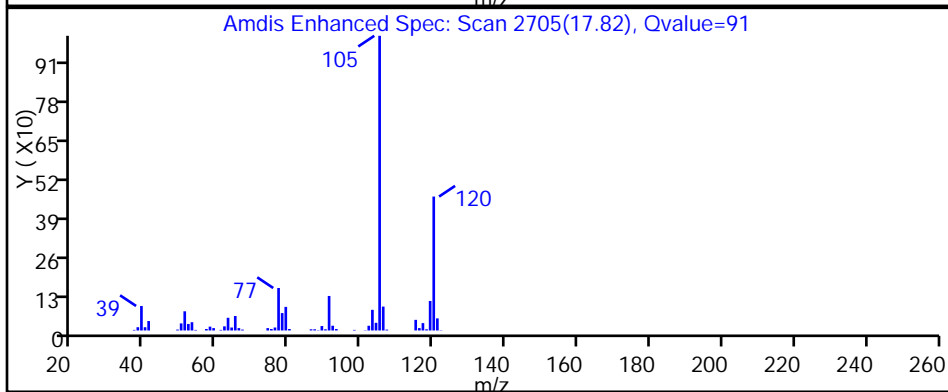
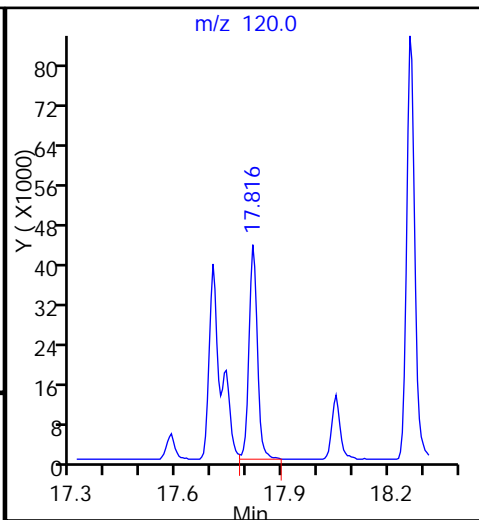
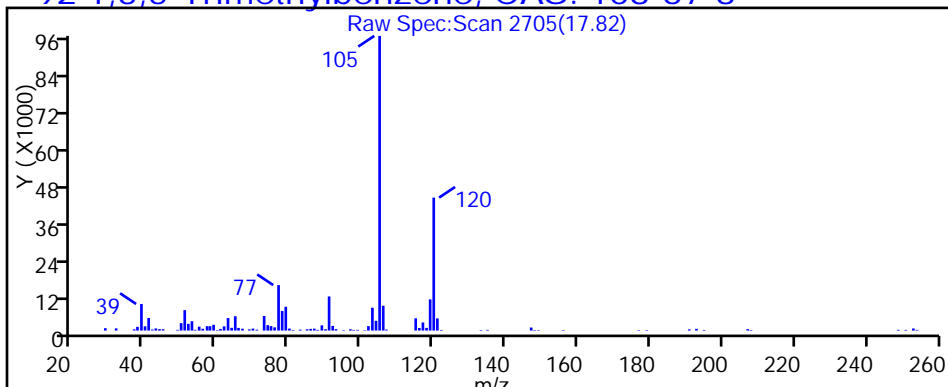
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

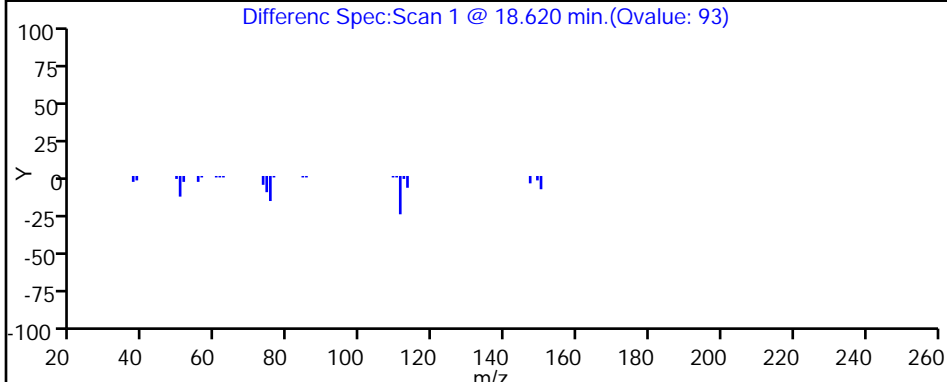
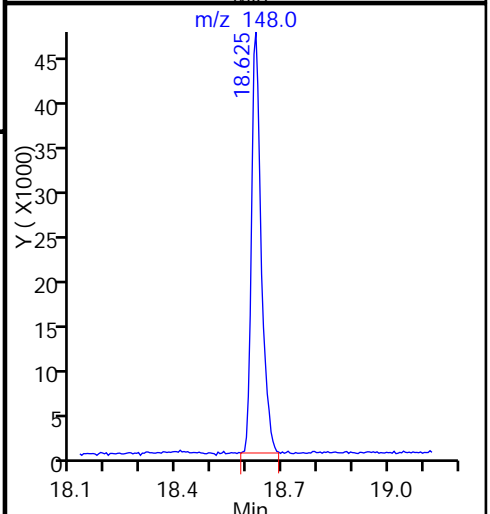
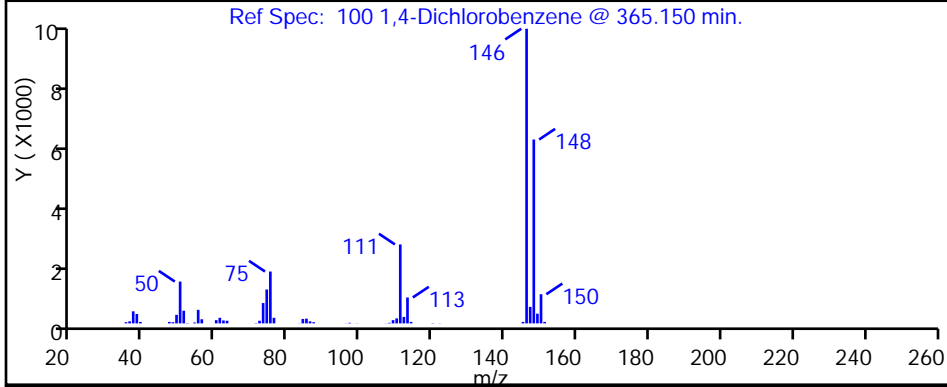
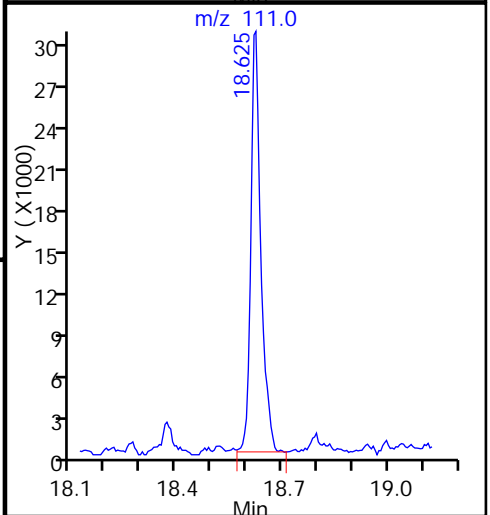
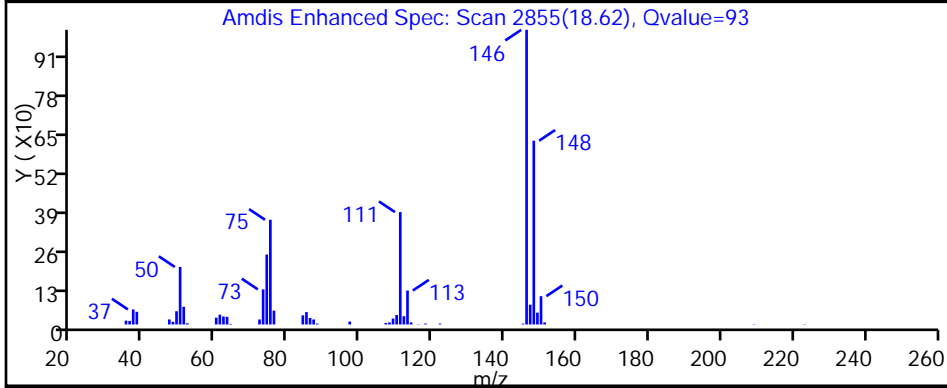
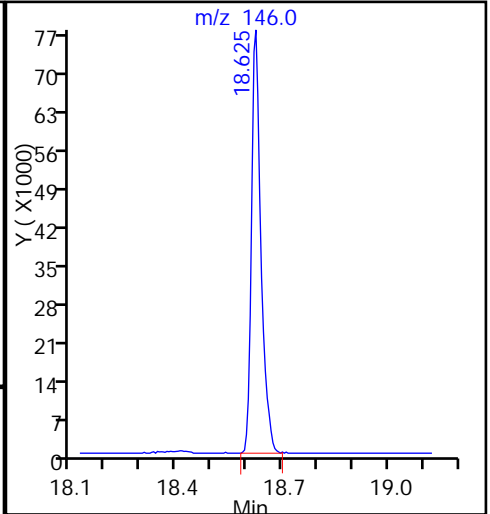
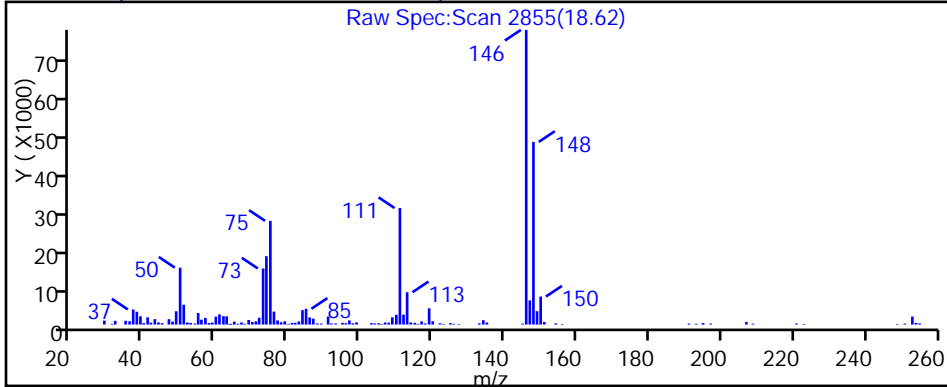
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

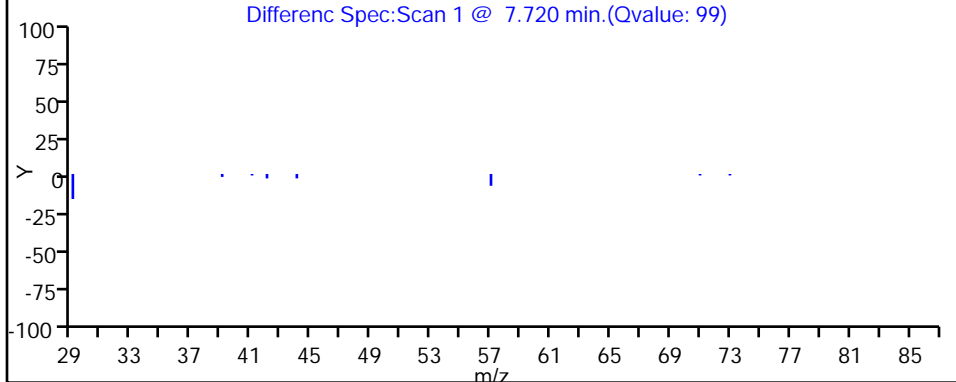
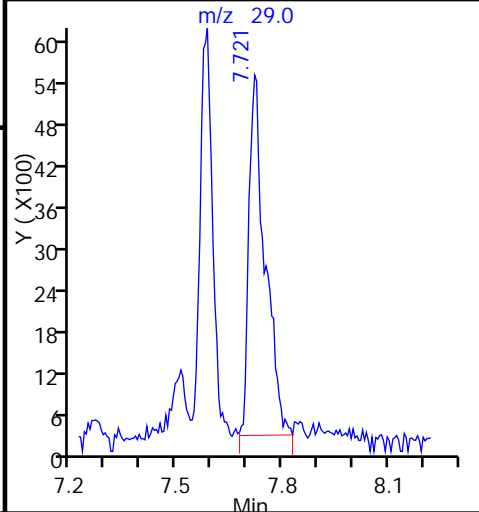
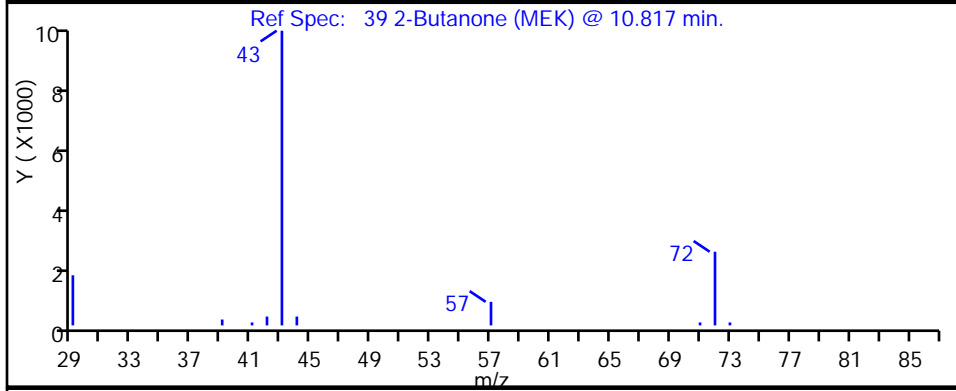
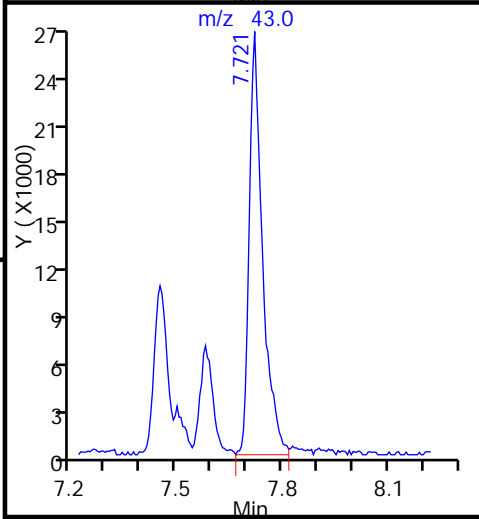
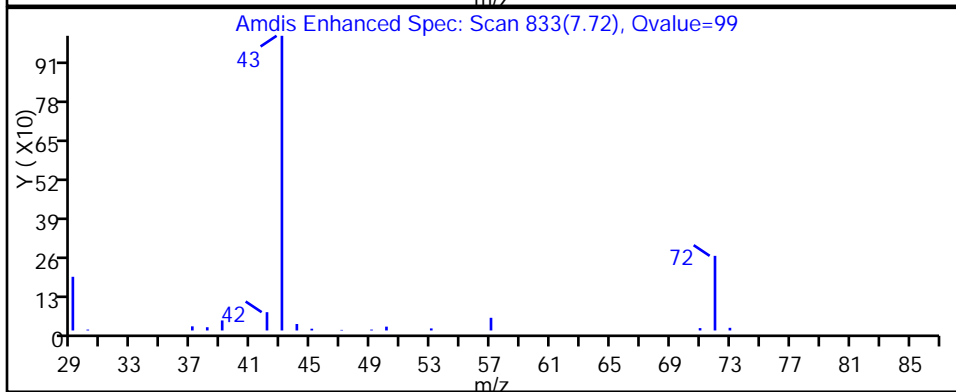
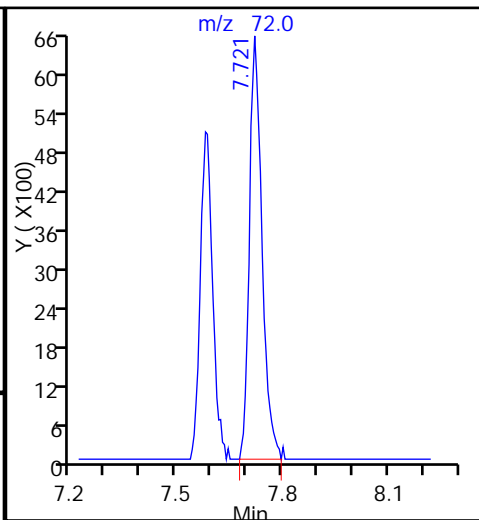
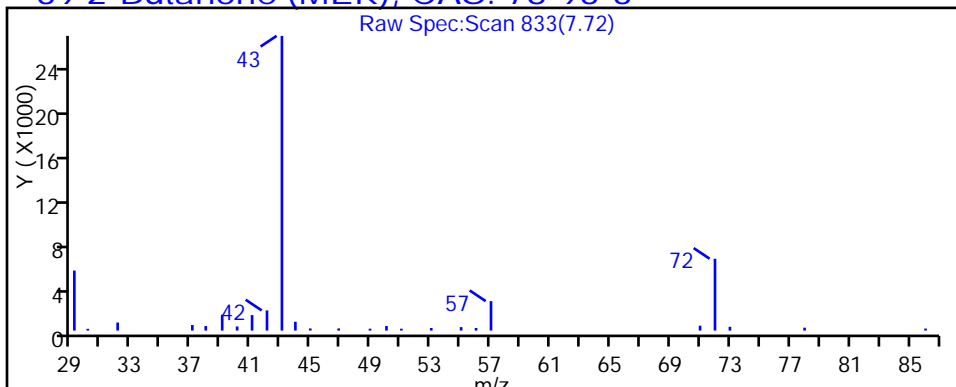
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

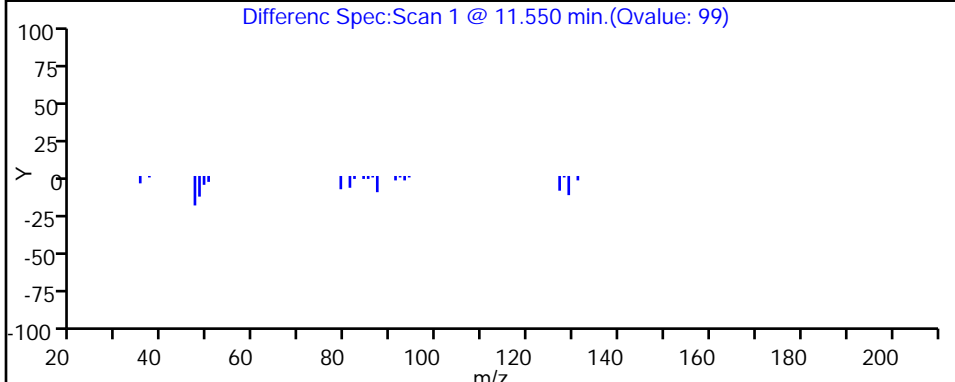
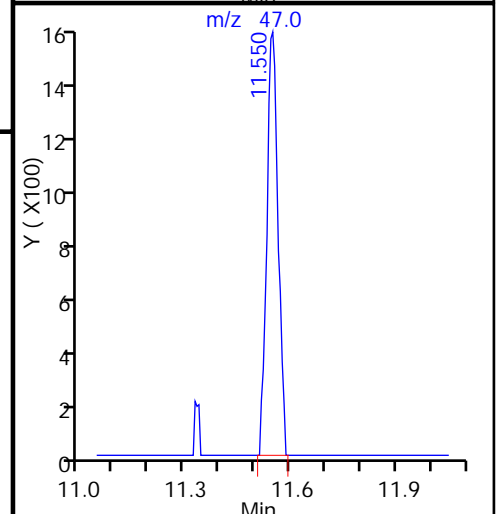
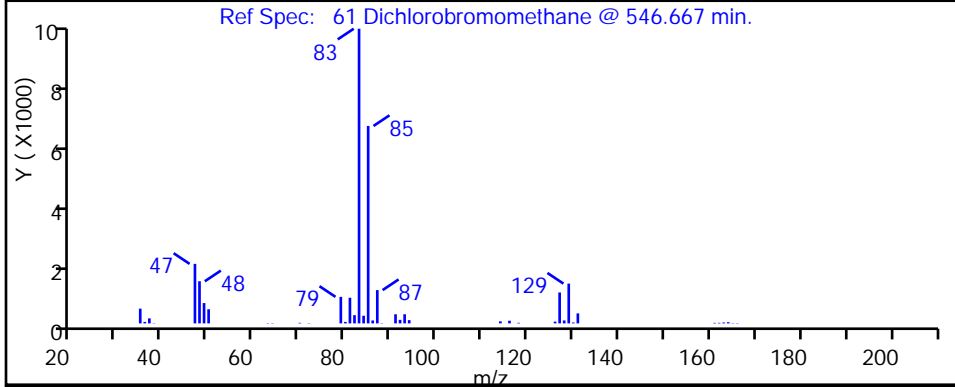
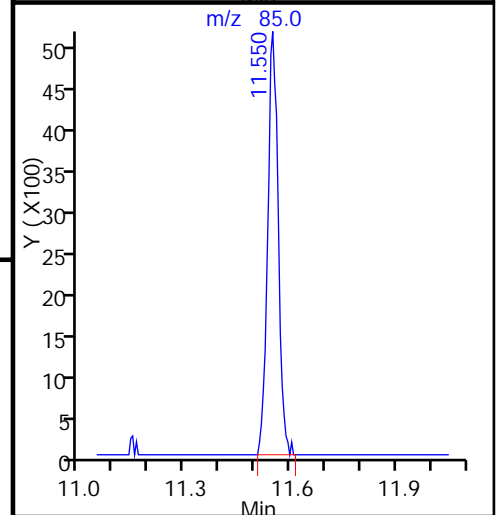
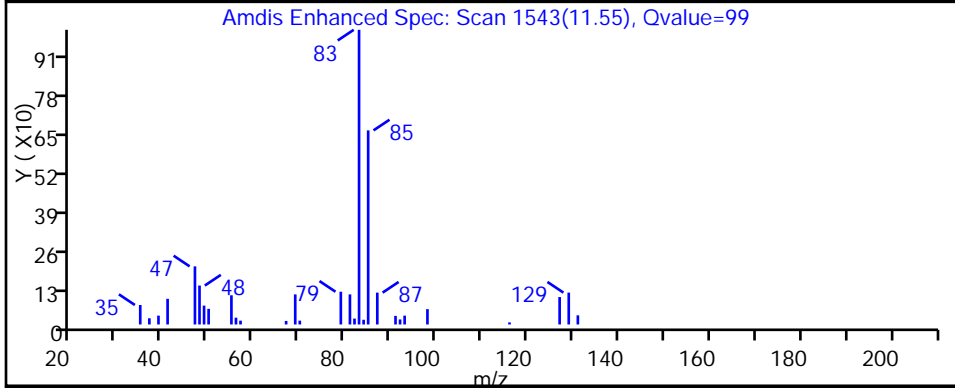
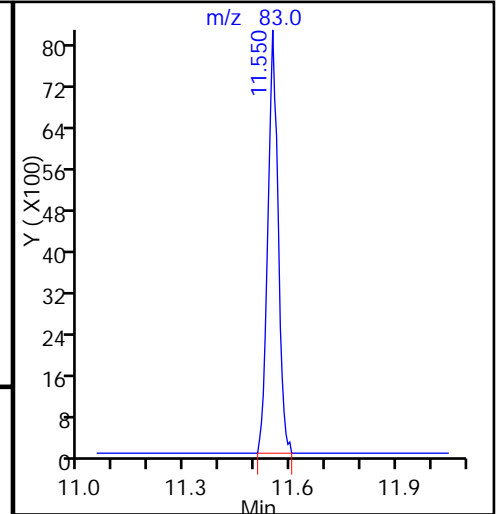
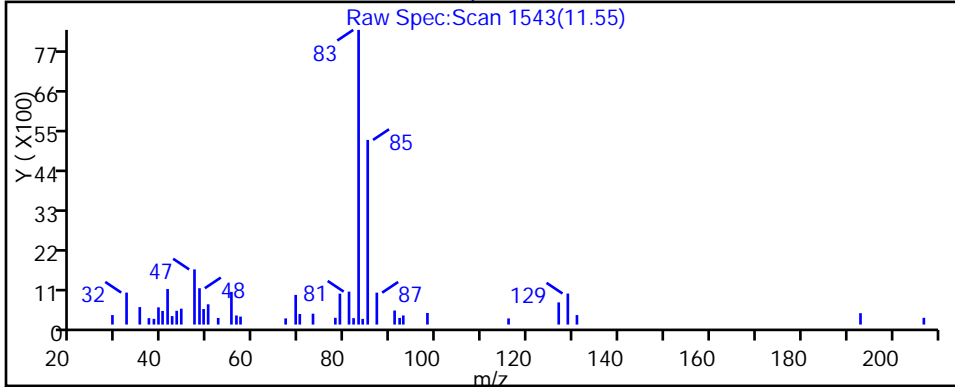
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

61 Dichlorobromomethane, CAS: 75-27-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

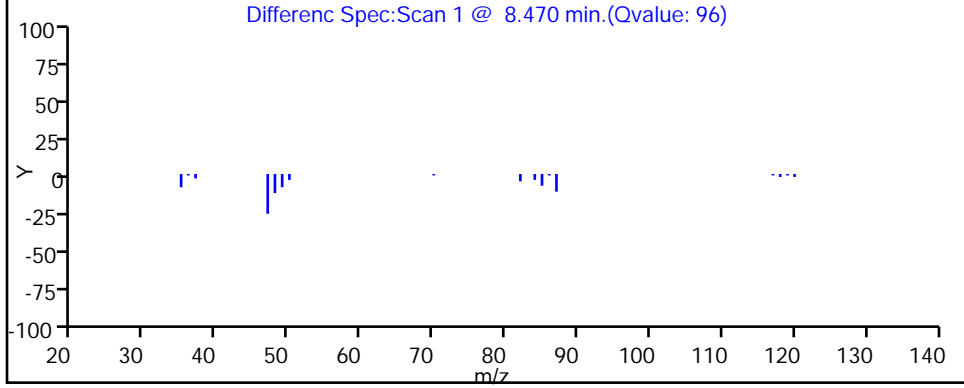
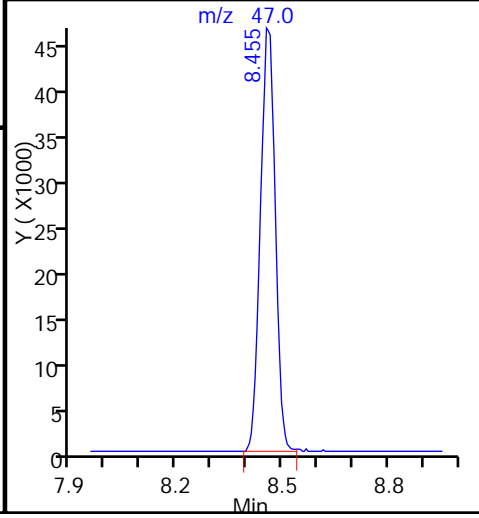
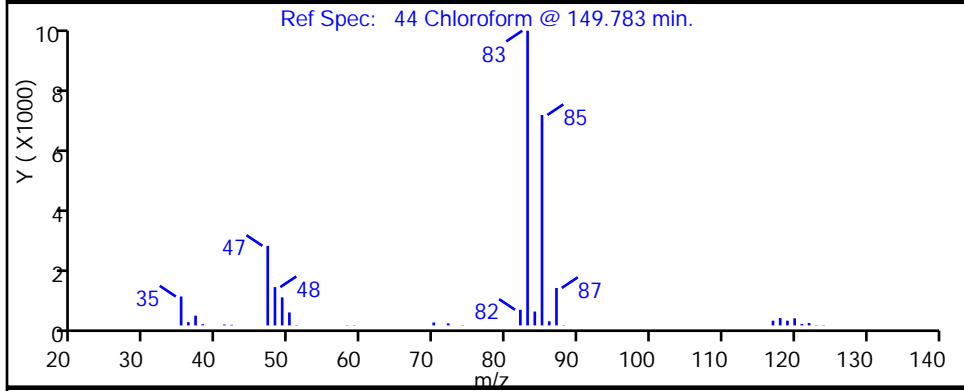
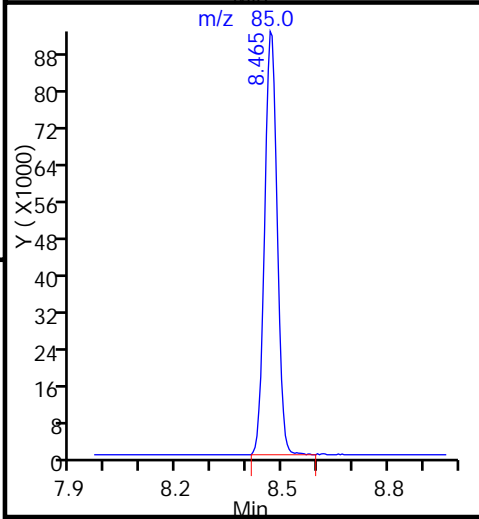
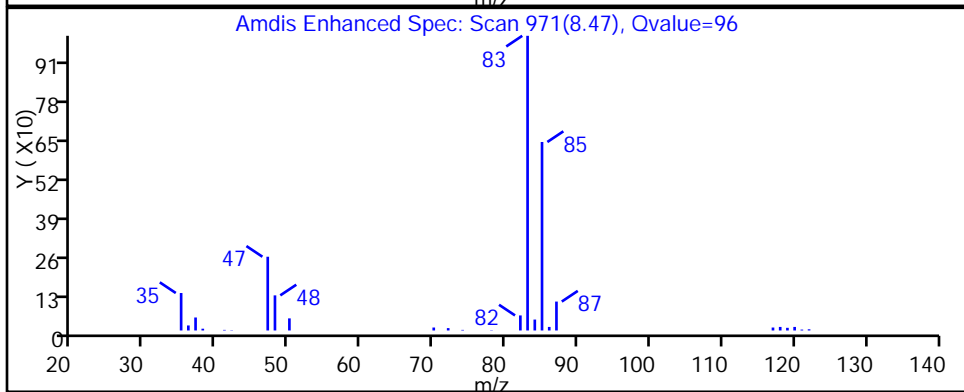
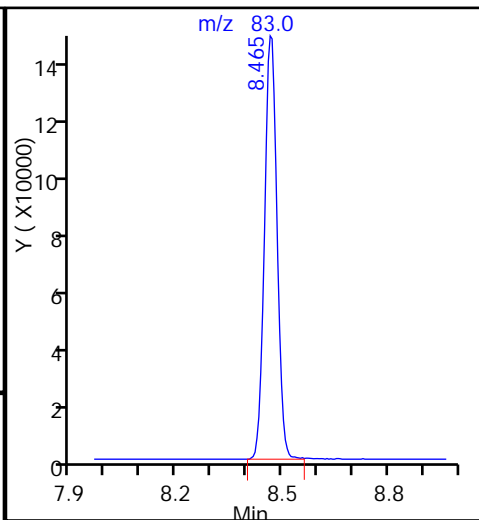
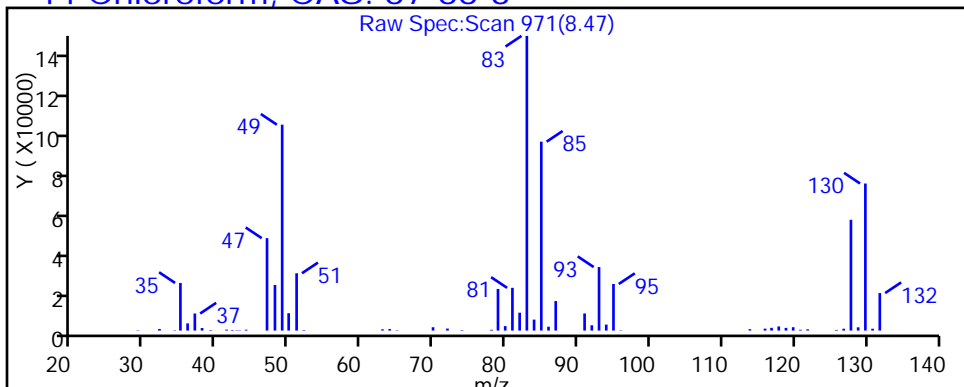
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

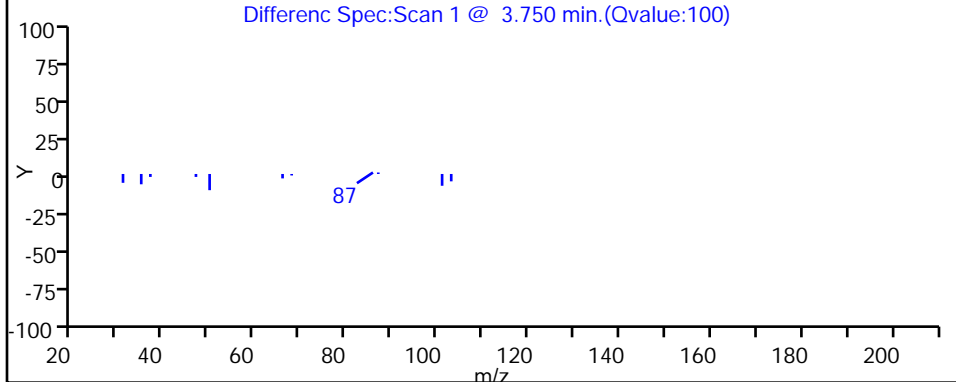
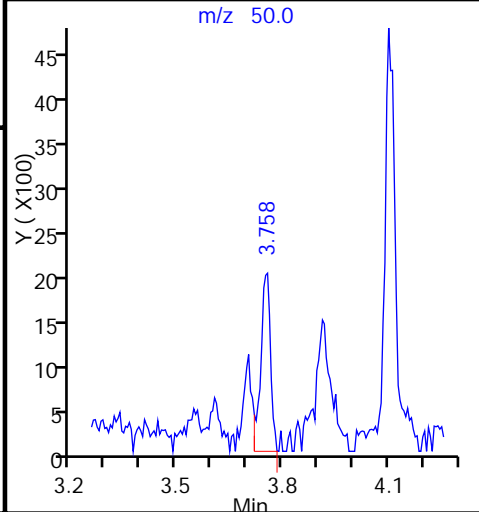
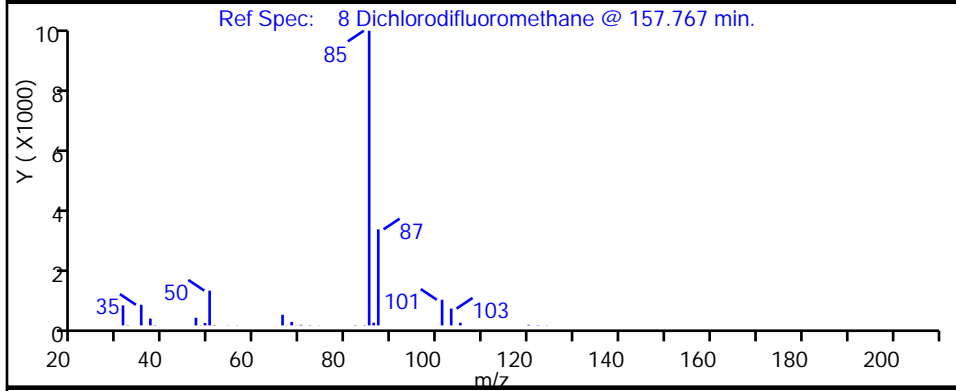
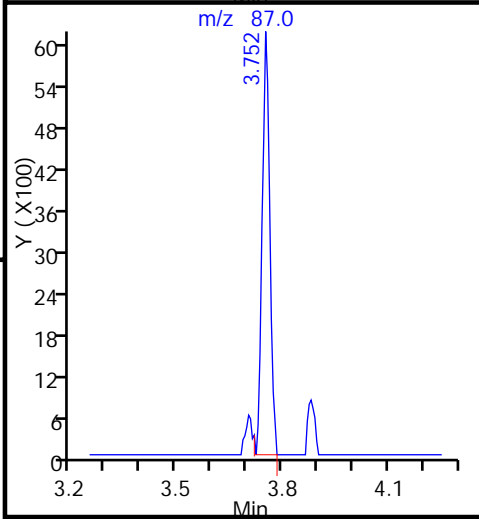
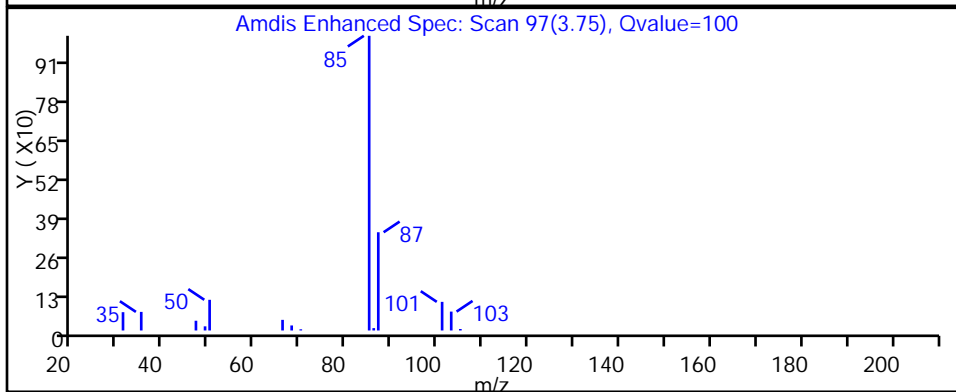
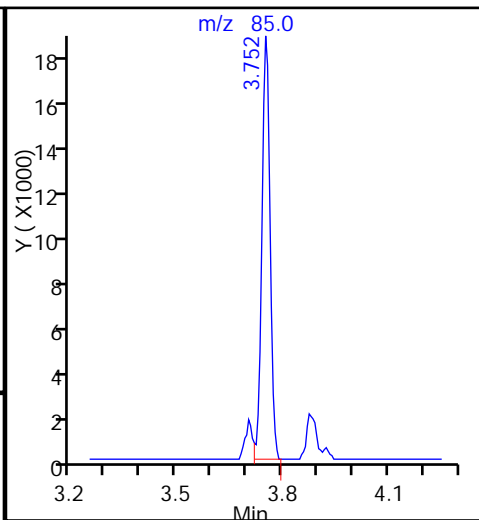
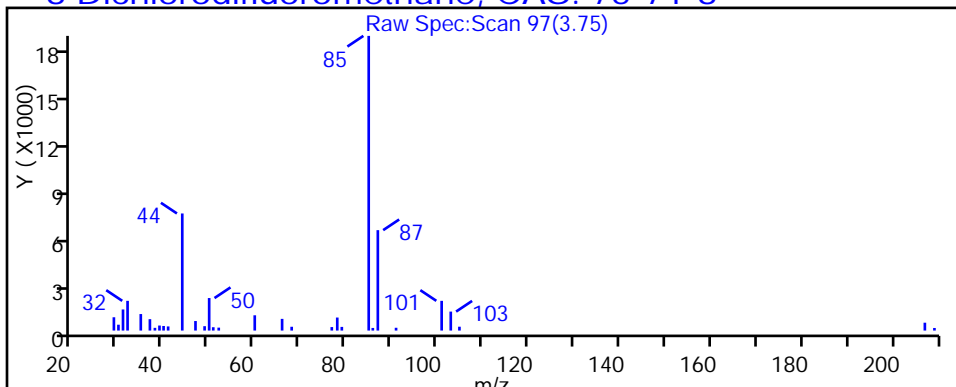
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

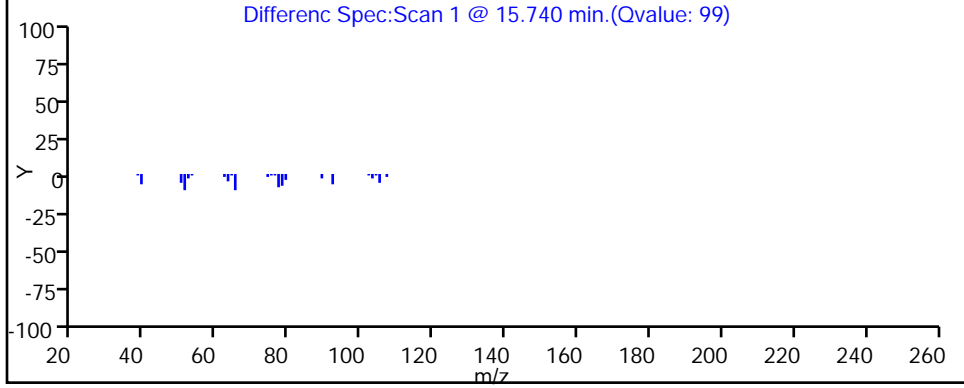
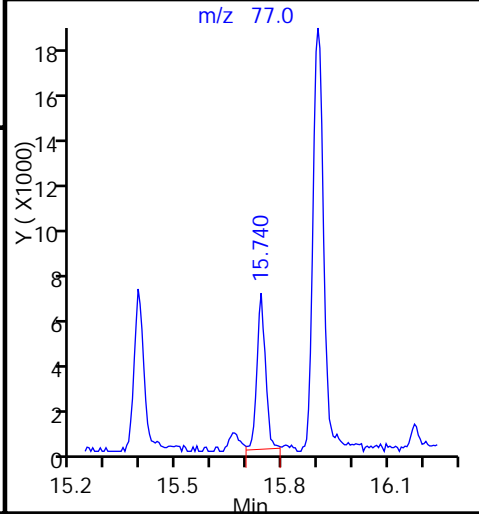
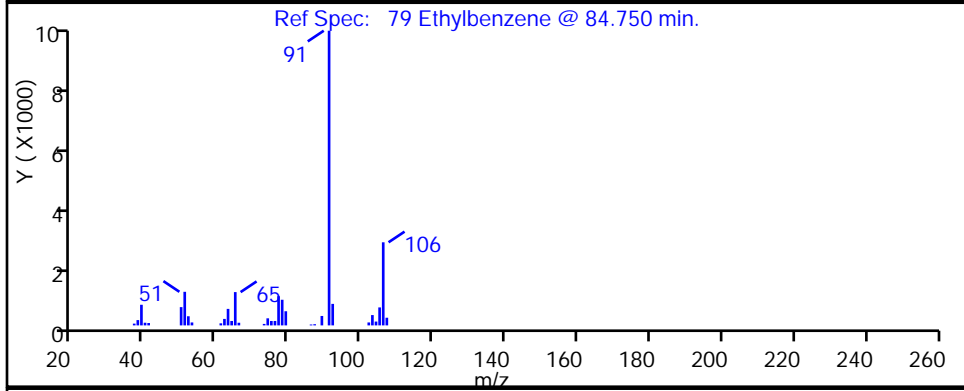
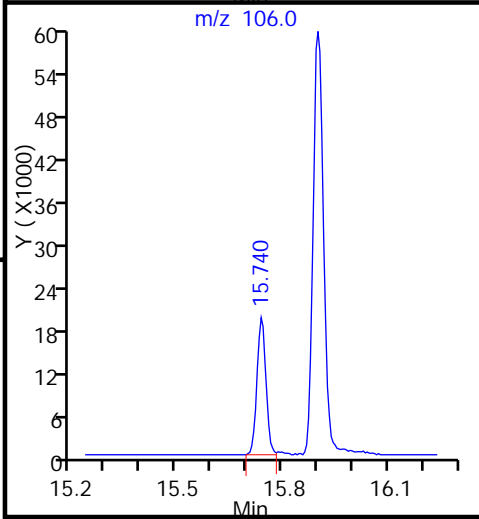
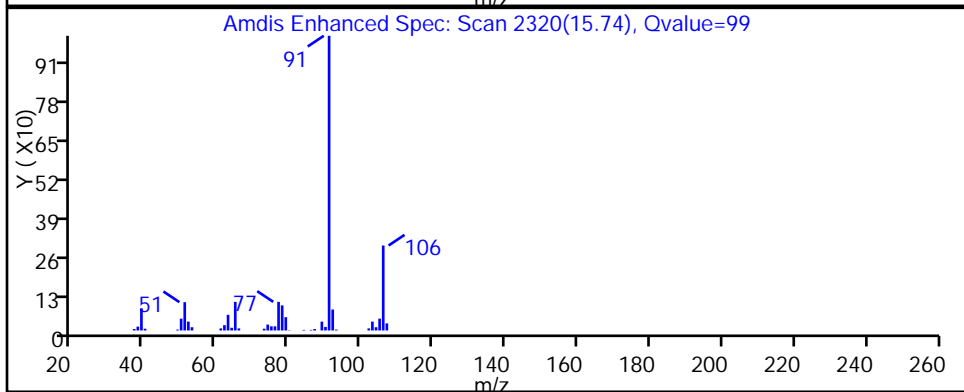
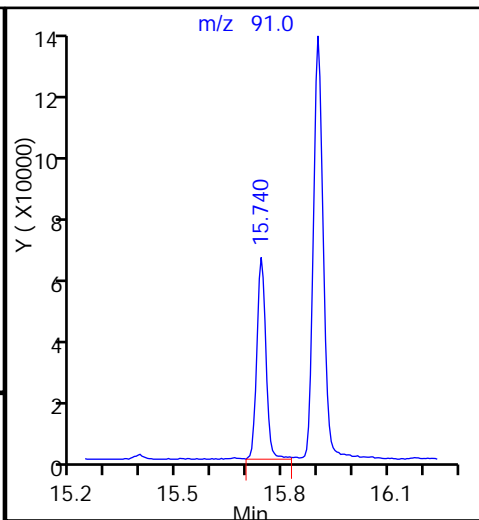
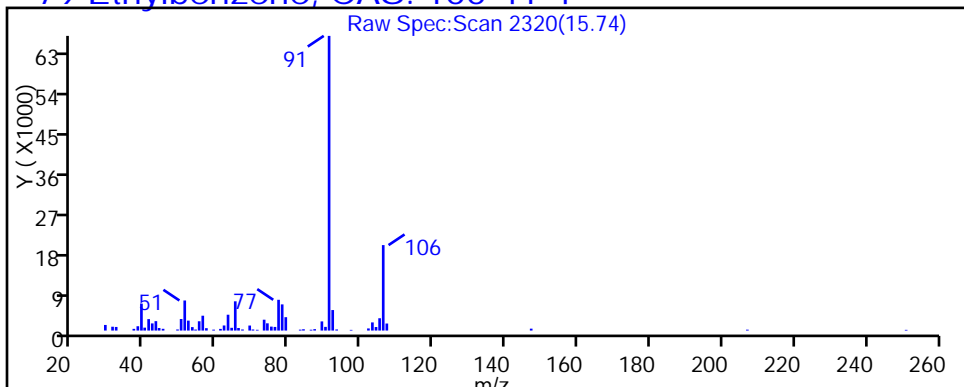
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

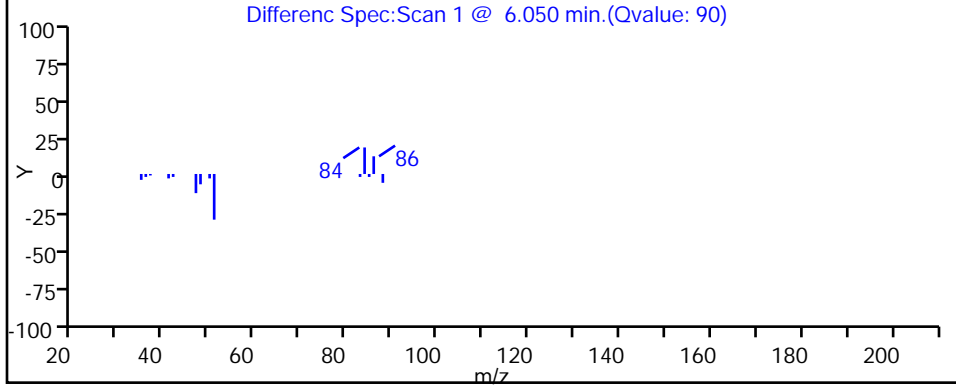
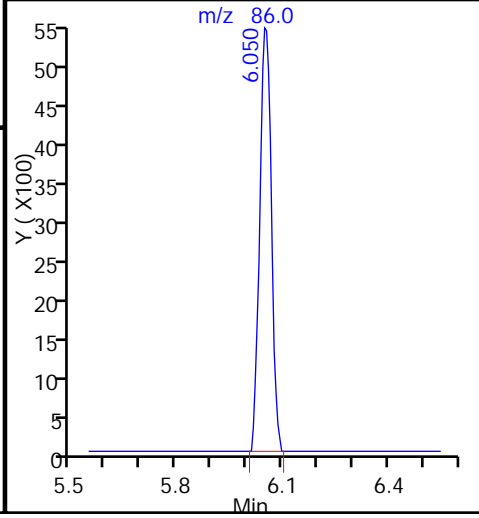
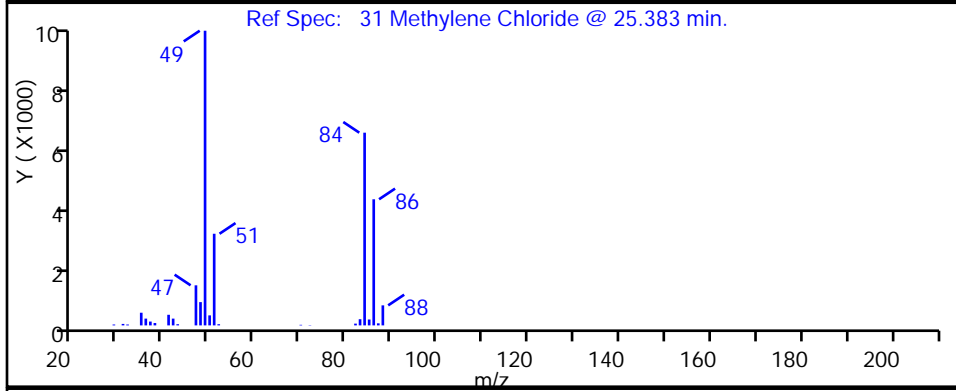
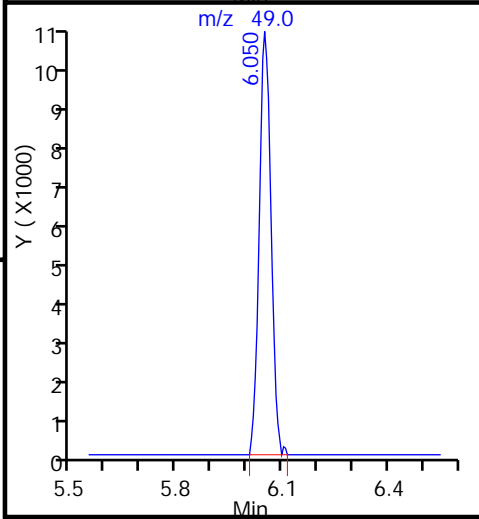
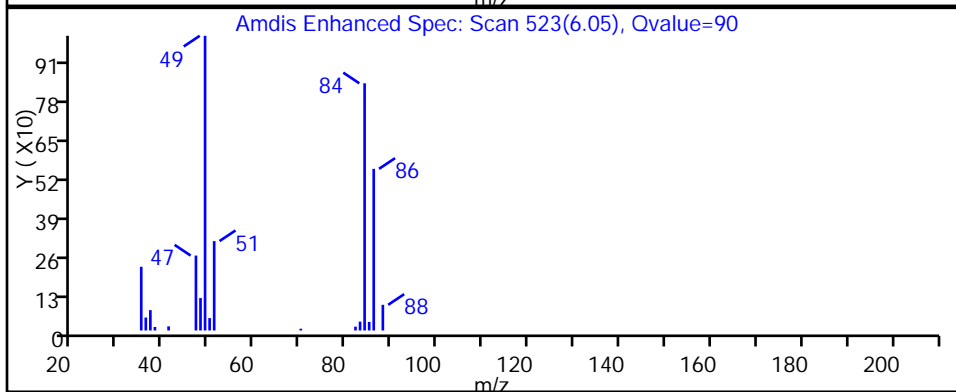
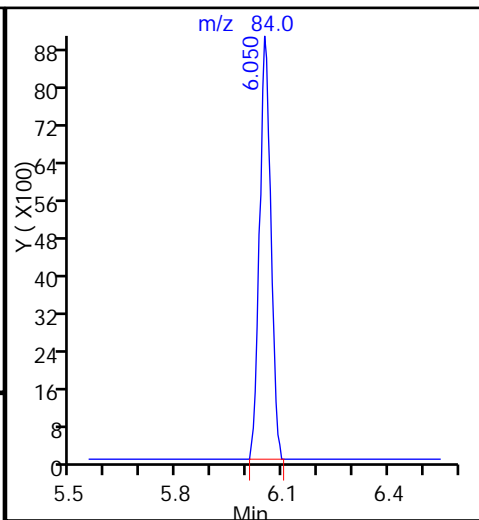
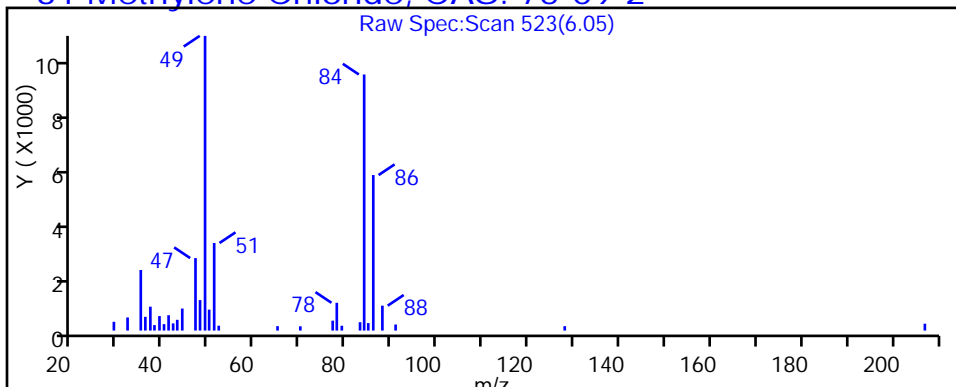
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

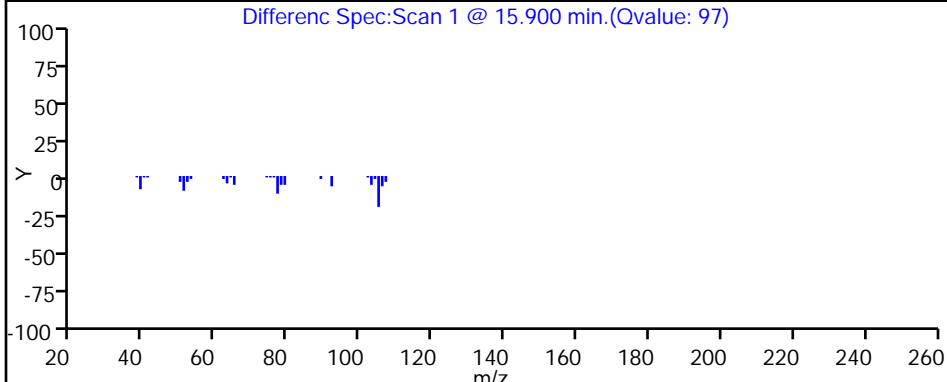
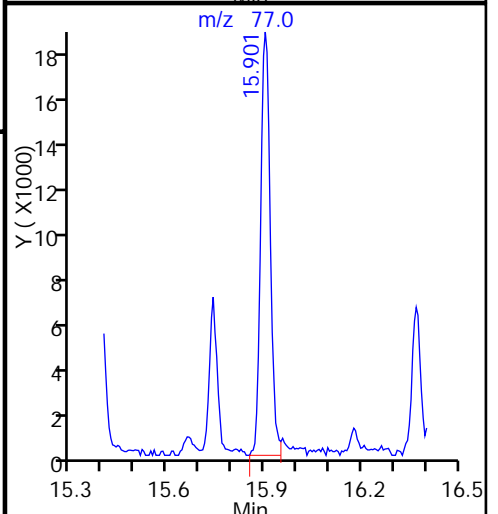
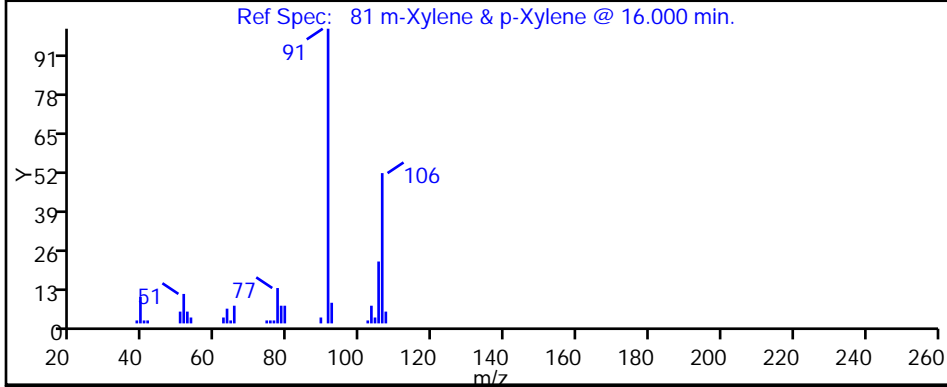
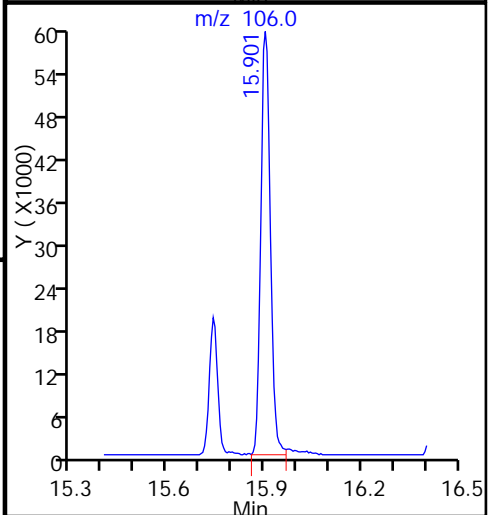
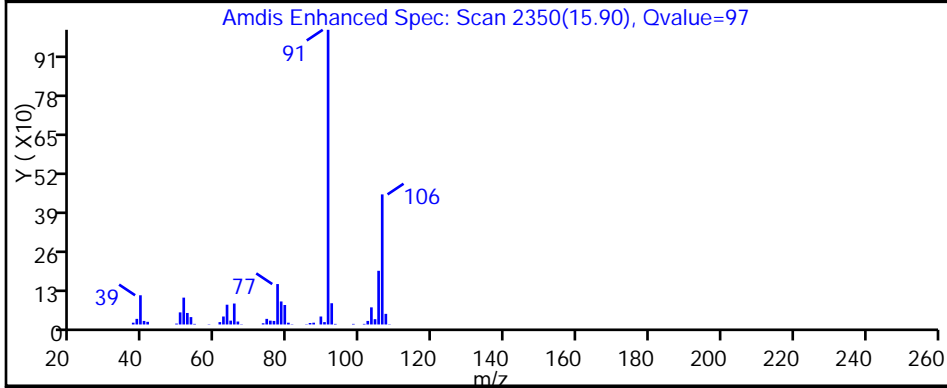
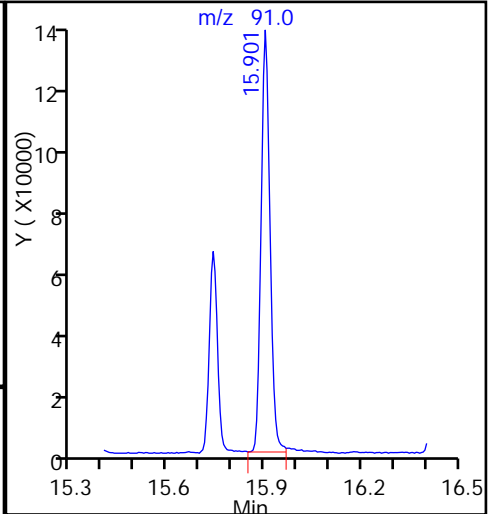
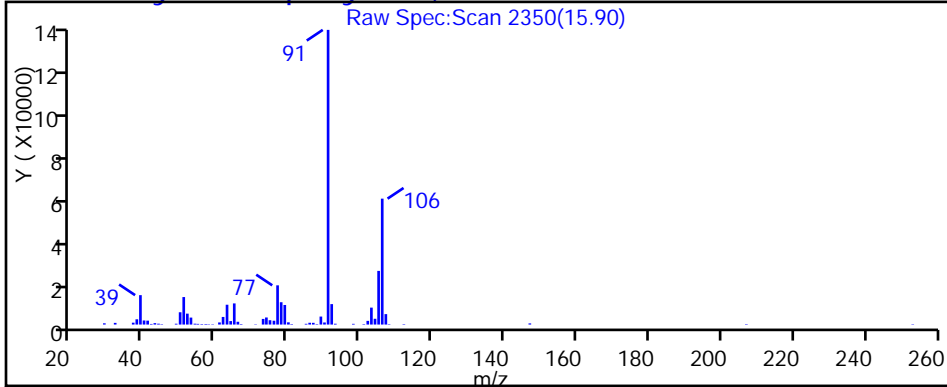
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

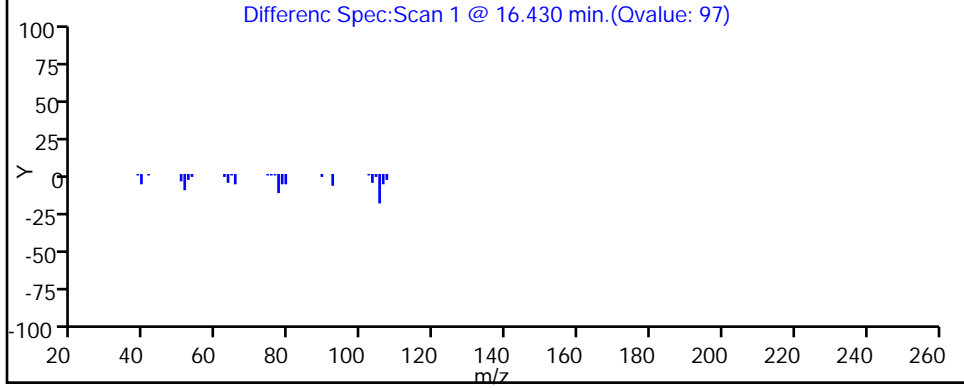
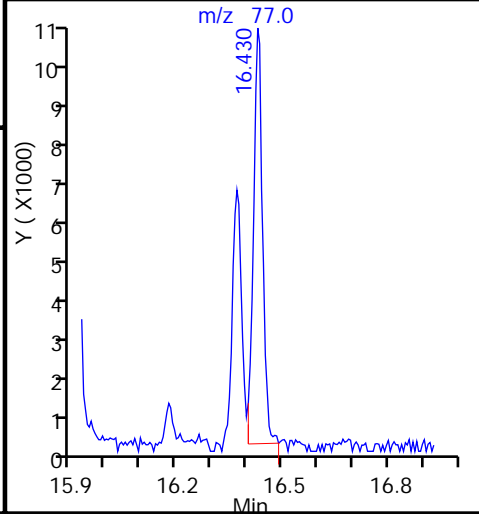
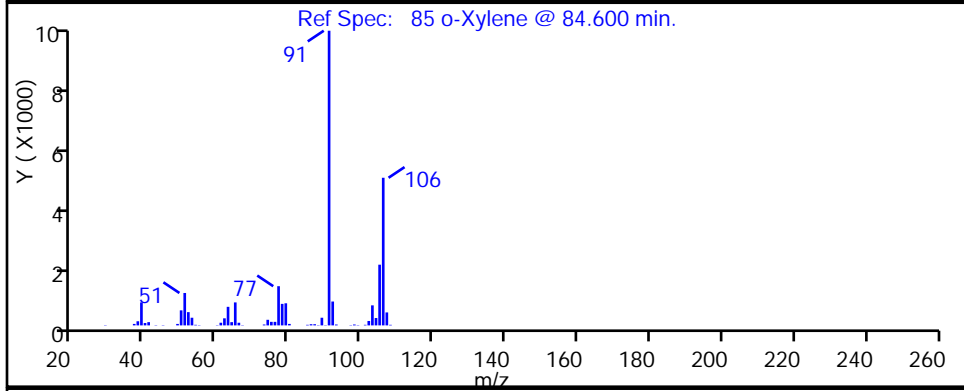
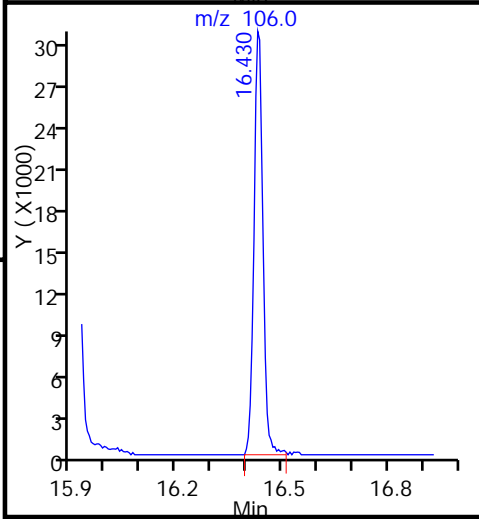
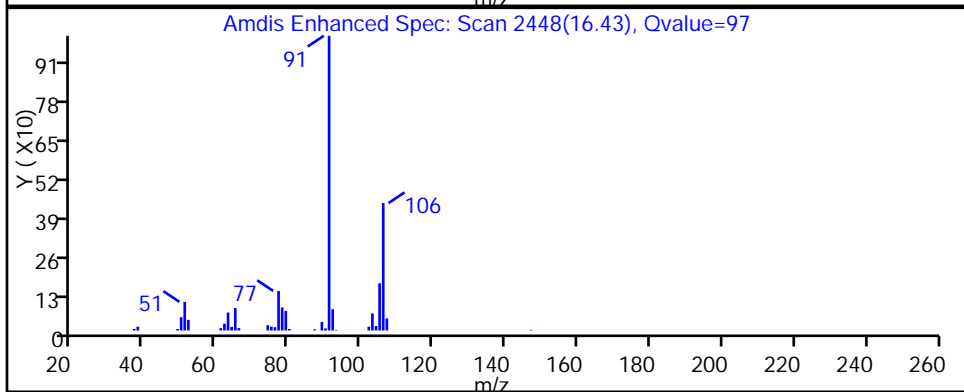
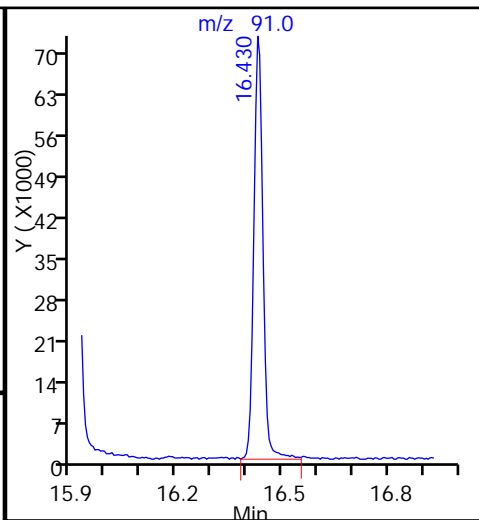
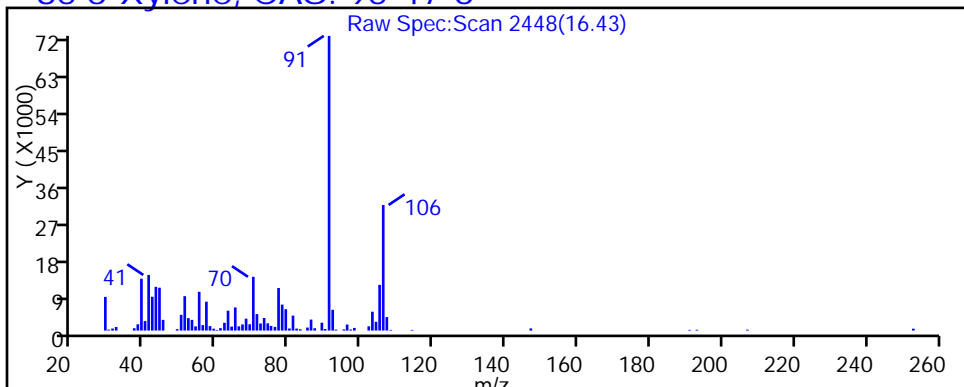
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

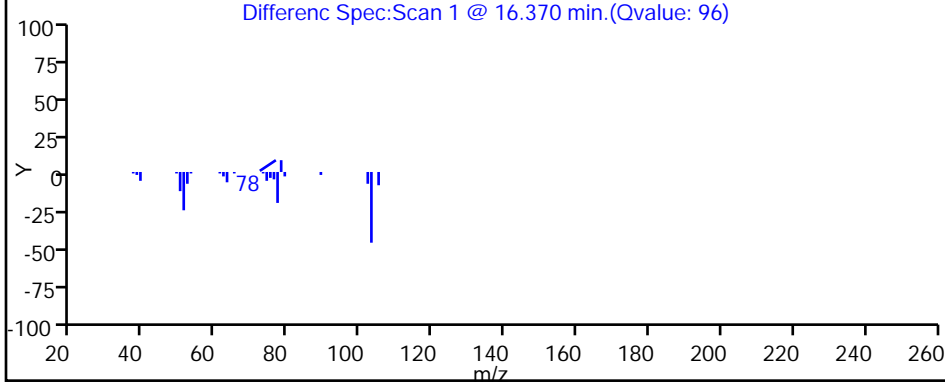
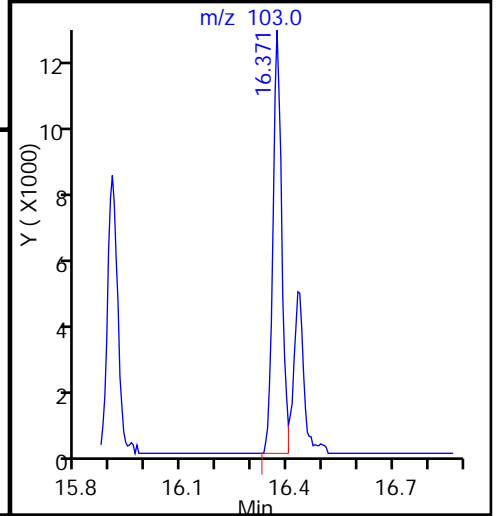
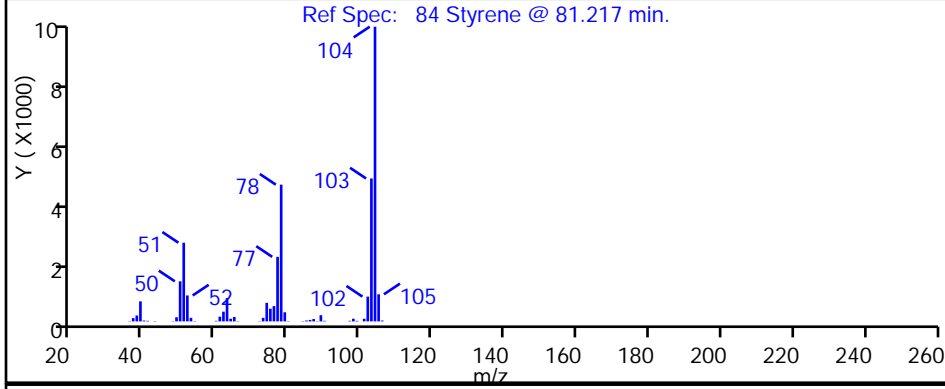
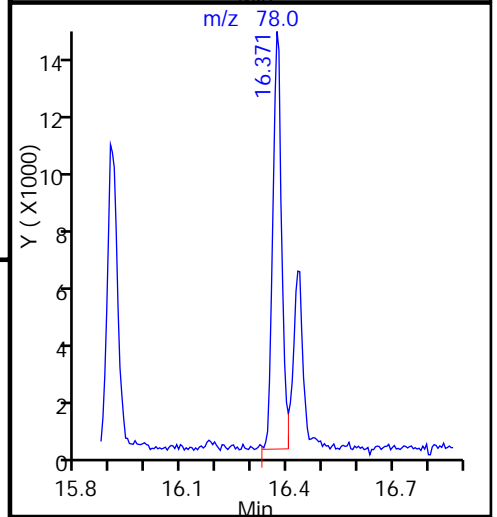
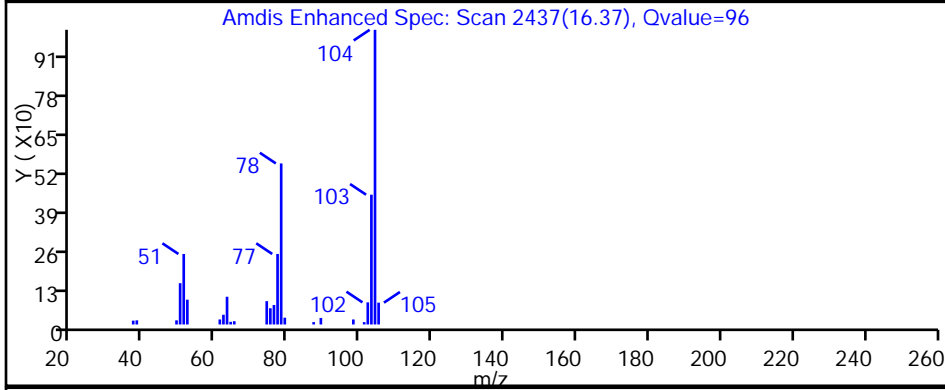
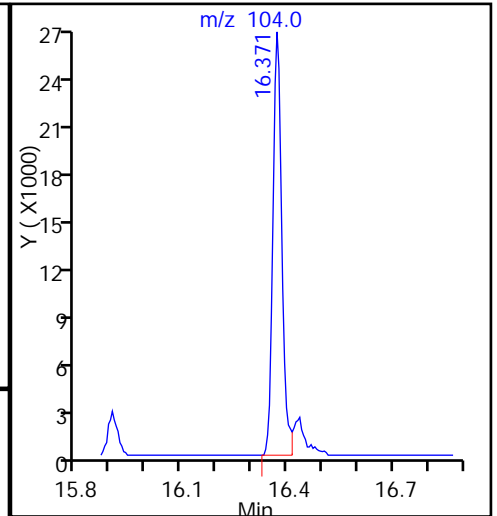
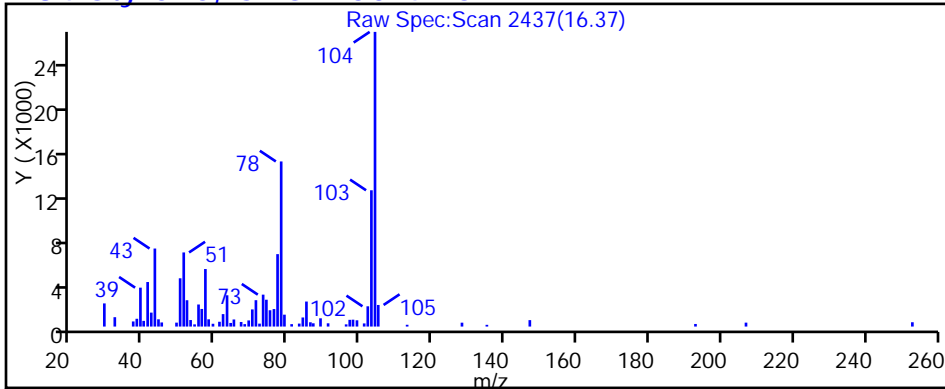
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

84 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

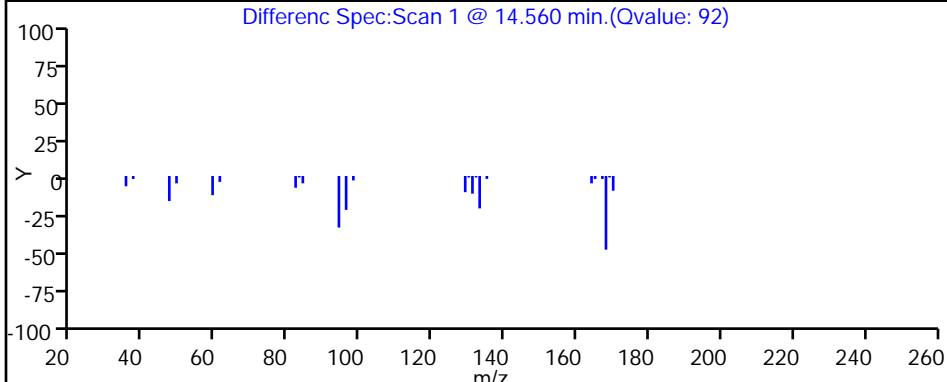
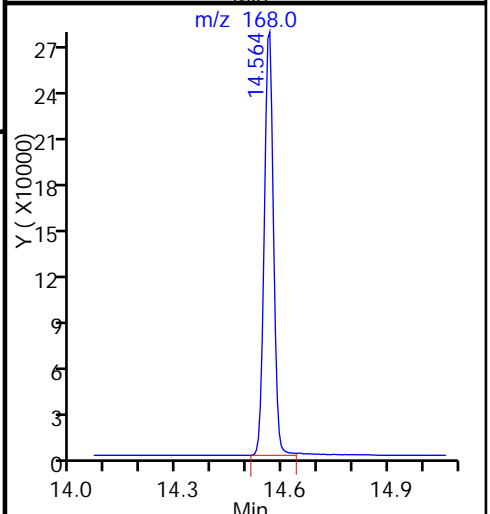
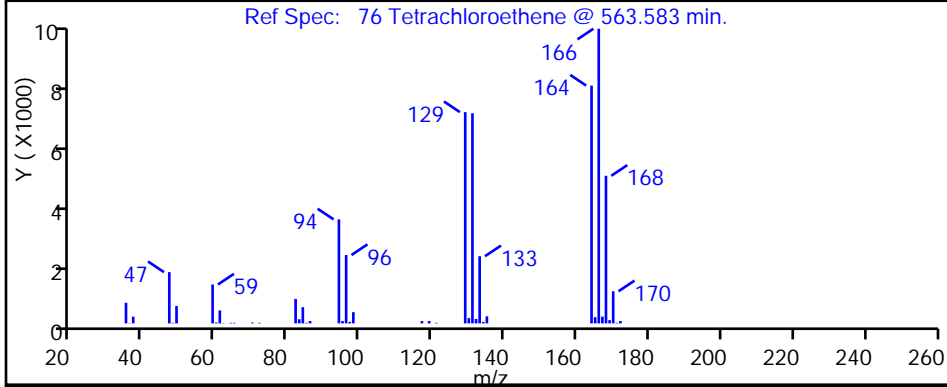
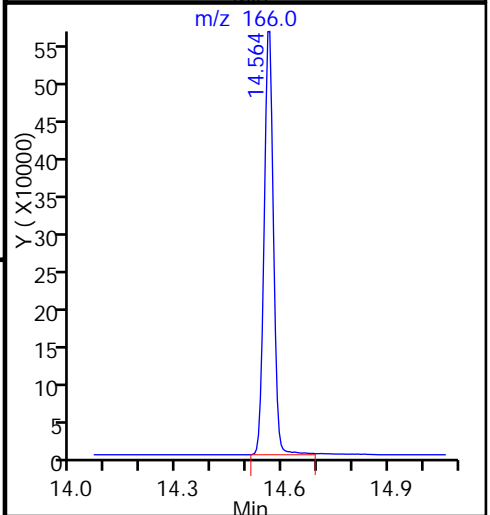
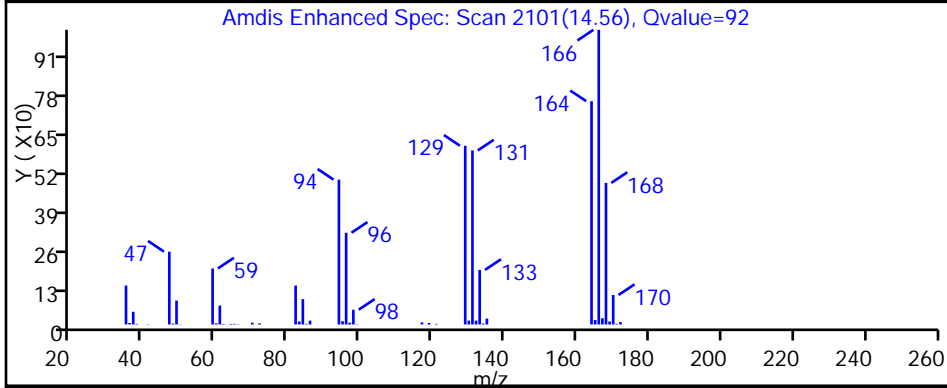
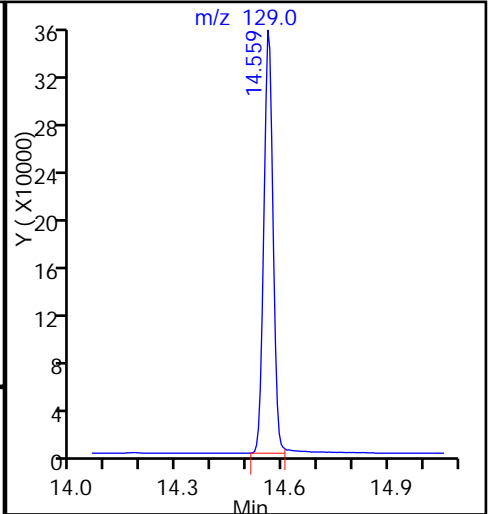
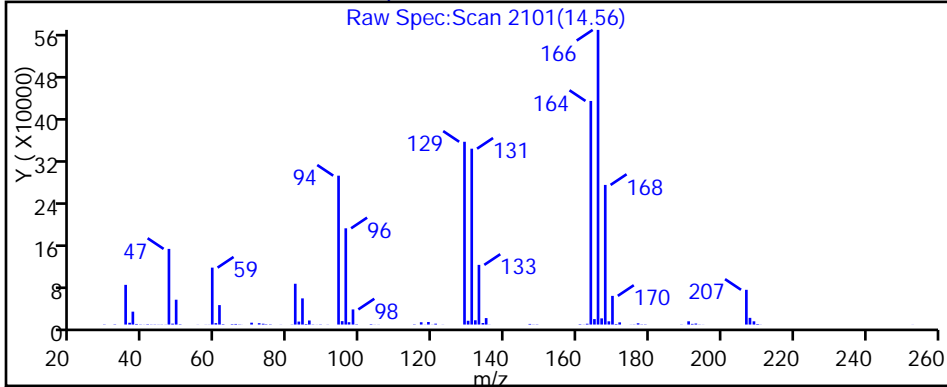
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

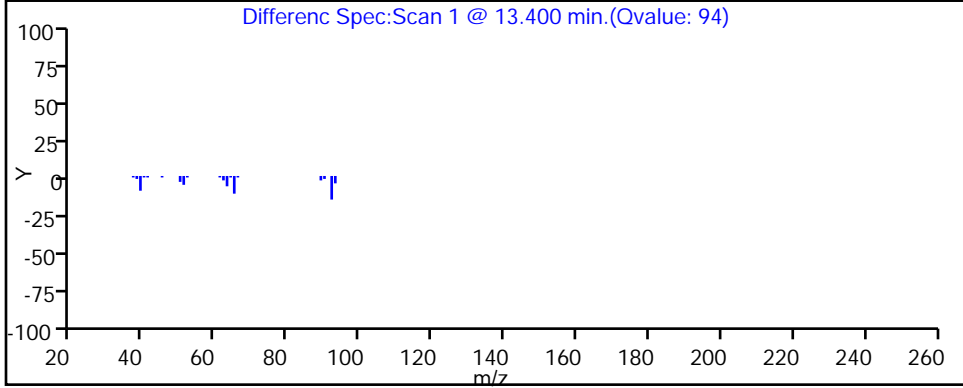
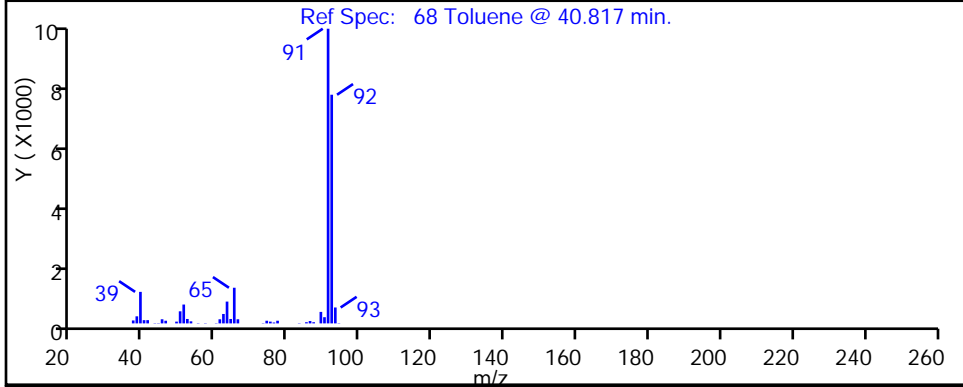
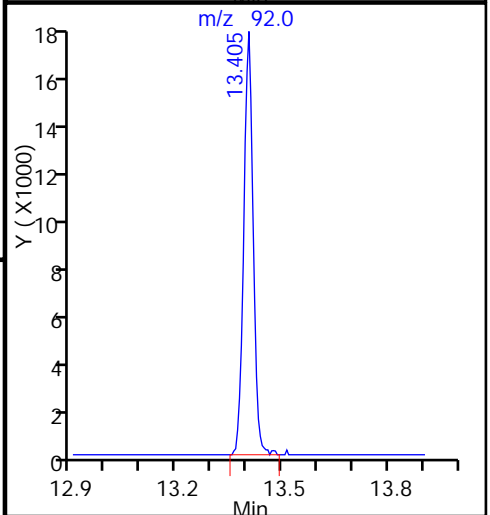
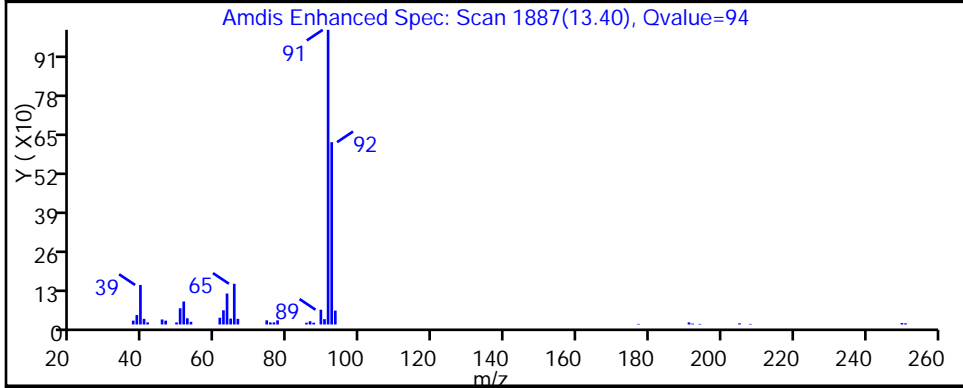
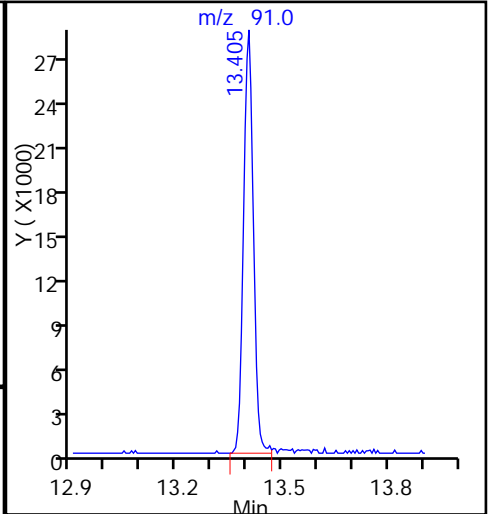
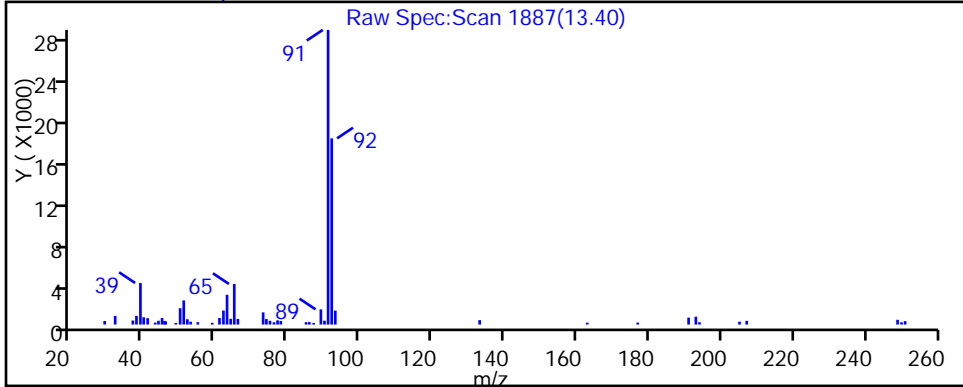
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P107.D

Injection Date: 21-Sep-2016 20:35:30

Instrument ID: MG

Lims ID: 140-5852-A-6

Lab Sample ID: 140-5852-6

Client ID: VP-126

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 11

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

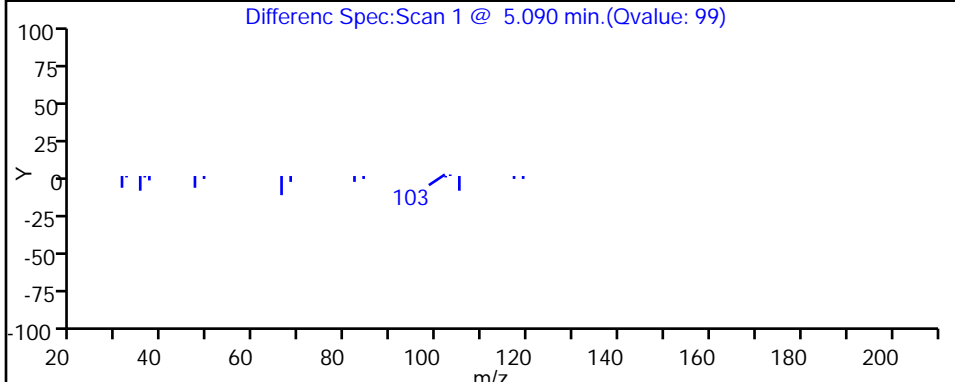
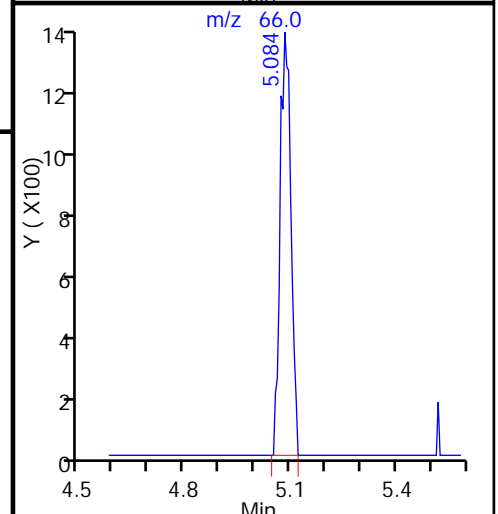
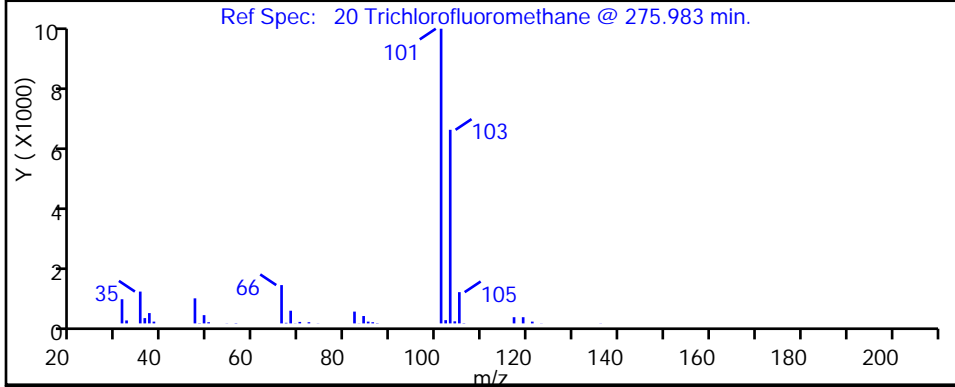
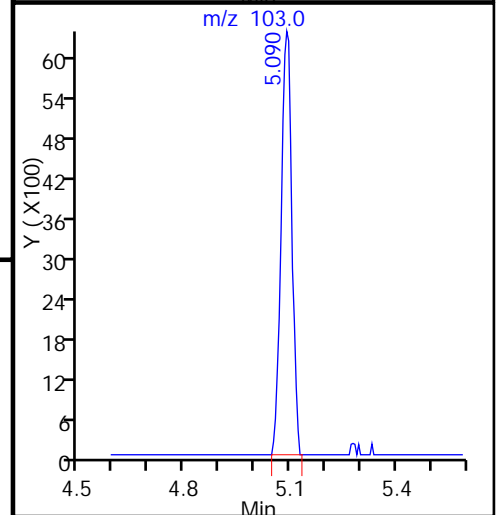
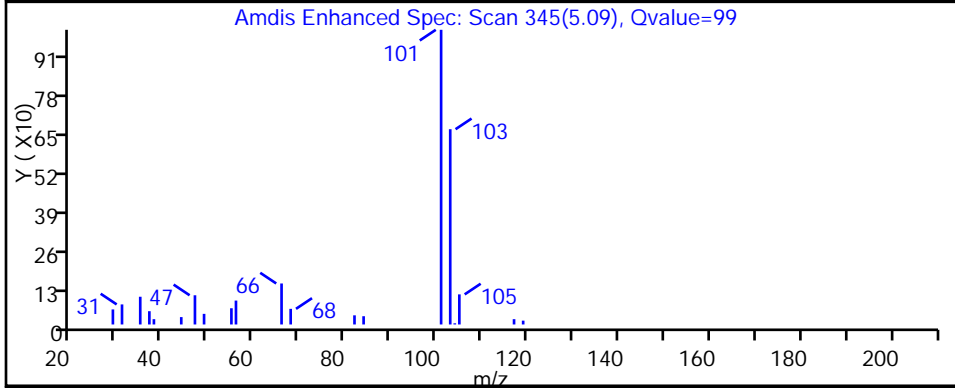
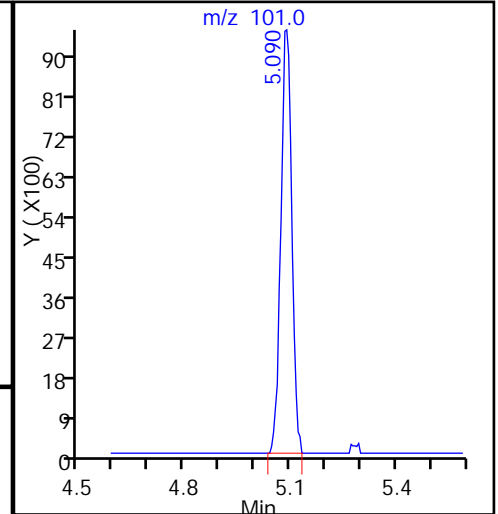
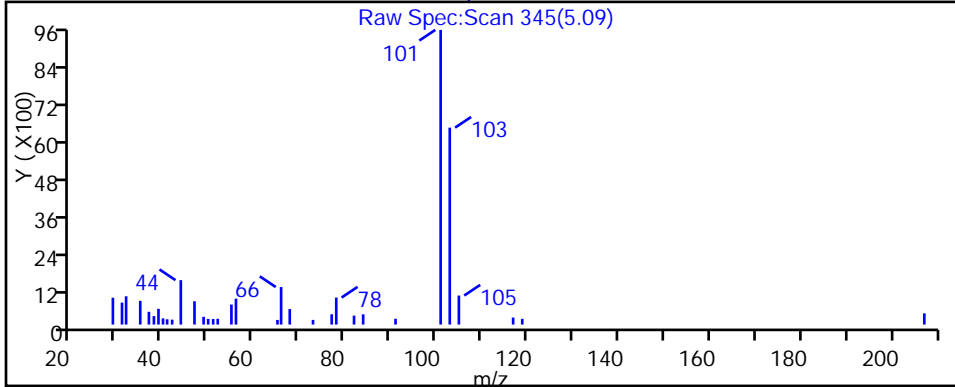
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-104 Lab Sample ID: 140-5852-7
 Matrix: Air Lab File ID: GI21P108.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 21:24
 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.: 6625 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	0.099		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	1.1		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	2.2		0.20	
71-43-2	Benzene	78.11	0.087		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	0.085		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	0.59		0.080	
74-87-3	Chloromethane	50.49	0.33		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-104 Lab Sample ID: 140-5852-7
 Matrix: Air Lab File ID: GI21P108.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 21:24
 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.: 6625 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	0.55		0.080
64-17-5	Ethanol	46.07	2.7	*	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	0.47		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	0.20		0.080
95-47-6	o-Xylene	106.17	0.082		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	1.5		0.080
108-88-3	Toluene	92.14	0.33		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	0.31		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-104 Lab Sample ID: 140-5852-7
 Matrix: Air Lab File ID: GI21P108.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 21:24
 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.: 6625 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	0.49		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	6.6		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	9.1		0.82
71-43-2	Benzene	78.11	0.28		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	0.53		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	2.9		0.39
74-87-3	Chloromethane	50.49	0.69		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-104 Lab Sample ID: 140-5852-7
 Matrix: Air Lab File ID: GI21P108.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 21:24
 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.: 6625 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	2.7		0.40
64-17-5	Ethanol	46.07	5.0	*	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	1.6		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	0.88		0.35
95-47-6	o-Xylene	106.17	0.36		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	10		0.54
108-88-3	Toluene	92.14	1.2		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	1.8		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\MG\20160919-3444.b\GI21P108.D
 Lims ID: 140-5852-A-7
 Client ID: VP-104
 Sample Type: Client
 Inject. Date: 21-Sep-2016 21:24:30 ALS Bottle#: 8 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-012
 Misc. Info.: 140-5852-a-7
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 13:59:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.444	8.454	-0.010	92	244217	4.00	
* 2 1,4-Difluorobenzene	114	10.611	10.617	-0.006	96	1186152	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.389	15.394	-0.005	92	1058438	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	92	763705	4.13	
8 Dichlorodifluoromethane	85	3.758	3.758	0.000	100	115915	0.5520	
9 Chloromethane	52	3.919	3.919	0.000	99	7897	0.3321	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.930	0.000	39	1999	0.0152	
17 Ethanol	31	4.658	4.663	-0.005	97	92968	2.65	
20 Trichlorofluoromethane	101	5.090	5.095	-0.005	100	61989	0.3142	
29 2-Methyl-2-propanol	59	5.855	5.834	0.021	84	3115	0.0292	
30 1,1,2-Trichloro-1,2,2-trif	101	5.904	5.909	-0.005	94	9449	0.0783	
31 Methylene Chloride	84	6.044	6.055	-0.011	90	28037	0.4717	
39 2-Butanone (MEK)	72	7.716	7.721	-0.005	99	13920	0.3118	
40 Hexane	56	7.770	7.775	-0.005	75	9749	0.1511	
44 Chloroform	83	8.465	8.476	-0.011	95	96586	0.5921	
49 Benzene	78	10.051	10.056	-0.005	97	19015	0.0873	
50 Cyclohexane	69	10.067	10.067	0.000	61	1243	0.0333	
52 Carbon tetrachloride	117	10.078	10.088	-0.010	96	14577	0.0850	
56 Isooctane	57	10.854	10.854	0.000	91	24178	0.0589	
65 4-Methyl-2-pentanone (MIBK	43	12.510	12.520	-0.010	98	426444	2.23	
68 Toluene	91	13.405	13.405	0.001	93	75492	0.3263	
76 Tetrachloroethene	129	14.559	14.564	-0.005	92	141017	1.53	
79 Ethylbenzene	91	15.740	15.739	0.001	98	17556	0.0573	
81 m-Xylene & p-Xylene	91	15.901	15.907	-0.006	97	48166	0.2031	
84 Styrene	104	16.376	16.370	0.006	96	7193	0.0459	
85 o-Xylene	91	16.430	16.435	-0.005	96	20971	0.0824	
92 1,3,5-Trimethylbenzene	120	17.816	17.821	-0.005	76	4273	0.0264	
96 1,2,4-Trimethylbenzene	105	18.269	18.268	0.001	97	29437	0.0989	
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	93	203416	1.10	

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Worklist Smp#: 12

Client ID: VP-104

Purge Vol: 500.000 mL

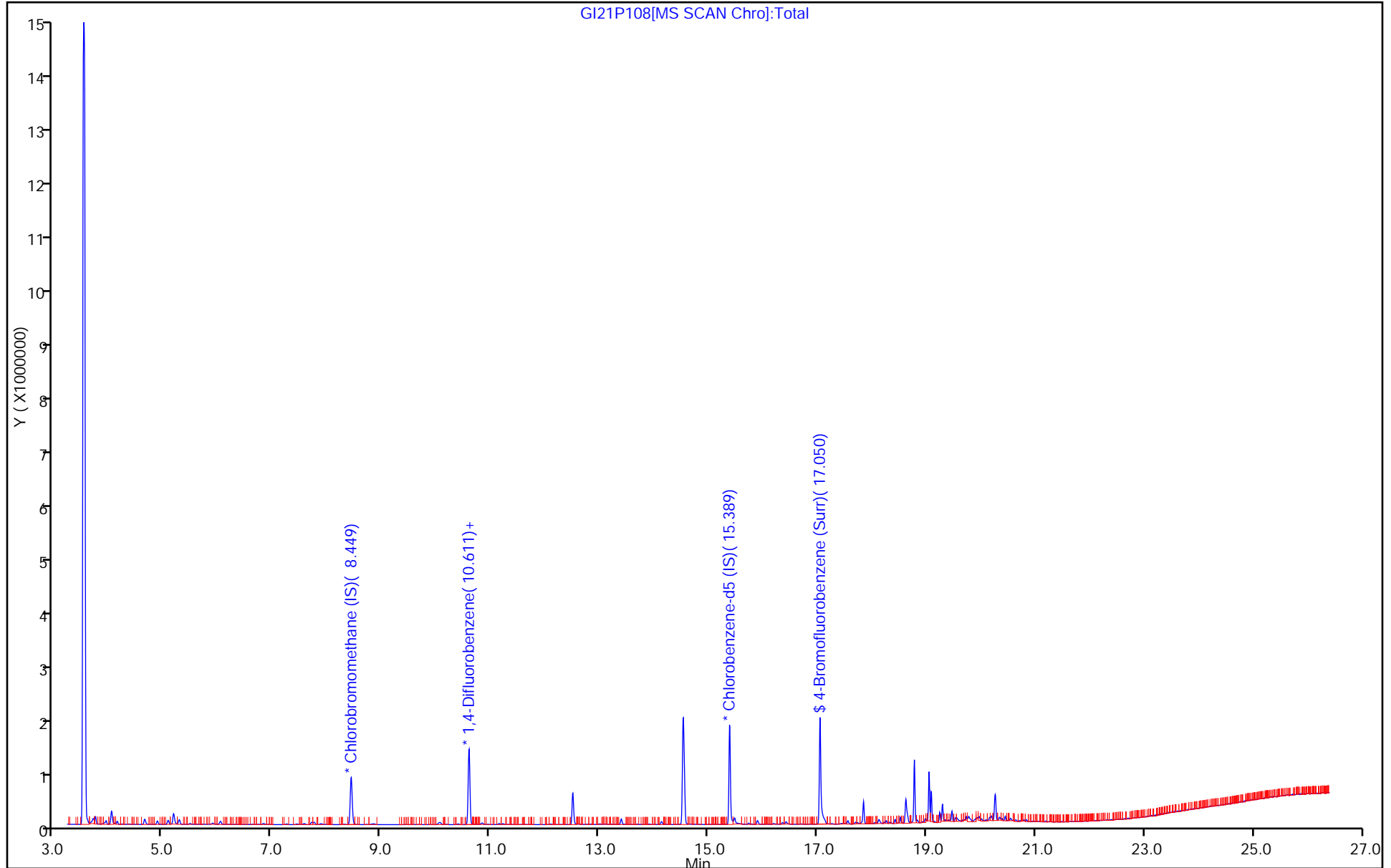
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D
 Lims ID: 140-5852-A-7
 Client ID: VP-104
 Sample Type: Client
 Inject. Date: 21-Sep-2016 21:24:30 ALS Bottle#: 8 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-012
 Misc. Info.: 140-5852-a-7
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 13:59:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.13	103.34

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

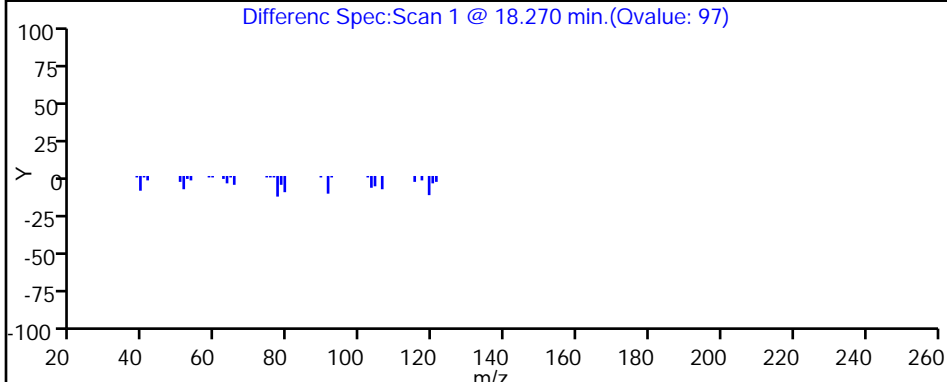
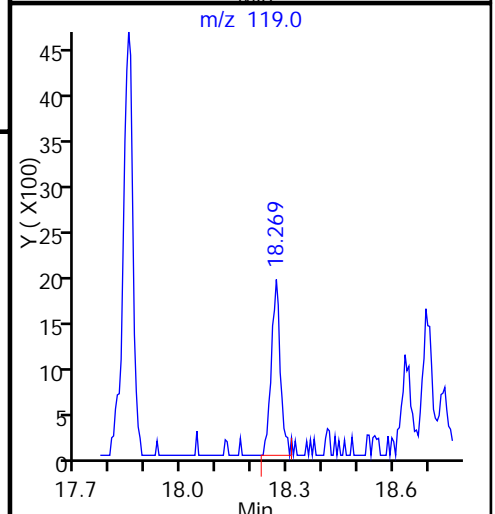
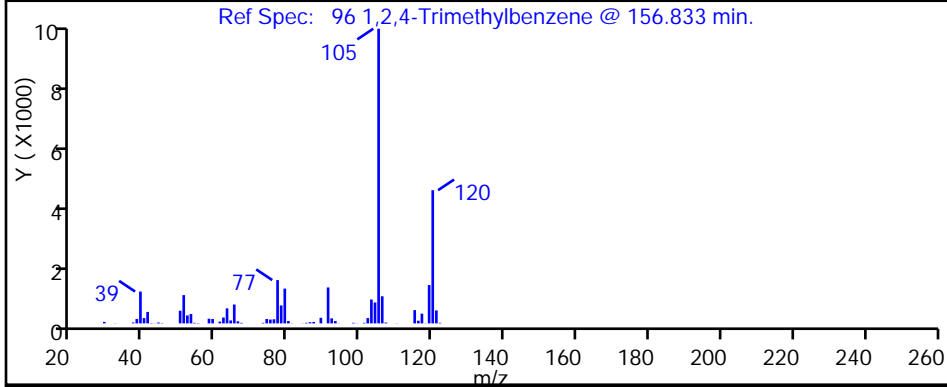
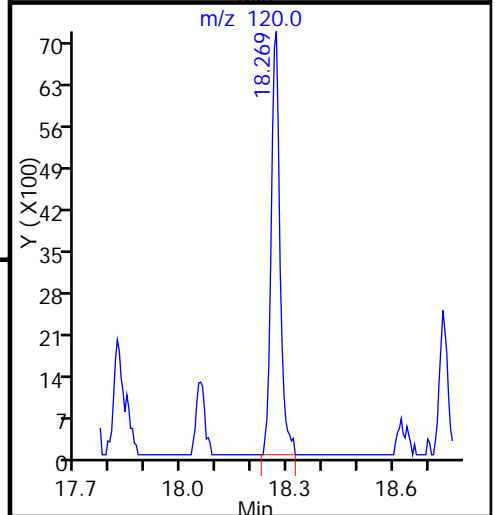
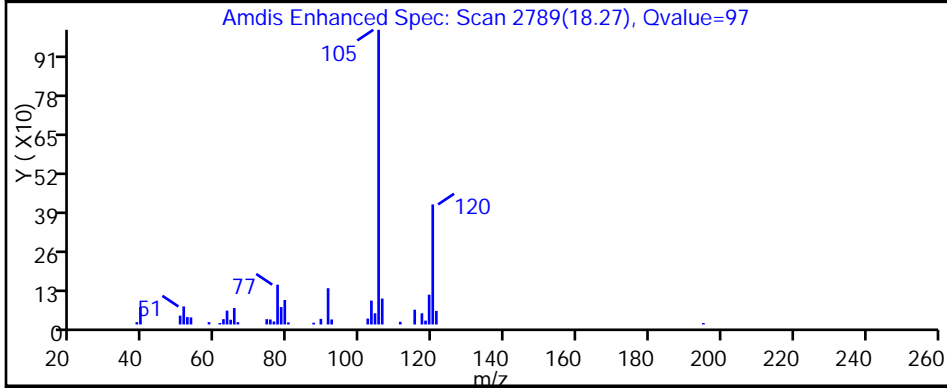
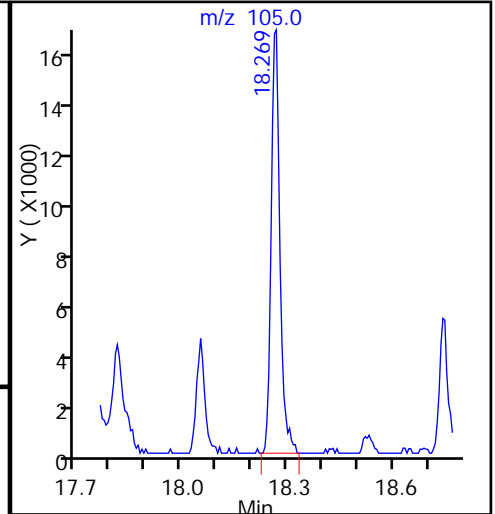
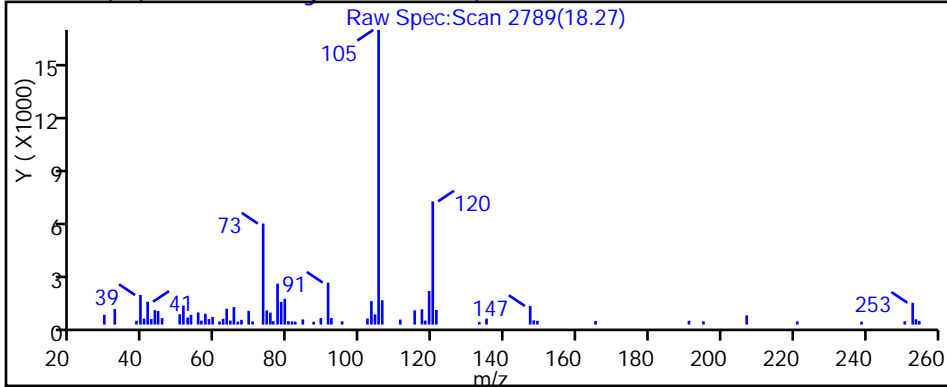
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

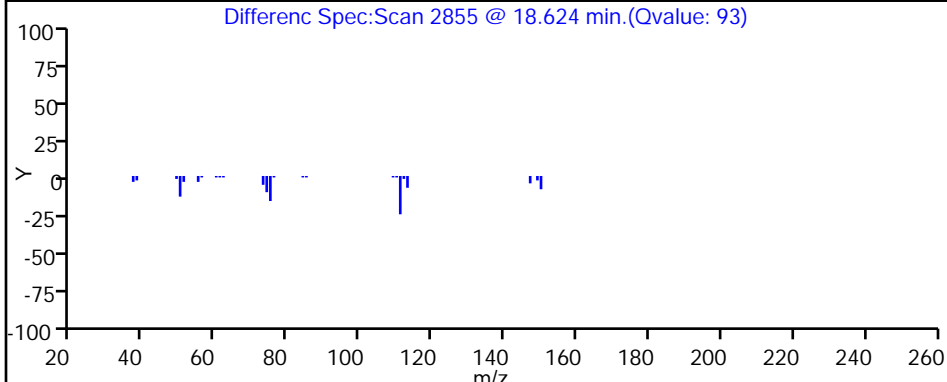
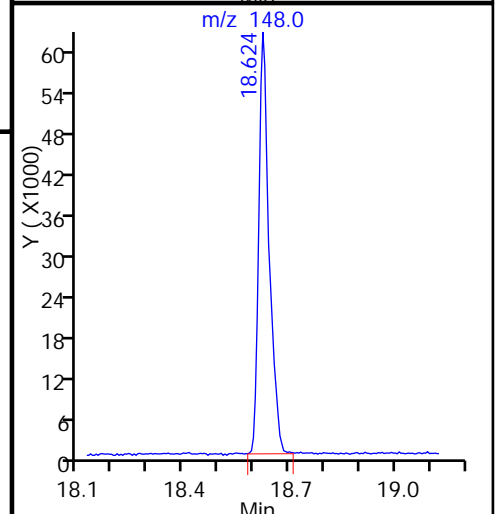
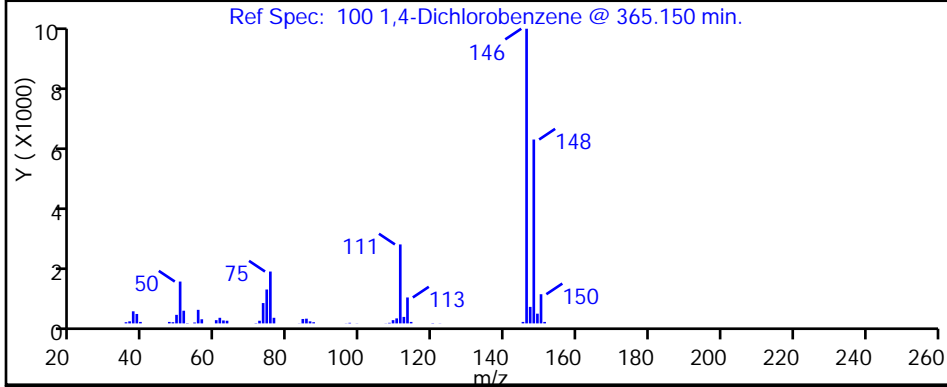
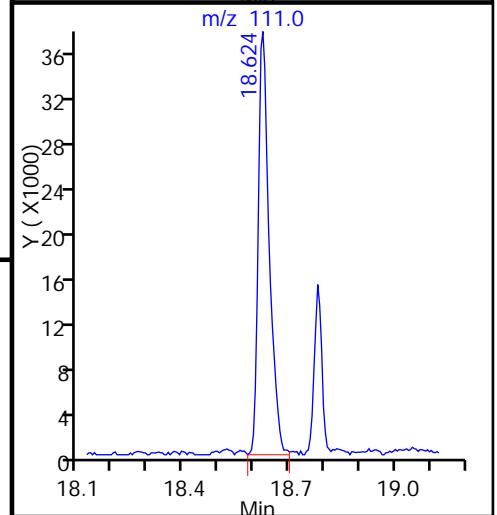
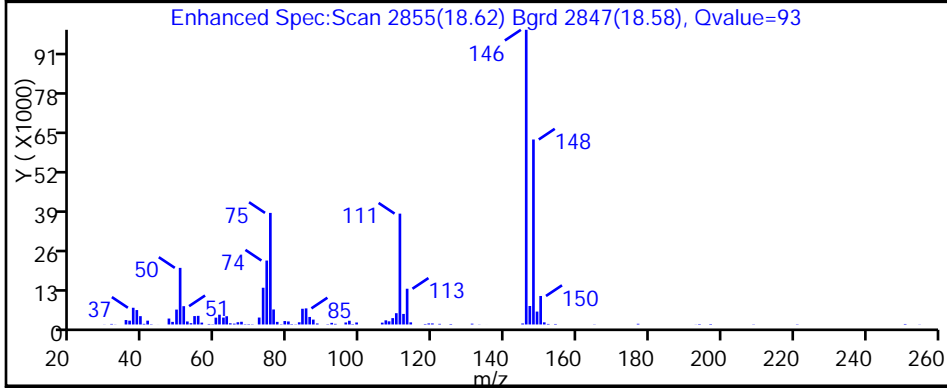
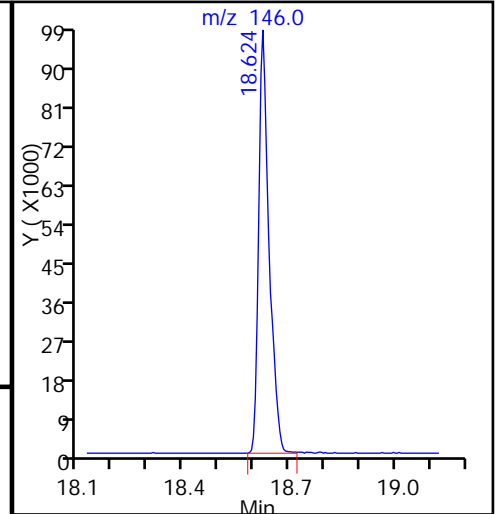
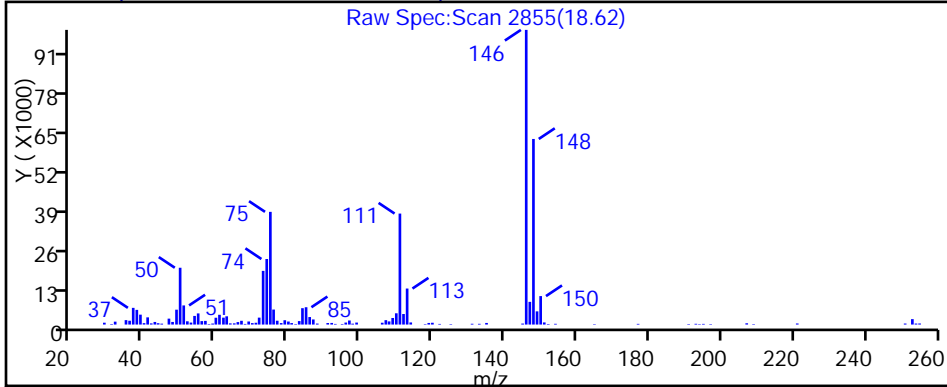
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

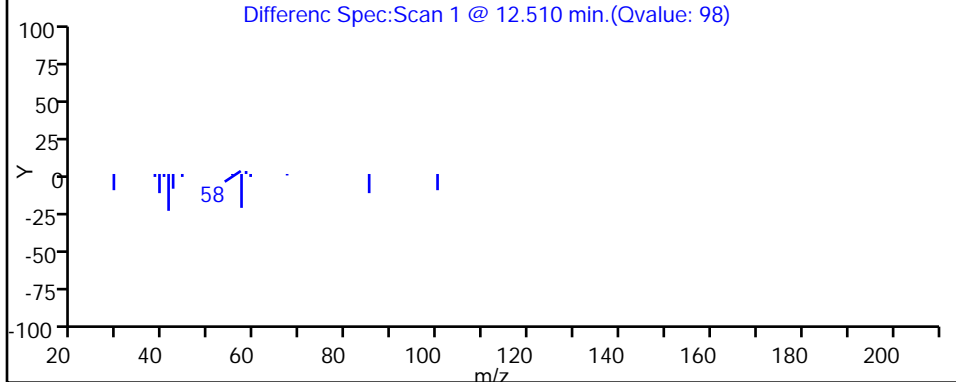
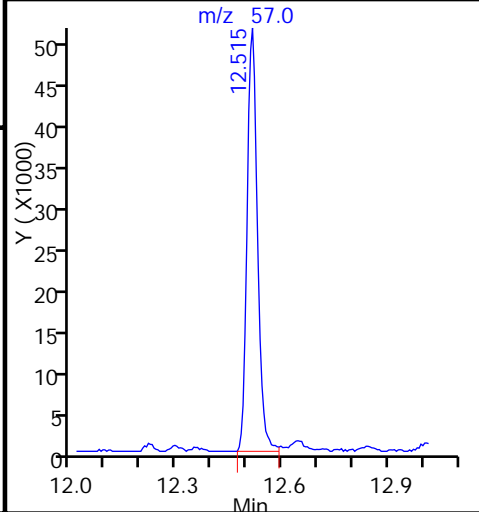
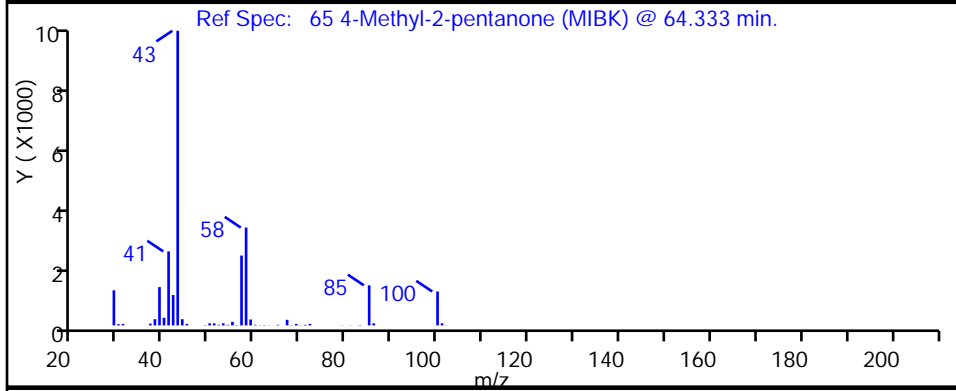
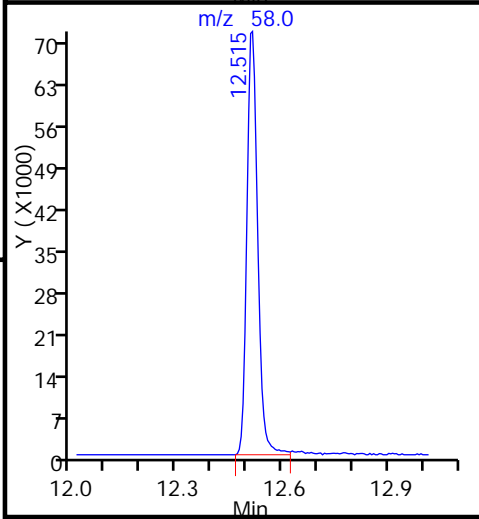
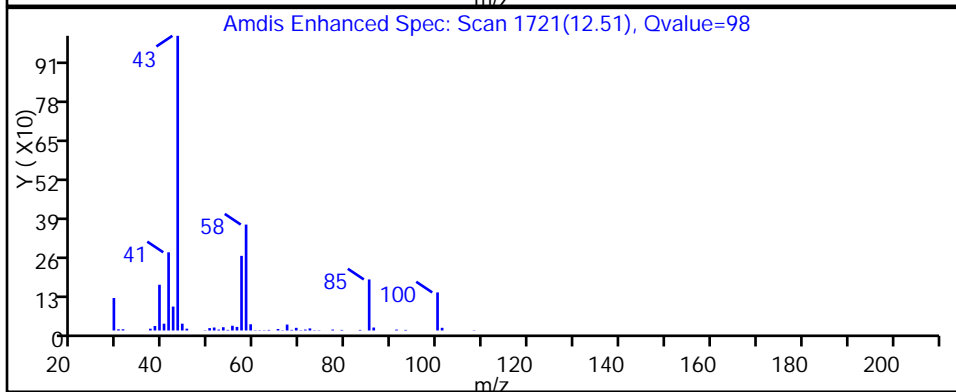
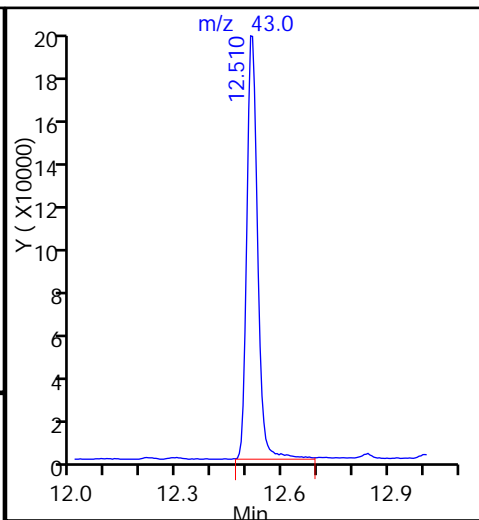
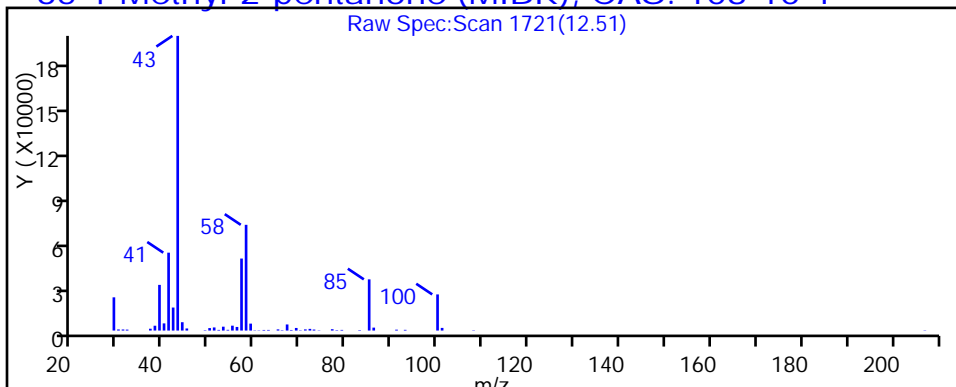
Method: MG_TO15

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

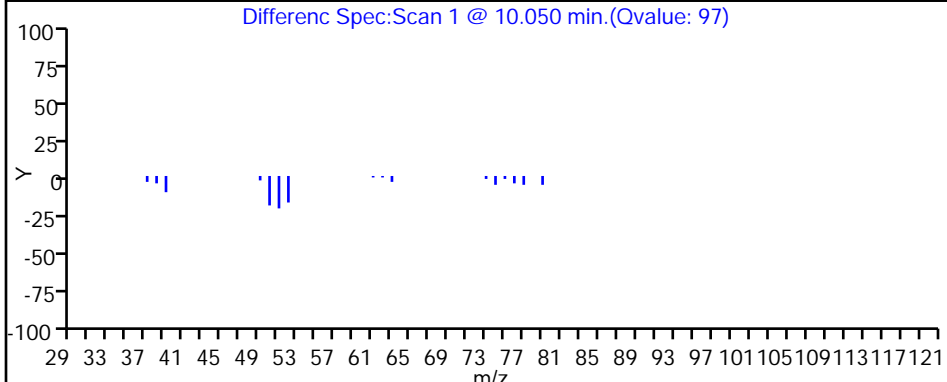
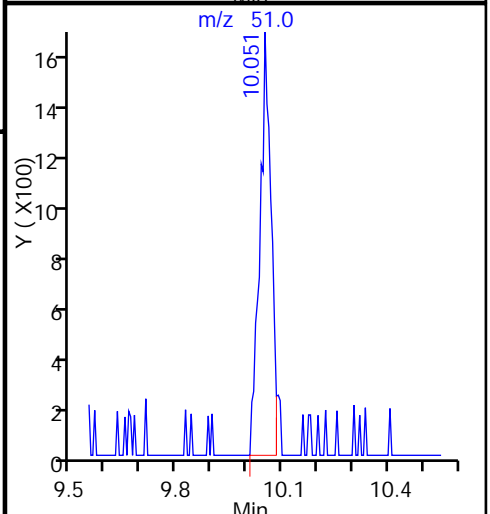
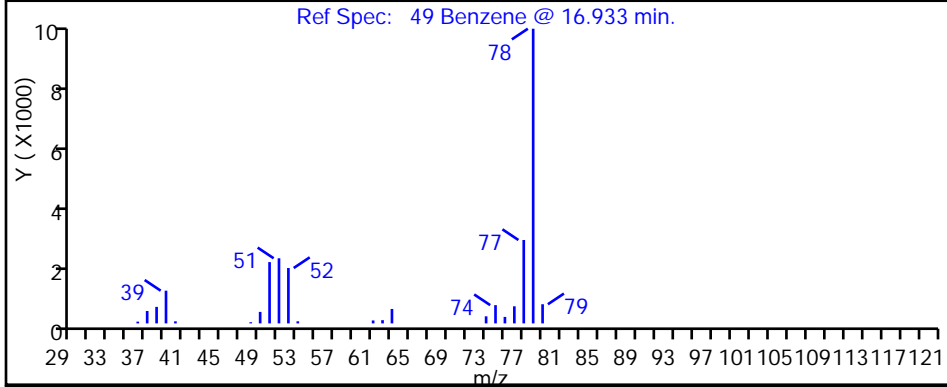
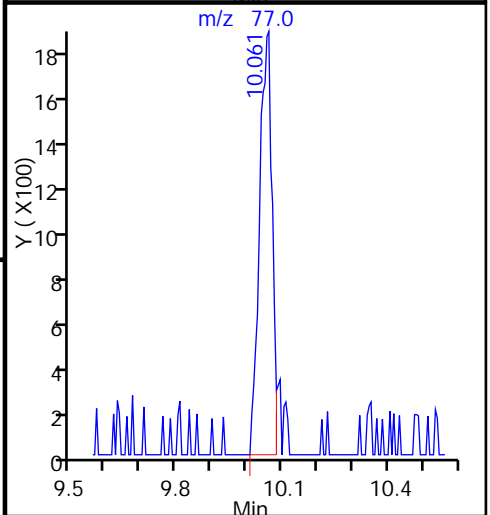
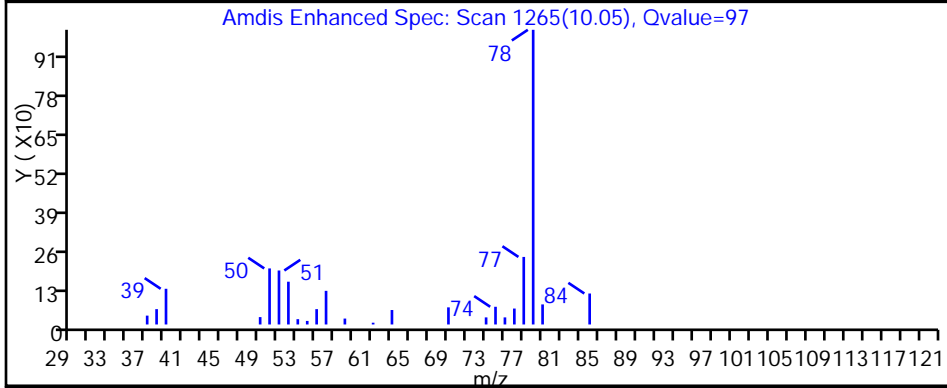
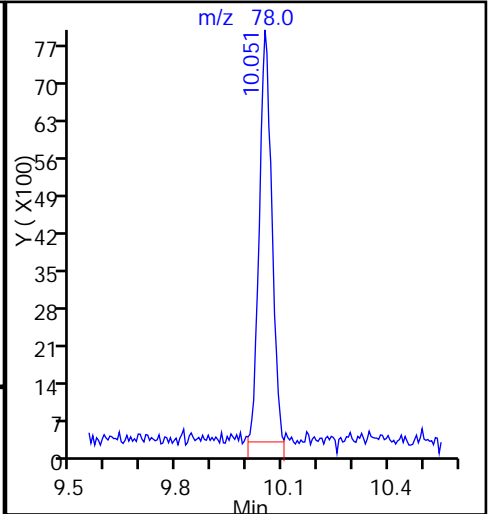
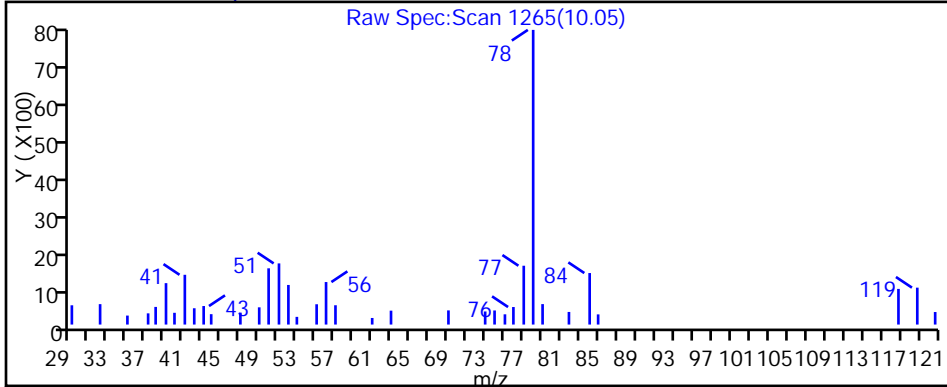
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

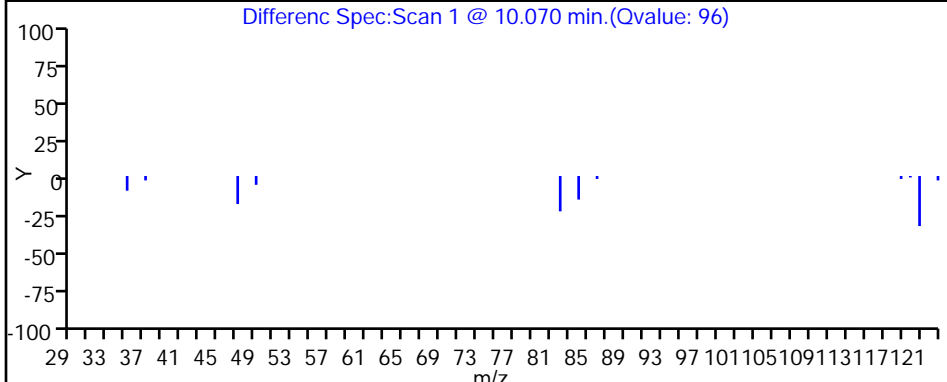
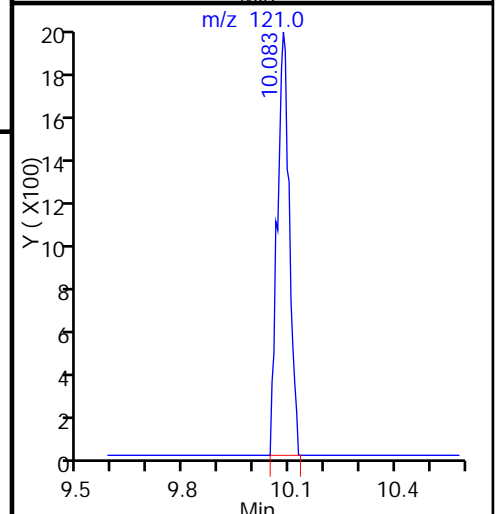
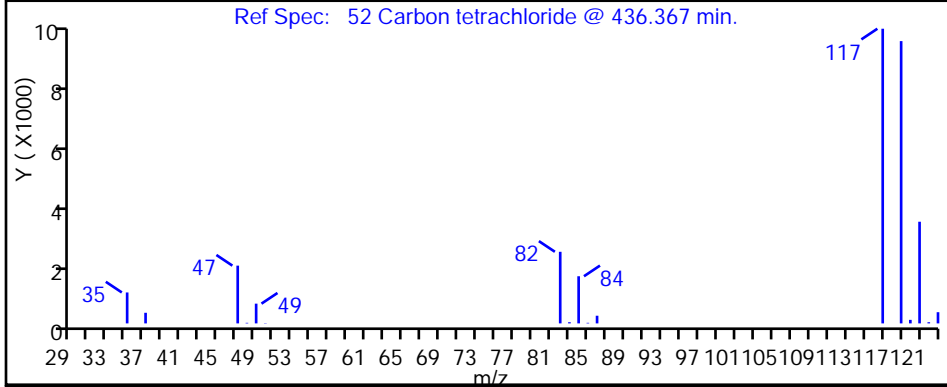
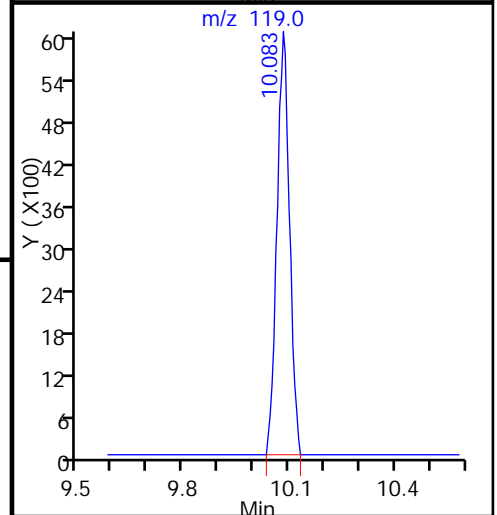
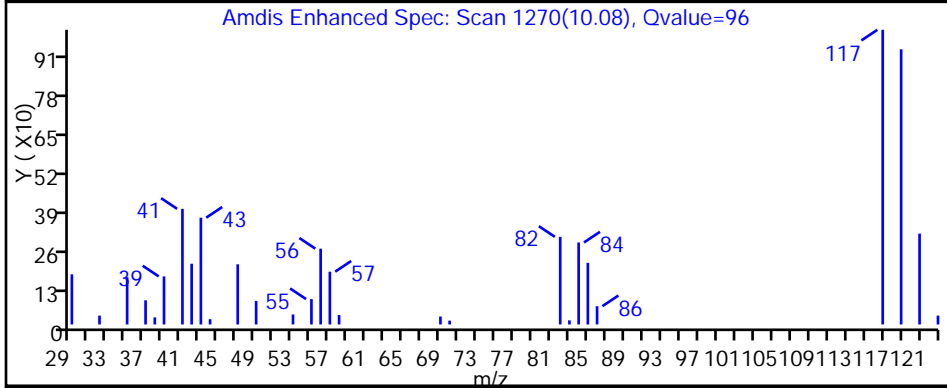
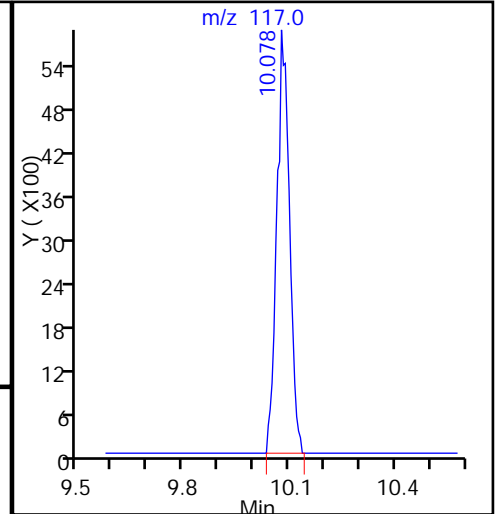
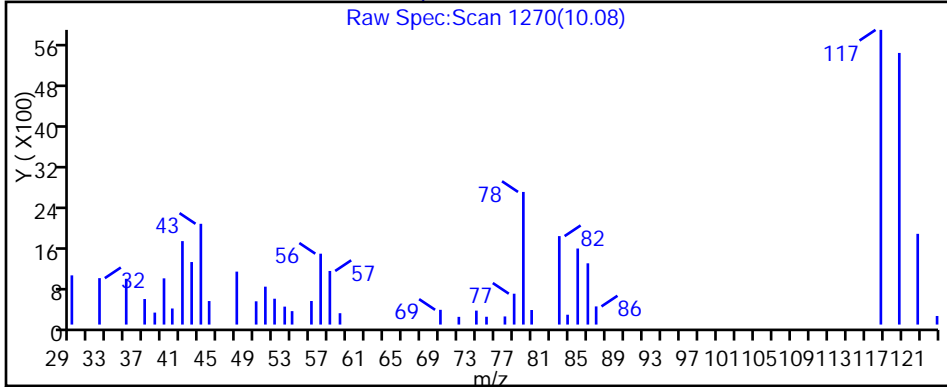
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

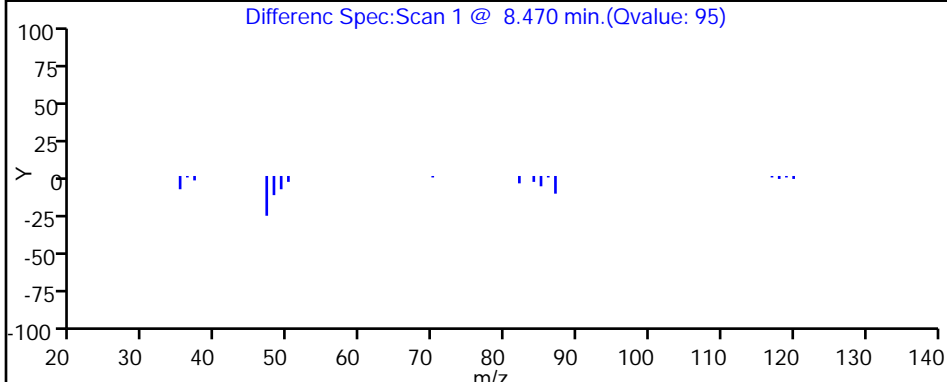
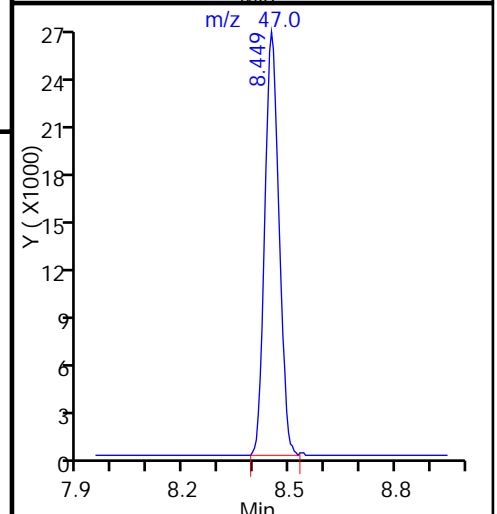
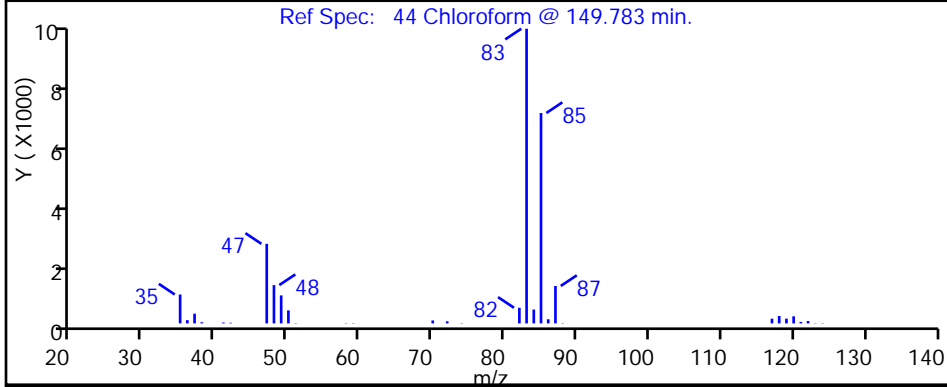
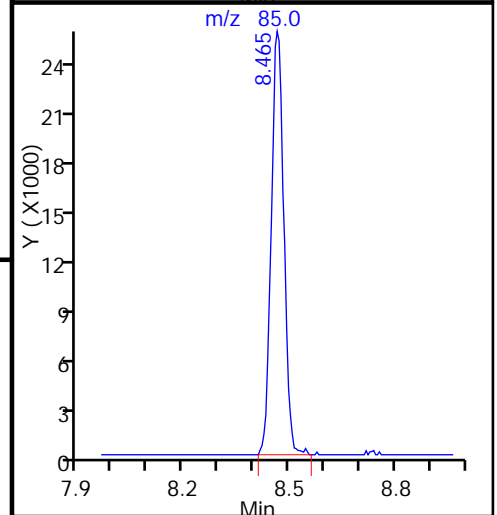
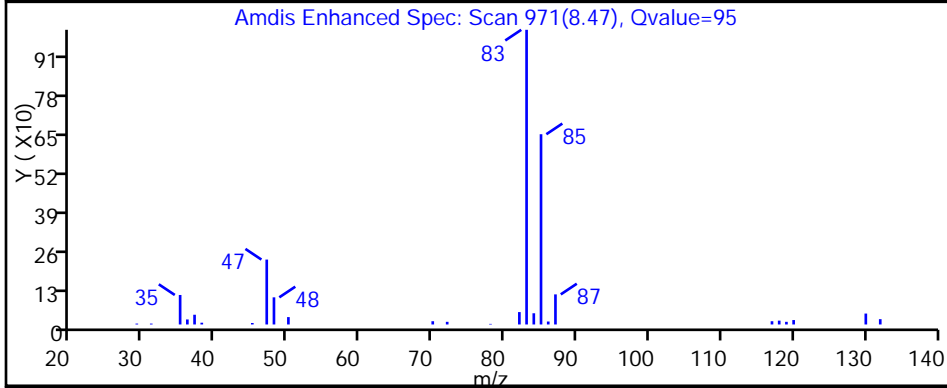
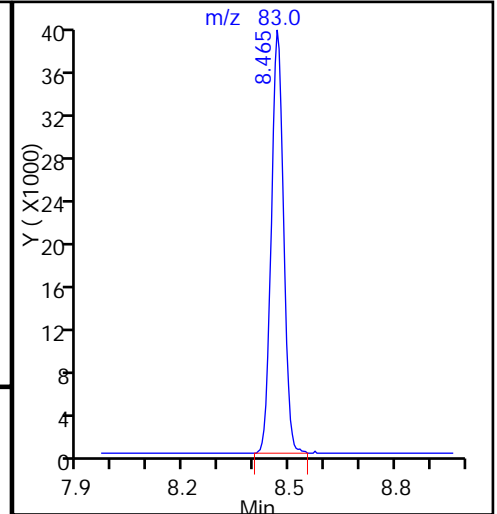
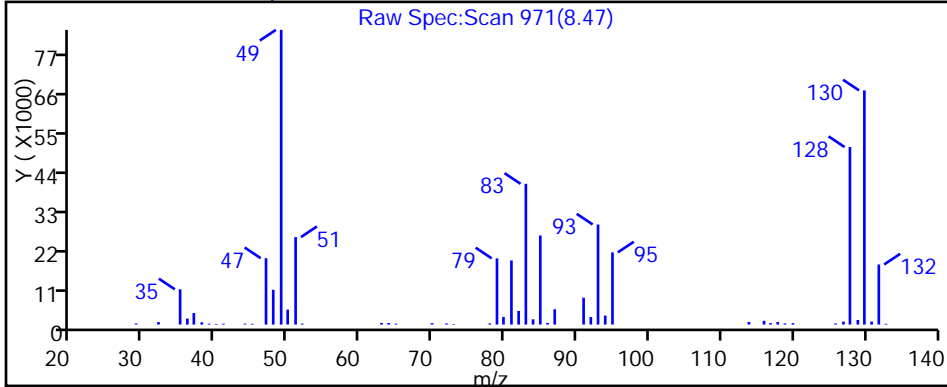
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

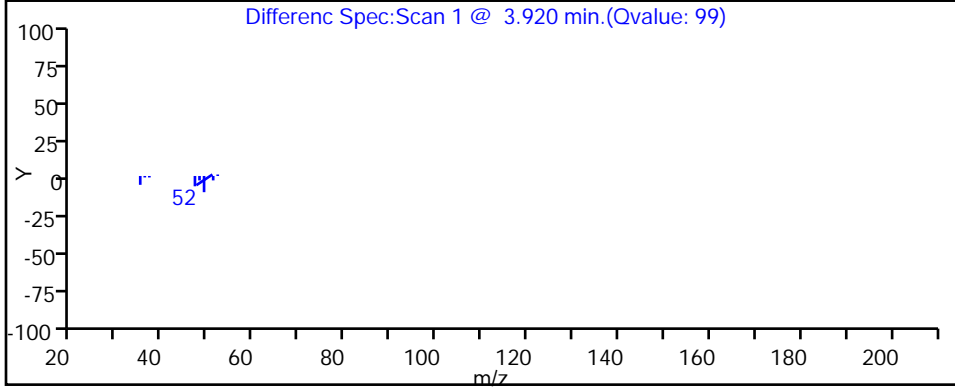
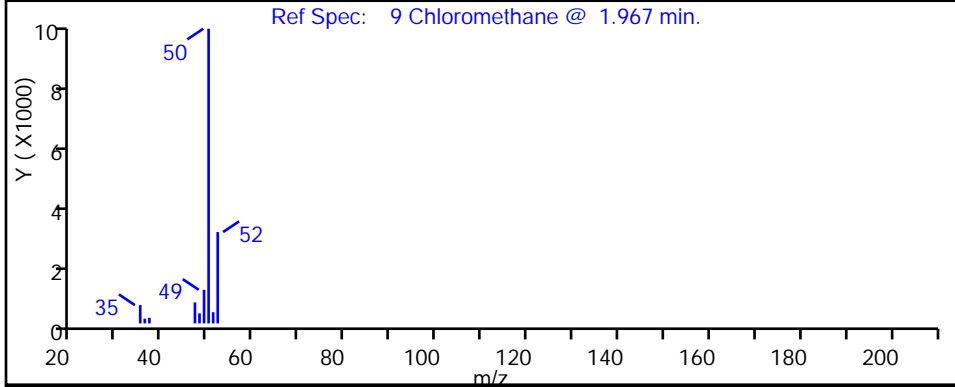
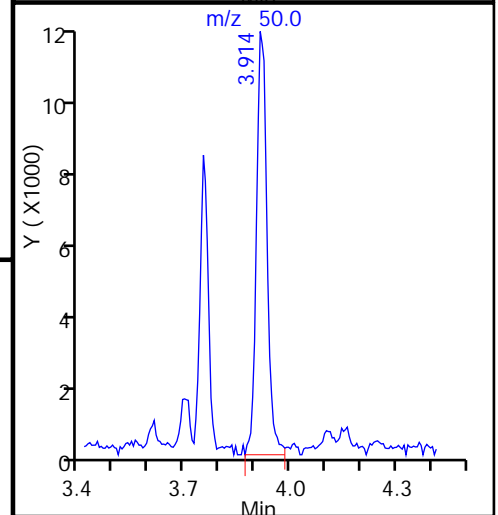
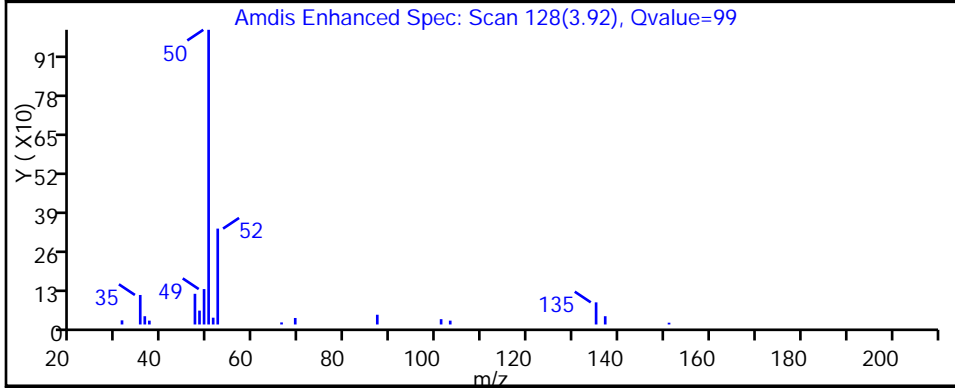
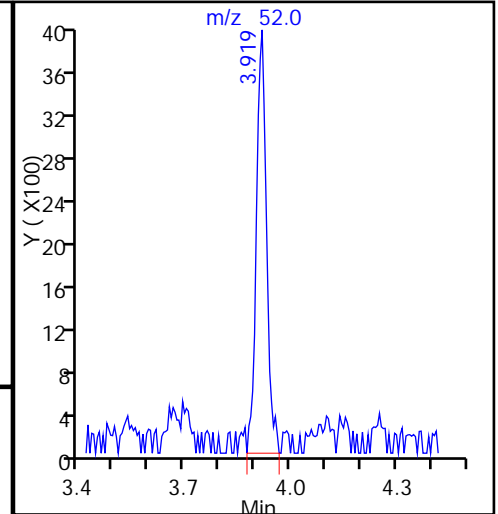
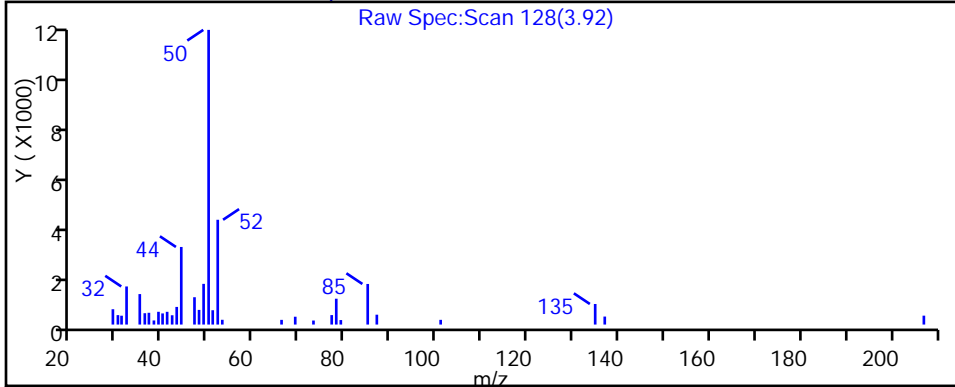
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

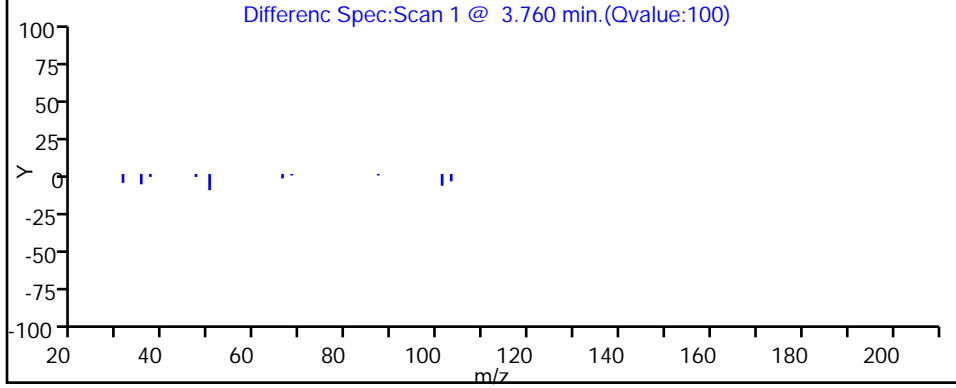
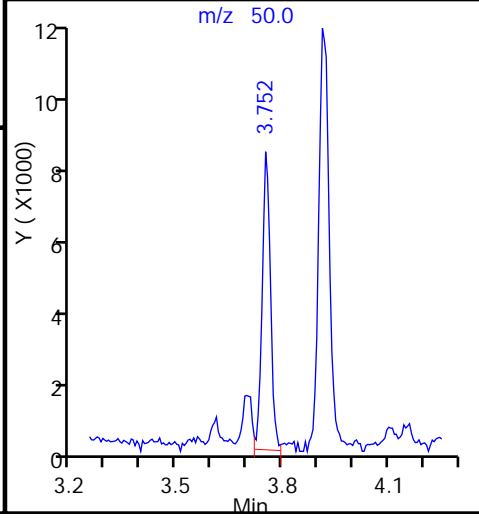
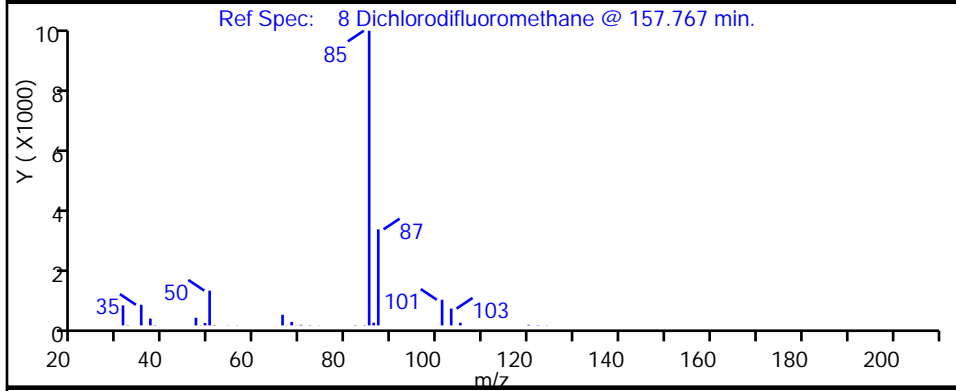
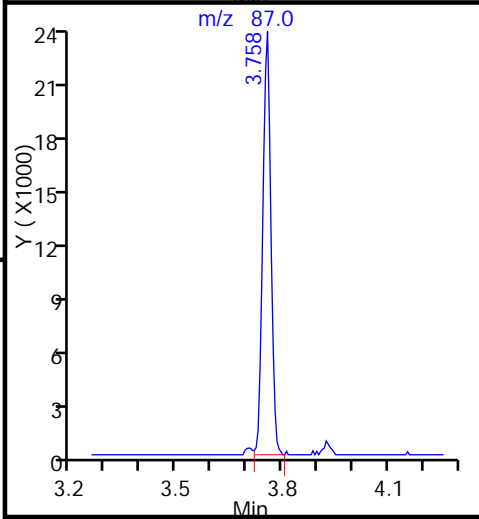
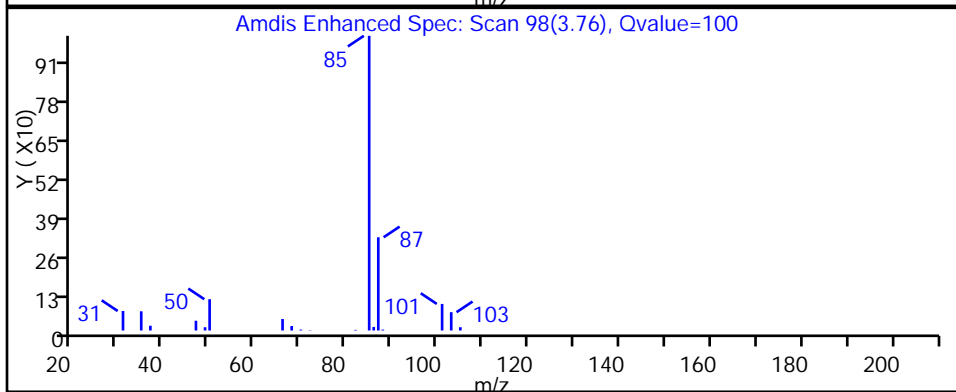
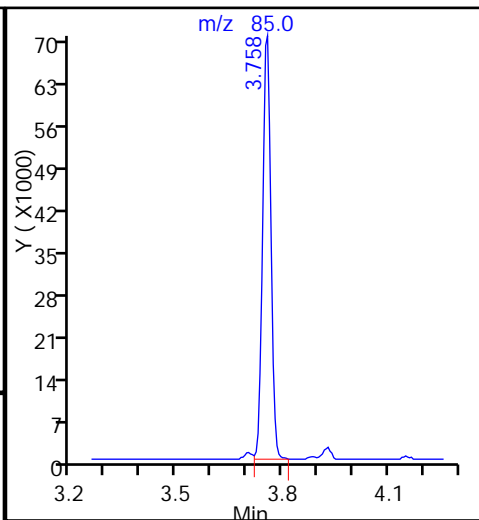
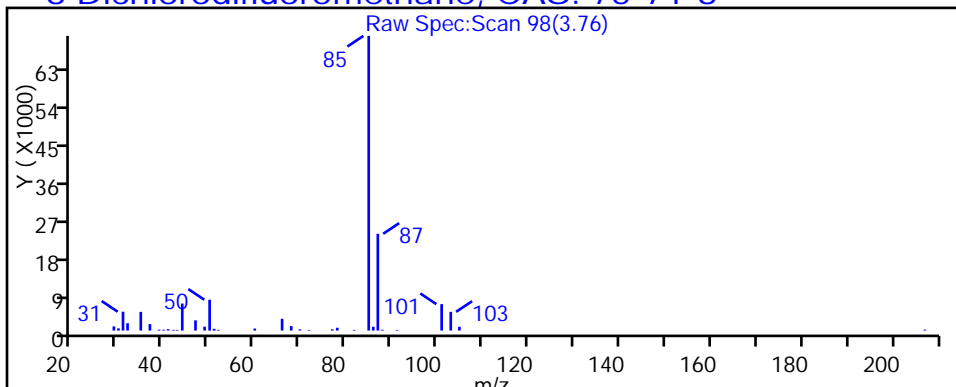
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

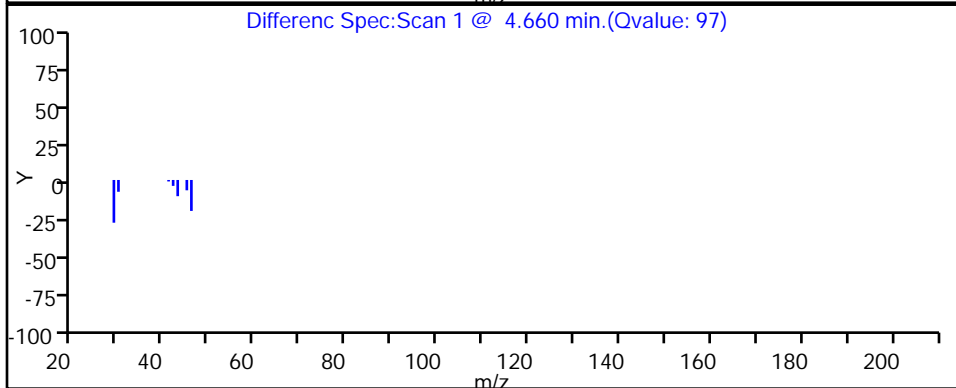
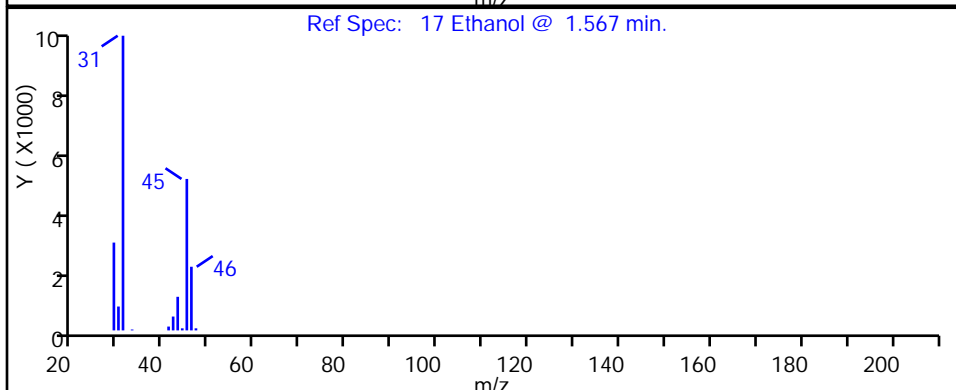
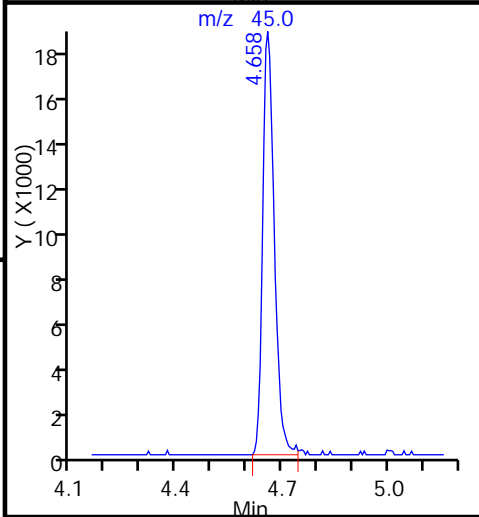
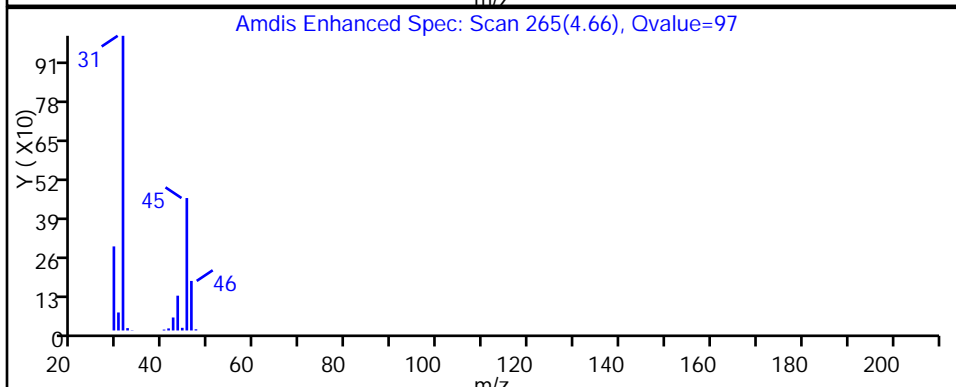
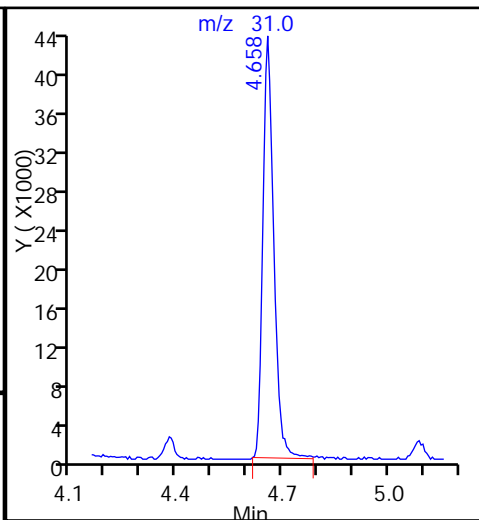
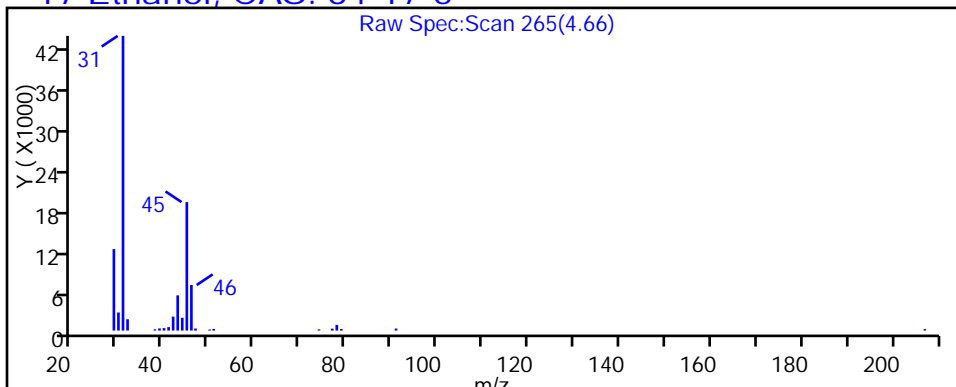
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

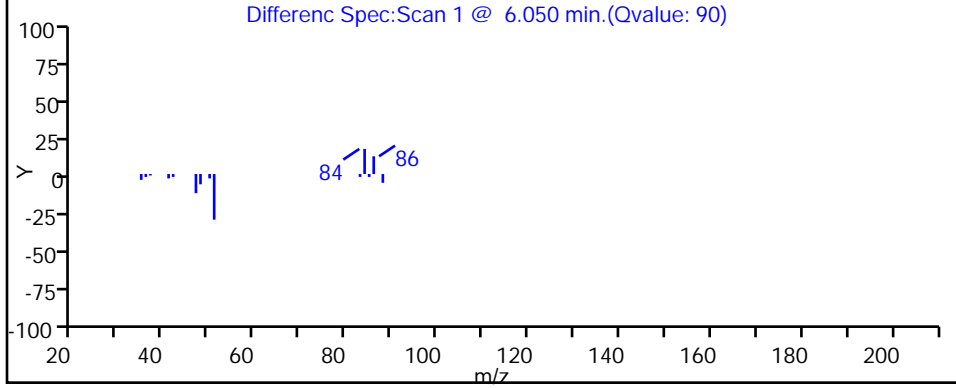
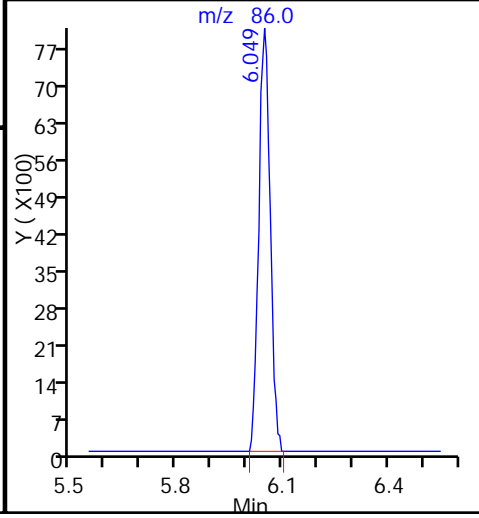
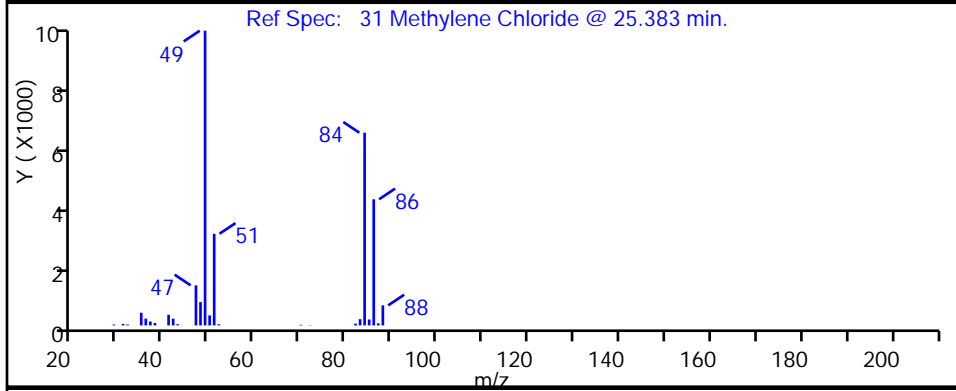
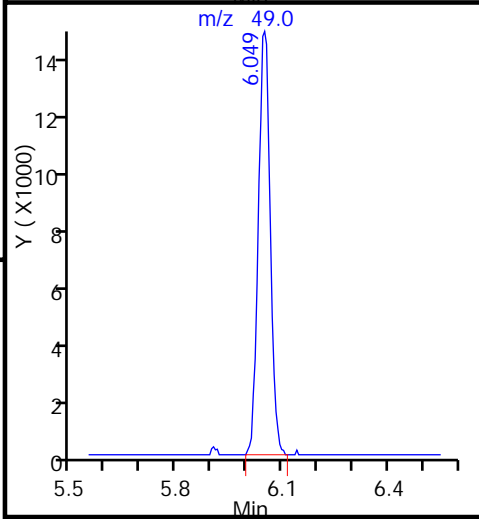
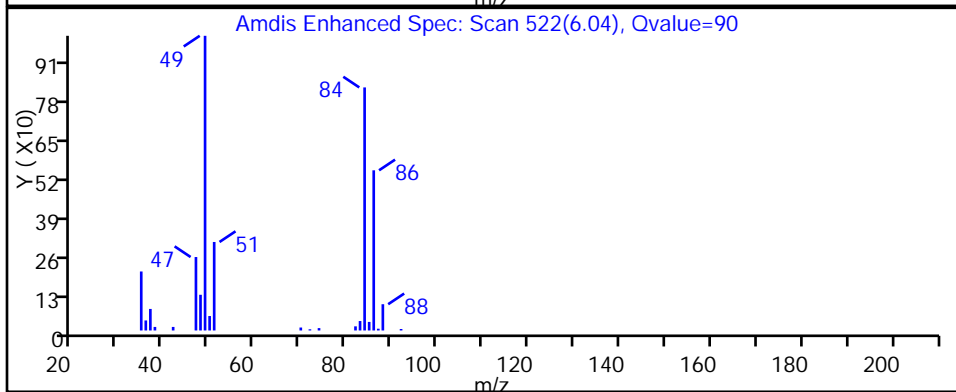
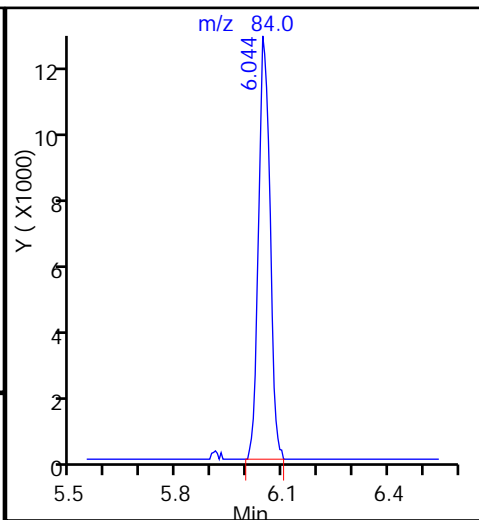
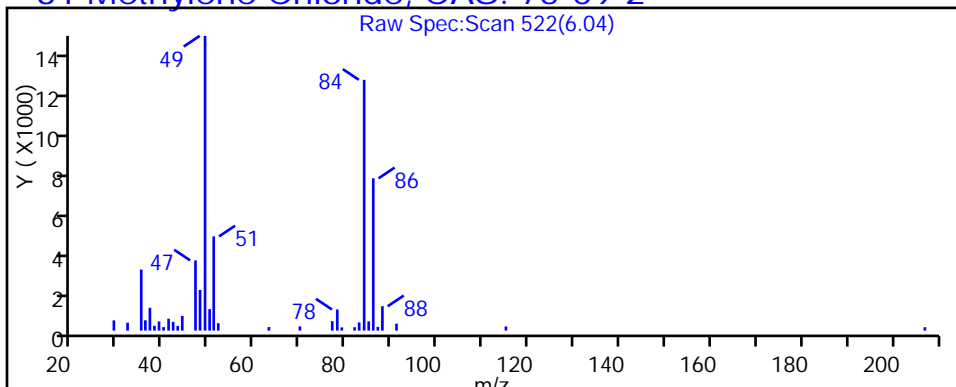
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

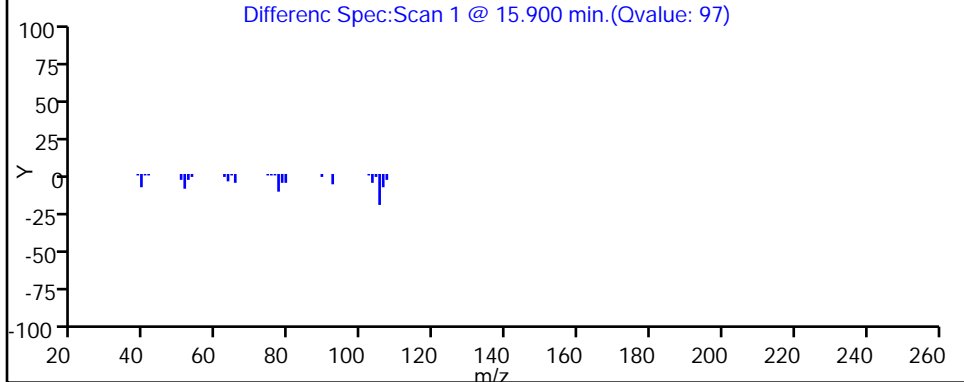
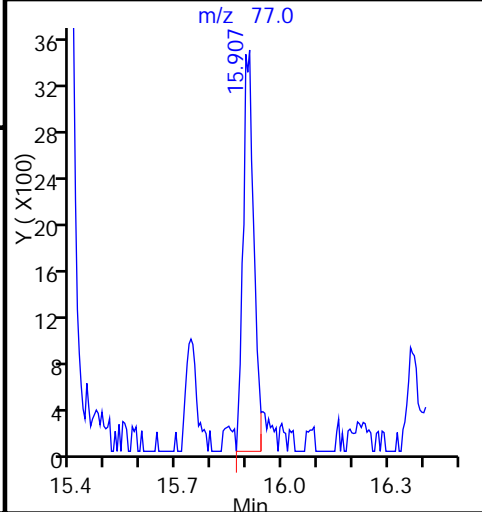
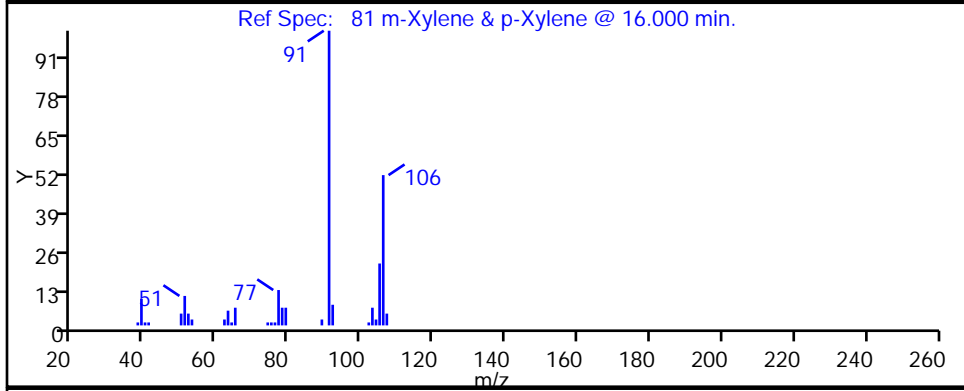
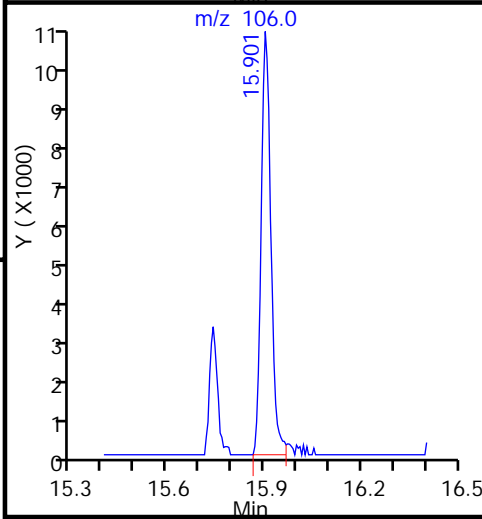
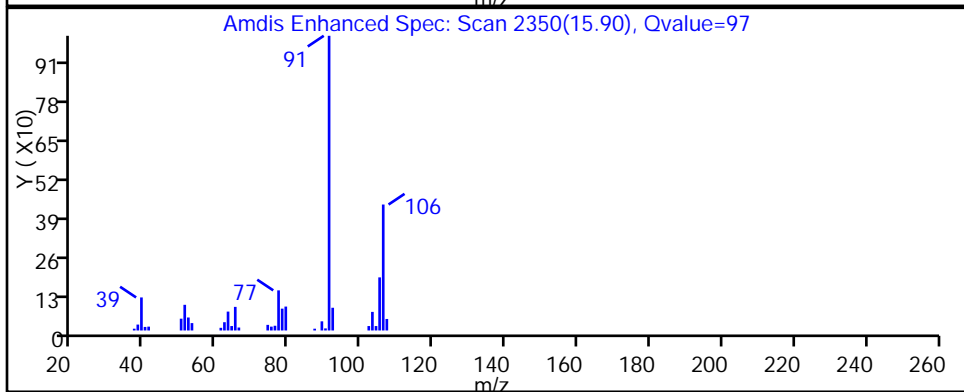
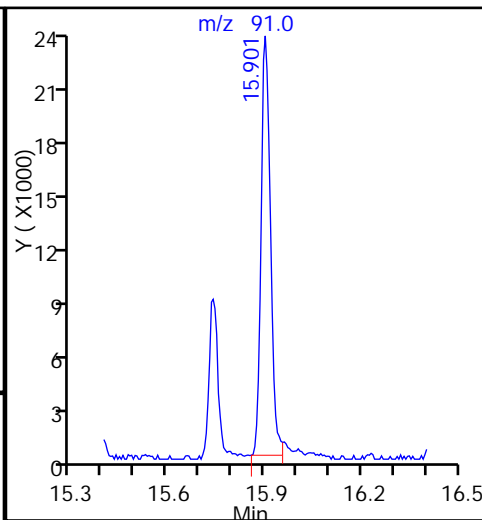
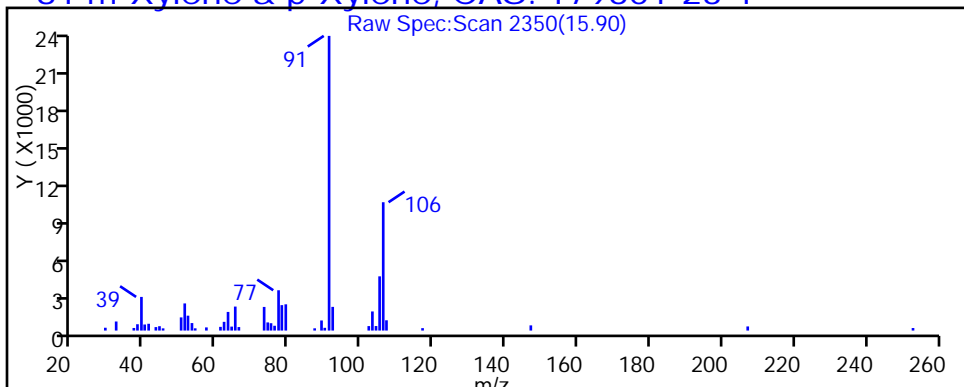
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8 Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

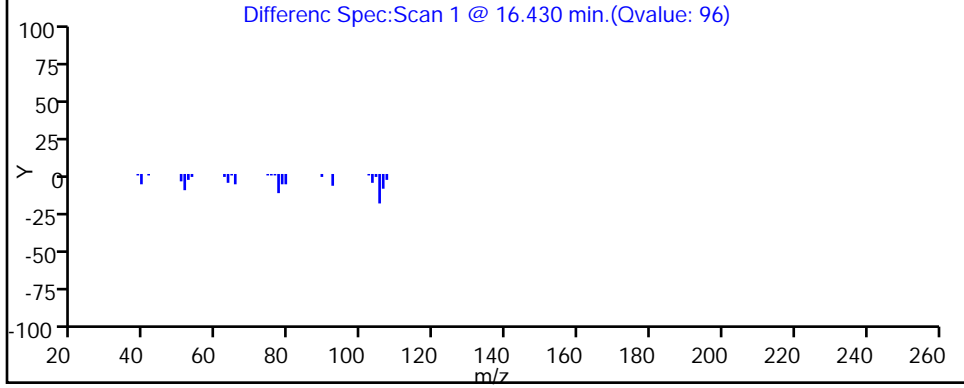
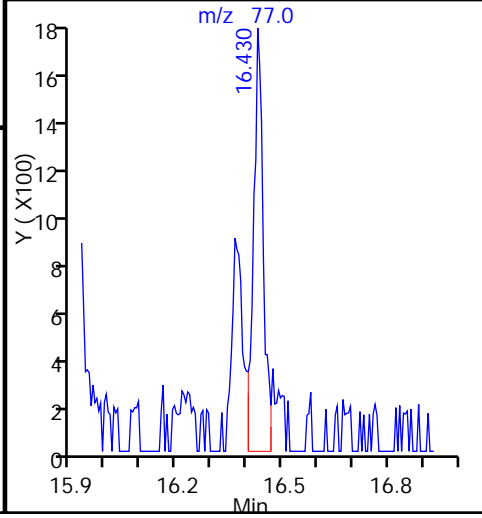
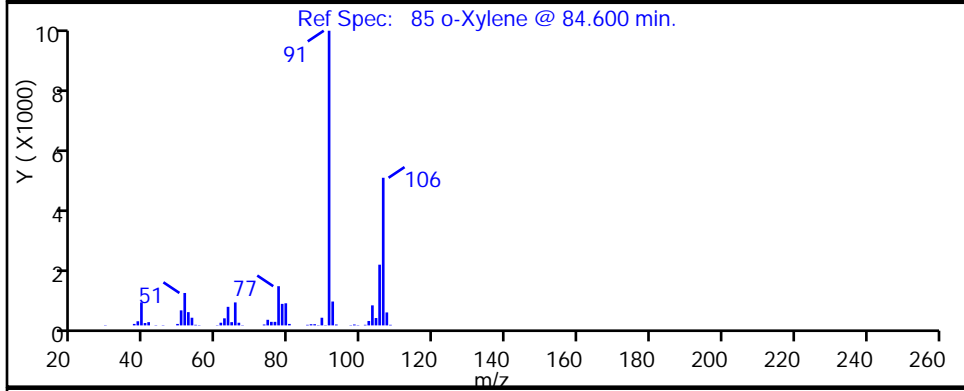
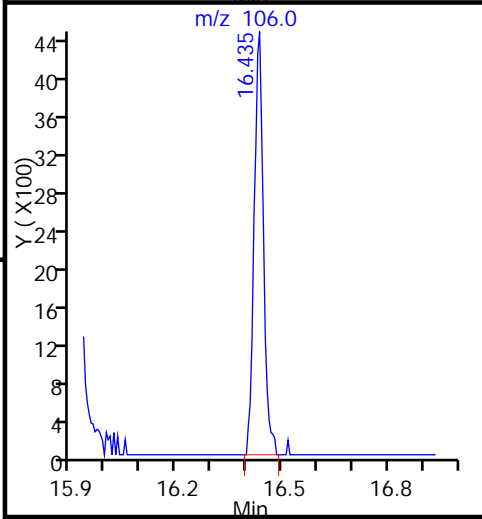
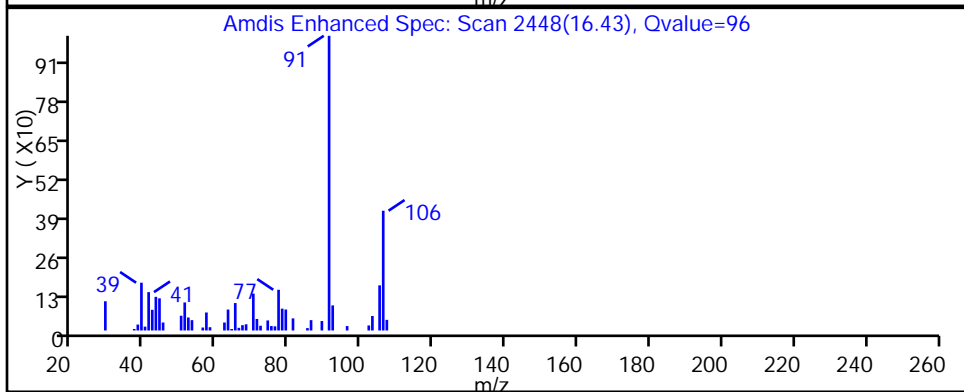
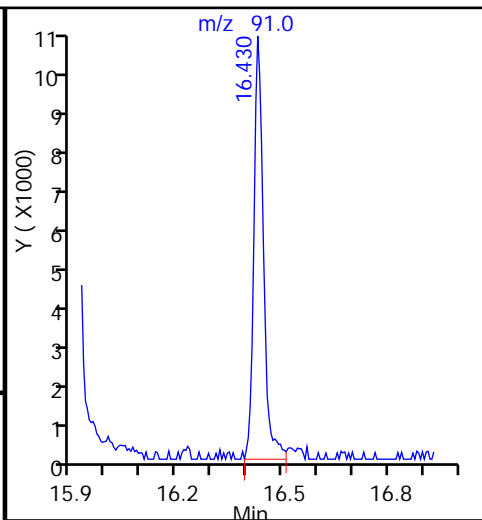
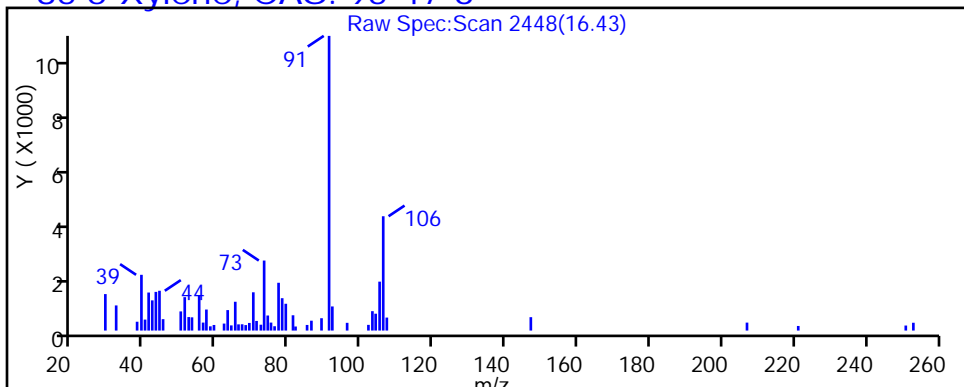
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

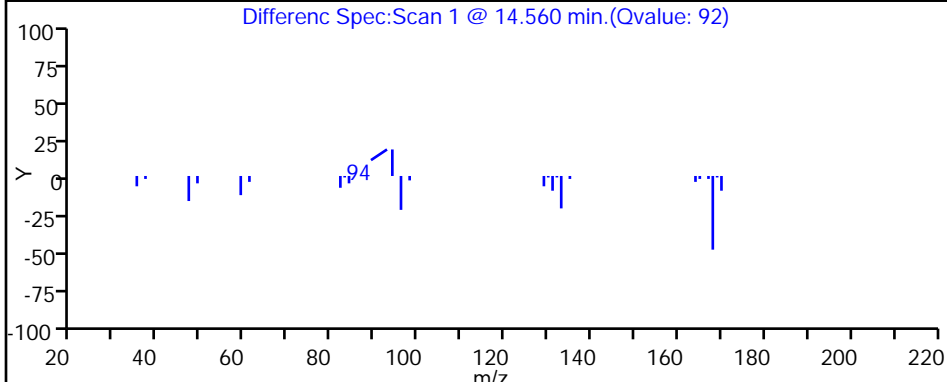
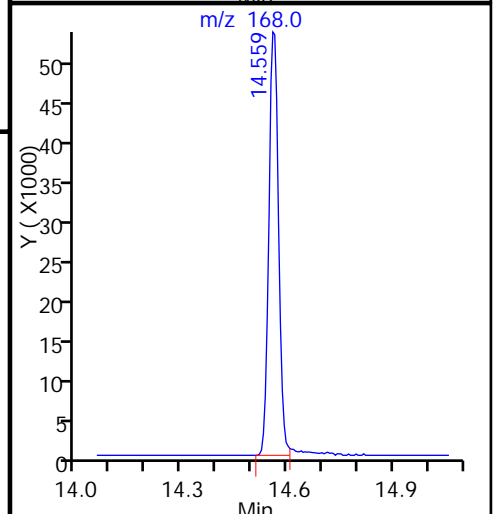
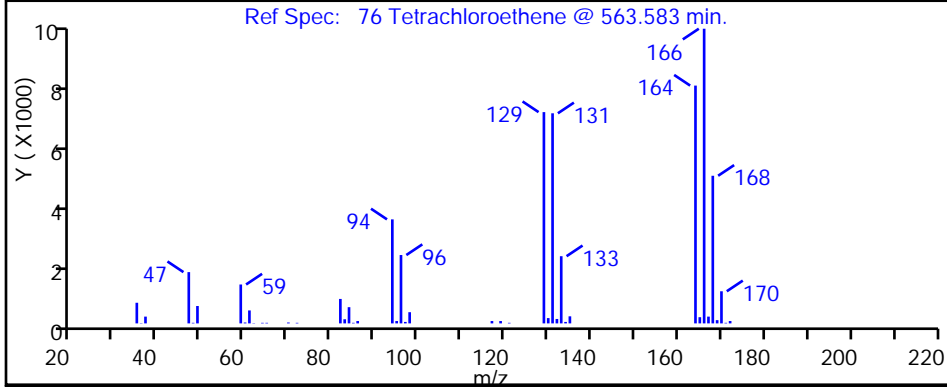
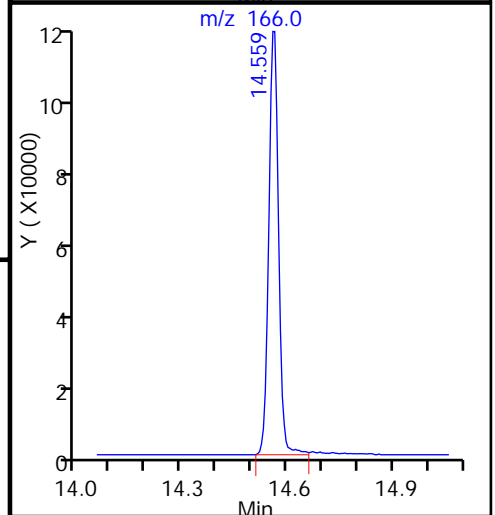
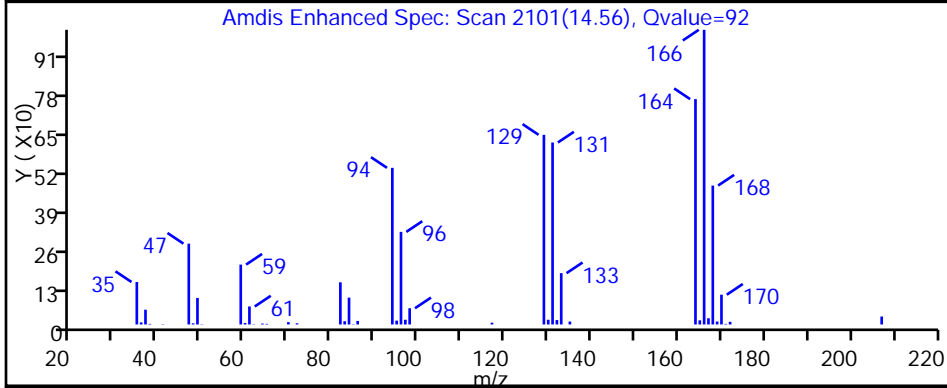
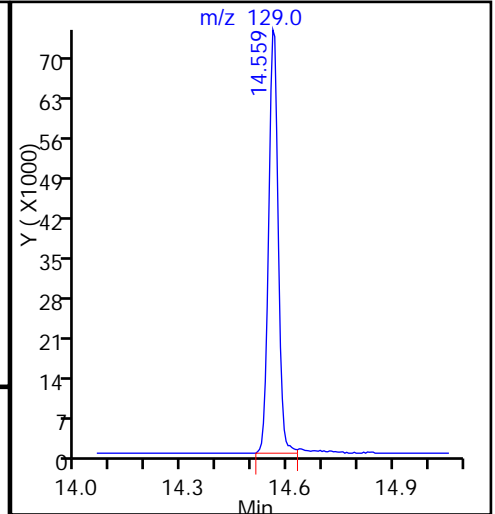
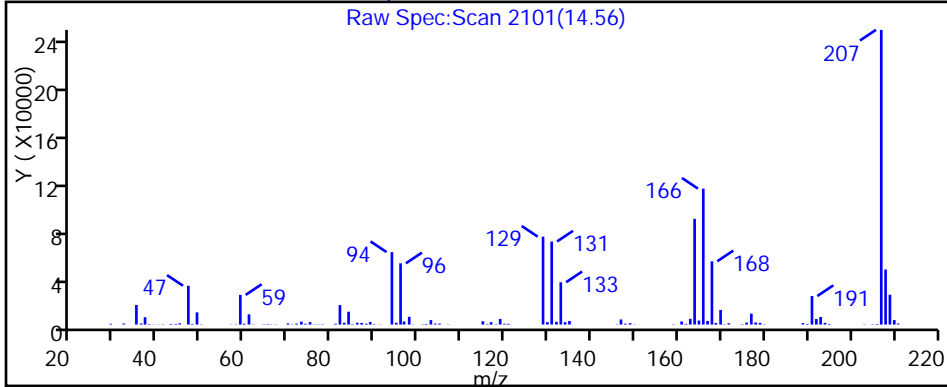
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

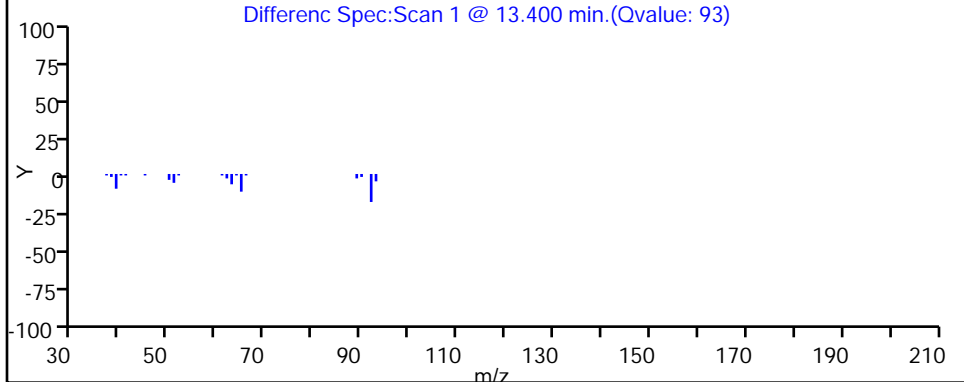
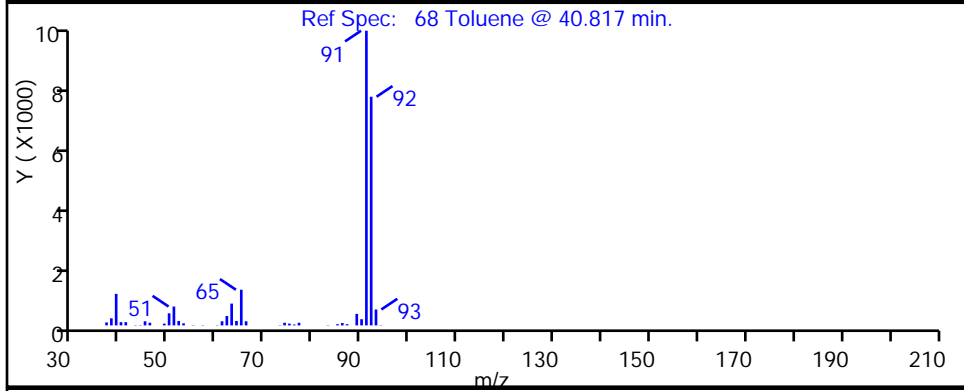
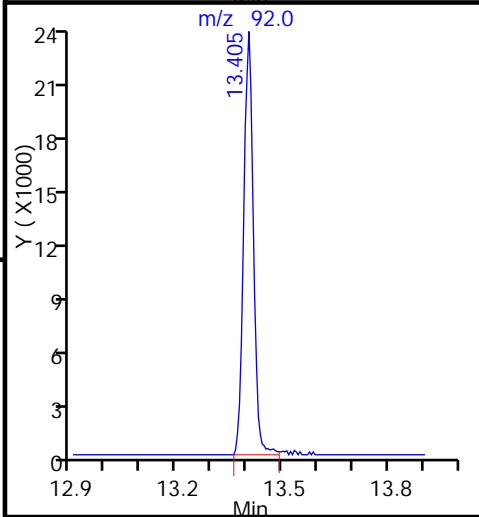
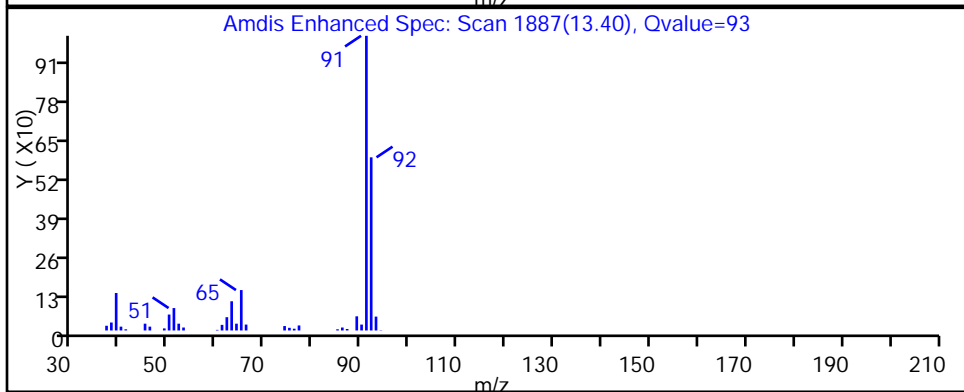
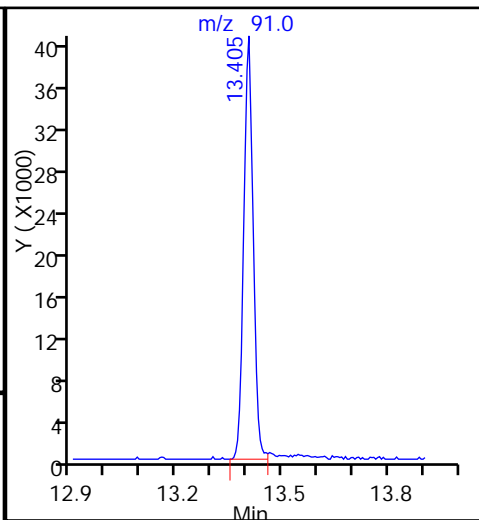
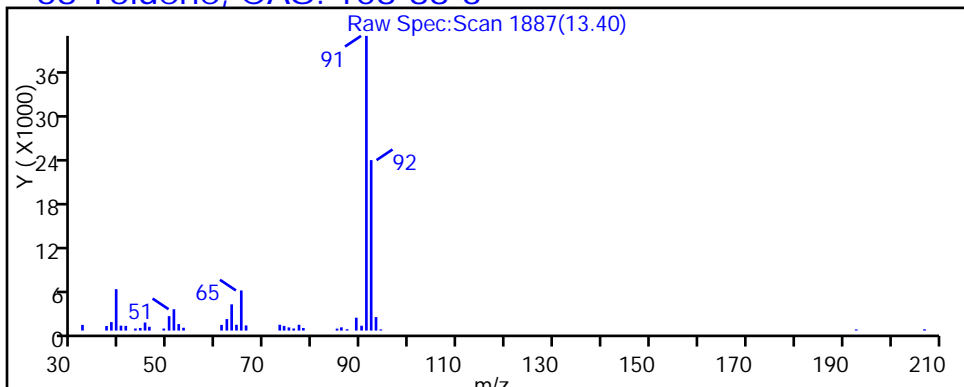
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P108.D

Injection Date: 21-Sep-2016 21:24:30

Instrument ID: MG

Lims ID: 140-5852-A-7

Lab Sample ID: 140-5852-7

Client ID: VP-104

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 12

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

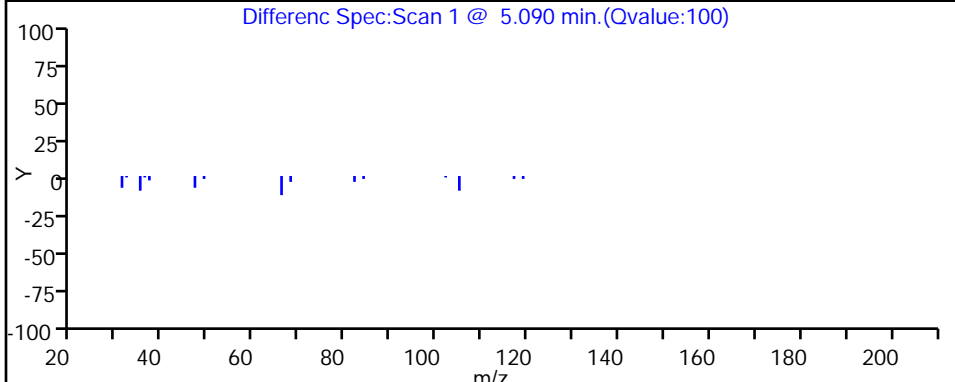
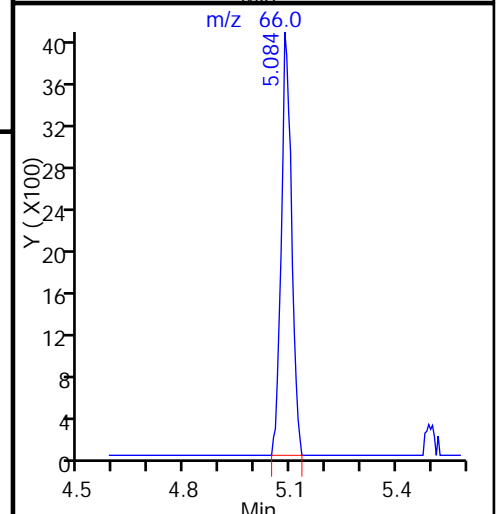
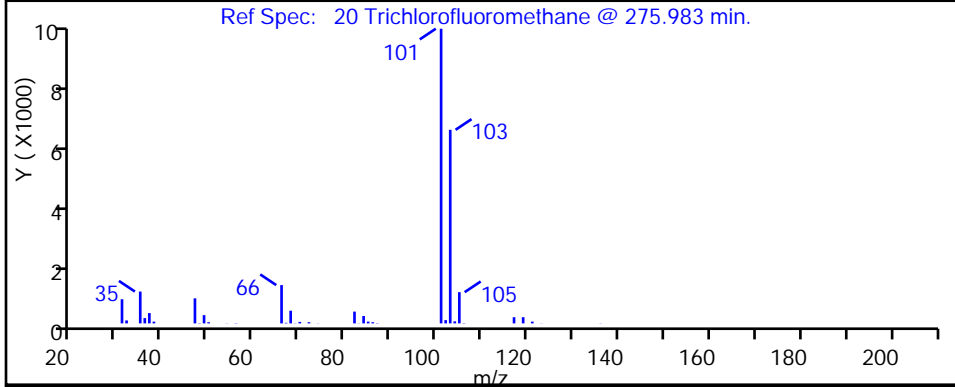
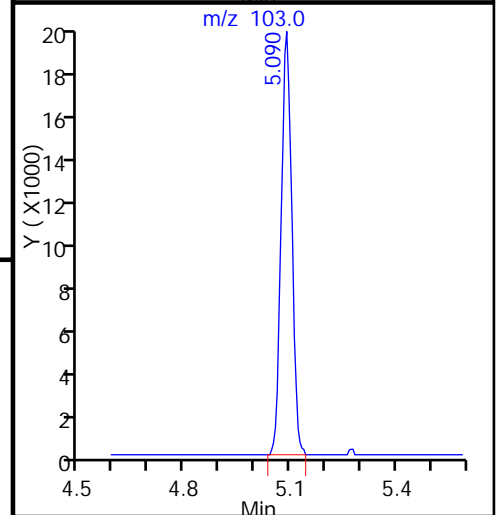
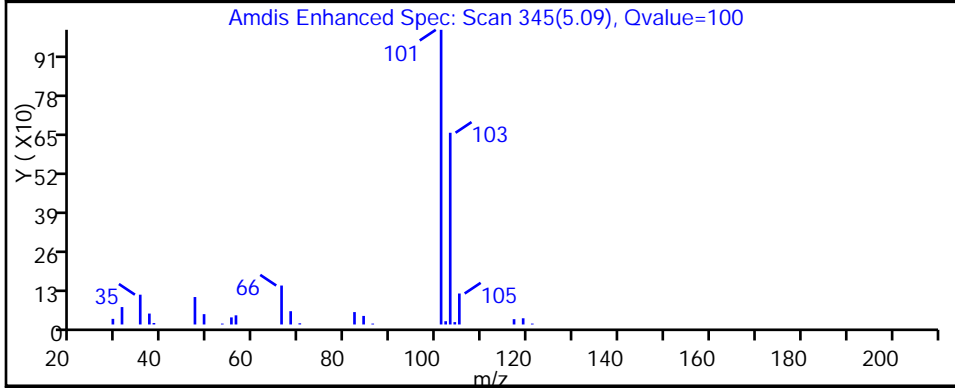
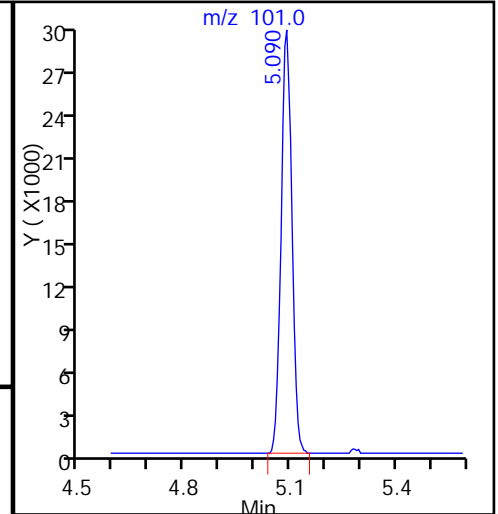
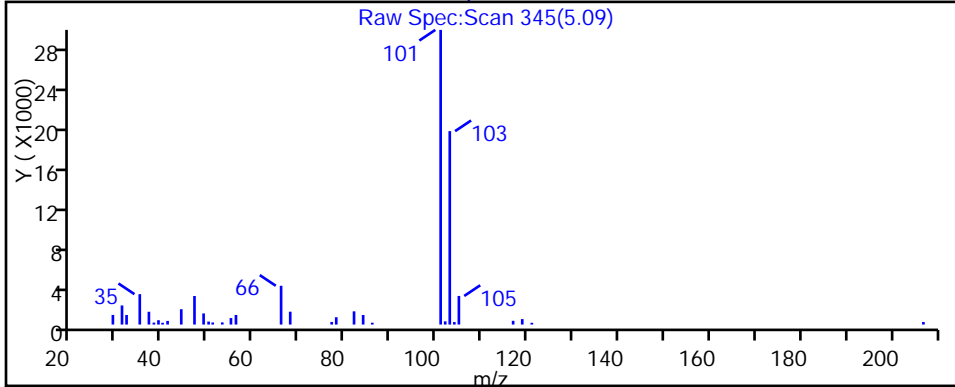
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-102 Lab Sample ID: 140-5852-8
 Matrix: Air Lab File ID: GI21P101.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 16:20
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 16:01
 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.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.40
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.40
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.40
75-34-3	1,1-Dichloroethane	98.96	ND		0.40
75-35-4	1,1-Dichloroethene	96.94	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	120.20	1.3		0.40
106-93-4	1,2-Dibromoethane	187.87	ND		0.40
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.40
107-06-2	1,2-Dichloroethane	98.96	ND		0.40
78-87-5	1,2-Dichloropropane	112.99	ND		0.40
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.40
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.40
106-46-7	1,4-Dichlorobenzene	147.00	14		0.40
123-91-1	1,4-Dioxane	88.11	ND		1.0
540-84-1	2,2,4-Trimethylpentane	114.23	ND		1.0
78-93-3	2-Butanone	72.11	1.6		1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		1.0
71-43-2	Benzene	78.11	0.72		0.40
100-44-7	Benzyl chloride	126.58	ND		0.80
75-27-4	Bromodichloromethane	163.83	ND		0.40
75-25-2	Bromoform	252.75	ND		0.40
74-83-9	Bromomethane	94.94	ND		0.40
56-23-5	Carbon tetrachloride	153.81	ND		0.20
108-90-7	Chlorobenzene	112.56	ND		0.40
75-00-3	Chloroethane	64.52	ND		0.40
67-66-3	Chloroform	119.38	0.47		0.40
74-87-3	Chloromethane	50.49	3.9		1.0
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.40
110-82-7	Cyclohexane	84.16	ND		1.0

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-102 Lab Sample ID: 140-5852-8
 Matrix: Air Lab File ID: GI21P101.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 16:20
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 16:01
 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.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	ND		0.40	
75-71-8	Dichlorodifluoromethane	120.91	0.46		0.40	
64-17-5	Ethanol	46.07	ND	*	10	
100-41-4	Ethylbenzene	106.17	0.58		0.40	
87-68-3	Hexachlorobutadiene	260.76	ND		0.40	
110-54-3	Hexane	86.17	1.2		1.0	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.80	
75-09-2	Methylene Chloride	84.93	ND		1.0	
179601-23-1	m-Xylene & p-Xylene	106.17	2.4		0.40	
95-47-6	o-Xylene	106.17	0.93		0.40	
100-42-5	Styrene	104.15	ND		0.40	
75-65-0	t-Butyl alcohol	74.12	ND		1.6	
127-18-4	Tetrachloroethene	165.83	20		0.40	
108-88-3	Toluene	92.14	2.1		0.60	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.40	
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.40	
79-01-6	Trichloroethene	131.39	ND		0.20	
75-69-4	Trichlorofluoromethane	137.37	ND		0.40	
75-01-4	Vinyl chloride	62.50	ND		0.20	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-102 Lab Sample ID: 140-5852-8
 Matrix: Air Lab File ID: GI21P101.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 16:20
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 16:01
 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.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		2.2
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.7
79-00-5	1,1,2-Trichloroethane	133.41	ND		2.2
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		3.1
75-34-3	1,1-Dichloroethane	98.96	ND		1.6
75-35-4	1,1-Dichloroethene	96.94	ND		1.6
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.0
95-63-6	1,2,4-Trimethylbenzene	120.20	6.3		2.0
106-93-4	1,2-Dibromoethane	187.87	ND		3.1
95-50-1	1,2-Dichlorobenzene	147.00	ND		2.4
107-06-2	1,2-Dichloroethane	98.96	ND		1.6
78-87-5	1,2-Dichloropropane	112.99	ND		1.8
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.8
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		2.0
541-73-1	1,3-Dichlorobenzene	147.00	ND		2.4
106-46-7	1,4-Dichlorobenzene	147.00	86		2.4
123-91-1	1,4-Dioxane	88.11	ND		3.6
540-84-1	2,2,4-Trimethylpentane	114.23	ND		4.7
78-93-3	2-Butanone	72.11	4.8		4.7
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		4.1
71-43-2	Benzene	78.11	2.3		1.3
100-44-7	Benzyl chloride	126.58	ND		4.1
75-27-4	Bromodichloromethane	163.83	ND		2.7
75-25-2	Bromoform	252.75	ND		4.1
74-83-9	Bromomethane	94.94	ND		1.6
56-23-5	Carbon tetrachloride	153.81	ND		1.3
108-90-7	Chlorobenzene	112.56	ND		1.8
75-00-3	Chloroethane	64.52	ND		1.1
67-66-3	Chloroform	119.38	2.3		2.0
74-87-3	Chloromethane	50.49	8.1		2.1
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.6
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.8
110-82-7	Cyclohexane	84.16	ND		3.4

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-102 Lab Sample ID: 140-5852-8
 Matrix: Air Lab File ID: GI21P101.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 16:20
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 16:01
 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.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		3.4
75-71-8	Dichlorodifluoromethane	120.91	2.3		2.0
64-17-5	Ethanol	46.07	ND	*	19
100-41-4	Ethylbenzene	106.17	2.5		1.7
87-68-3	Hexachlorobutadiene	260.76	ND		4.3
110-54-3	Hexane	86.17	4.1		3.5
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.9
75-09-2	Methylene Chloride	84.93	ND		3.5
179601-23-1	m-Xylene & p-Xylene	106.17	10		1.7
95-47-6	o-Xylene	106.17	4.0		1.7
100-42-5	Styrene	104.15	ND		1.7
75-65-0	t-Butyl alcohol	74.12	ND		4.9
127-18-4	Tetrachloroethene	165.83	140		2.7
108-88-3	Toluene	92.14	7.9		2.3
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.6
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.8
79-01-6	Trichloroethene	131.39	ND		1.1
75-69-4	Trichlorofluoromethane	137.37	ND		2.2
75-01-4	Vinyl chloride	62.50	ND		0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D
 Lims ID: 140-5852-A-8
 Client ID: VP-102
 Sample Type: Client
 Inject. Date: 21-Sep-2016 16:01:30 ALS Bottle#: 1 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-005
 Misc. Info.: 140-5852-a-8
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:38:50 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 14:38:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.460	8.454	0.006	91	229746	4.00	
* 2 1,4-Difluorobenzene	114	10.617	10.617	0.000	96	1156125	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.394	15.394	0.000	92	1062088	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	91	819081	4.42	
8 Dichlorodifluoromethane	85	3.763	3.758	0.005	99	18125	0.0917	
9 Chloromethane	52	3.925	3.919	0.006	99	17547	0.7843	M
15 Bromomethane	94	4.453	4.442	0.011	48	877	0.0143	
17 Ethanol	31	4.691	4.663	0.028	96	40047	1.22	
20 Trichlorofluoromethane	101	5.100	5.095	0.005	99	11127	0.0599	
29 2-Methyl-2-propanol	59	5.898	5.834	0.064	73	9603	0.0957	
30 1,1,2-Trichloro-1,2,2-trif	101	5.925	5.909	0.016	45	1542	0.0136	
31 Methylene Chloride	84	6.066	6.055	0.011	90	5728	0.1024	
39 2-Butanone (MEK)	72	7.743	7.721	0.022	99	13536	0.3264	
40 Hexane	56	7.780	7.775	0.005	79	13983	0.2303	
44 Chloroform	83	8.481	8.476	0.005	93	14427	0.0940	
49 Benzene	78	10.061	10.056	0.005	97	30459	0.1435	
50 Cyclohexane	69	10.072	10.067	0.005	63	1703	0.0469	
56 Isooctane	57	10.859	10.854	0.005	93	8770	0.0219	
59 Trichloroethene	130	11.334	11.334	0.000	88	2576	0.0241	
65 4-Methyl-2-pentanone (MIBK	43	12.542	12.520	0.022	93	12162	0.0258	
68 Toluene	91	13.410	13.405	0.006	93	96778	0.4169	
76 Tetrachloroethene	129	14.564	14.564	0.000	91	377399	4.07	
79 Ethylbenzene	91	15.745	15.739	0.006	99	35656	0.1159	
81 m-Xylene & p-Xylene	91	15.907	15.907	0.000	97	113612	0.4774	
84 Styrene	104	16.376	16.370	0.006	94	6758	0.0429	
85 o-Xylene	91	16.435	16.435	0.000	97	47285	0.1852	
92 1,3,5-Trimethylbenzene	120	17.821	17.821	0.000	91	9150	0.0563	
96 1,2,4-Trimethylbenzene	105	18.269	18.268	0.000	98	76845	0.2574	
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	92	526859	2.85	

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\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Worklist Smp#: 5

Client ID: VP-102

Purge Vol: 500.000 mL

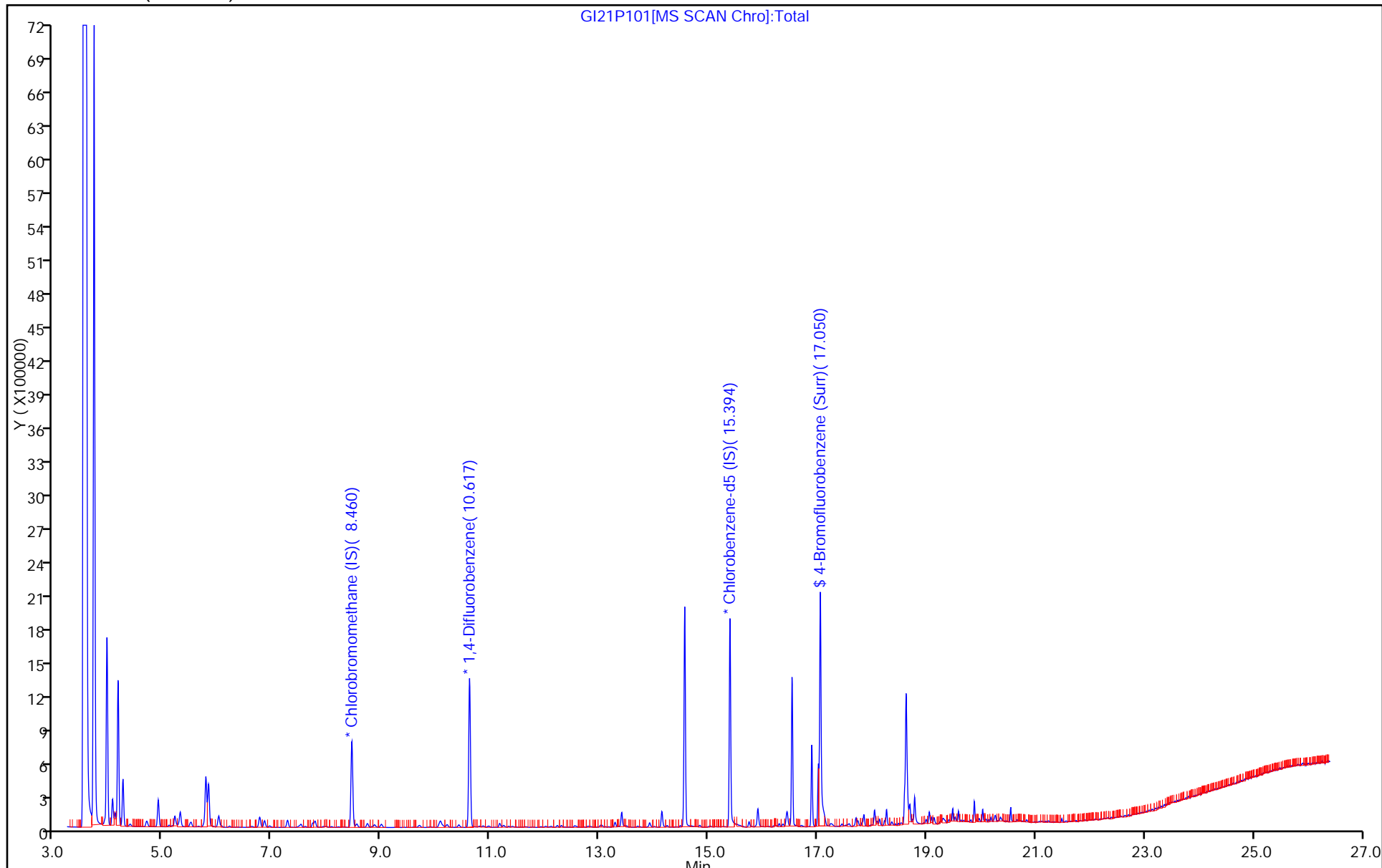
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D
 Lims ID: 140-5852-A-8
 Client ID: VP-102
 Sample Type: Client
 Inject. Date: 21-Sep-2016 16:01:30 ALS Bottle#: 1 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-005
 Misc. Info.: 140-5852-a-8
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:38:50 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 14:38:50

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.42	110.45

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

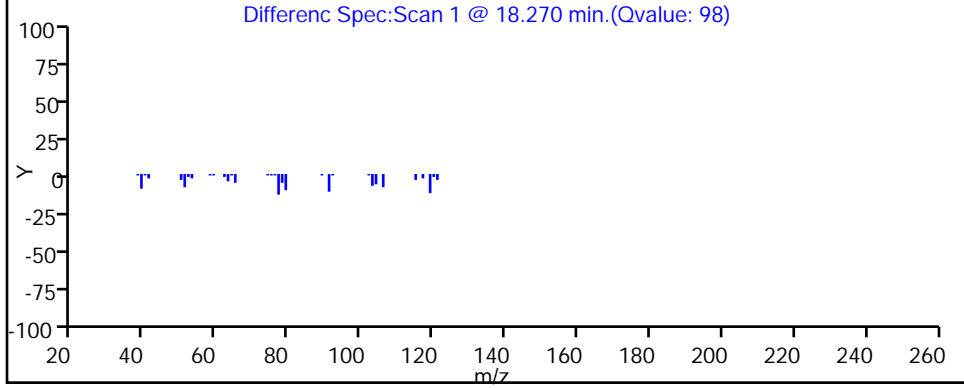
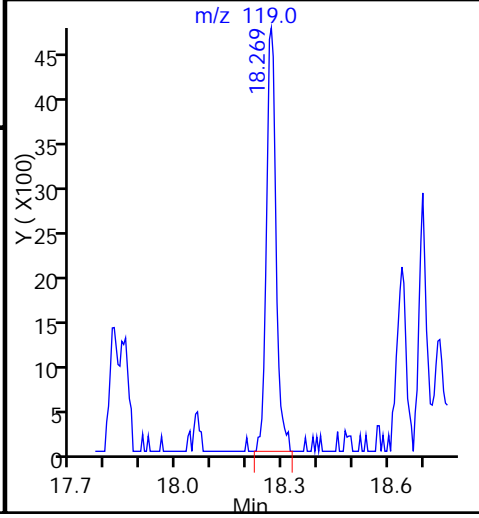
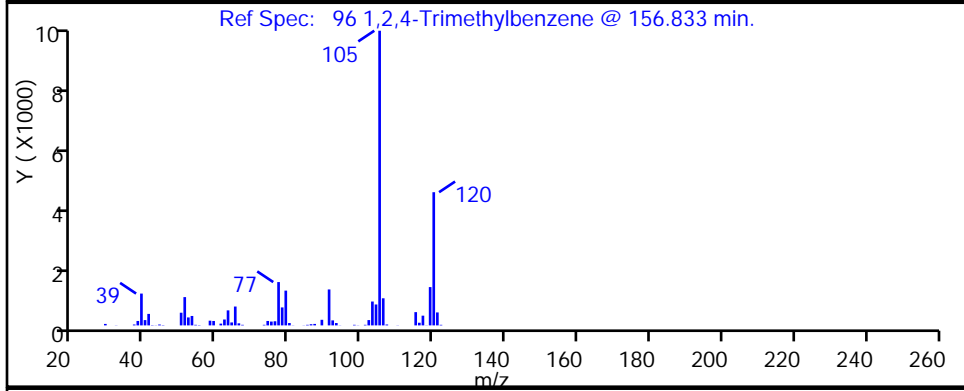
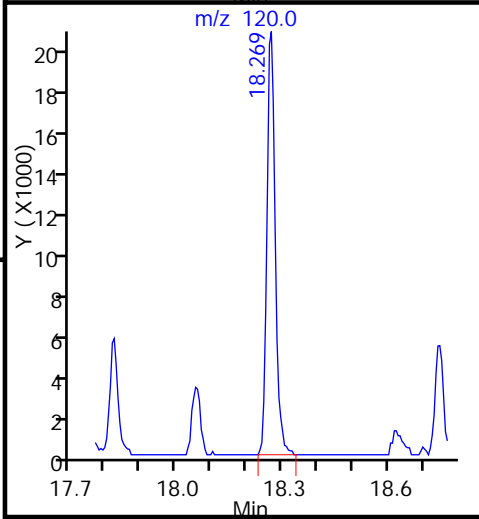
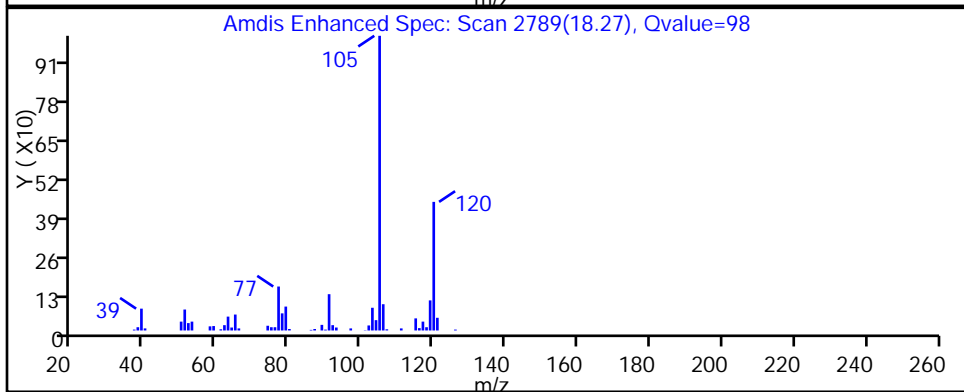
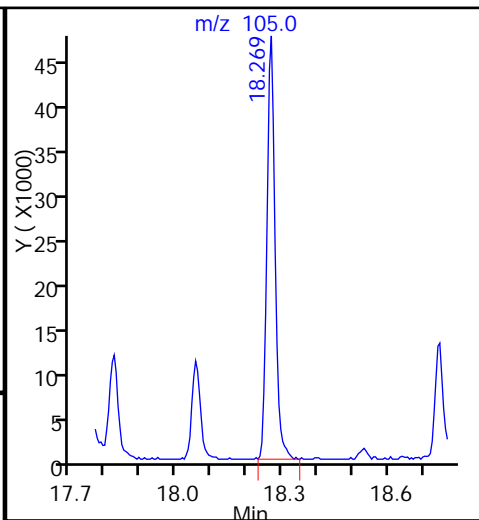
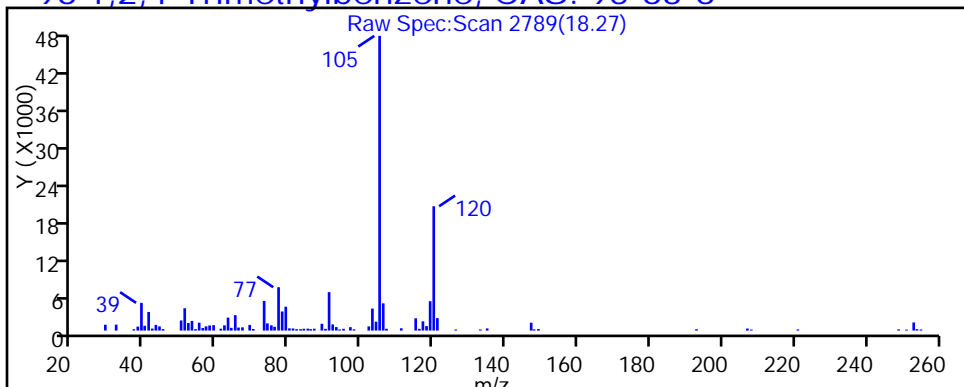
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

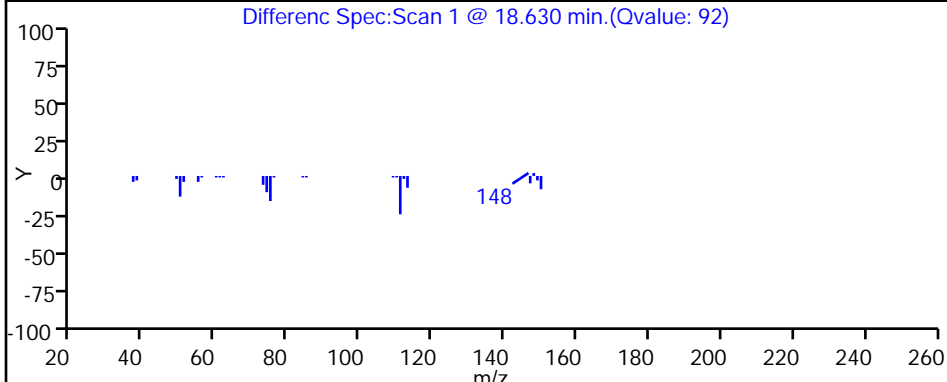
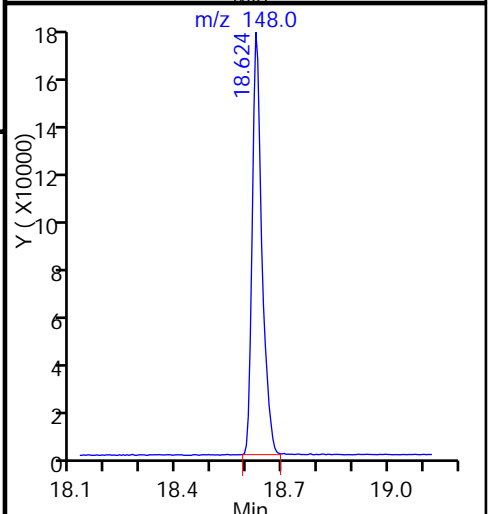
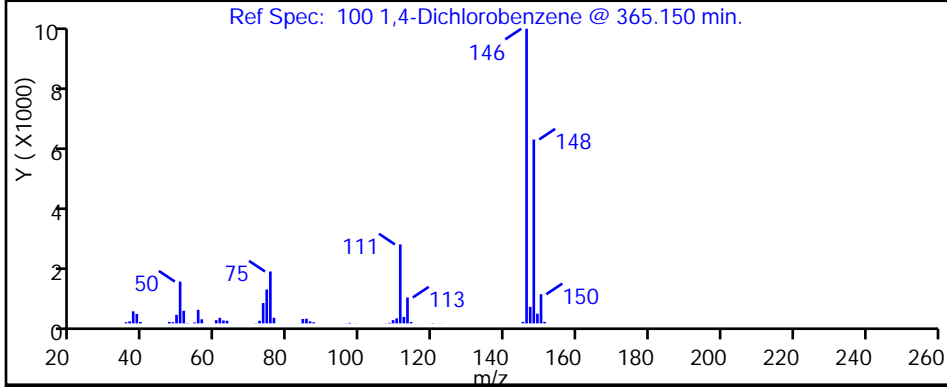
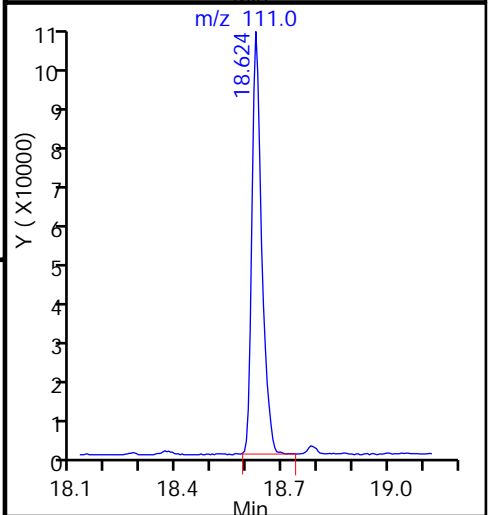
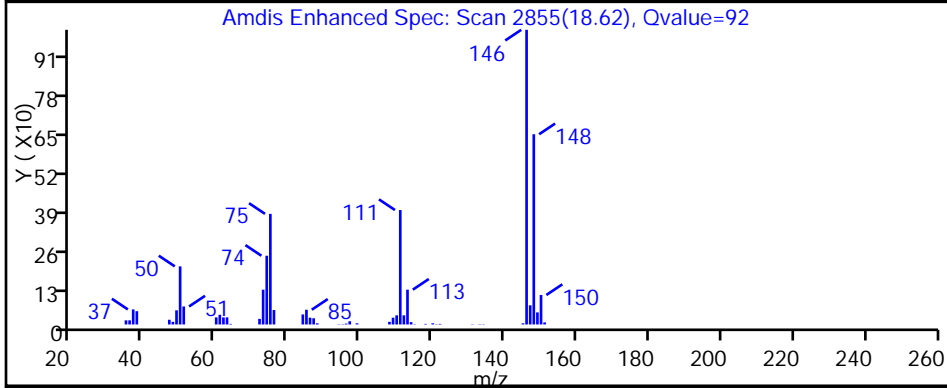
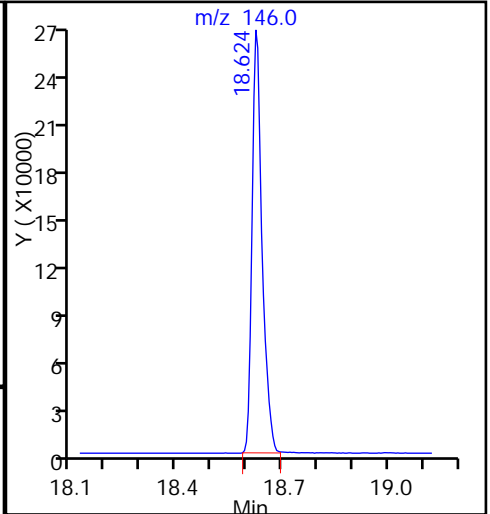
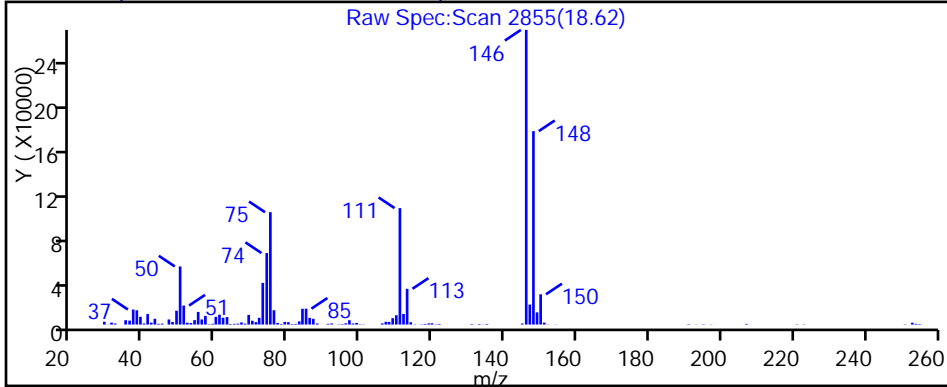
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

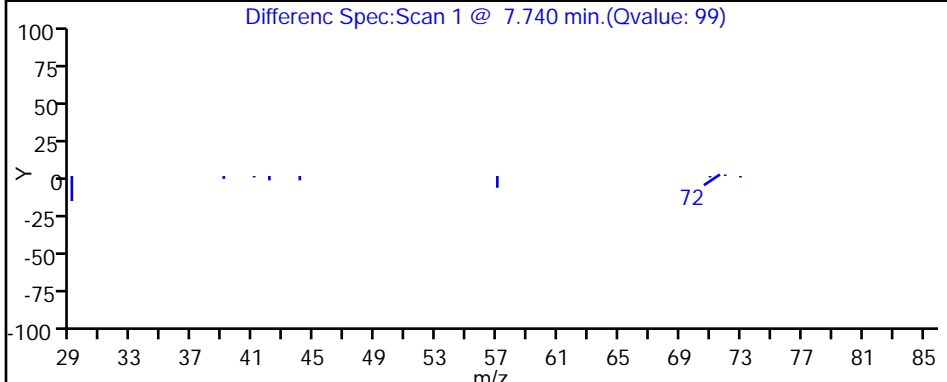
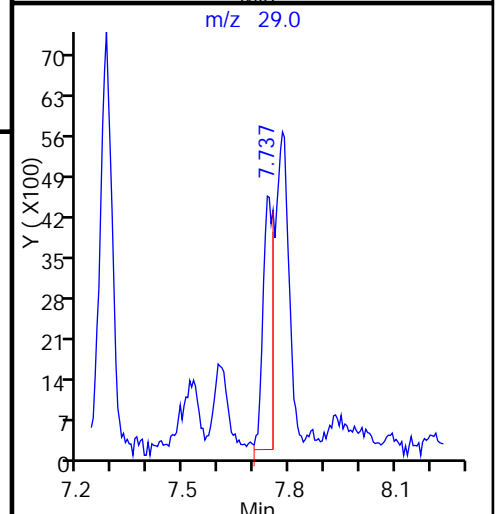
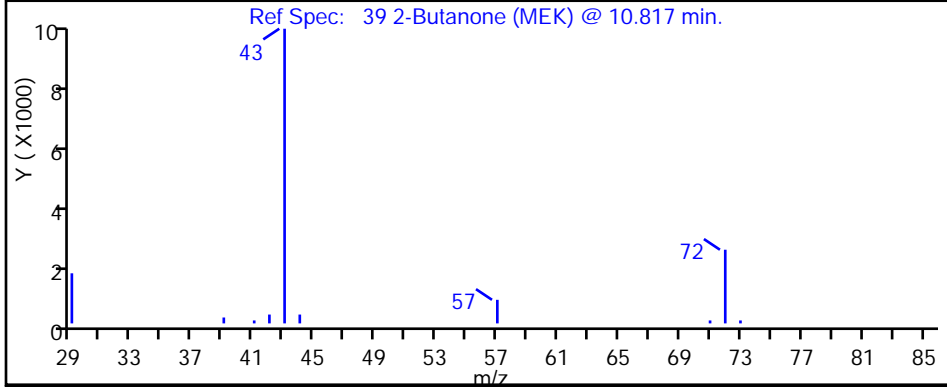
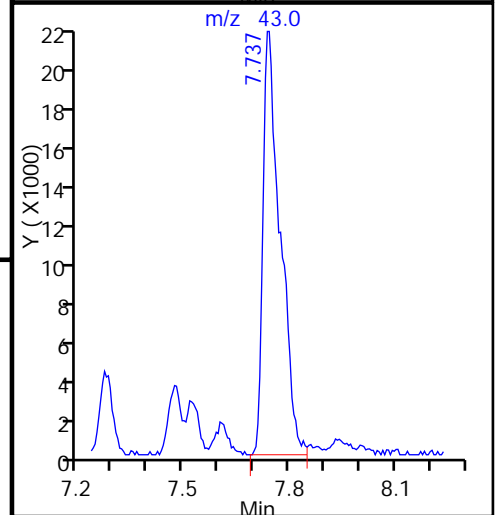
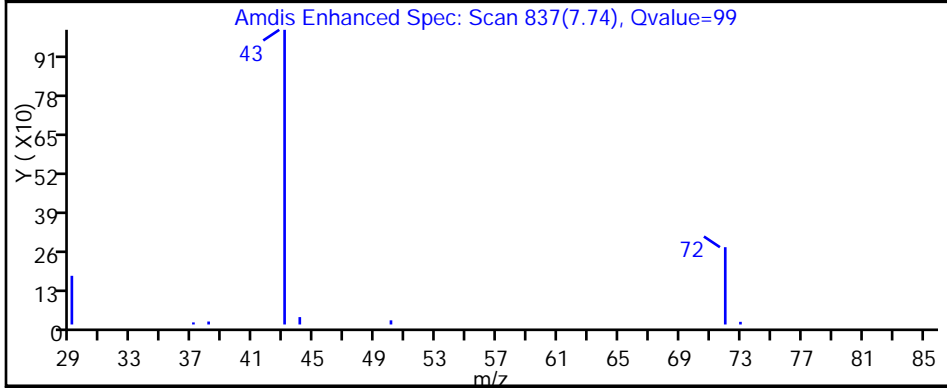
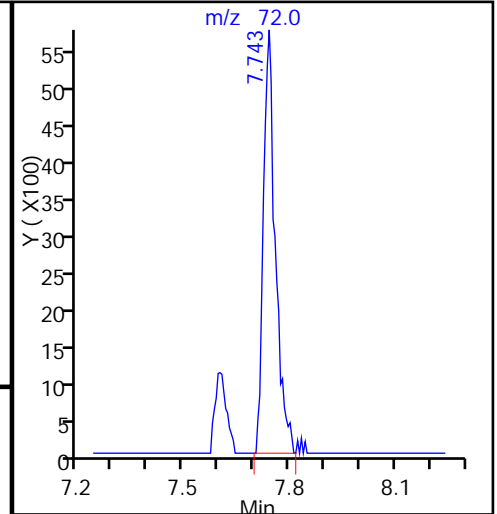
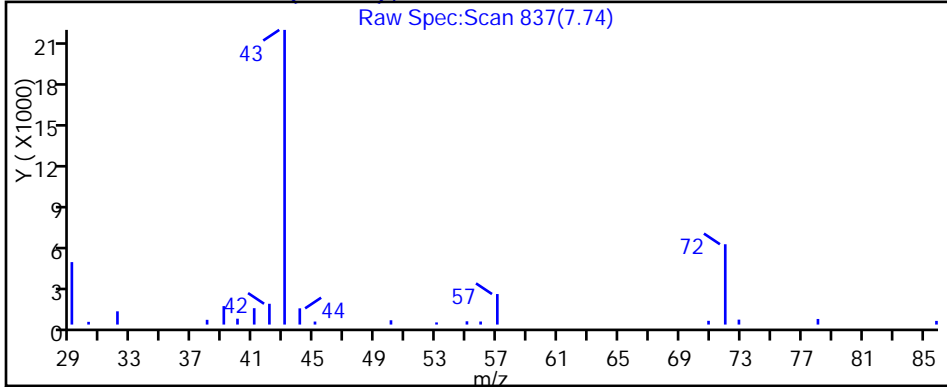
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

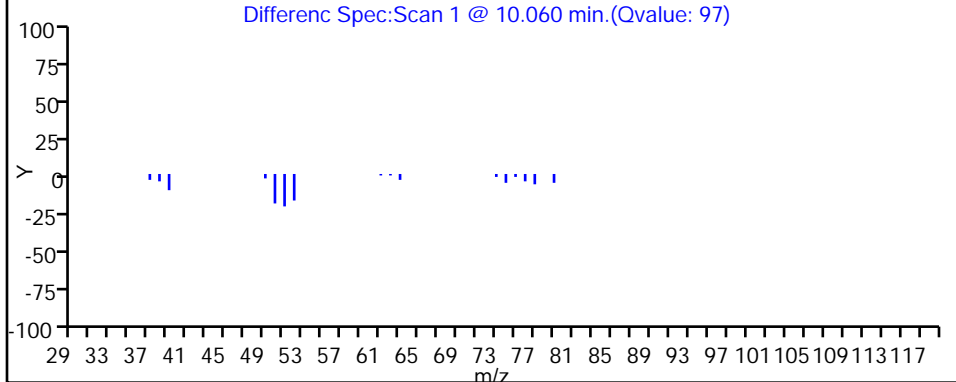
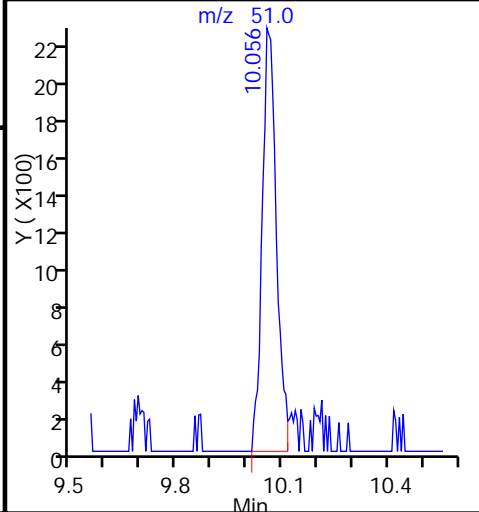
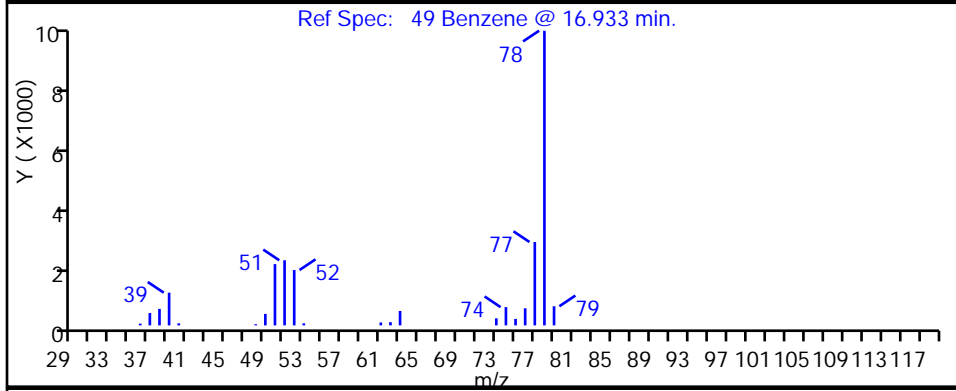
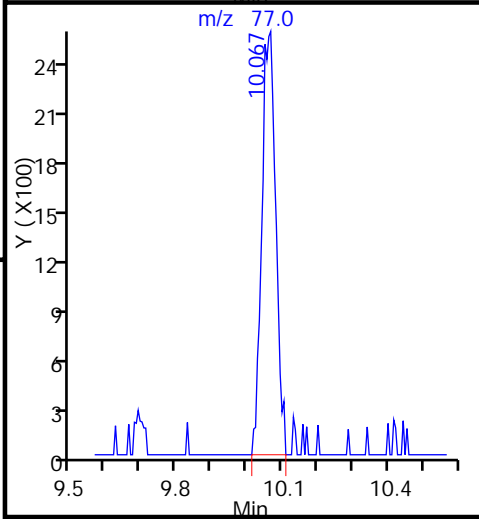
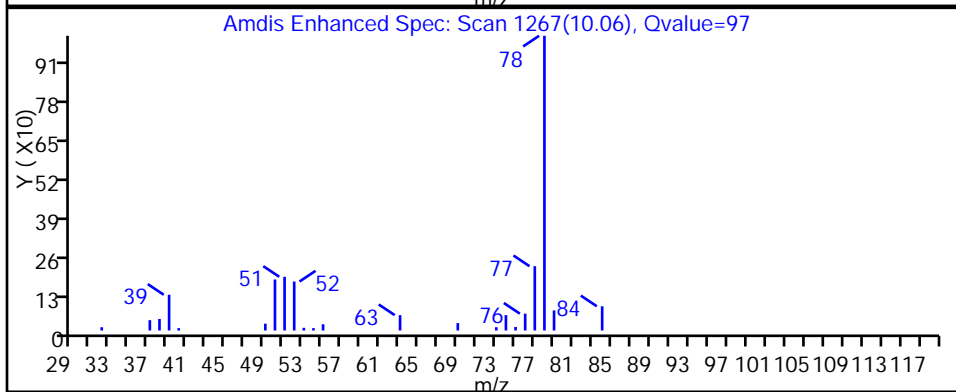
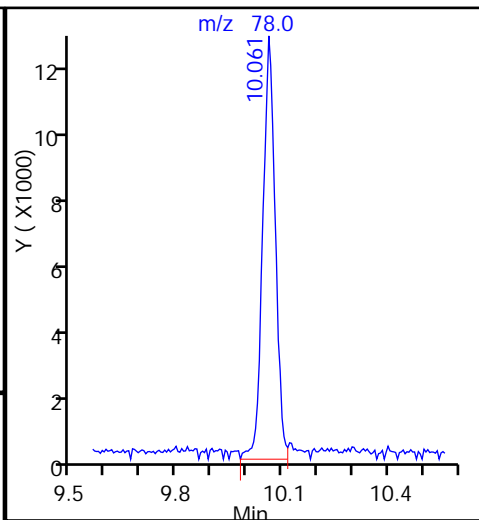
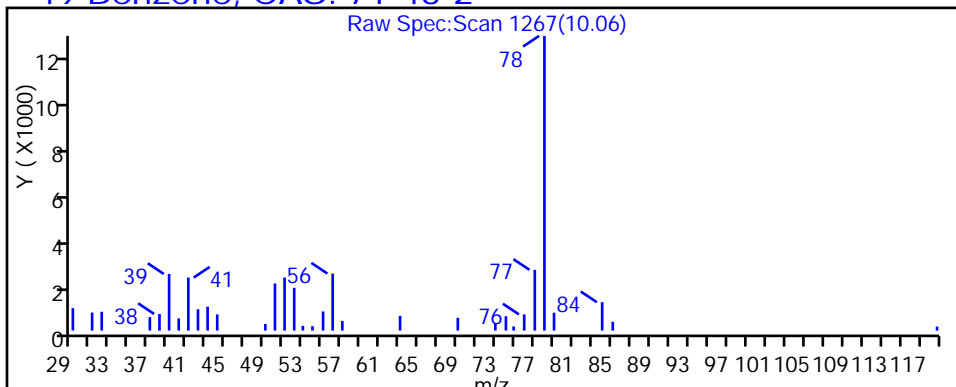
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

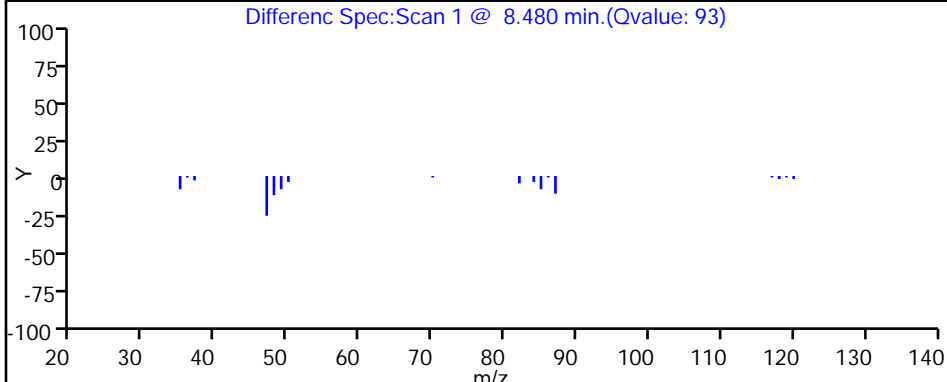
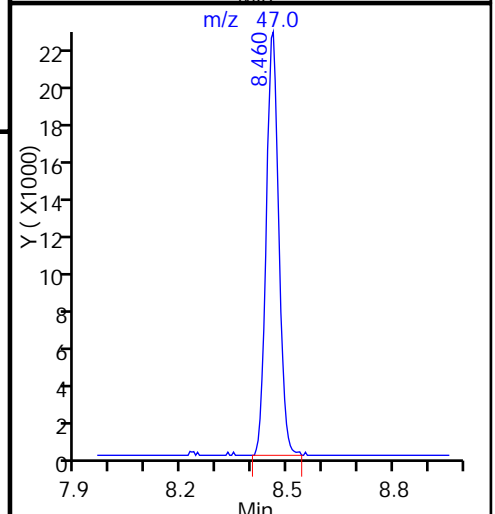
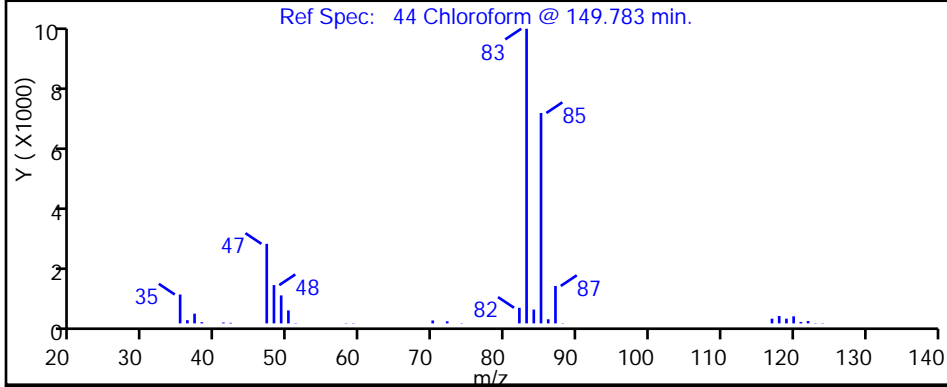
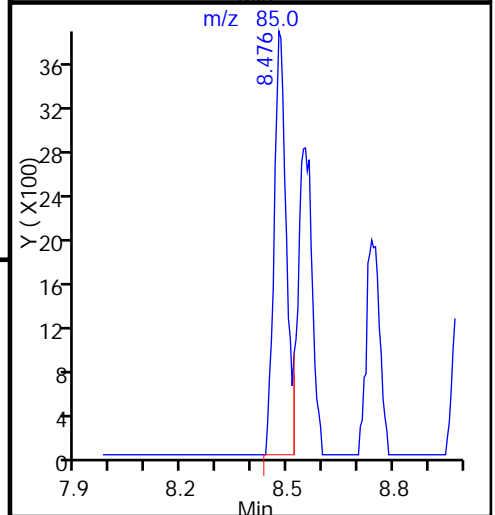
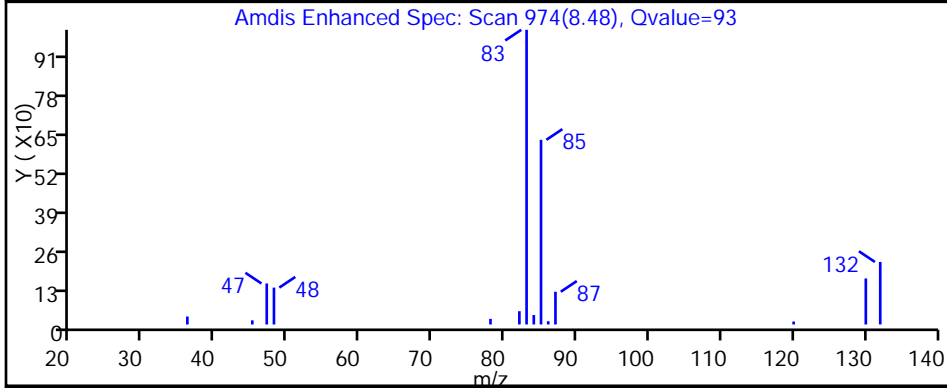
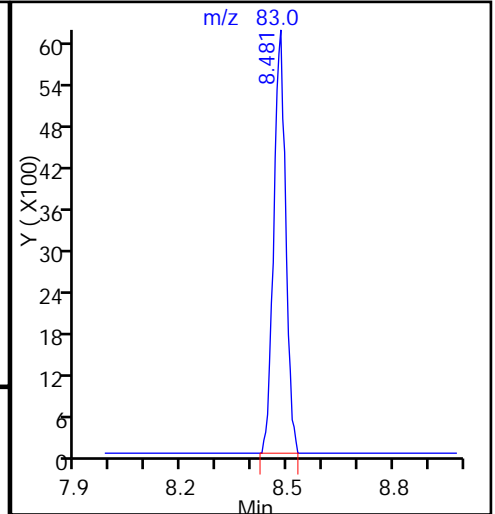
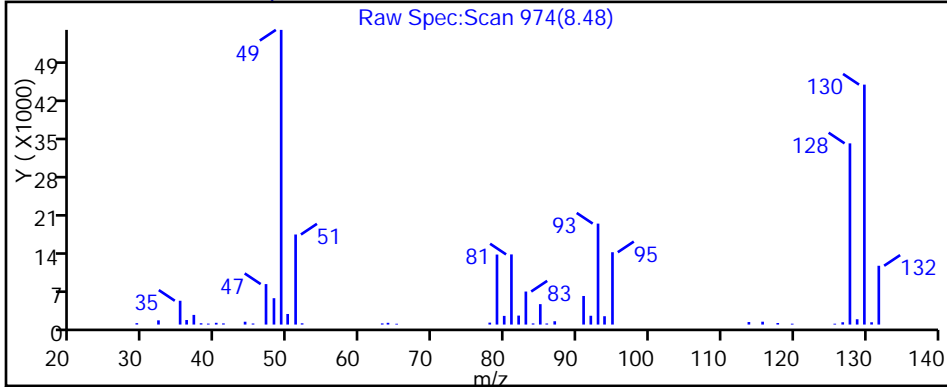
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

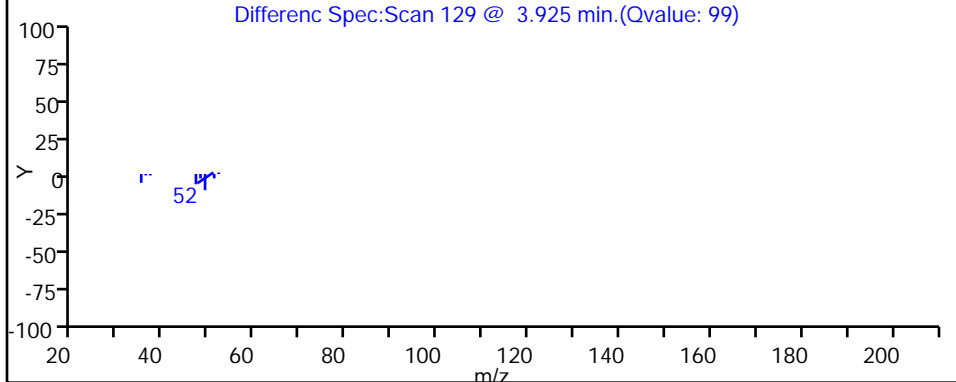
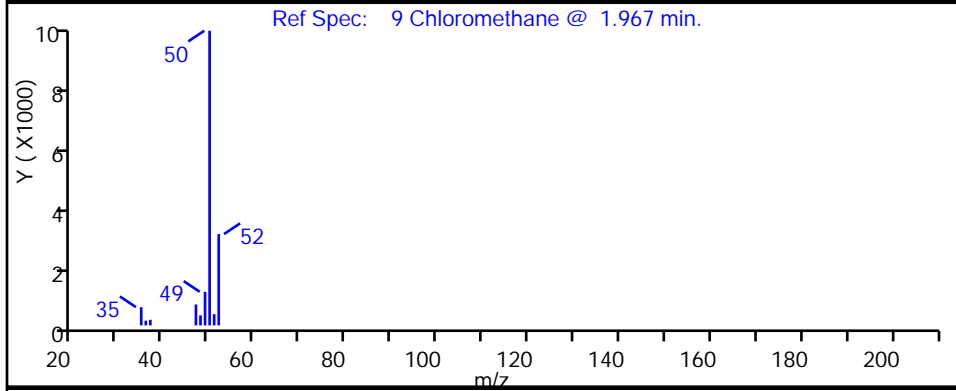
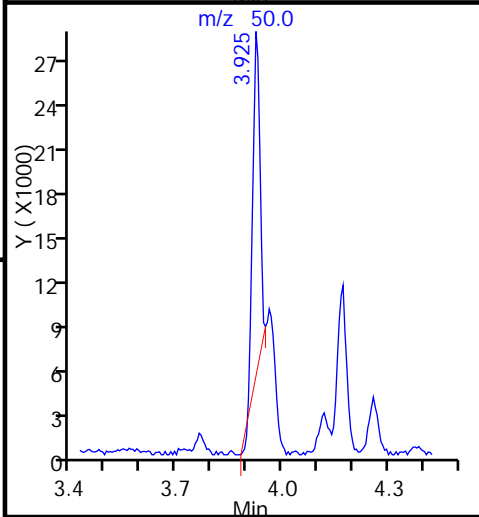
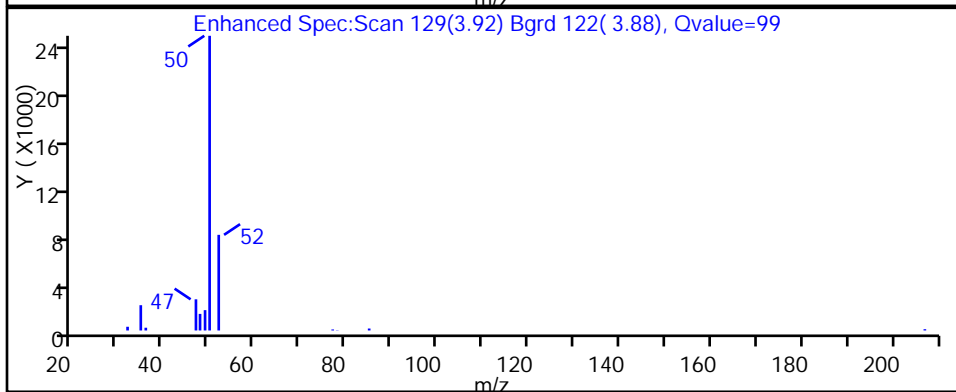
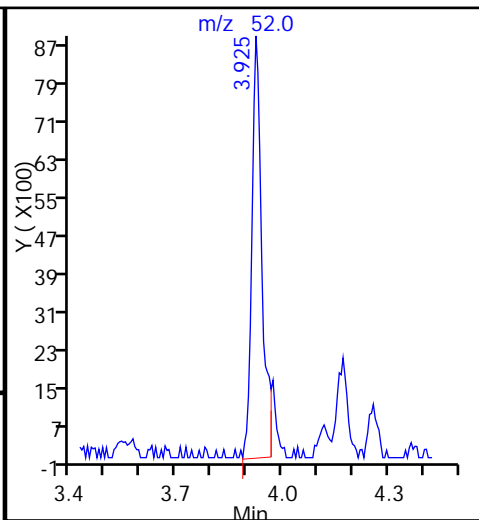
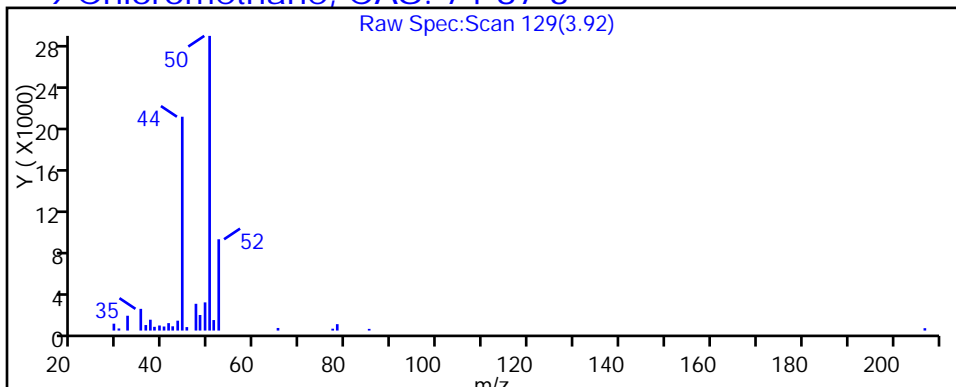
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

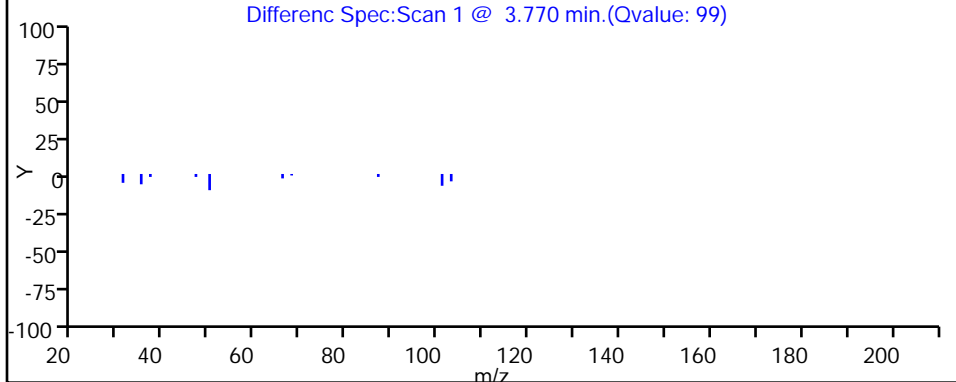
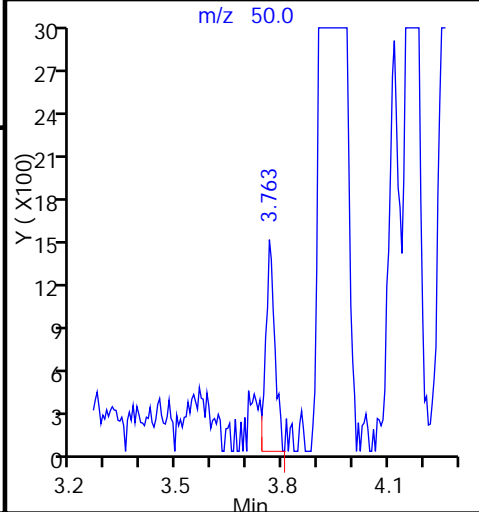
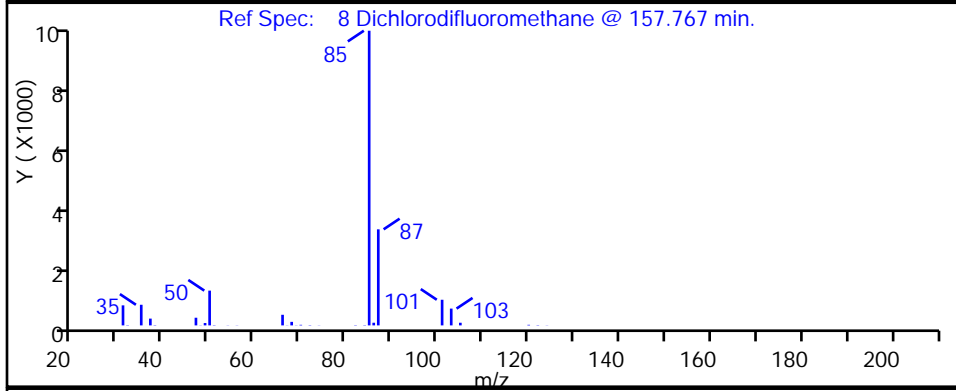
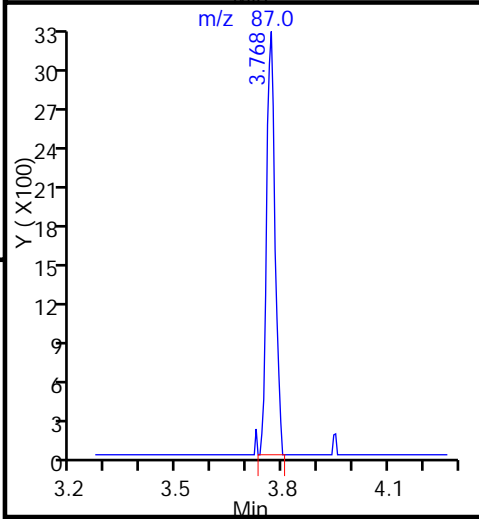
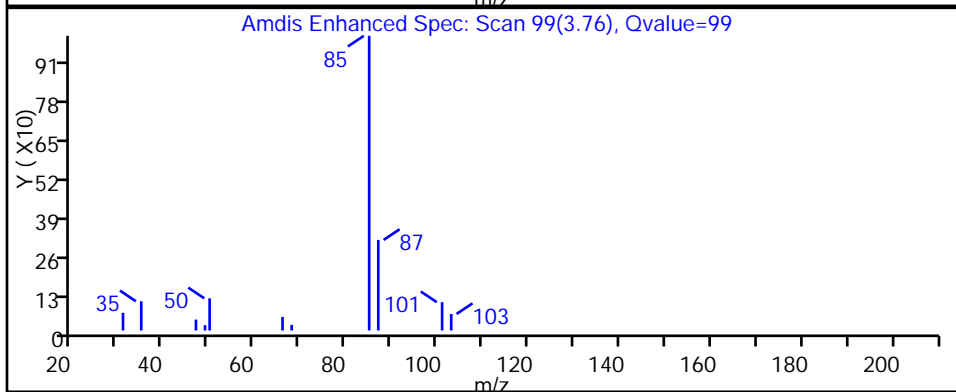
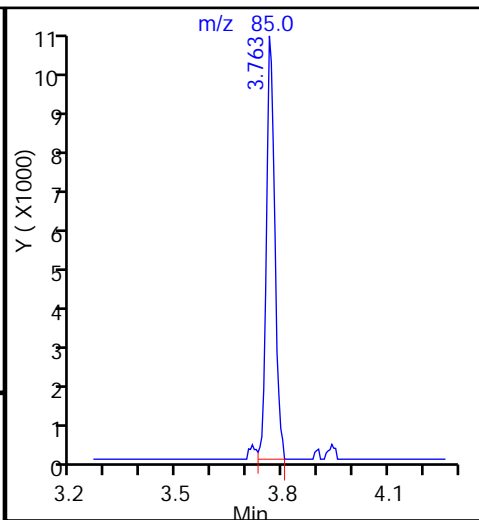
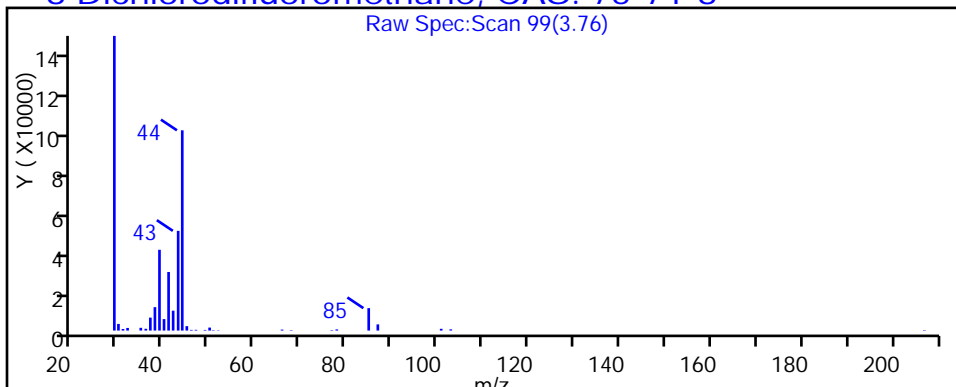
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

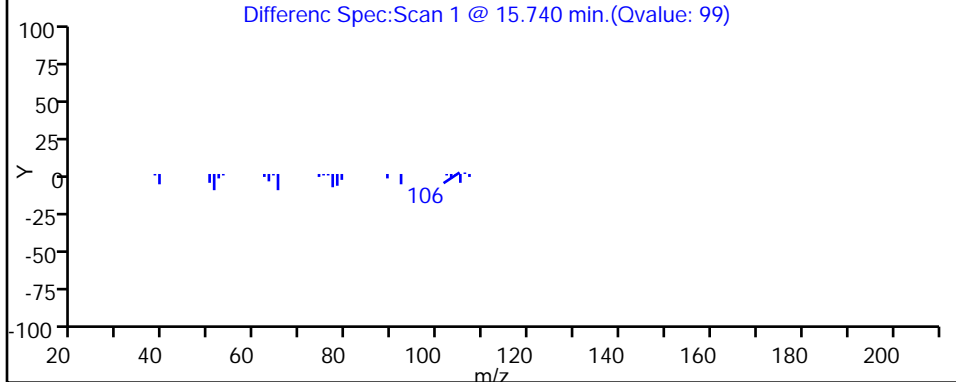
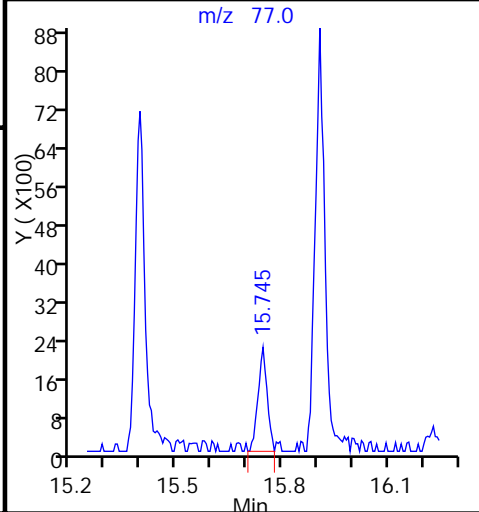
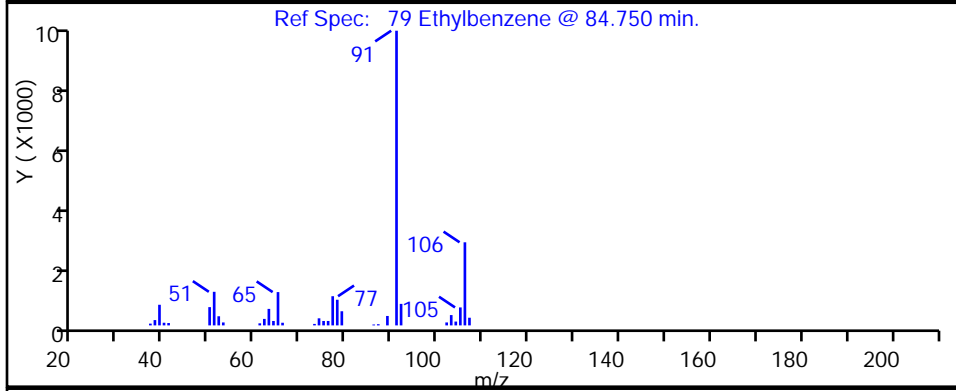
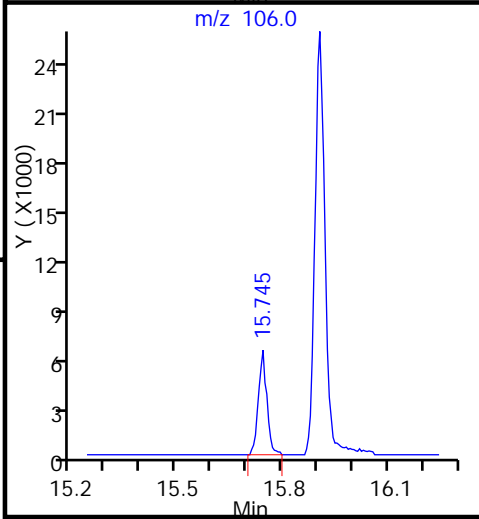
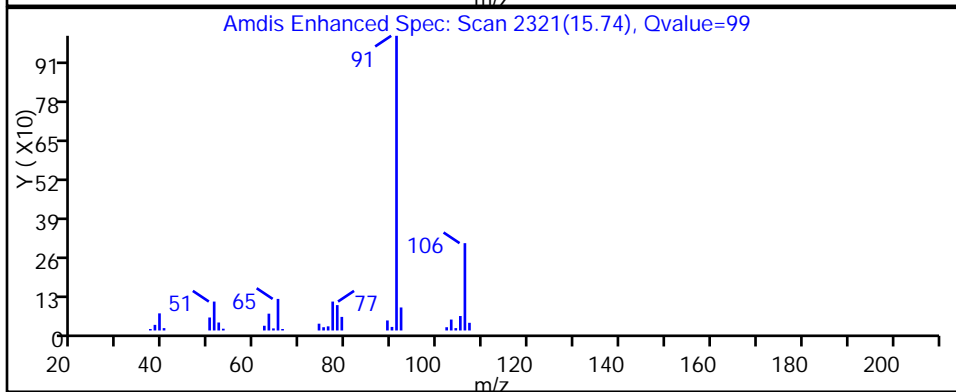
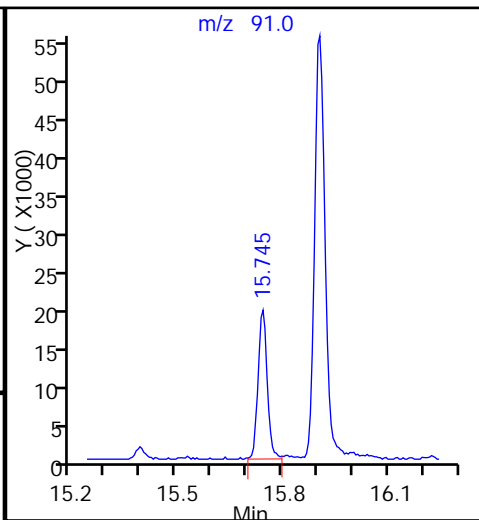
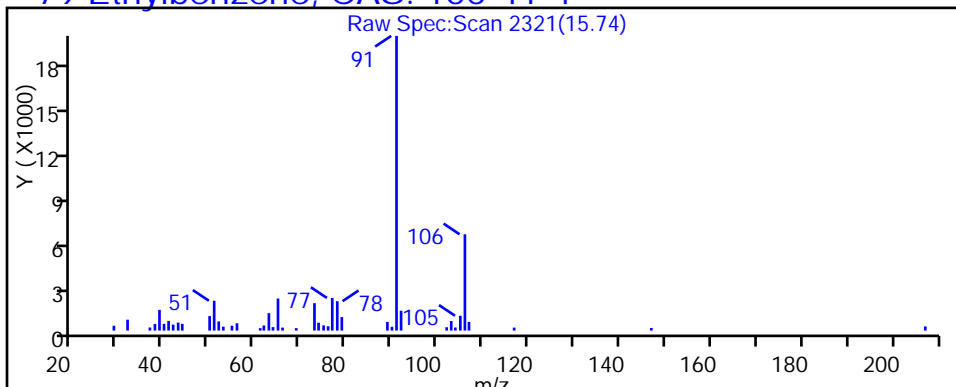
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1 Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

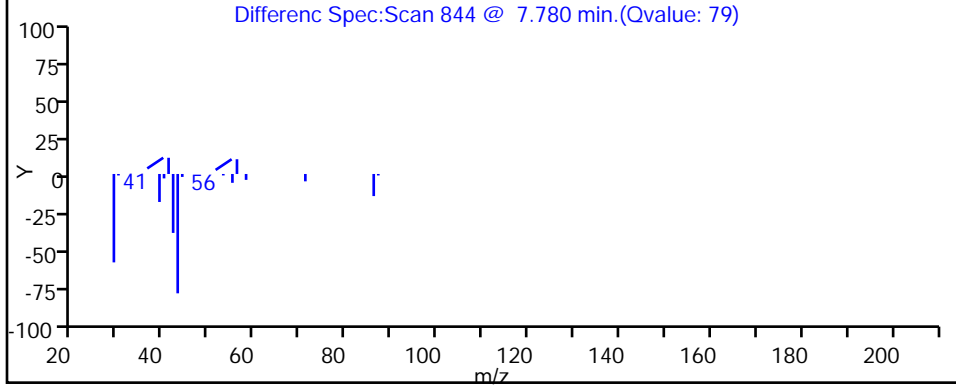
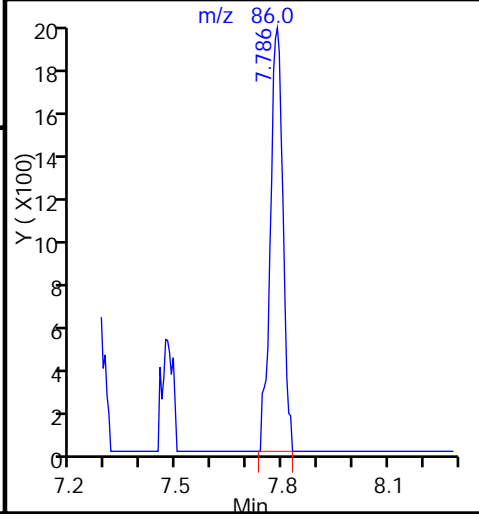
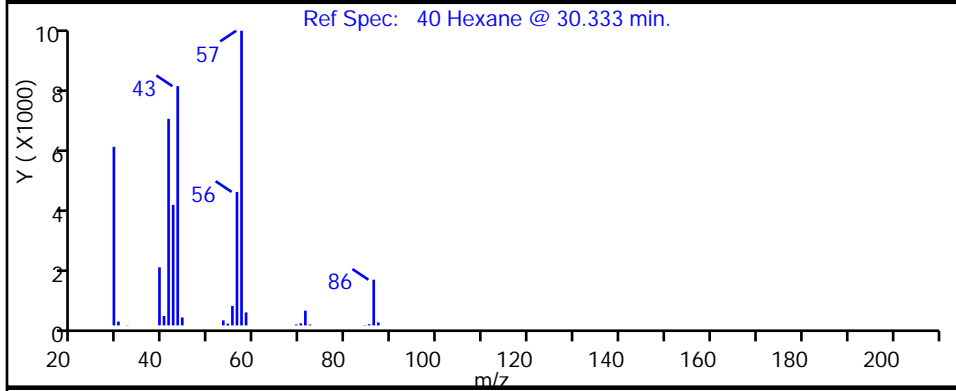
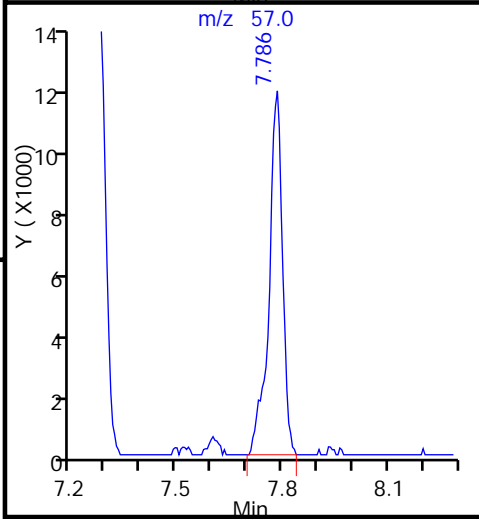
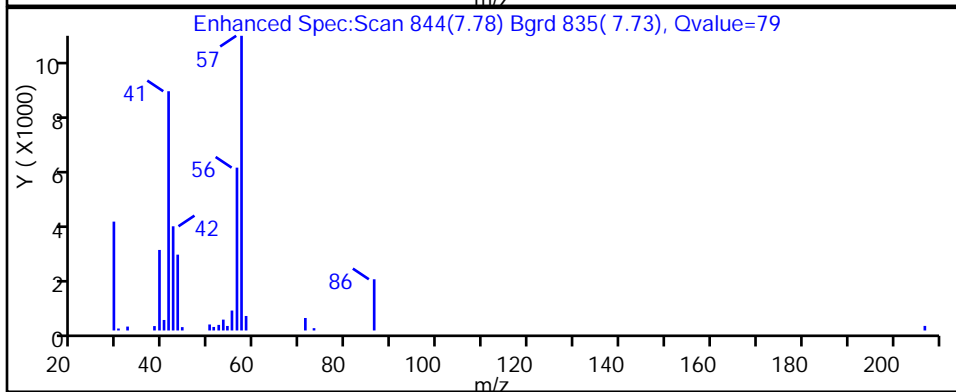
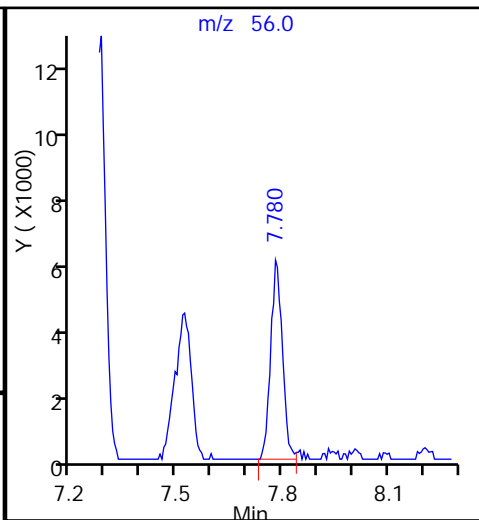
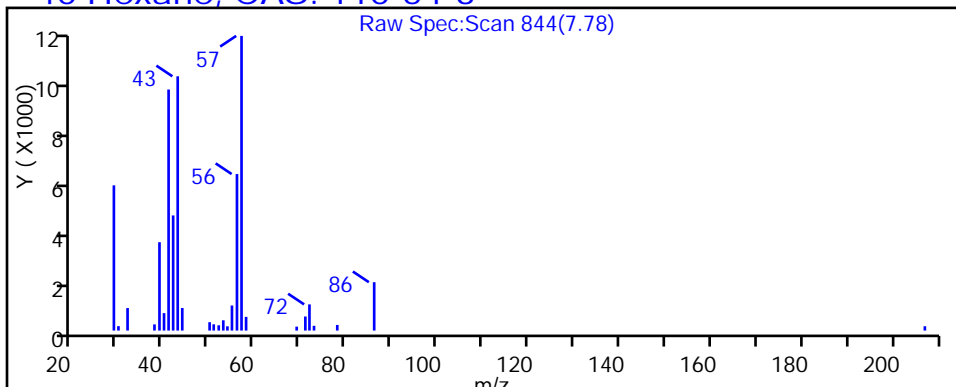
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

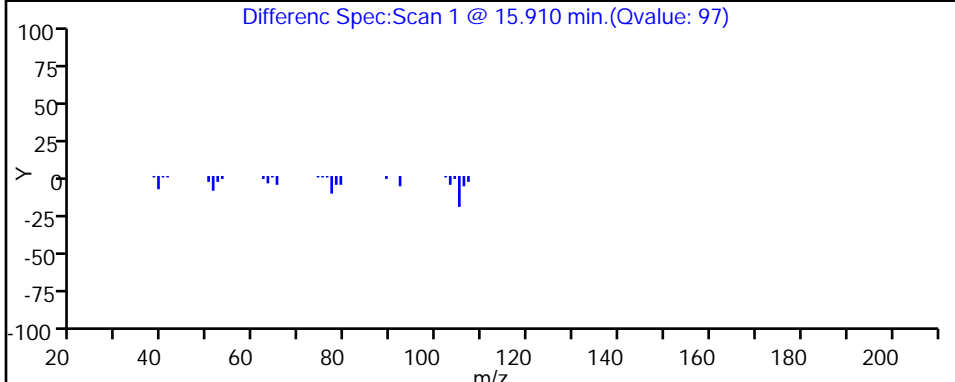
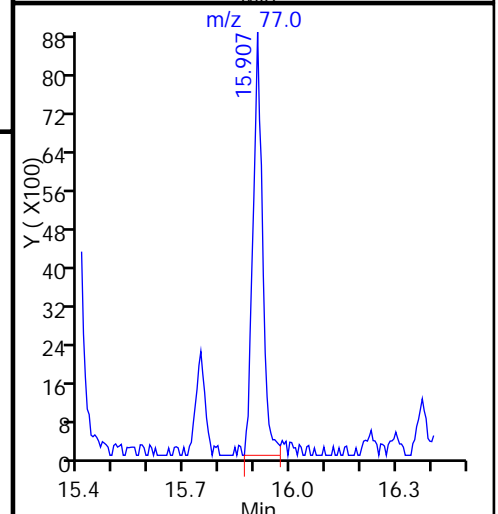
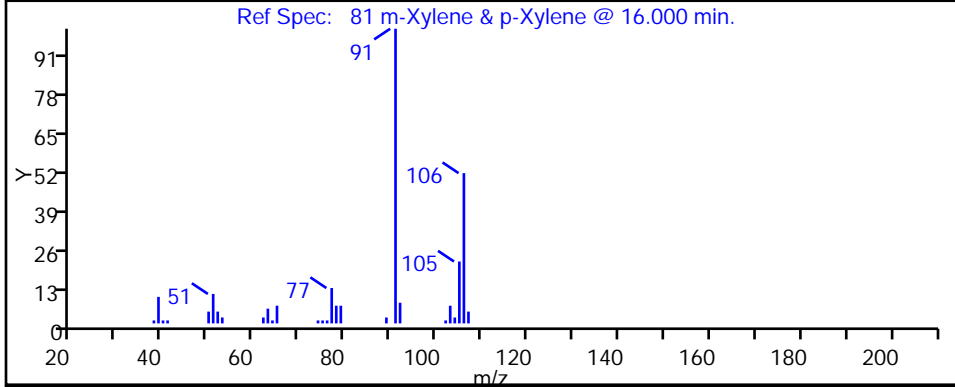
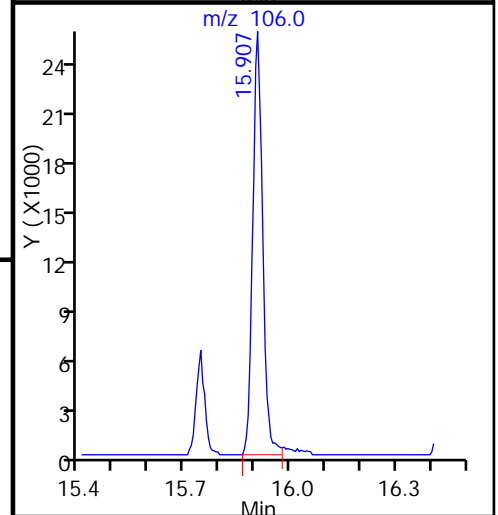
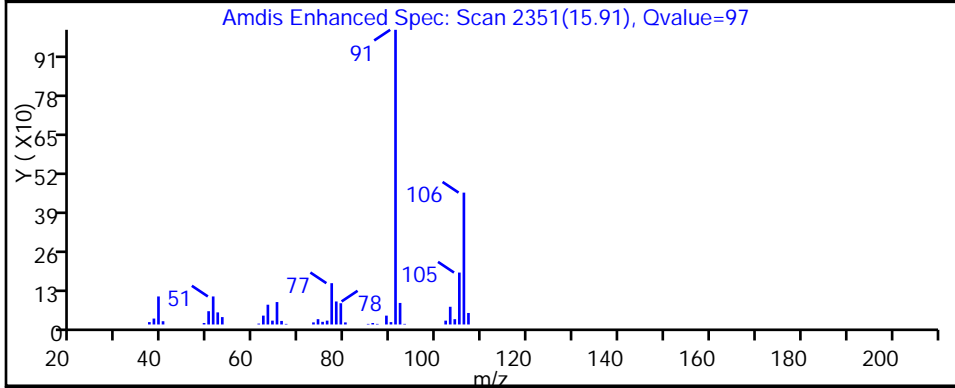
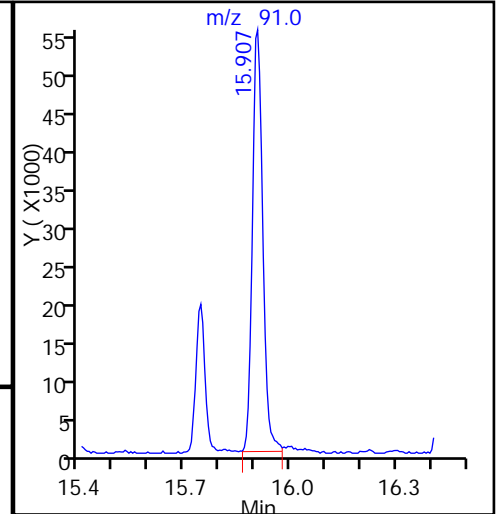
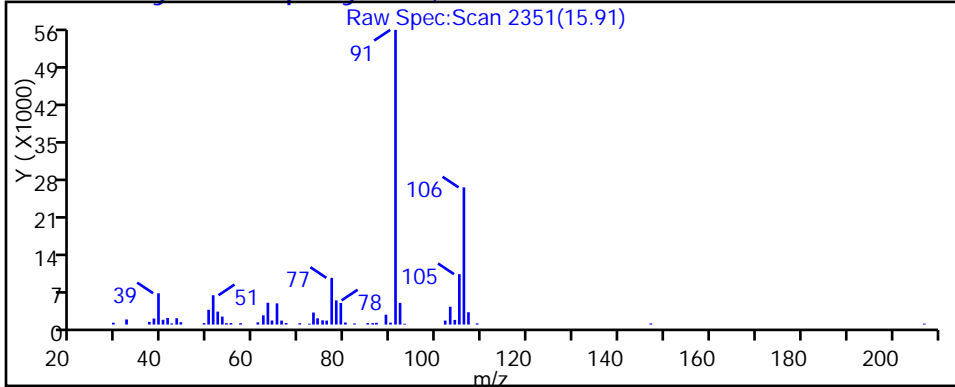
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

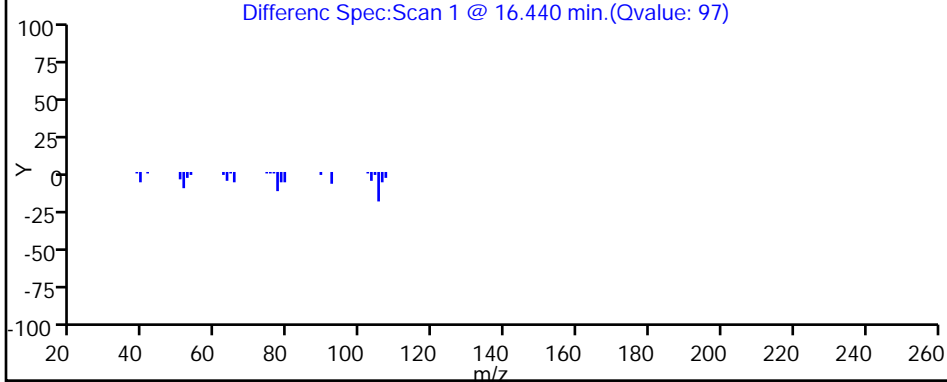
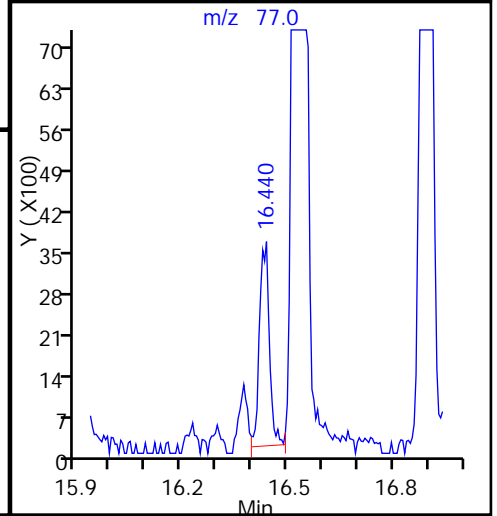
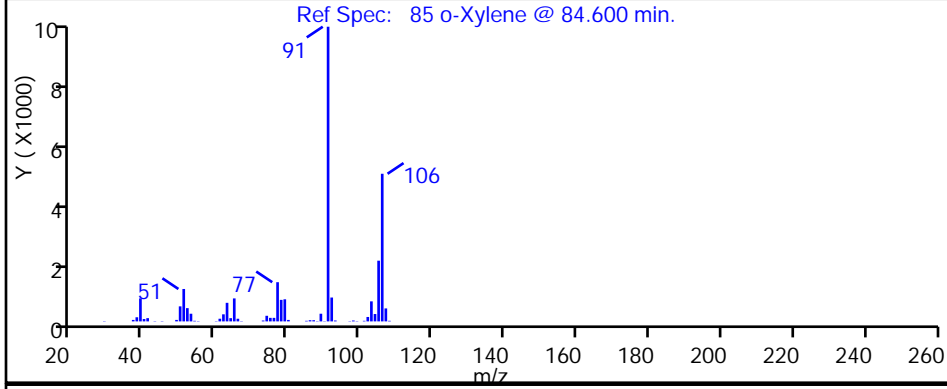
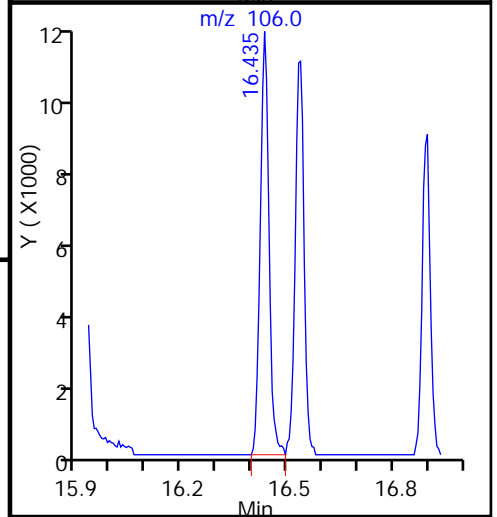
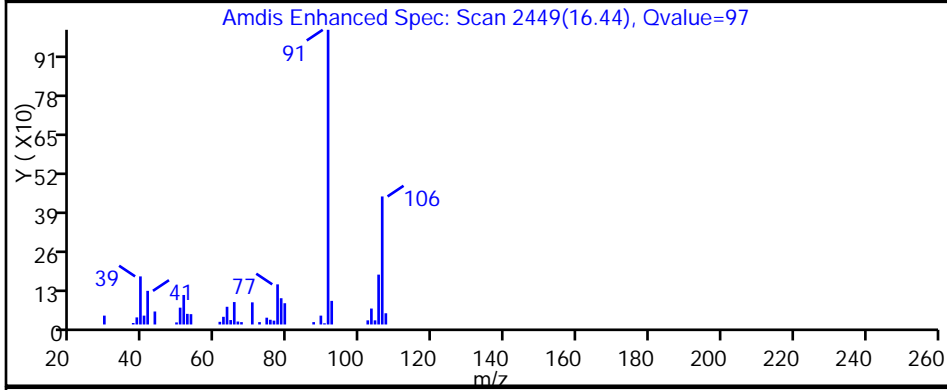
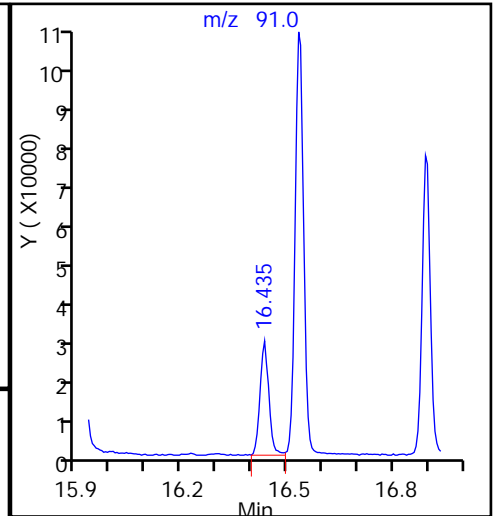
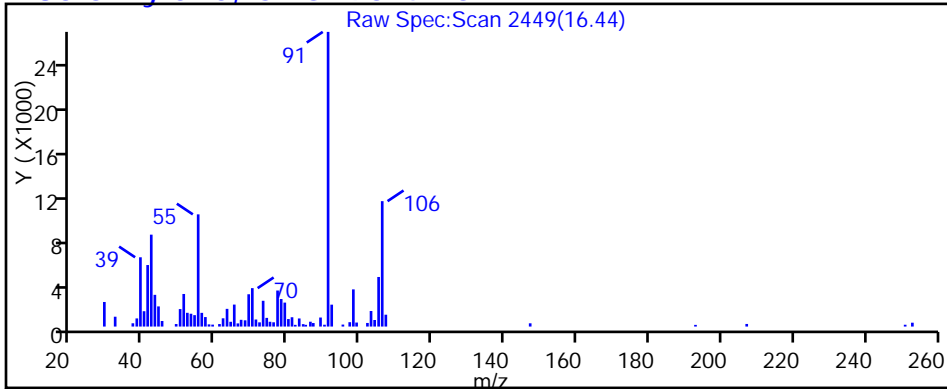
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

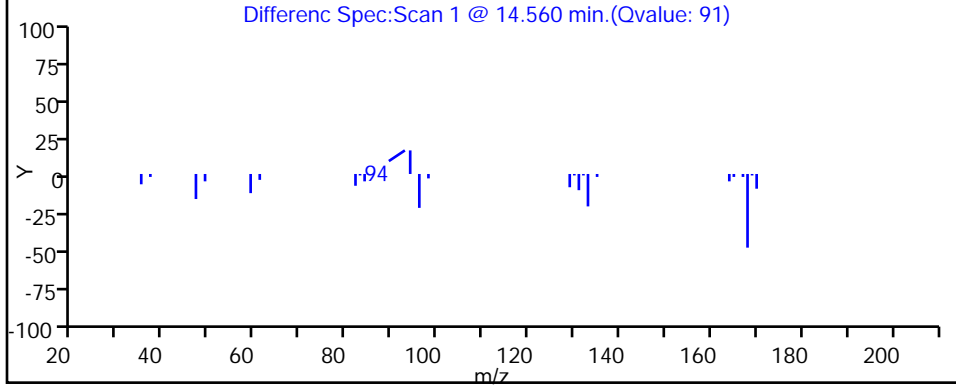
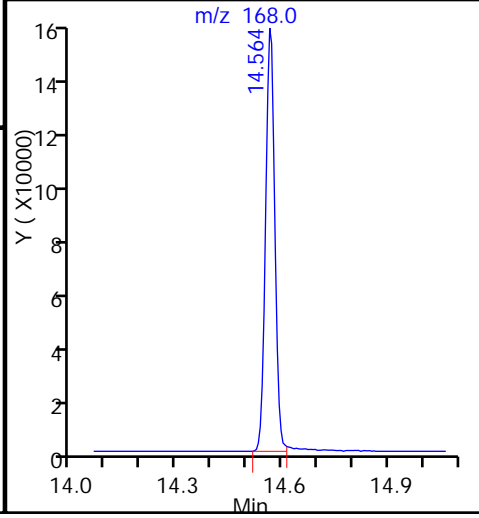
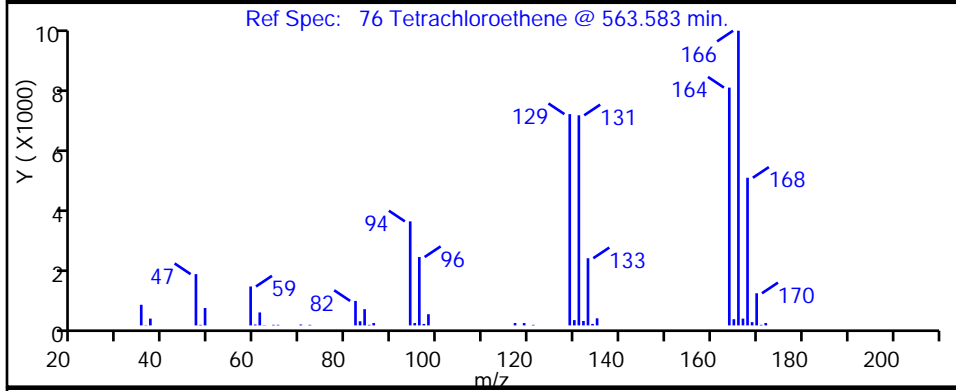
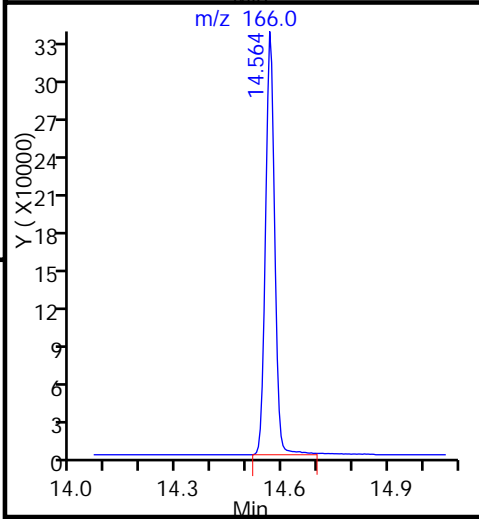
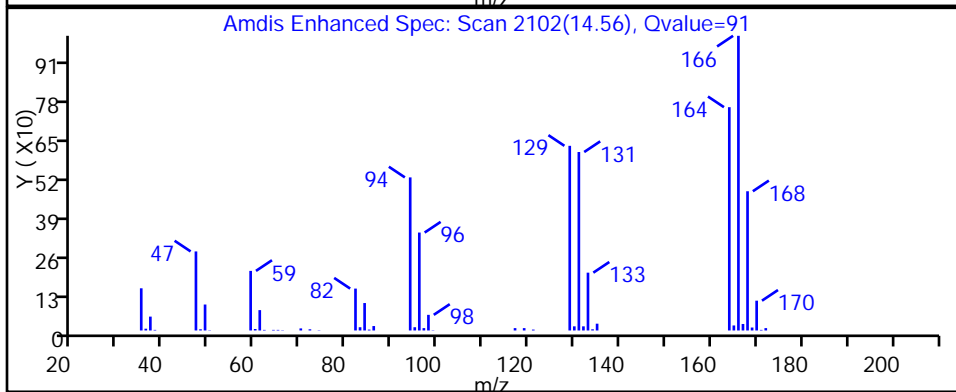
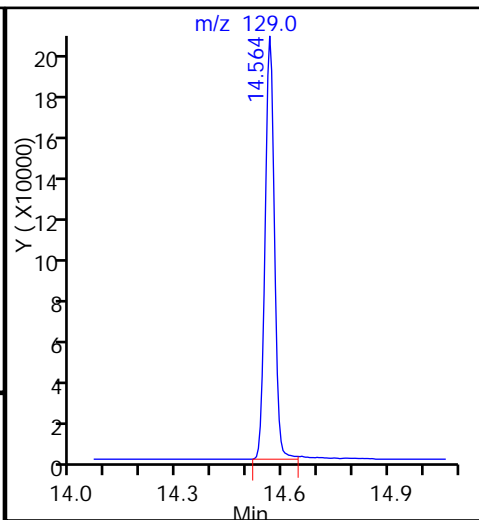
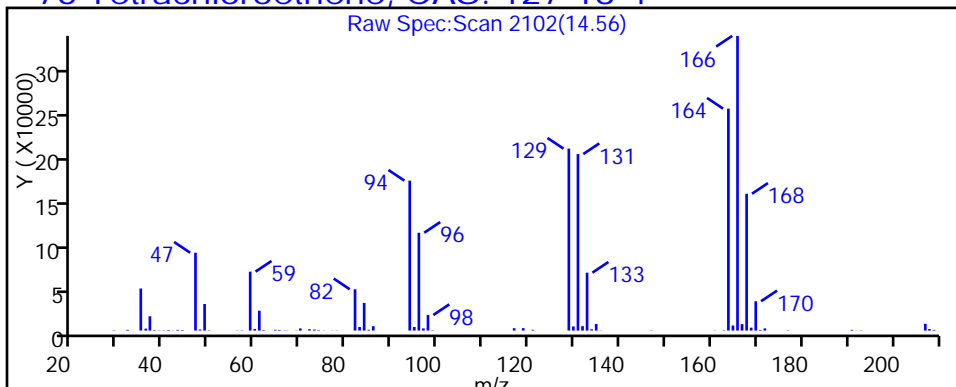
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D

Injection Date: 21-Sep-2016 16:01:30

Instrument ID: MG

Lims ID: 140-5852-A-8

Lab Sample ID: 140-5852-8

Client ID: VP-102

Operator ID: 7126

ALS Bottle#: 1

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

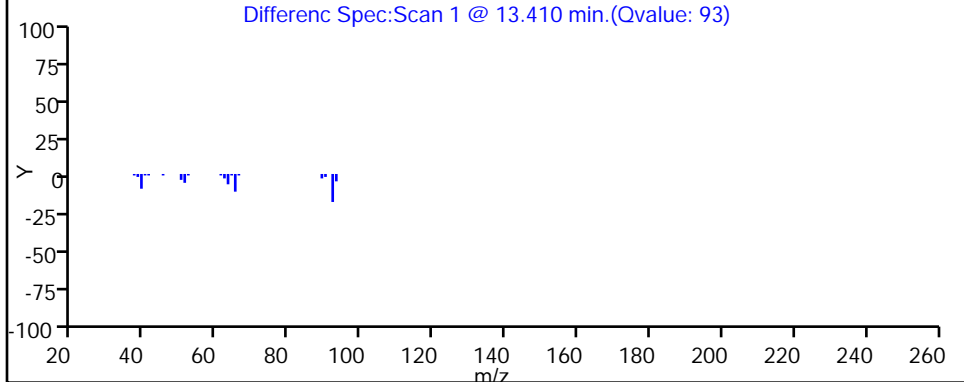
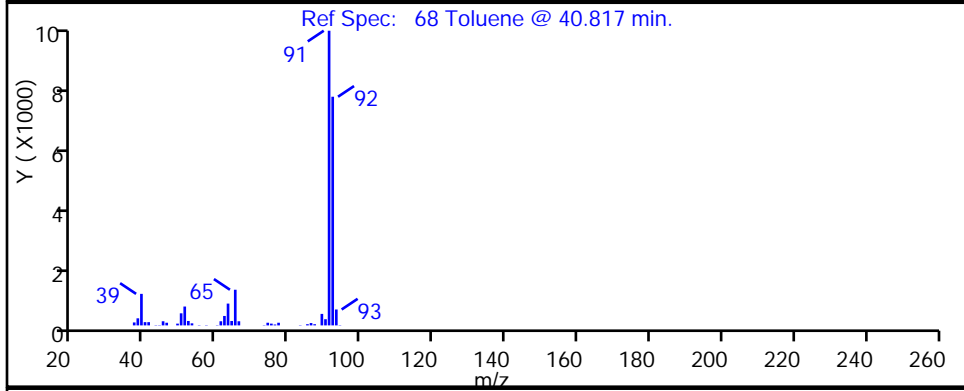
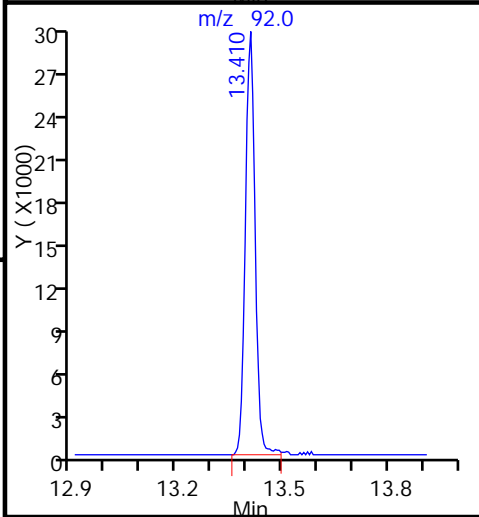
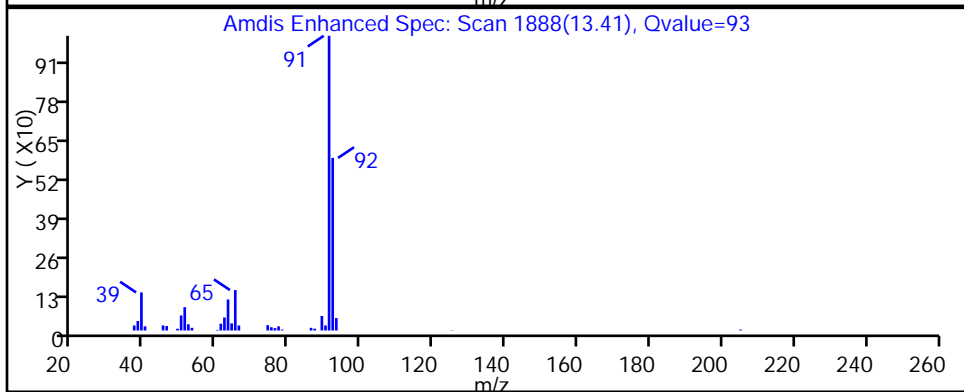
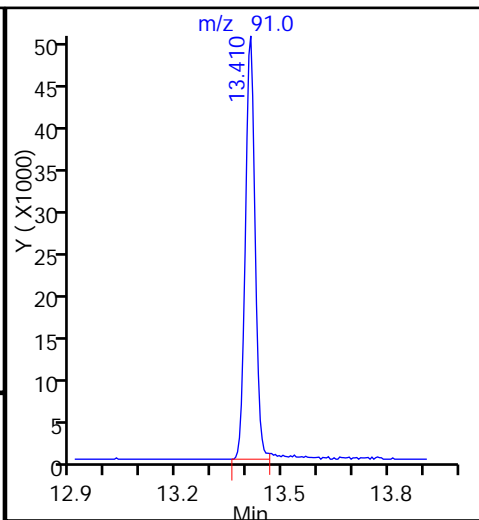
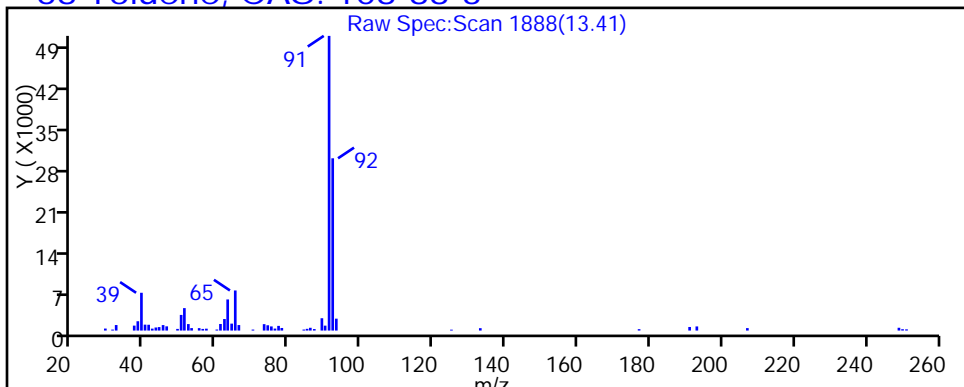
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

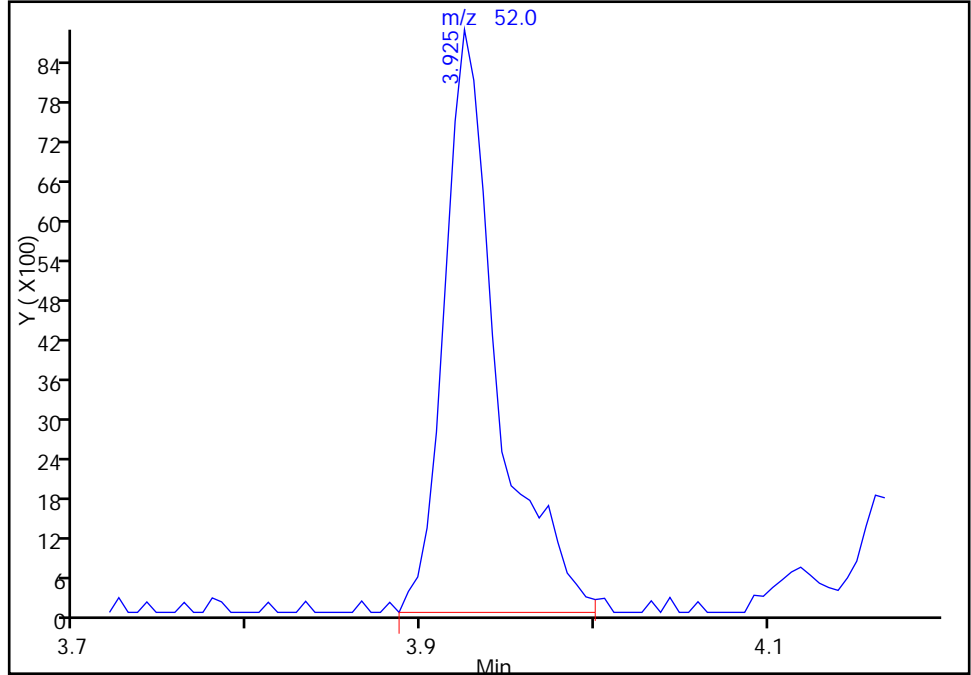
Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P101.D
Injection Date: 21-Sep-2016 16:01:30 Instrument ID: MG
Lims ID: 140-5852-A-8 Lab Sample ID: 140-5852-8
Client ID: VP-102
Operator ID: 7126 ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MG_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

Signal: 1

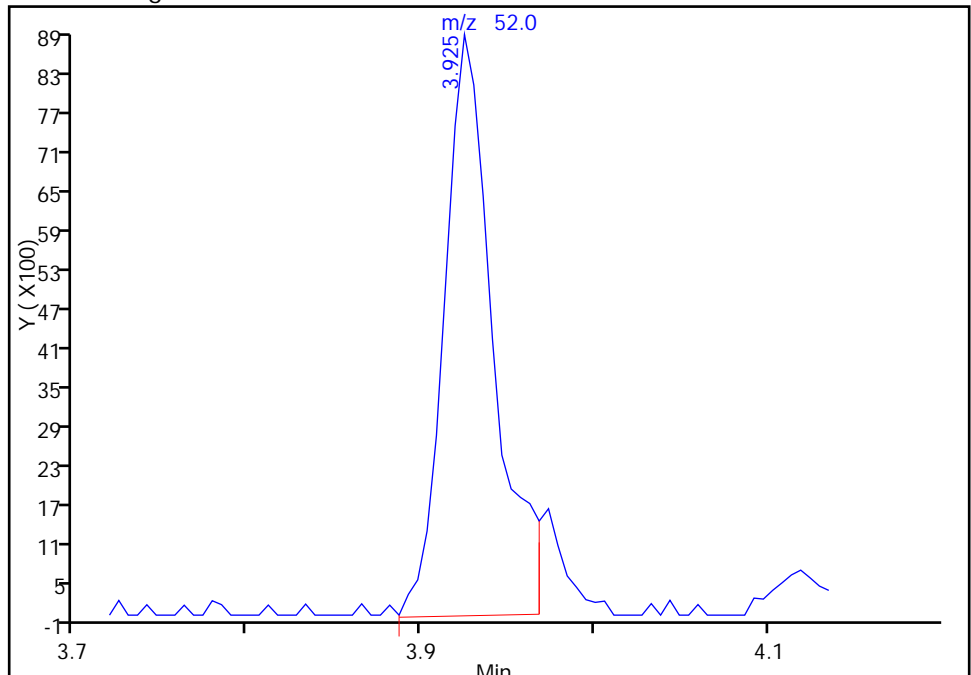
RT: 3.92
Area: 18835
Amount: 0.841868
Amount Units: ppb v/v

Processing Integration Results



RT: 3.92
Area: 17547
Amount: 0.784298
Amount Units: ppb v/v

Manual Integration Results



Reviewer: tajh, 21-Sep-2016 16:38:17
Audit Action: Manually Integrated

Audit Reason: Split Peak

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-100 Lab Sample ID: 140-5852-9
 Matrix: Air Lab File ID: GI21P109.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 17:01
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 22:16
 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.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	1.1		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	1.2		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	0.29		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	17	E	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	2.5		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.20
71-43-2	Benzene	78.11	1.9		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	0.058		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	2.5		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	0.96		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-100 Lab Sample ID: 140-5852-9
 Matrix: Air Lab File ID: GI21P109.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 17:01
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 22:16
 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.: 6625 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	ND	*	2.0
100-41-4	Ethylbenzene	106.17	0.52		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	1.2		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.65		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	2.0		0.080
95-47-6	o-Xylene	106.17	0.90		0.080
100-42-5	Styrene	104.15	0.20		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	25	E	0.080
108-88-3	Toluene	92.14	1.5		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	0.14		0.040
75-69-4	Trichlorofluoromethane	137.37	0.35		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-100 Lab Sample ID: 140-5852-9
 Matrix: Air Lab File ID: GI21P109.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 17:01
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 22:16
 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.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	5.8		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	5.9		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	1.4		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	100	E	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	7.5		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.82
71-43-2	Benzene	78.11	6.1		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	0.37		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	12		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	3.3		0.69

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-100 Lab Sample ID: 140-5852-9
 Matrix: Air Lab File ID: GI21P109.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 17:01
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 22:16
 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.: 6625 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	ND	*	3.8
100-41-4	Ethylbenzene	106.17	2.2		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	2.3		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	8.8		0.35
95-47-6	o-Xylene	106.17	3.9		0.35
100-42-5	Styrene	104.15	0.87		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	170	E	0.54
108-88-3	Toluene	92.14	5.8		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	0.78		0.21
75-69-4	Trichlorofluoromethane	137.37	2.0		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D
 Lims ID: 140-5852-A-9
 Client ID: VP-100
 Sample Type: Client
 Inject. Date: 21-Sep-2016 22:16:30 ALS Bottle#: 9 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-013
 Misc. Info.: 140-5852-a-9
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 12:38:56

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.449	8.454	-0.005	92	231495	4.00	
* 2 1,4-Difluorobenzene	114	10.611	10.617	-0.006	96	1117005	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.394	15.394	0.000	93	1006750	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	90	775764	4.41	
8 Dichlorodifluoromethane	85	3.747	3.758	-0.011	100	90888	0.4566	
9 Chloromethane	52	3.914	3.919	-0.005	77	1279	0.0567	7M
20 Trichlorofluoromethane	101	5.090	5.095	-0.005	99	66282	0.3544	
29 2-Methyl-2-propanol	59	5.839	5.834	0.005	82	2214	0.0219	
30 1,1,2-Trichloro-1,2,2-trif	101	5.909	5.909	0.000	89	8695	0.0761	
31 Methylene Chloride	84	6.060	6.055	0.005	90	36616	0.6499	
39 2-Butanone (MEK)	72	7.716	7.721	-0.005	100	81388	2.55	
40 Hexane	56	7.770	7.775	-0.005	90	76450	1.25	
42 cis-1,2-Dichloroethene	96	8.136	8.142	-0.006	94	1915	0.0267	
44 Chloroform	83	8.471	8.476	-0.005	96	393345	2.54	
47 1,1,1-Trichloroethane	97	9.463	9.463	0.000	94	181874	1.07	
49 Benzene	78	10.056	10.056	0.000	97	389415	1.90	
50 Cyclohexane	69	10.061	10.067	-0.006	53	33637	0.9583	
52 Carbon tetrachloride	117	10.083	10.088	-0.005	30	9405	0.0582	
56 Isooctane	57	10.854	10.854	0.000	49	22361	0.0579	
59 Trichloroethene	130	11.329	11.334	-0.005	91	14955	0.1447	
61 Dichlorobromomethane	83	11.555	11.555	0.000	98	9333	0.0586	
65 4-Methyl-2-pentanone (MIBK	43	12.526	12.520	0.006	97	38889	0.1793	M
68 Toluene	91	13.405	13.405	0.001	93	338601	1.54	
76 Tetrachloroethene	129	14.564	14.564	0.000	92	2224336	25.3	E
79 Ethylbenzene	91	15.740	15.739	0.001	99	150435	0.5158	
81 m-Xylene & p-Xylene	91	15.901	15.907	-0.006	98	455983	2.02	
84 Styrene	104	16.370	16.370	0.000	98	30508	0.2045	
85 o-Xylene	91	16.430	16.435	-0.005	97	218986	0.9047	
92 1,3,5-Trimethylbenzene	120	17.816	17.821	-0.005	92	44264	0.2873	
96 1,2,4-Trimethylbenzene	105	18.263	18.268	-0.005	99	341337	1.21	
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	95	2987306	17.0	E

[QC Flag Legend](#)

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

[Reagents:](#)

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Worklist Smp#: 13

Client ID: VP-100

Purge Vol: 500.000 mL

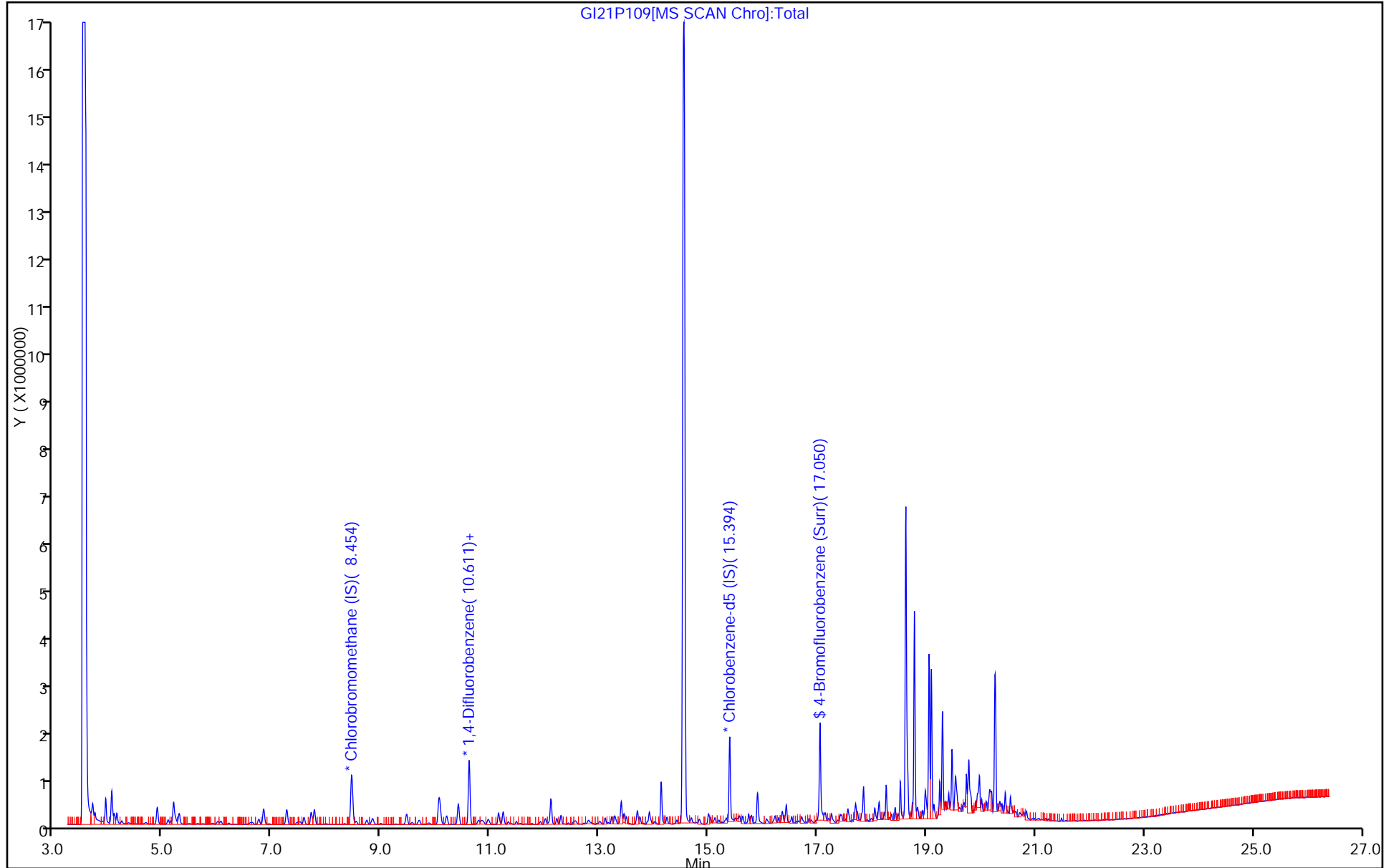
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D
 Lims ID: 140-5852-A-9
 Client ID: VP-100
 Sample Type: Client
 Inject. Date: 21-Sep-2016 22:16:30 ALS Bottle#: 9 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-013
 Misc. Info.: 140-5852-a-9
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 12:38:56

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.41	110.36

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

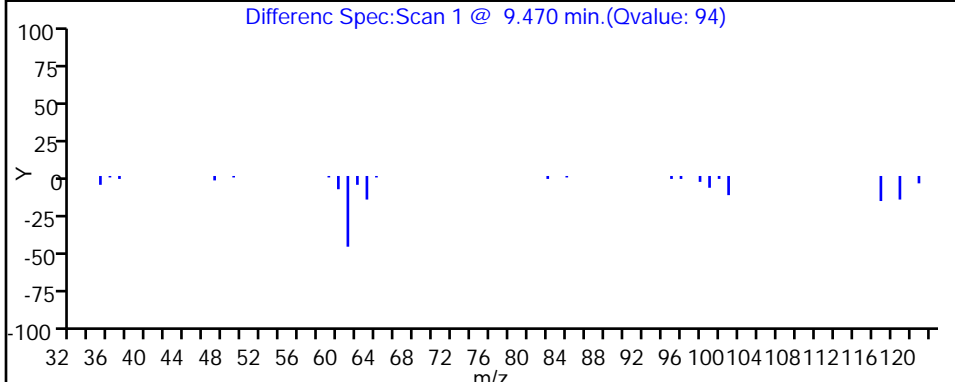
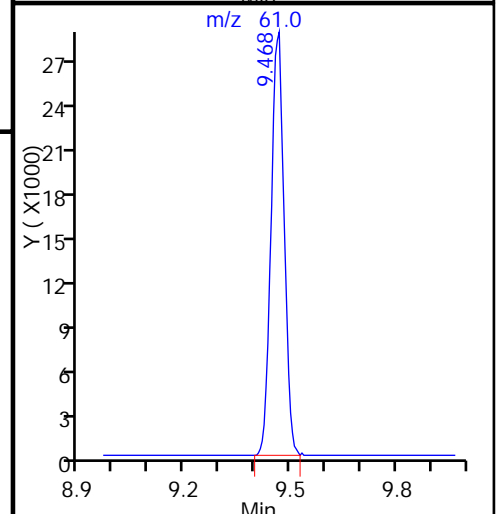
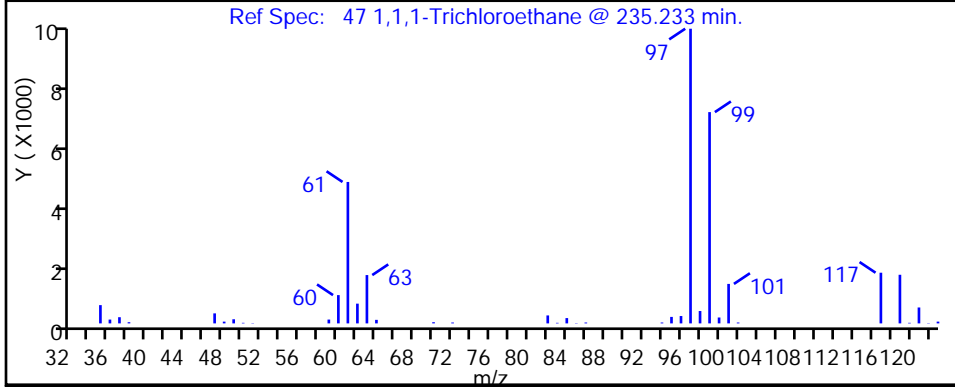
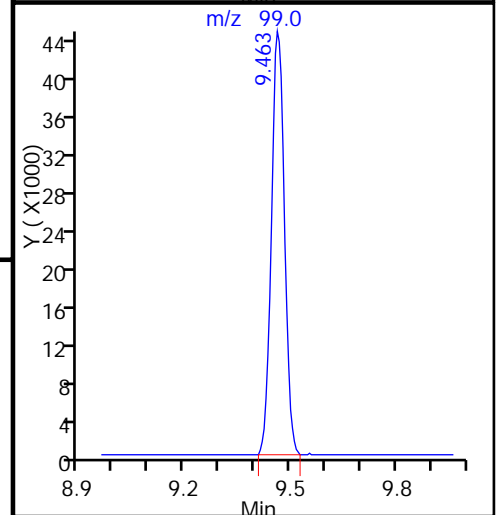
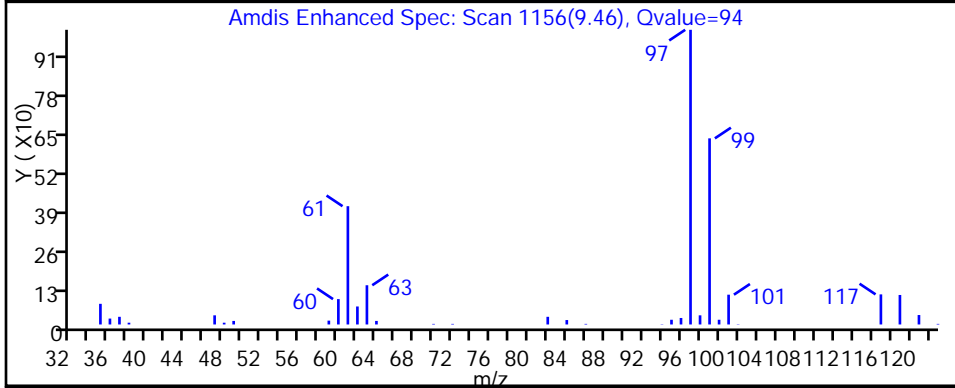
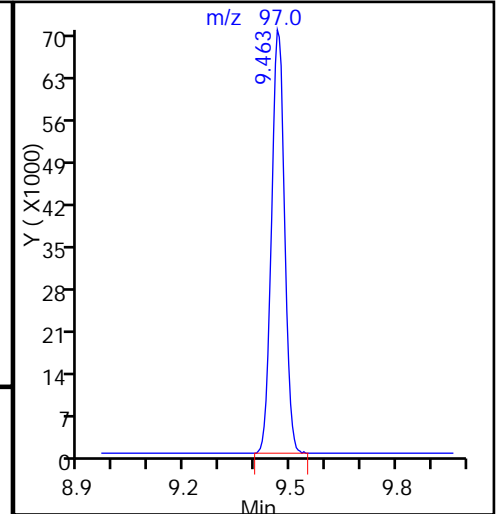
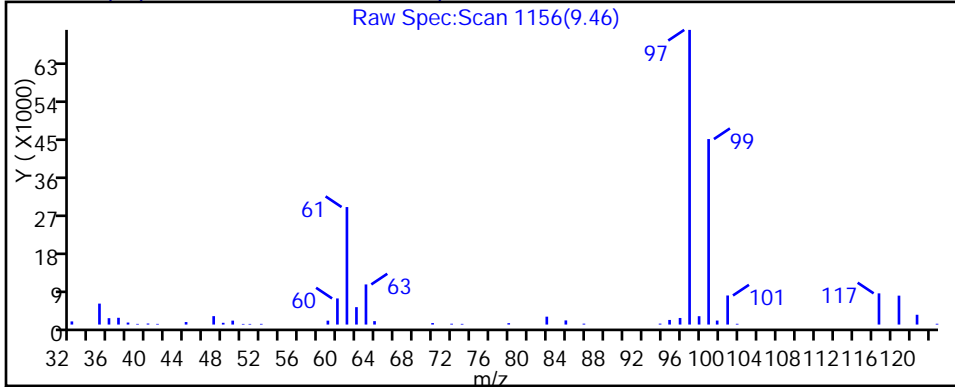
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

47 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

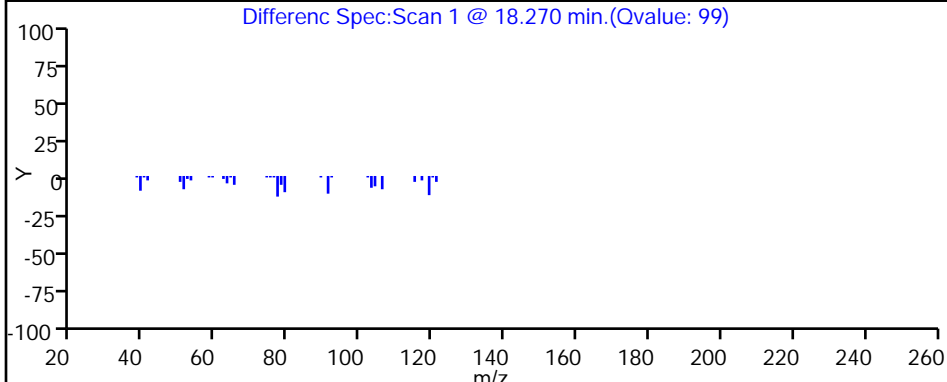
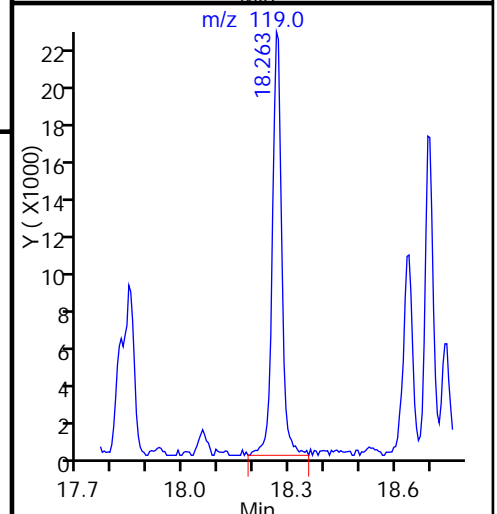
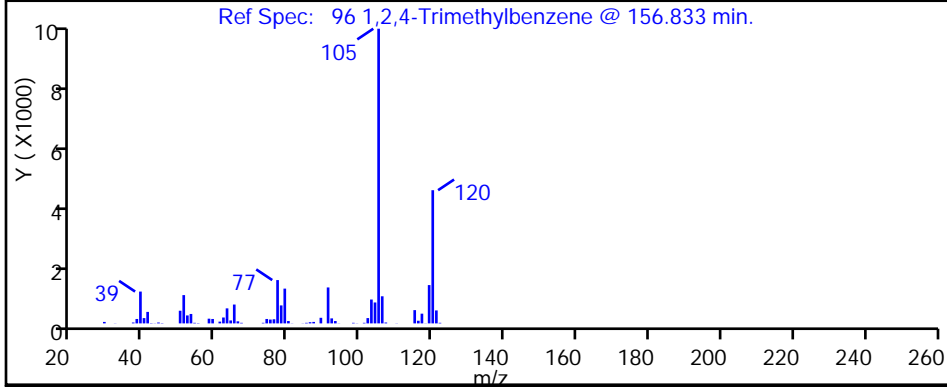
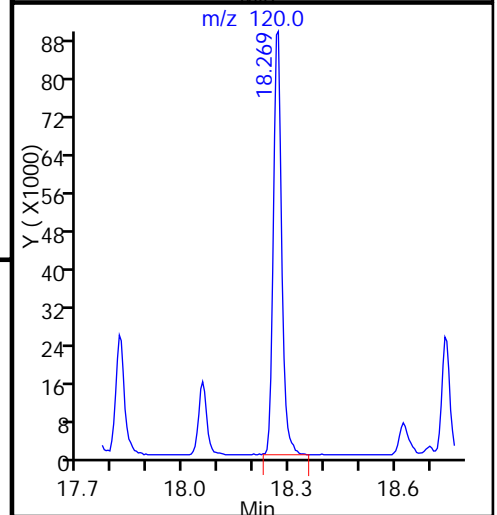
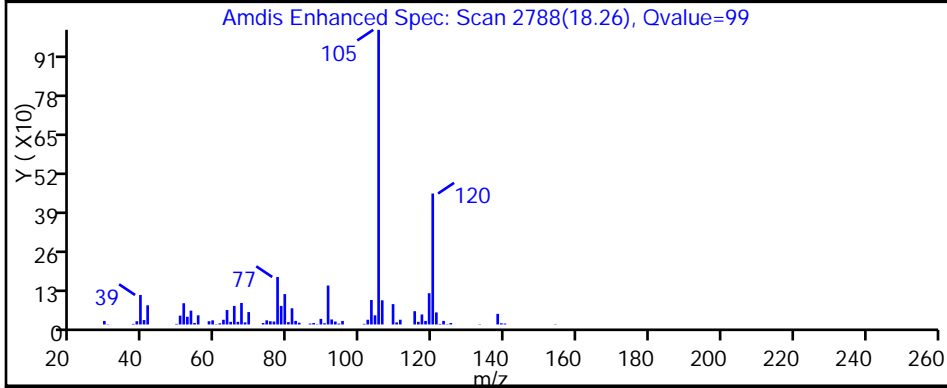
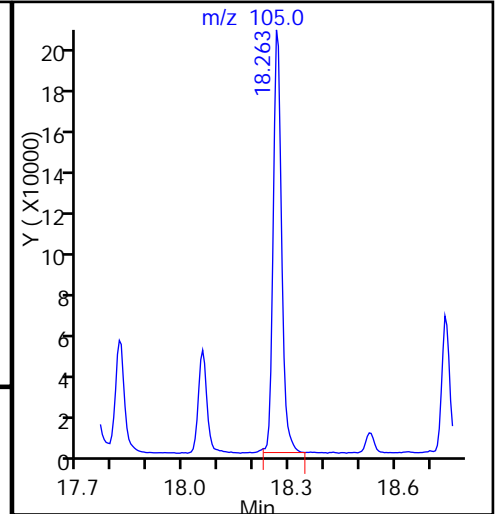
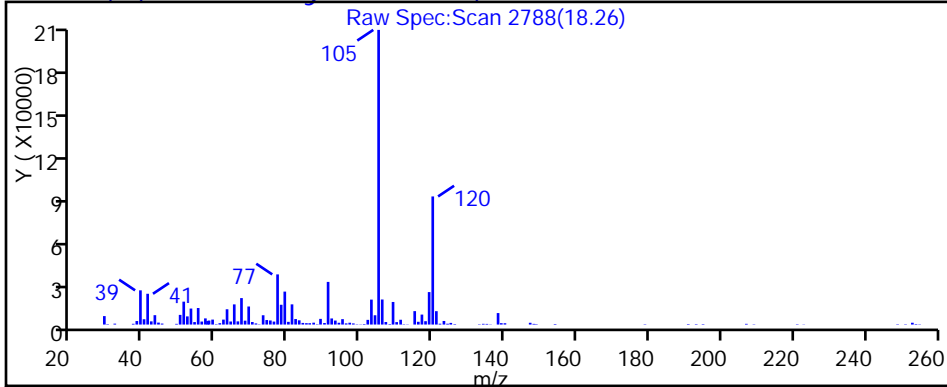
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

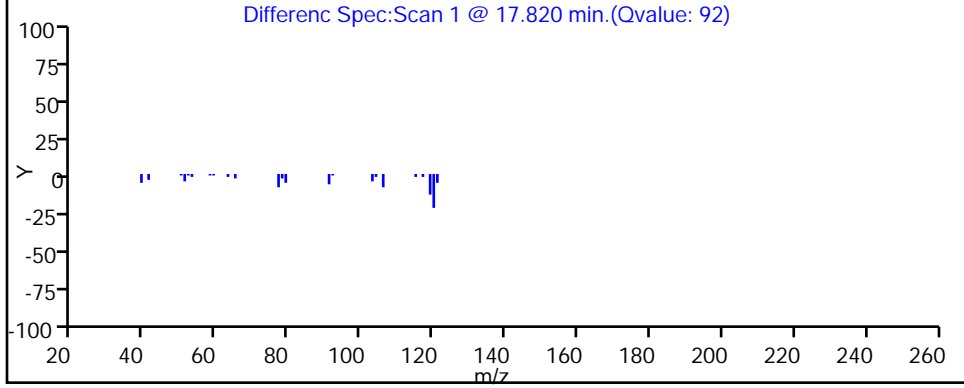
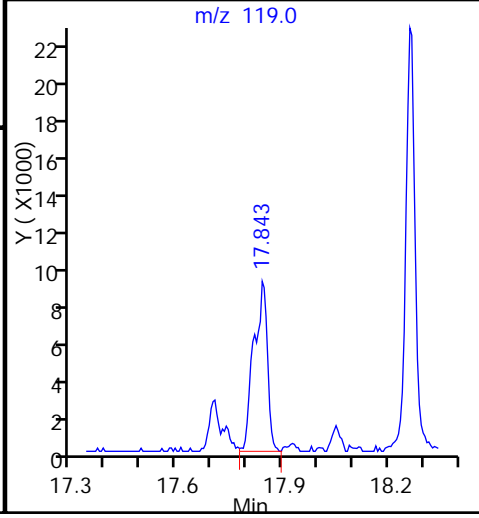
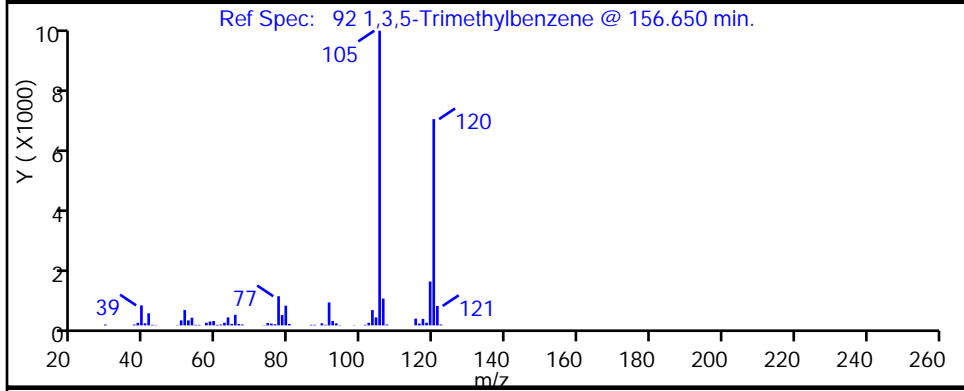
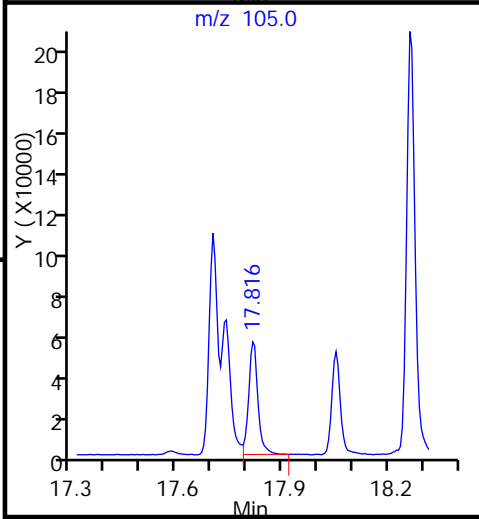
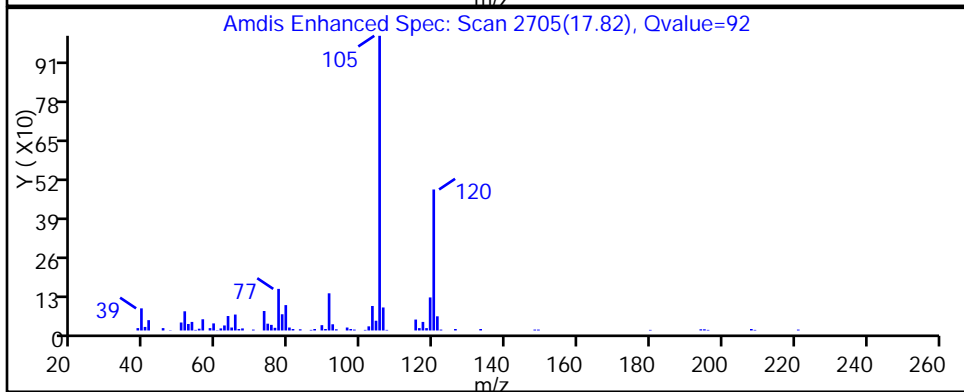
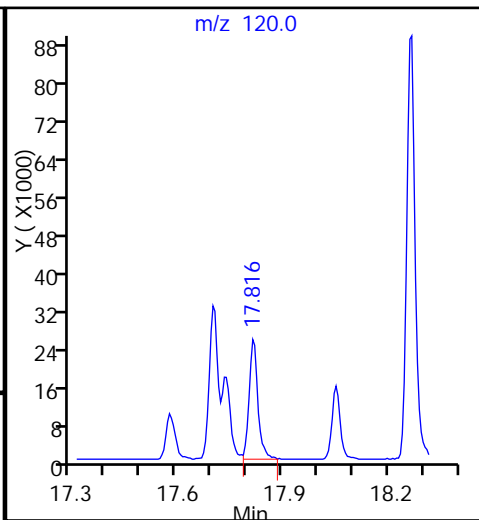
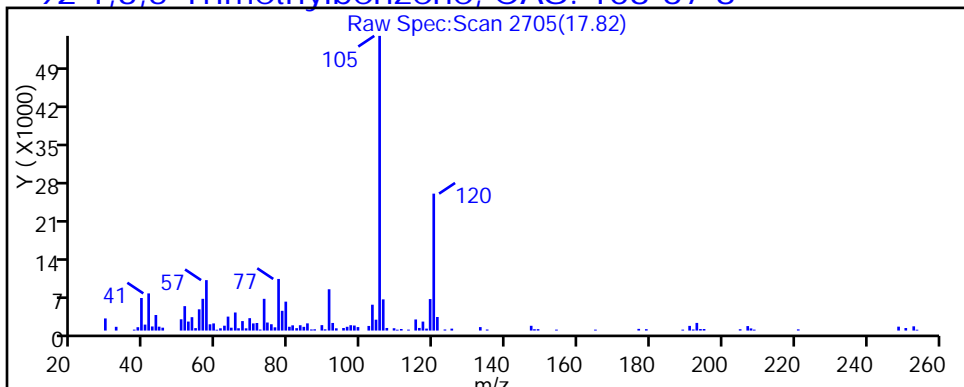
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

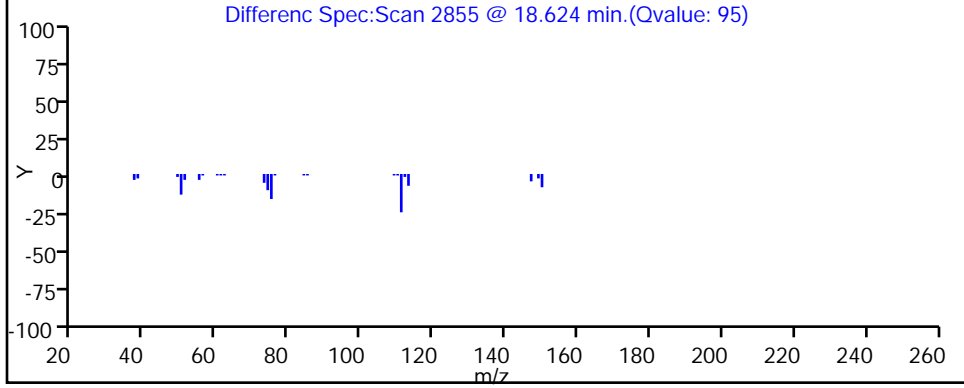
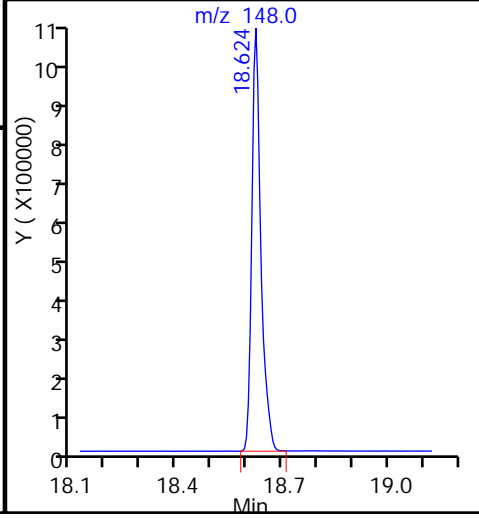
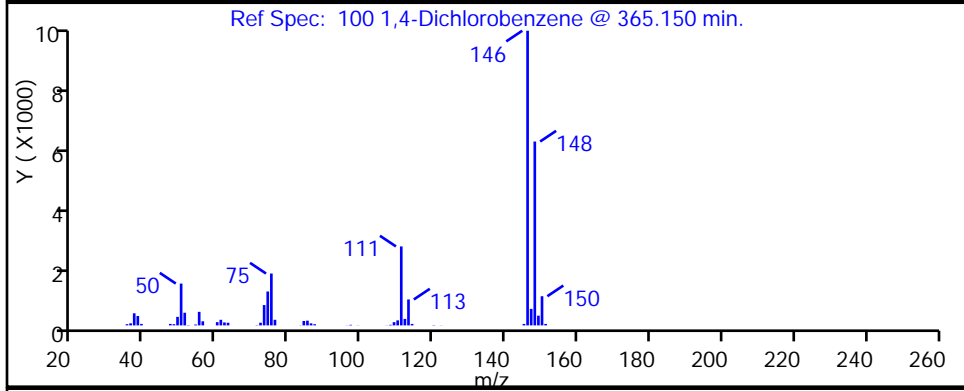
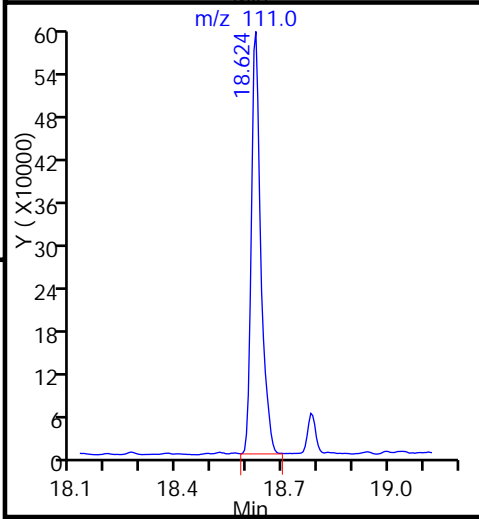
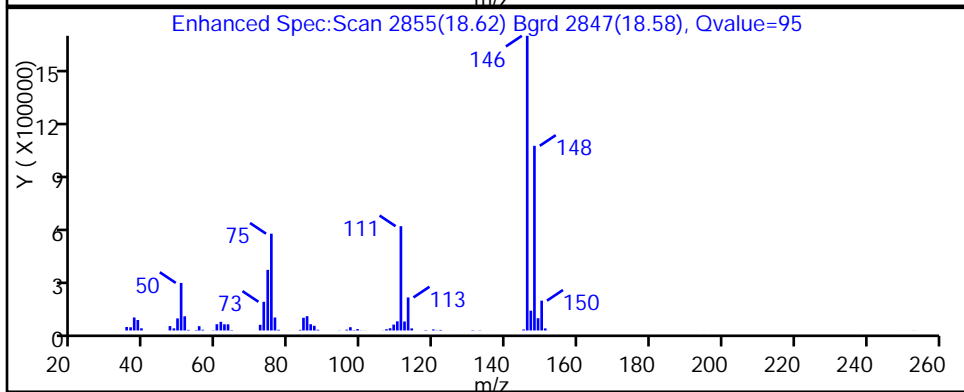
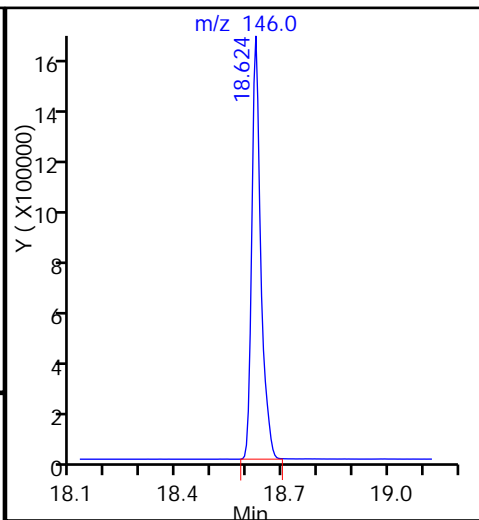
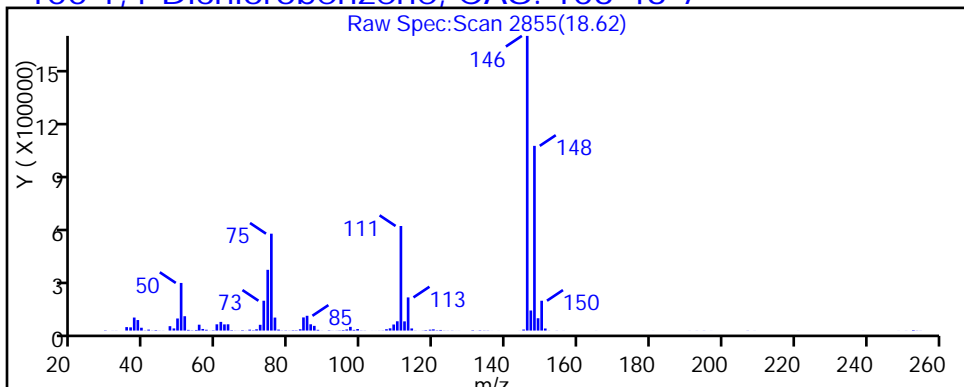
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

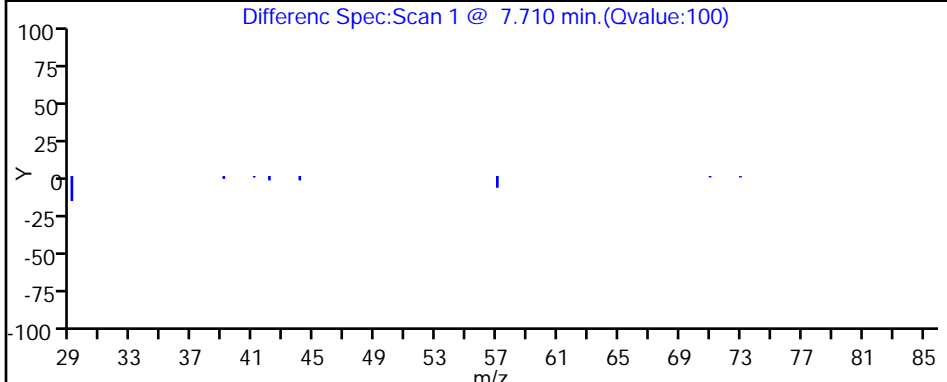
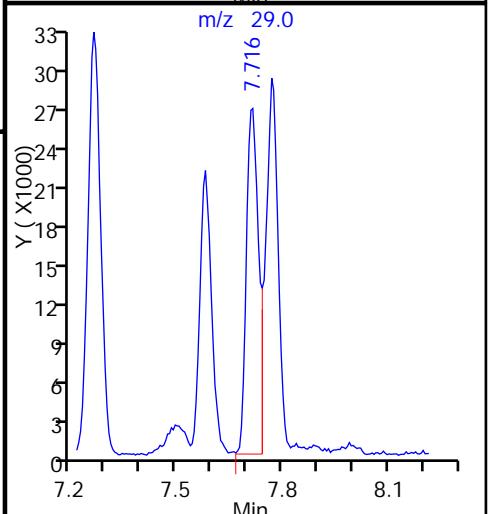
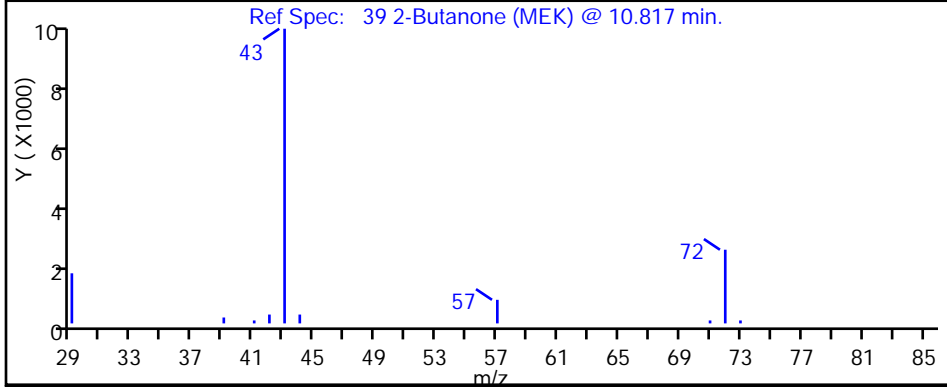
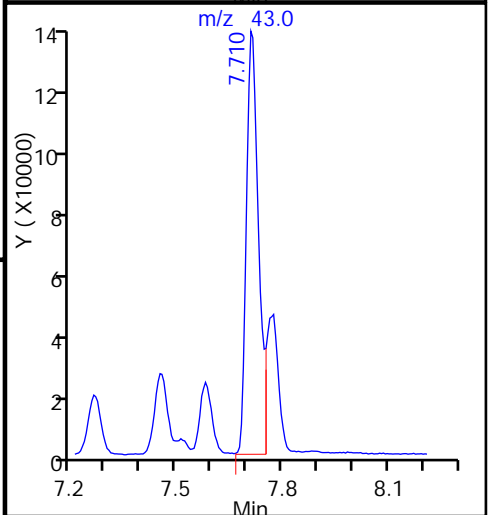
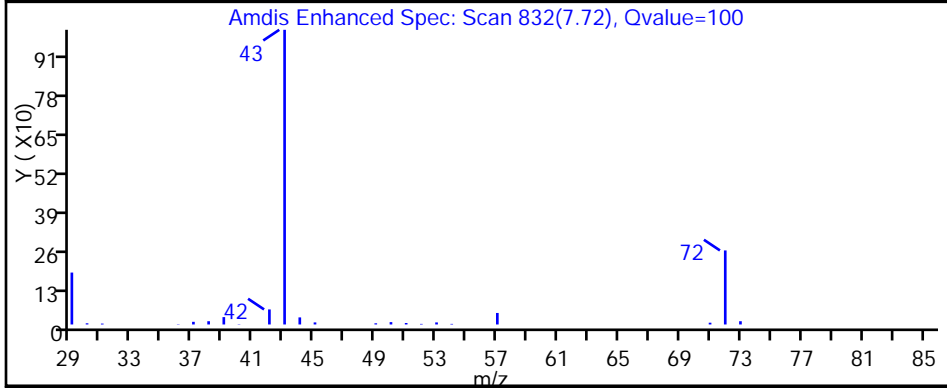
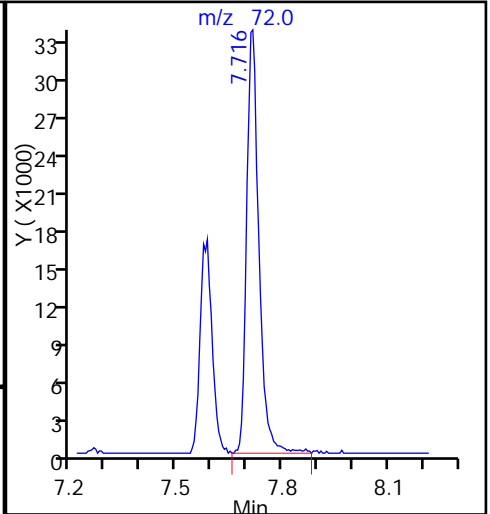
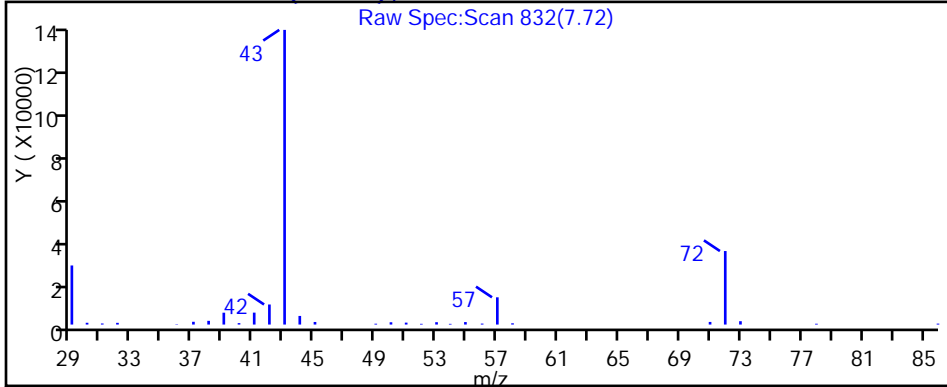
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

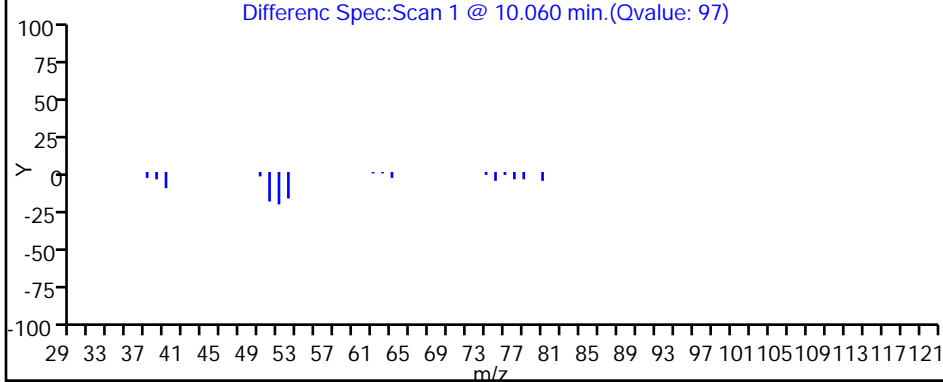
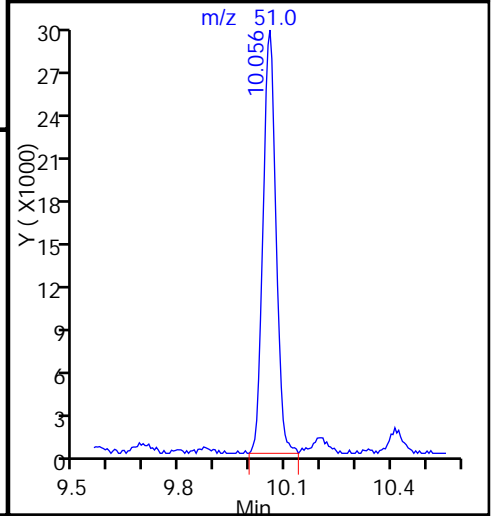
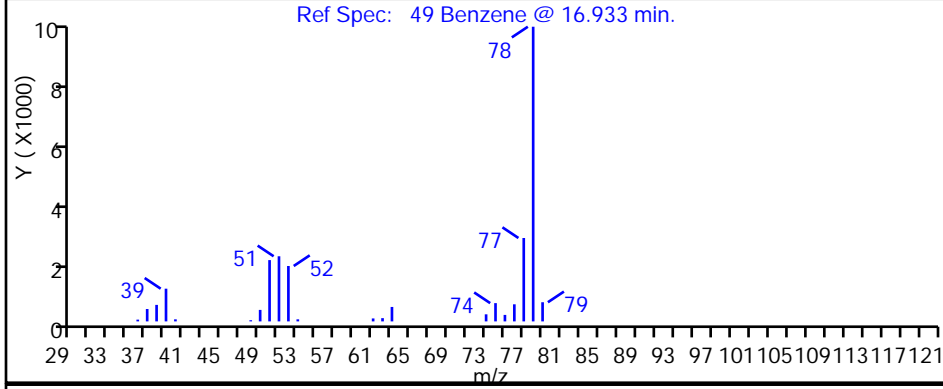
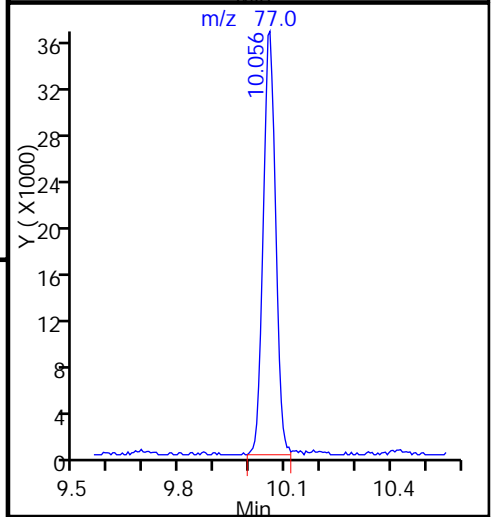
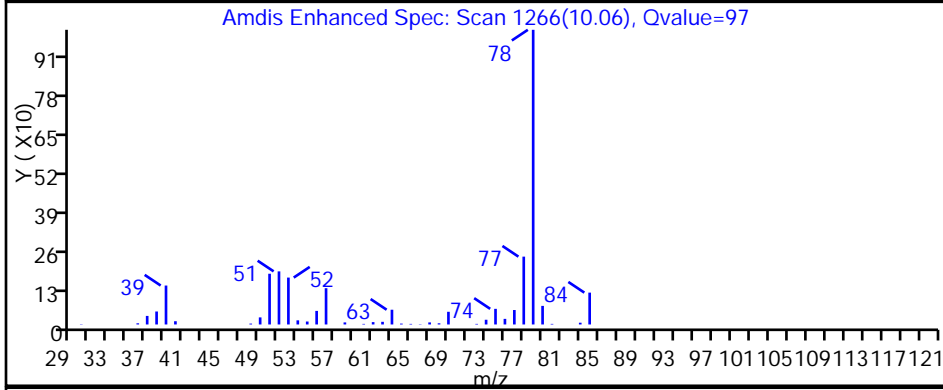
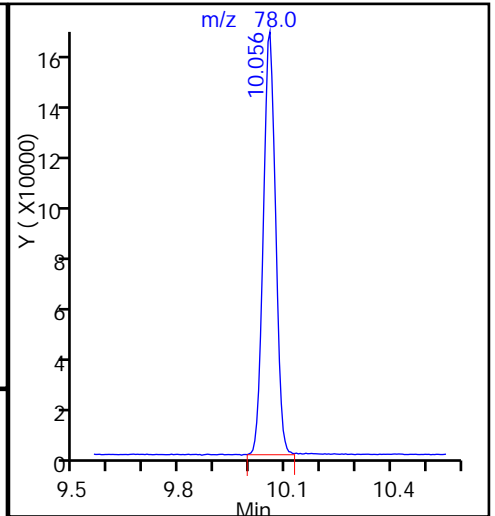
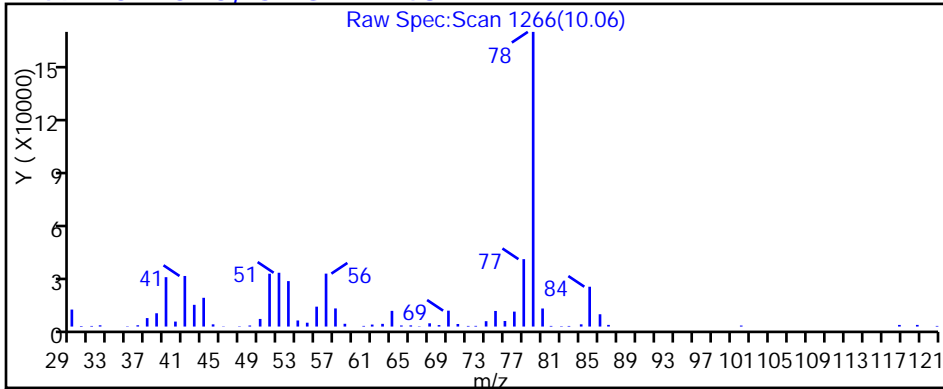
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

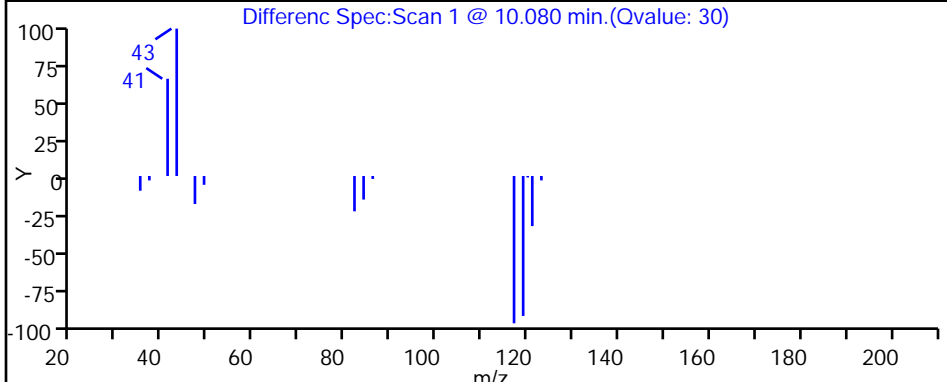
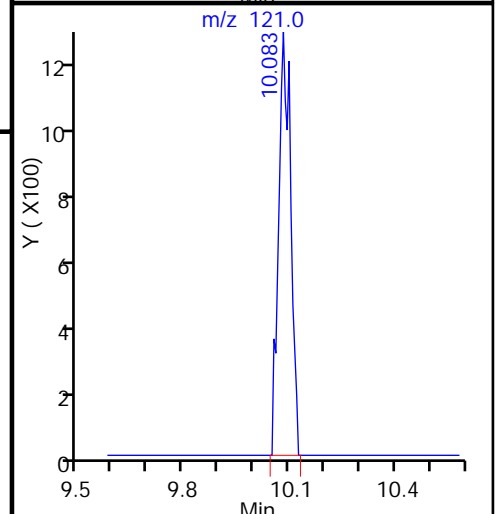
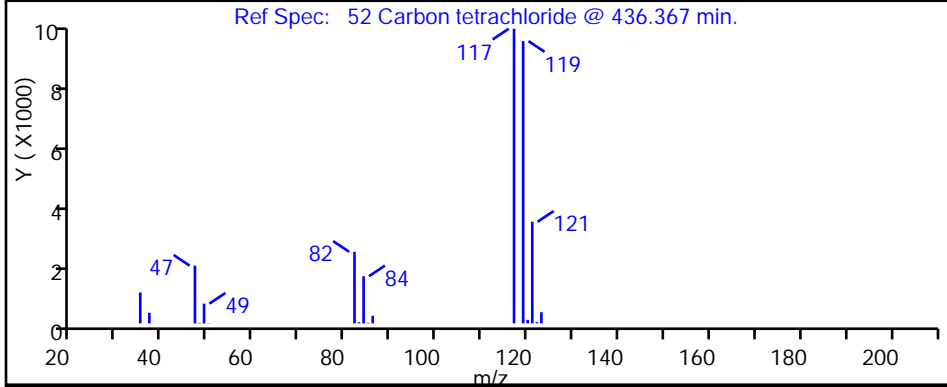
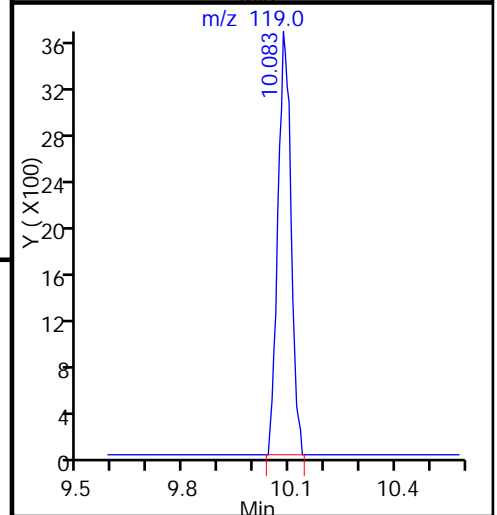
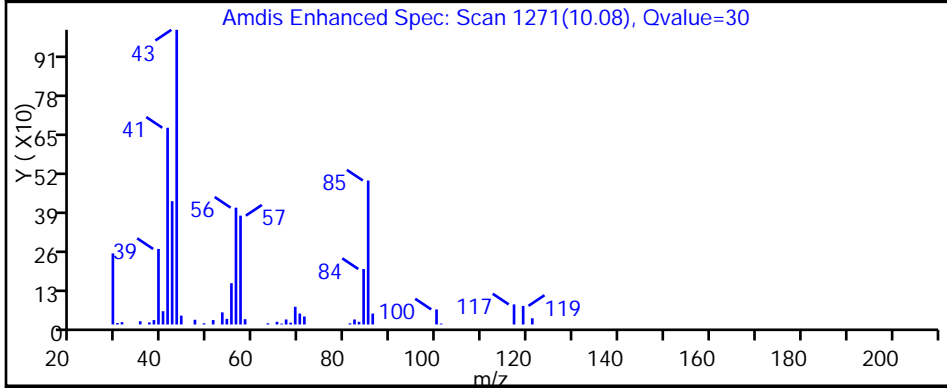
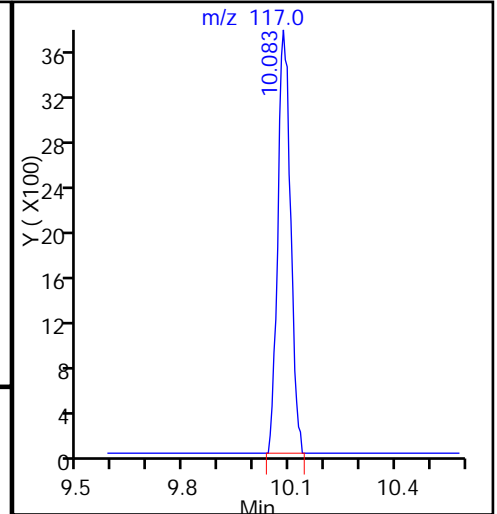
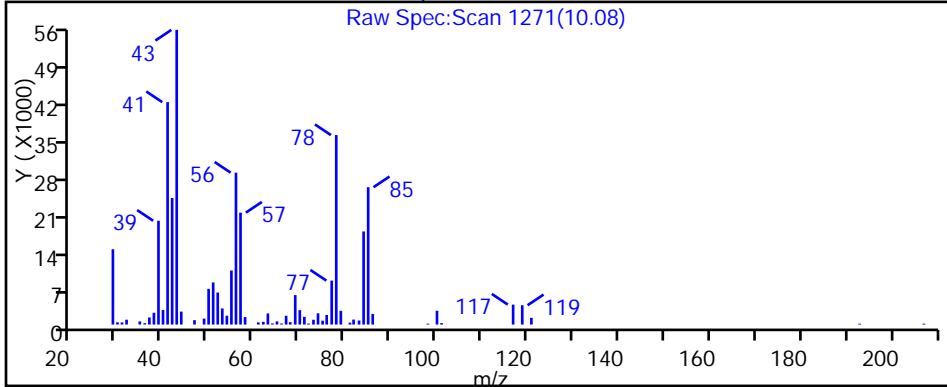
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

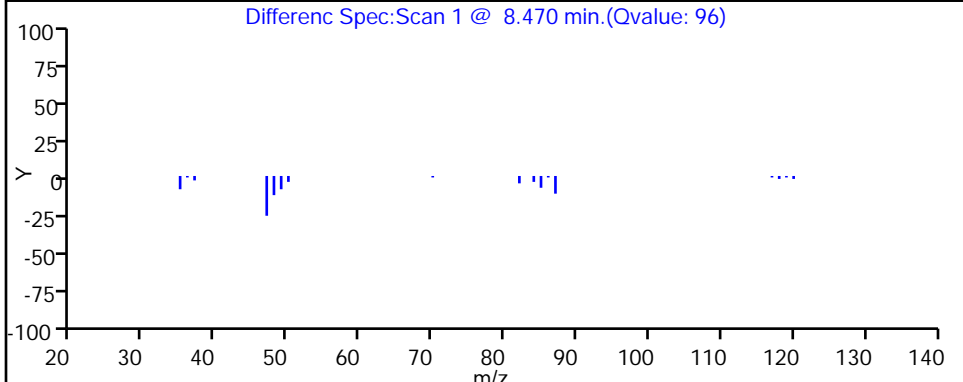
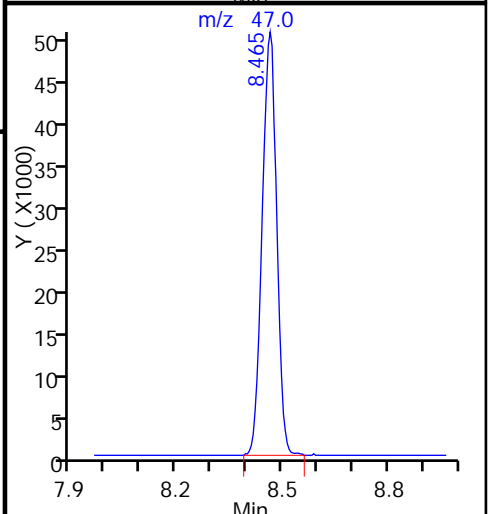
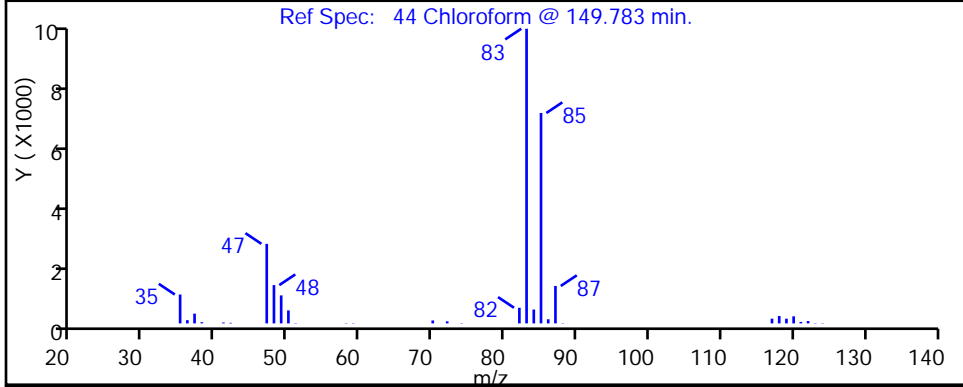
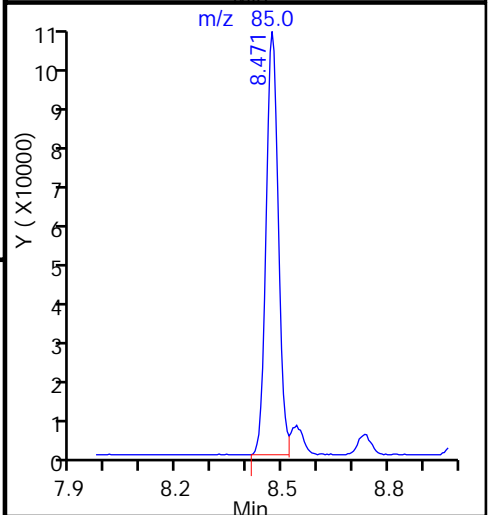
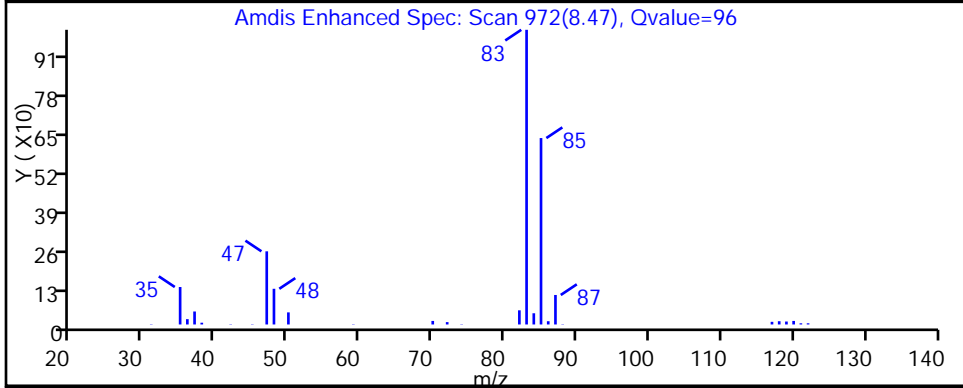
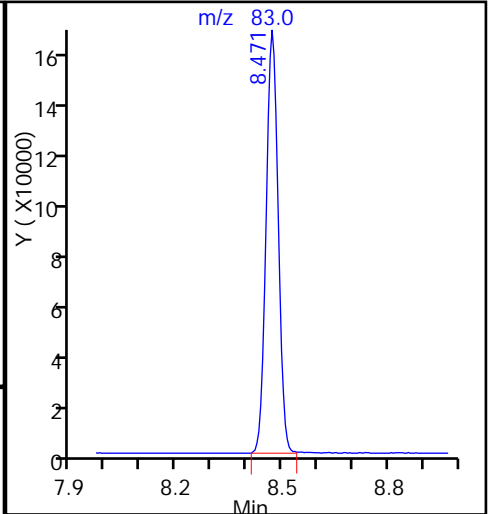
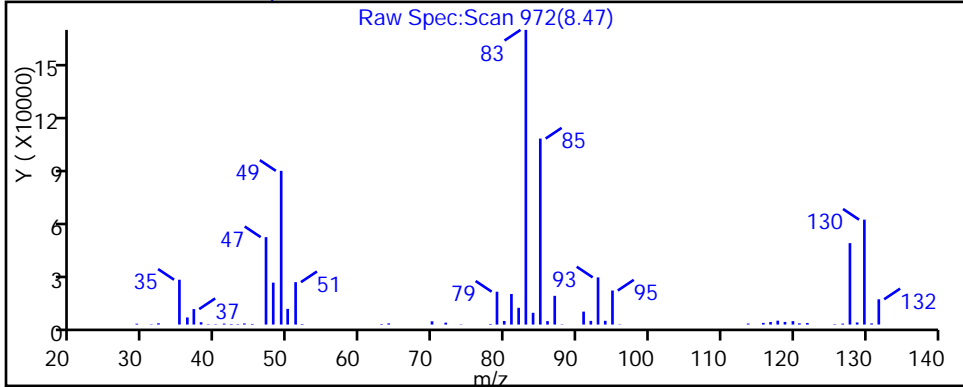
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

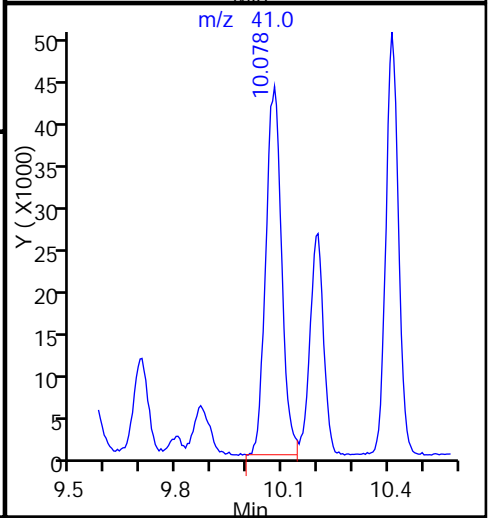
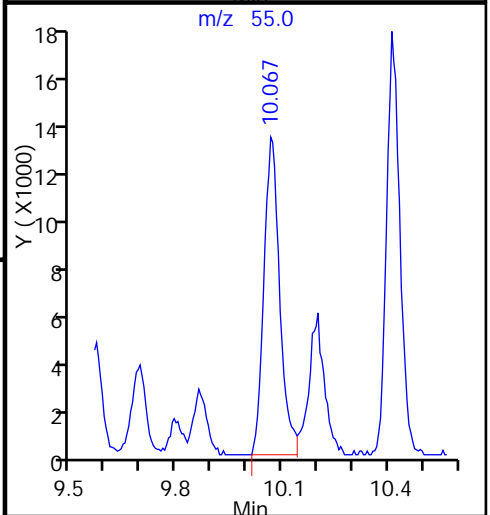
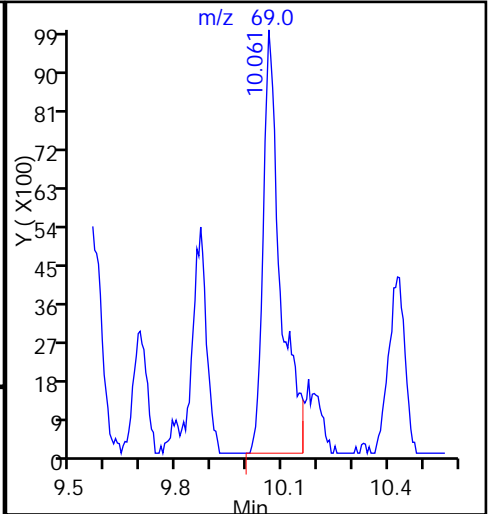
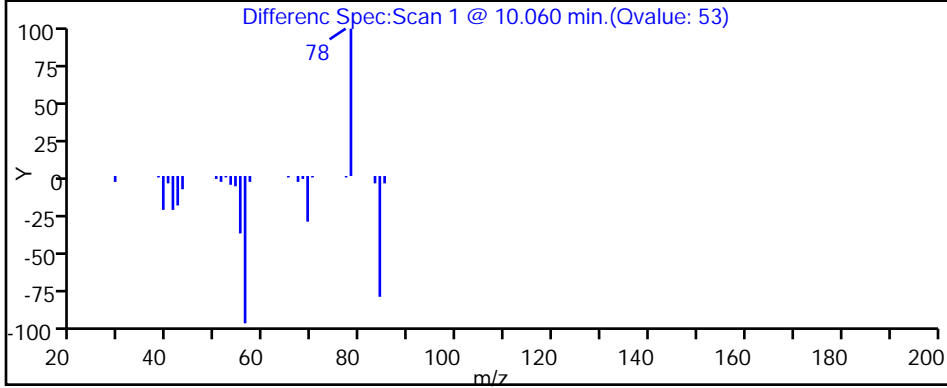
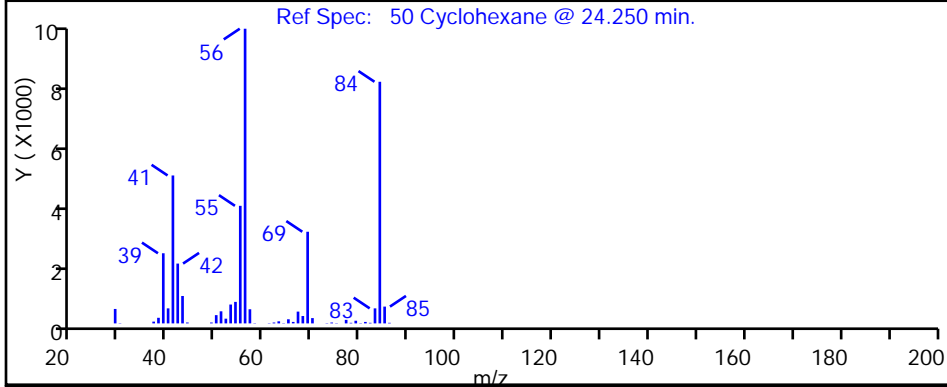
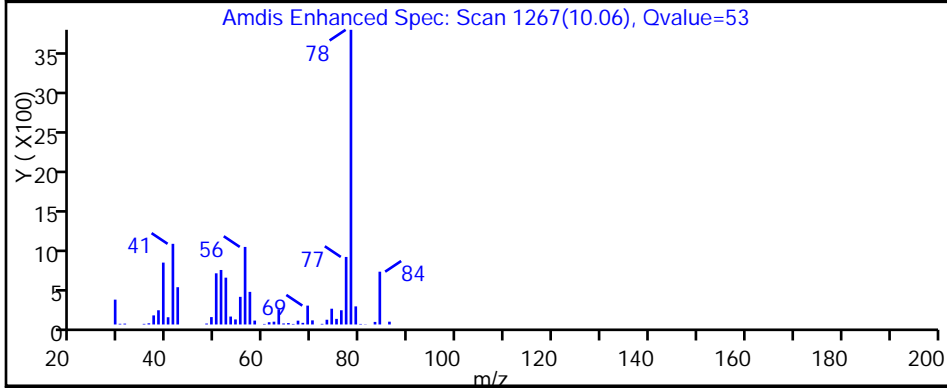
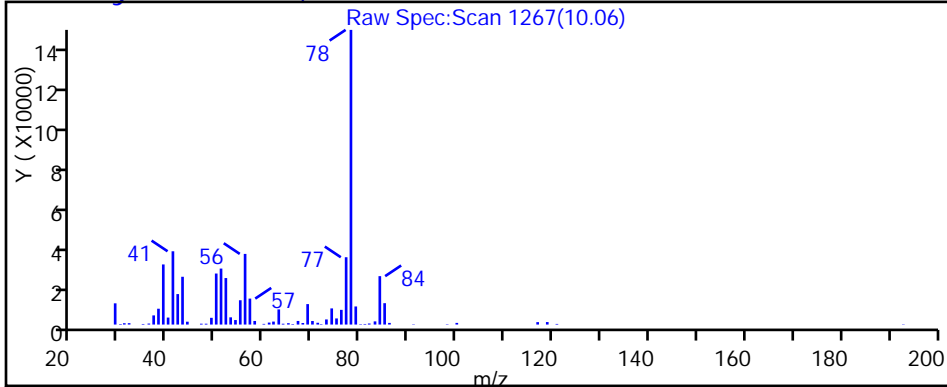
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

50 Cyclohexane, CAS: 110-82-7



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

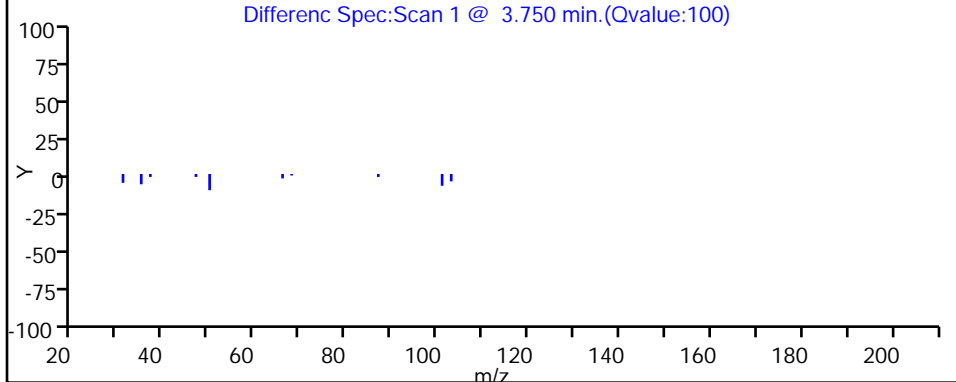
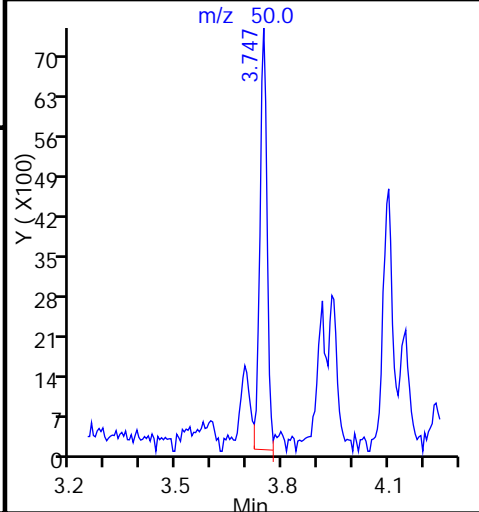
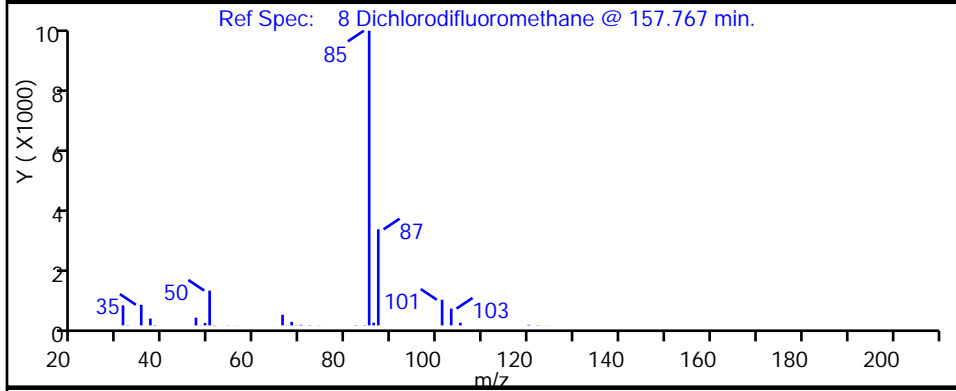
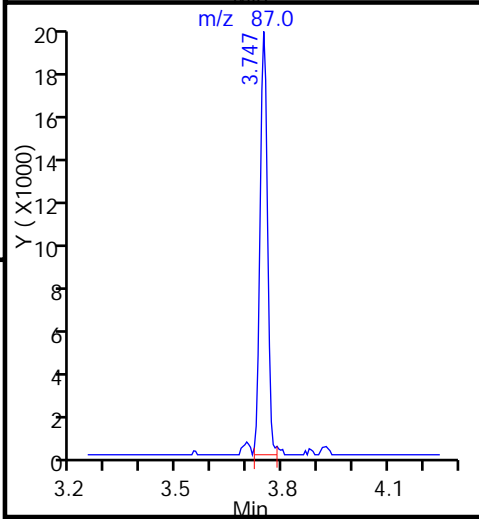
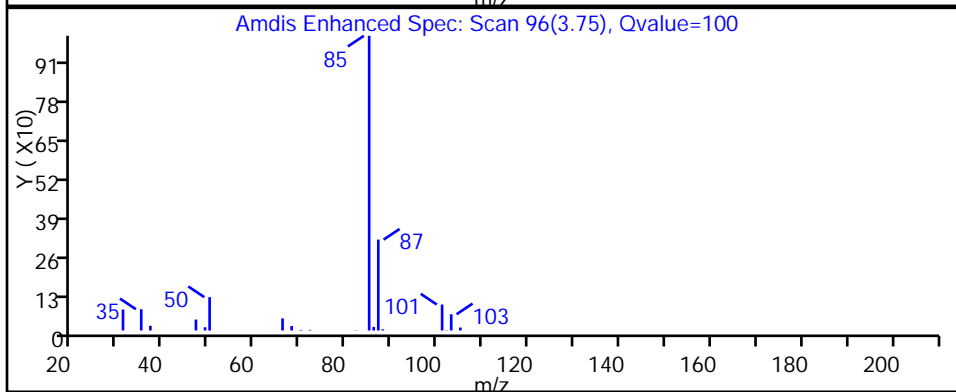
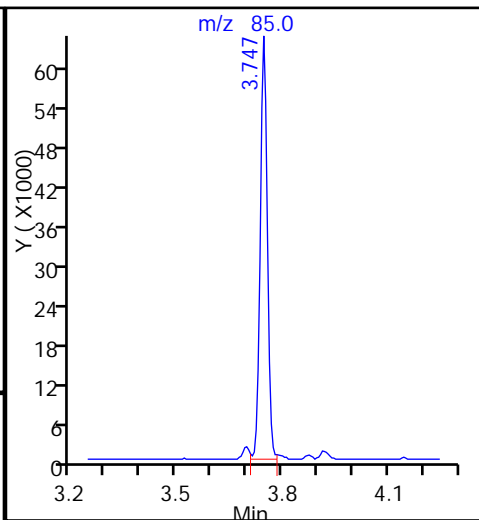
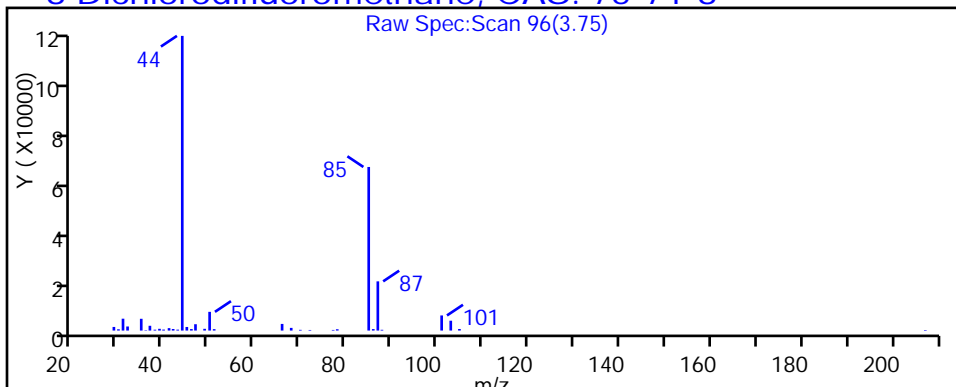
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

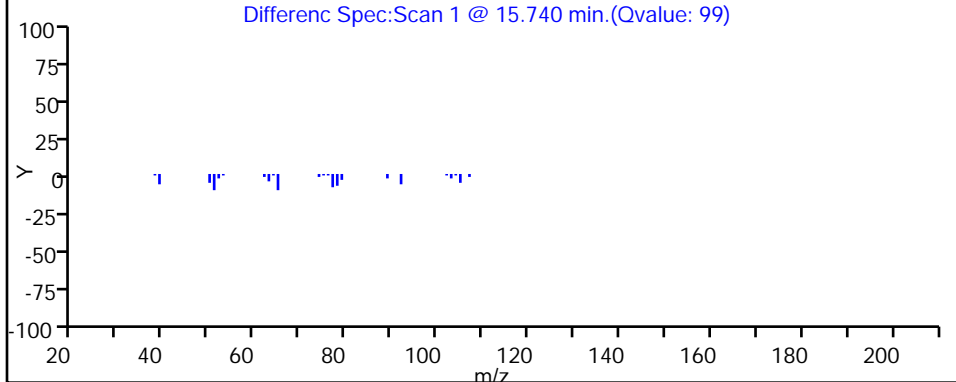
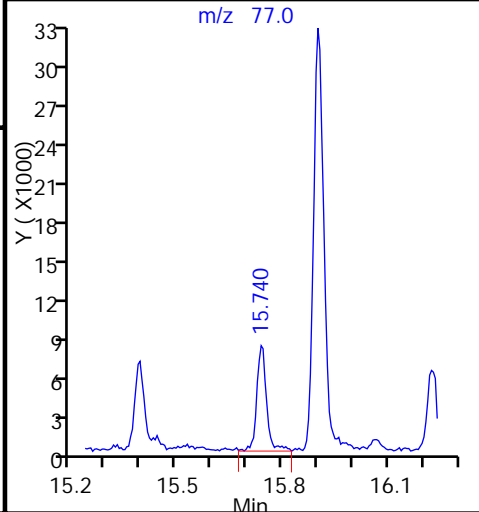
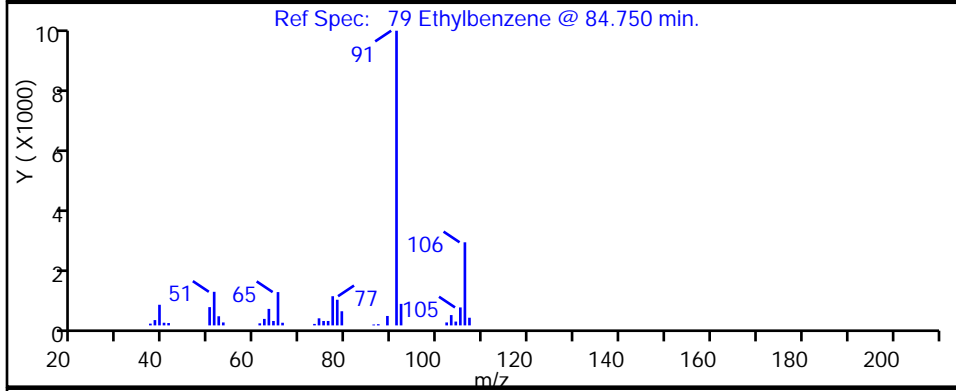
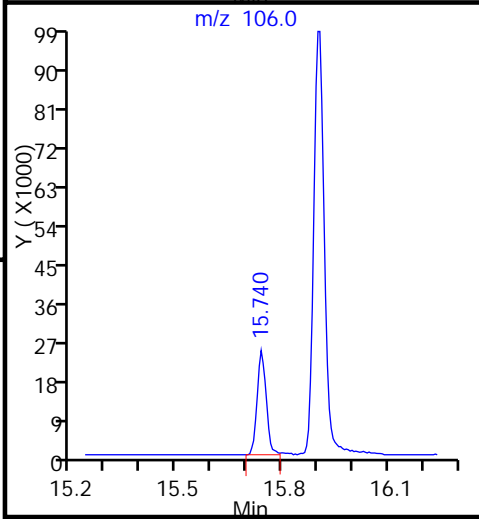
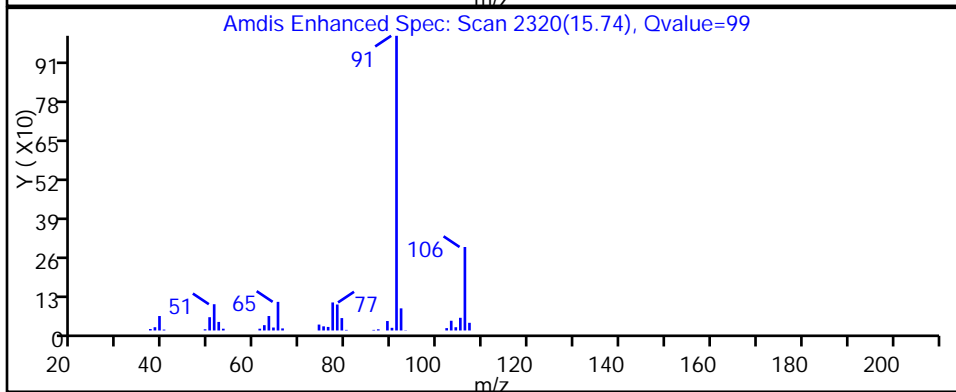
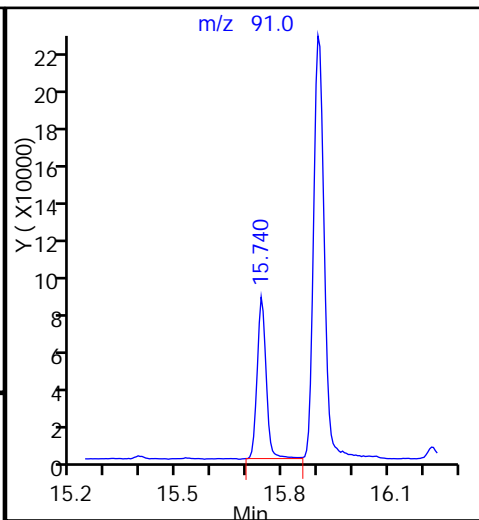
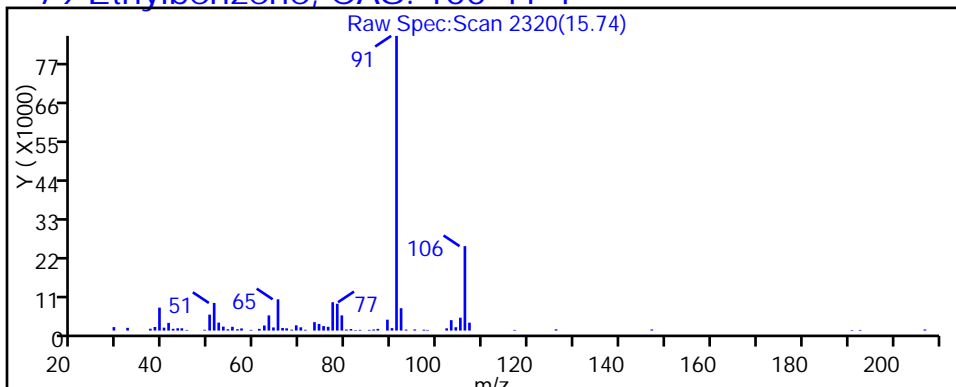
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

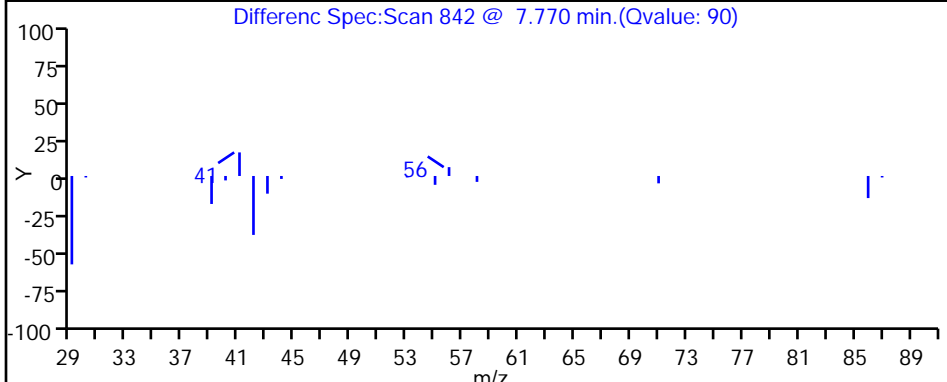
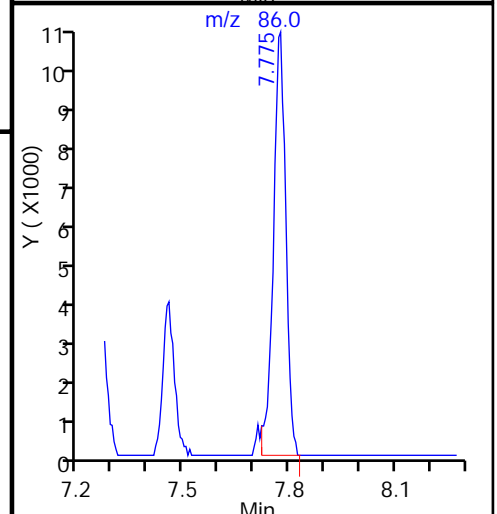
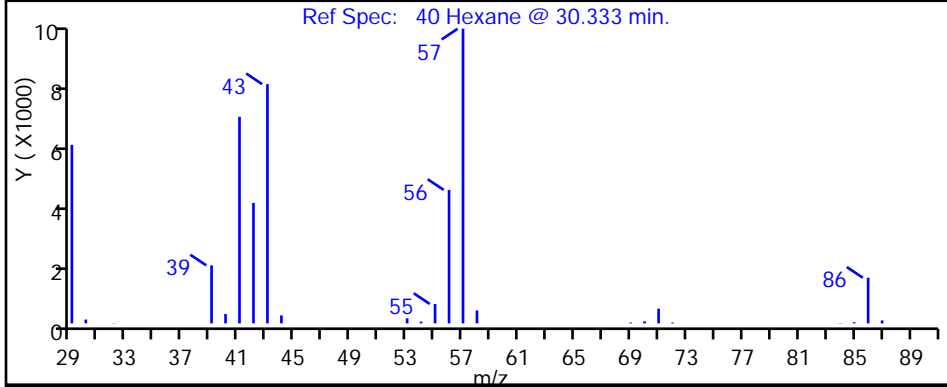
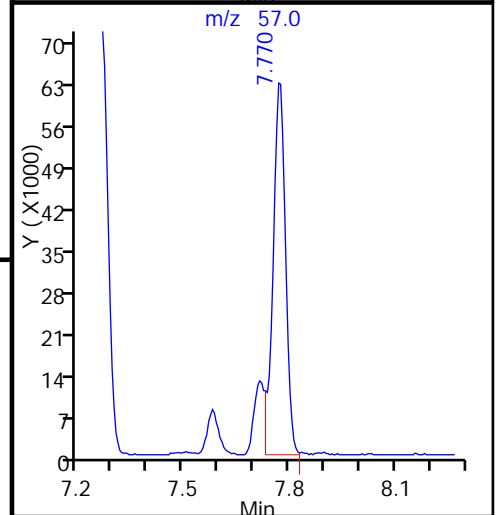
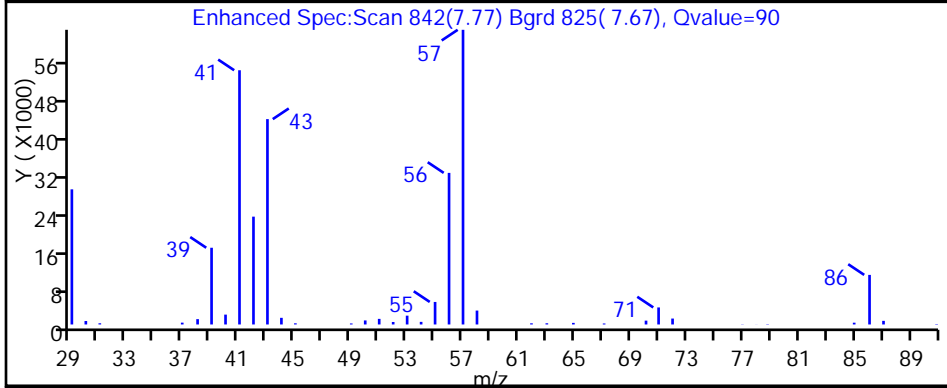
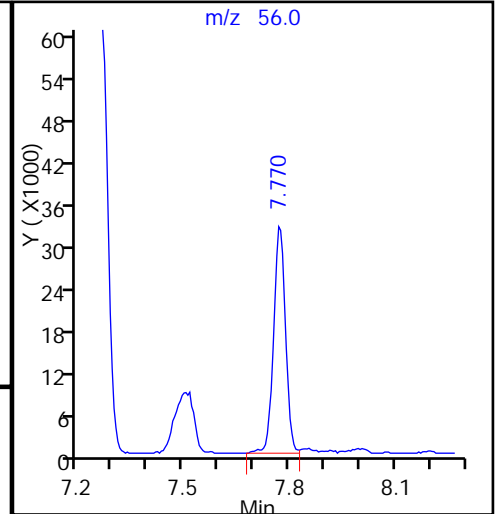
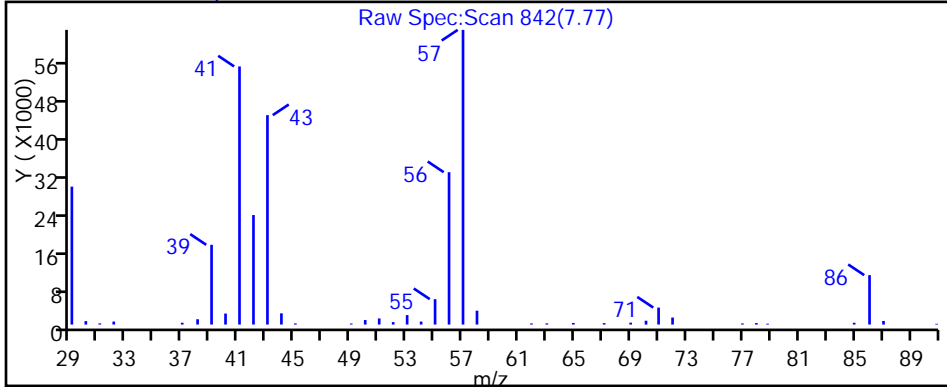
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

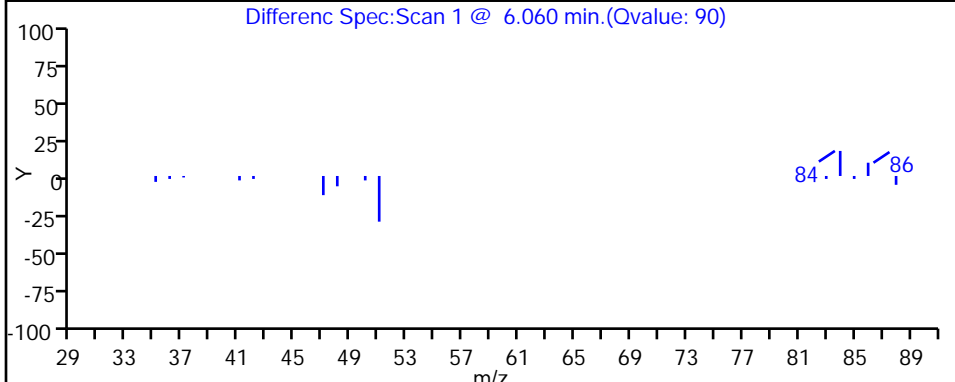
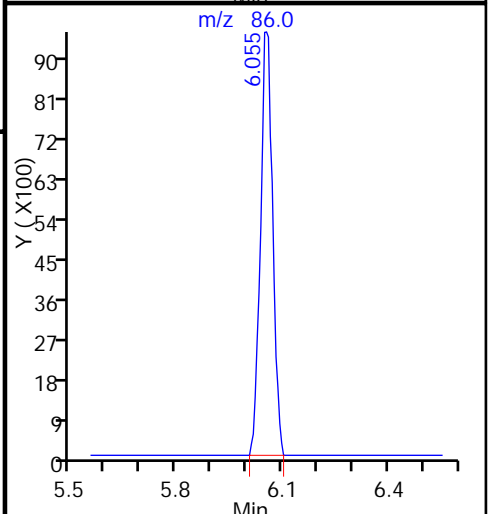
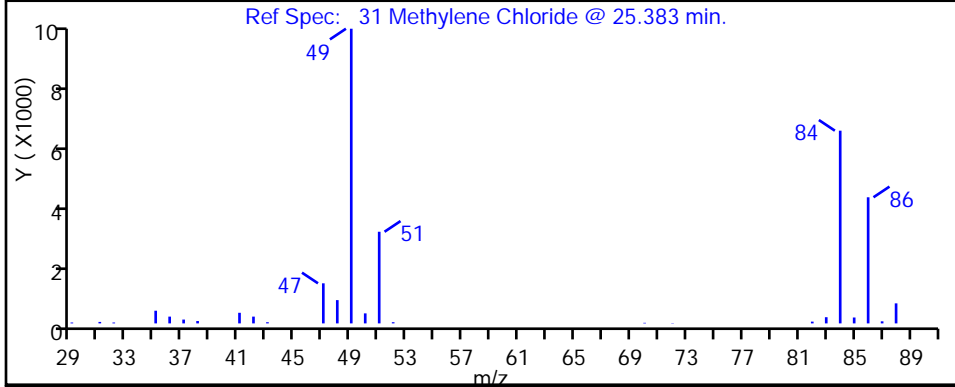
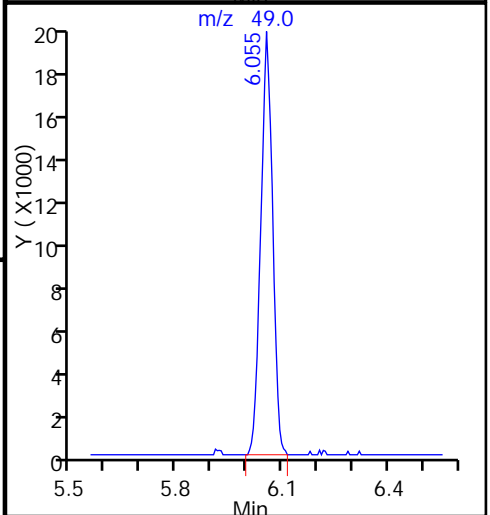
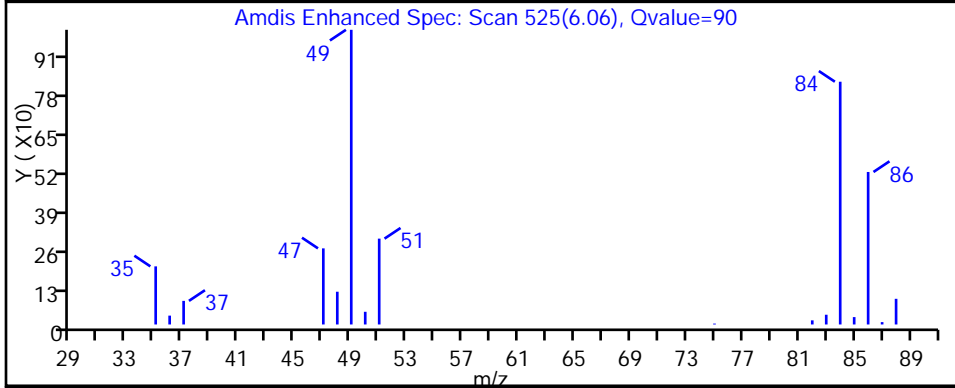
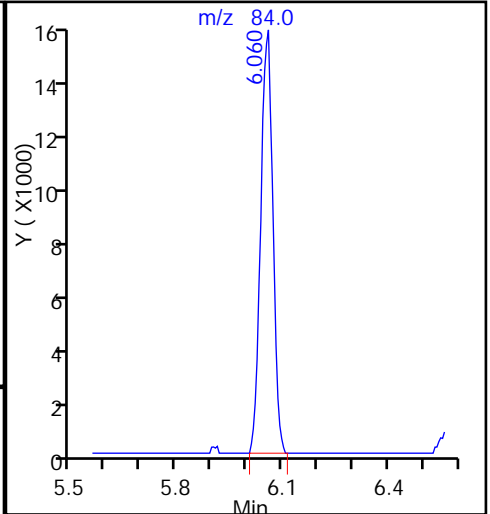
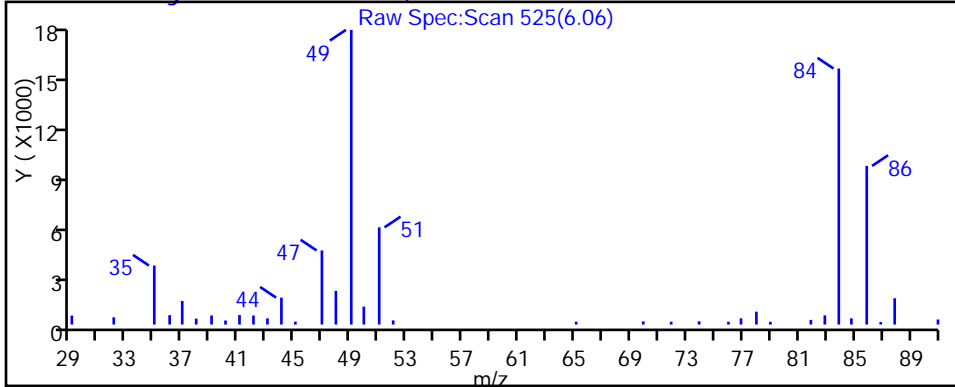
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

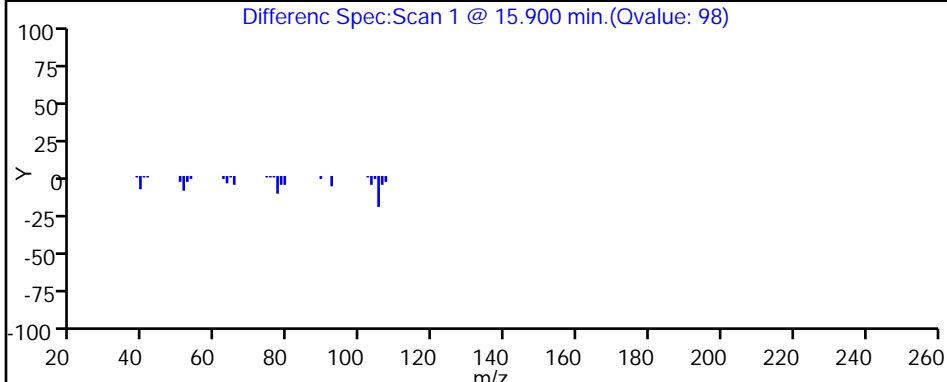
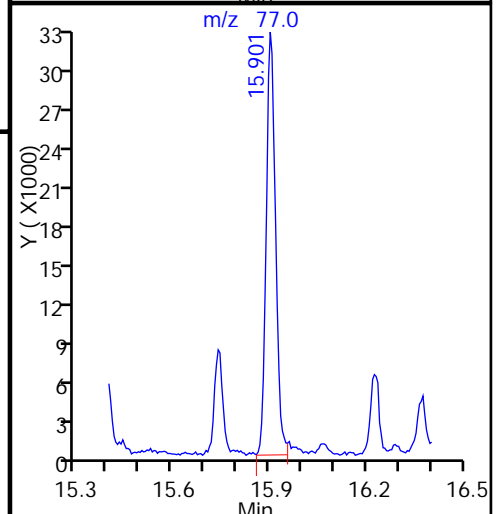
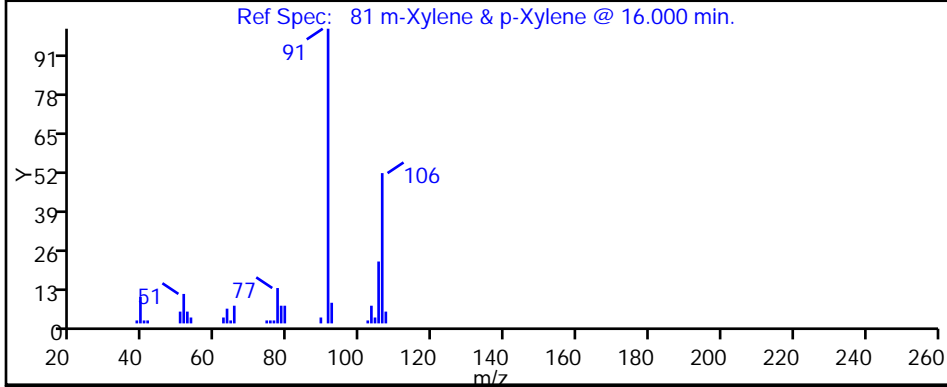
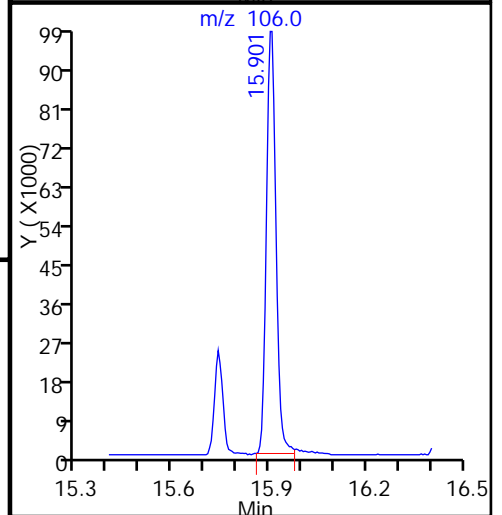
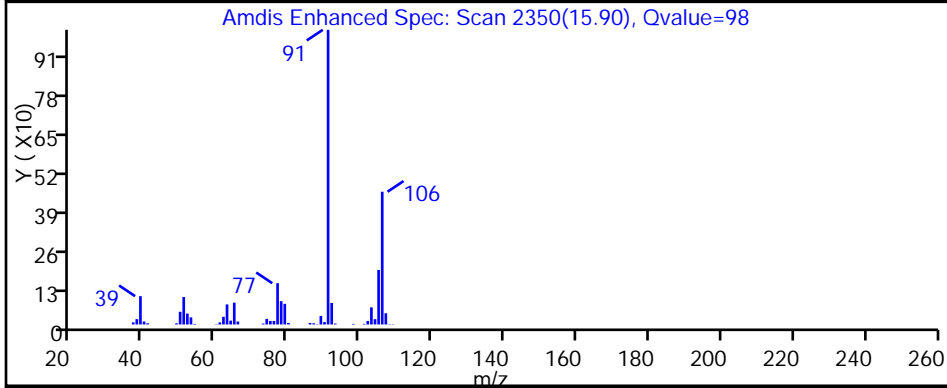
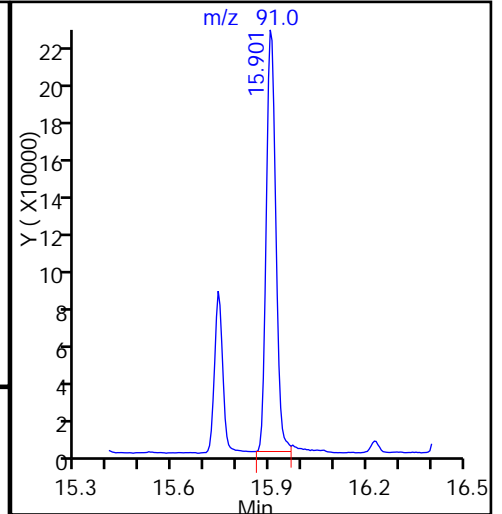
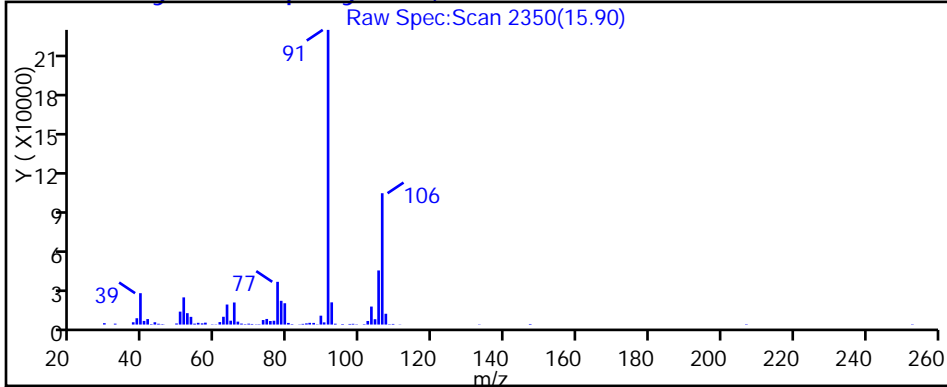
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

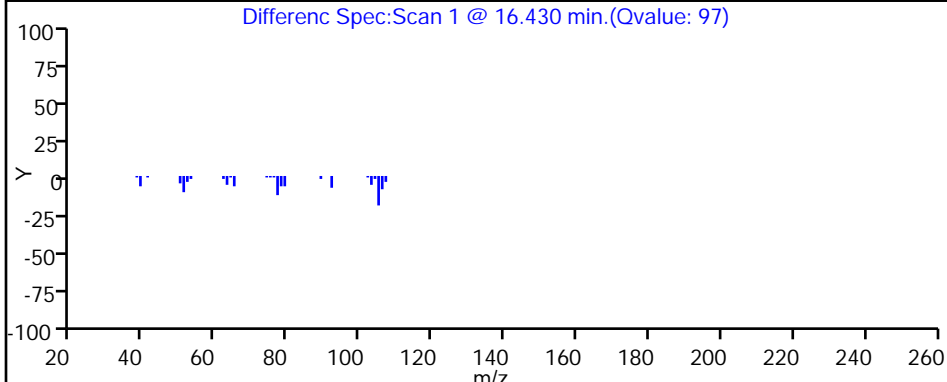
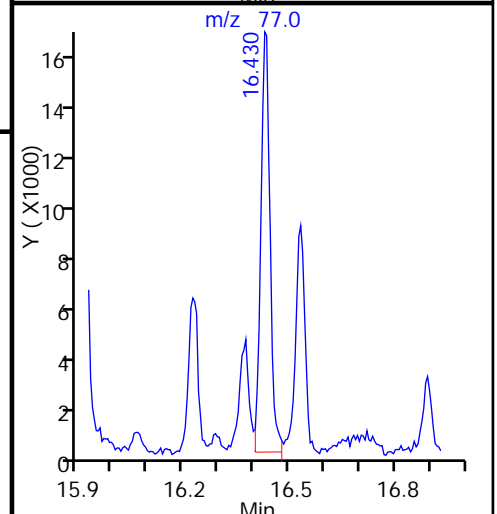
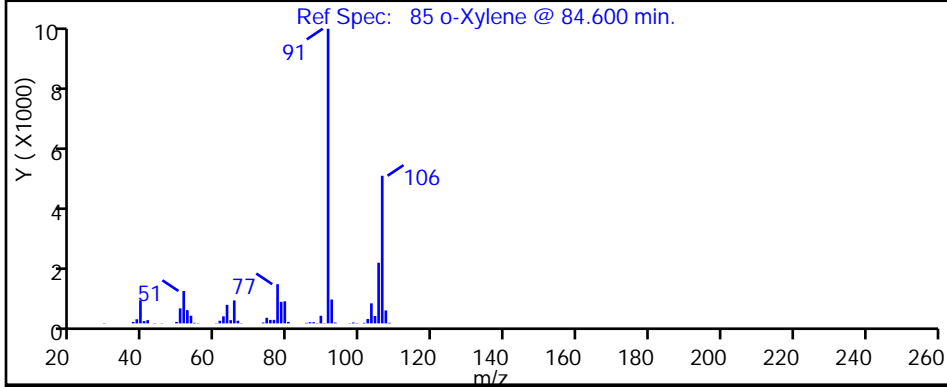
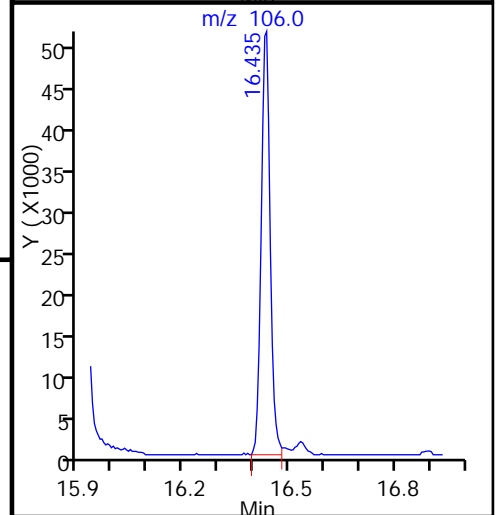
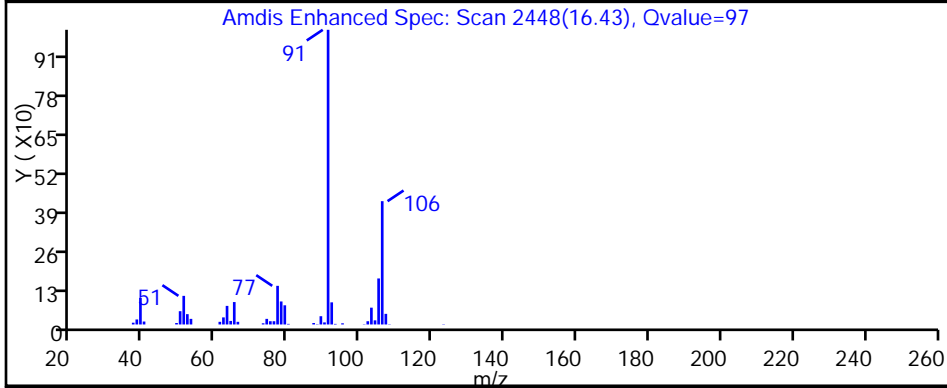
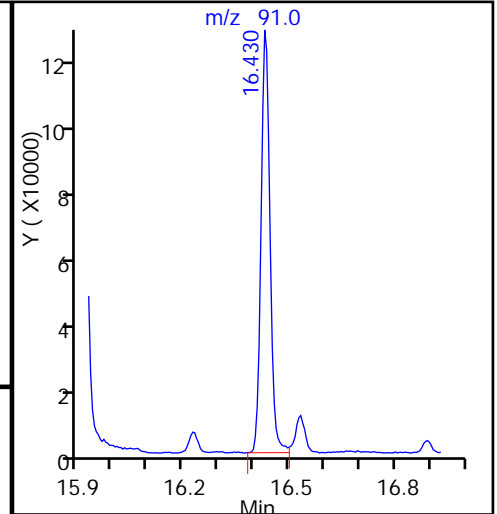
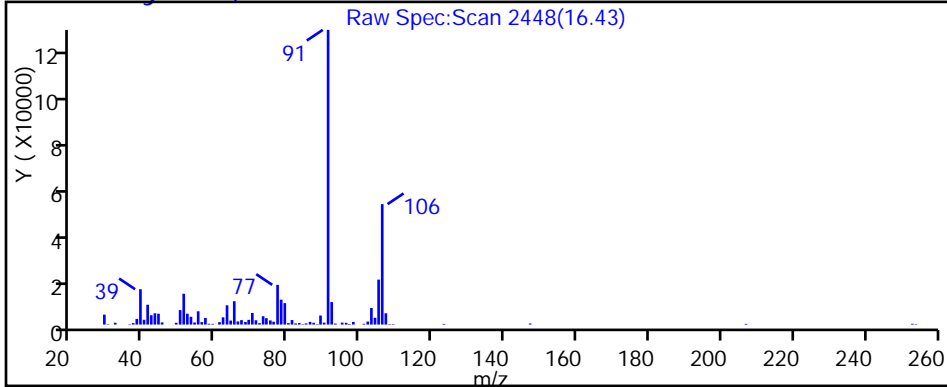
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

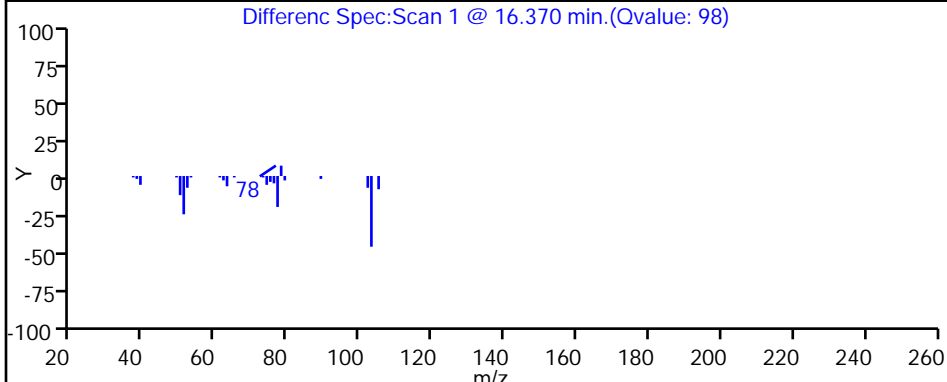
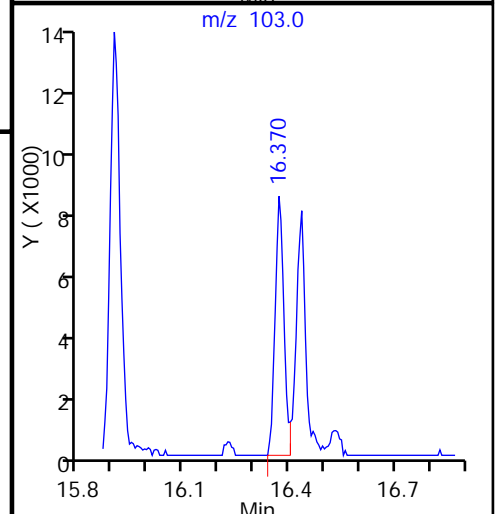
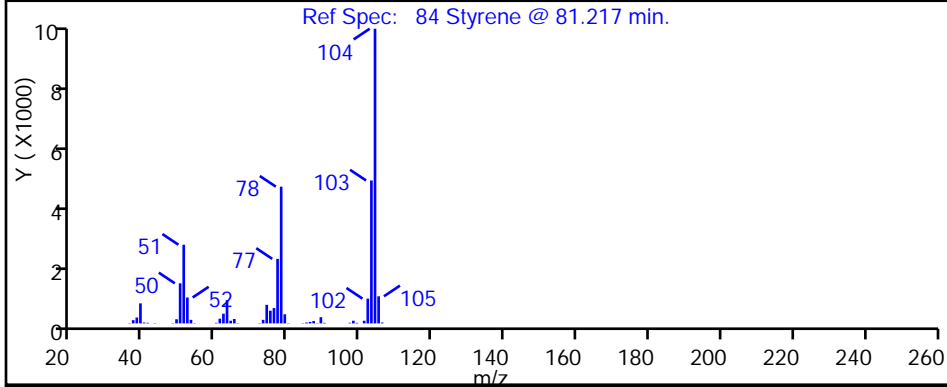
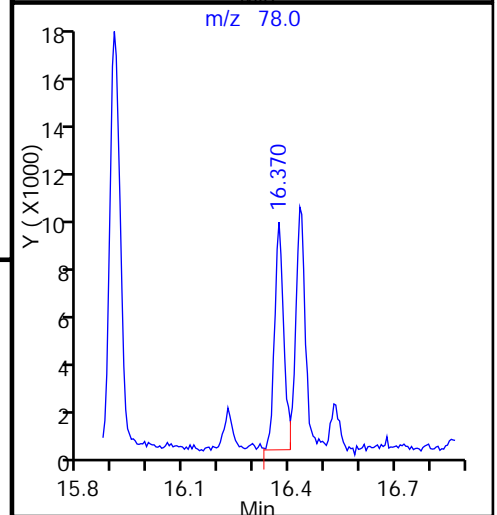
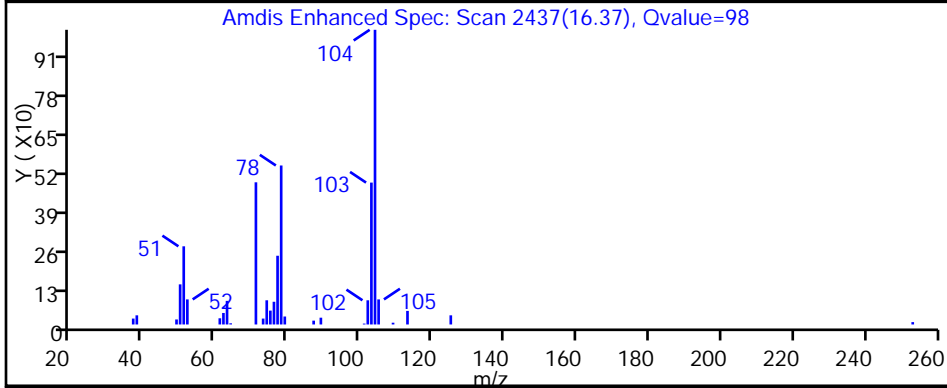
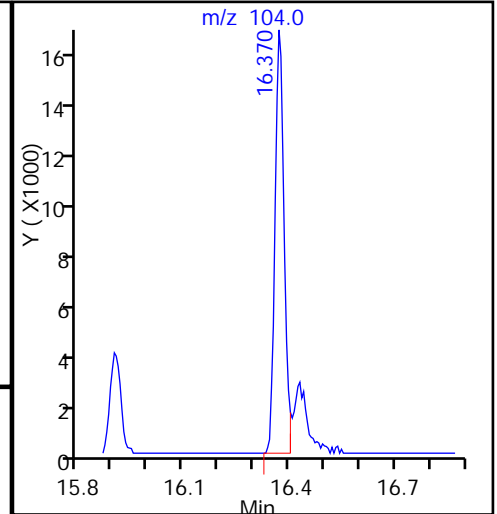
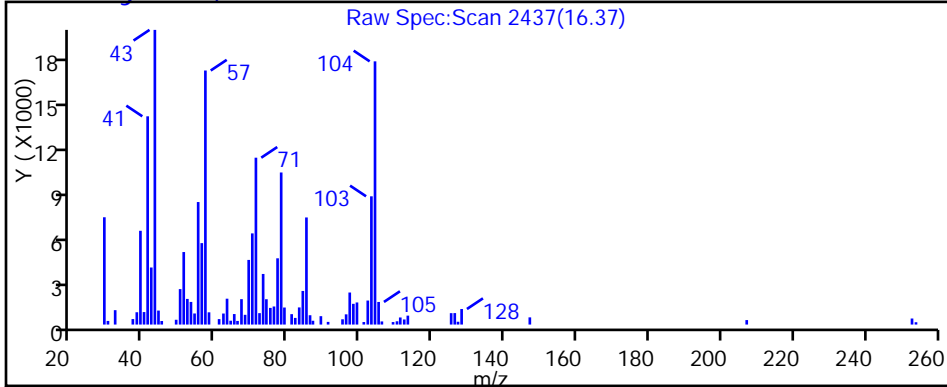
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

84 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

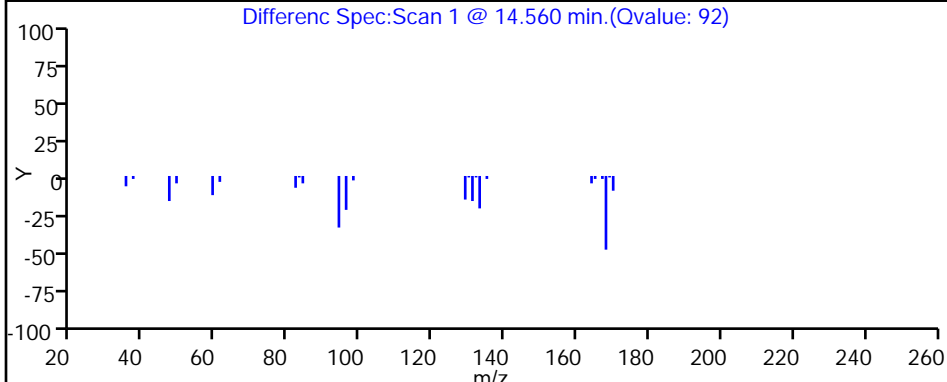
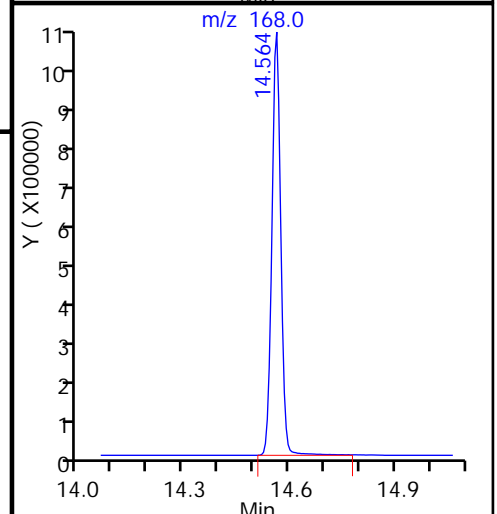
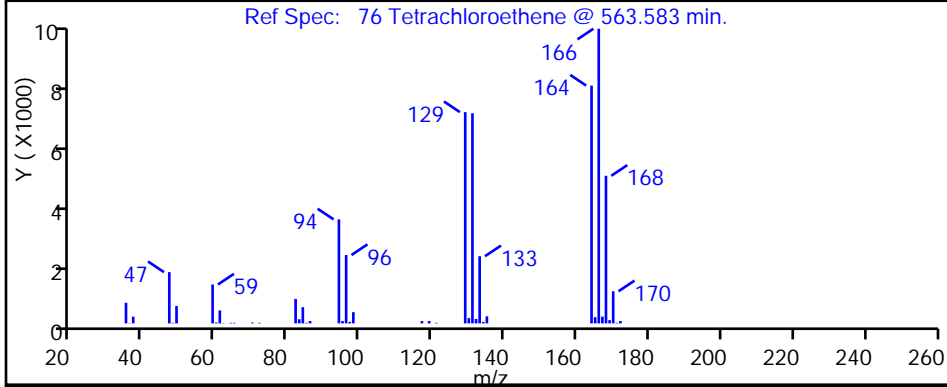
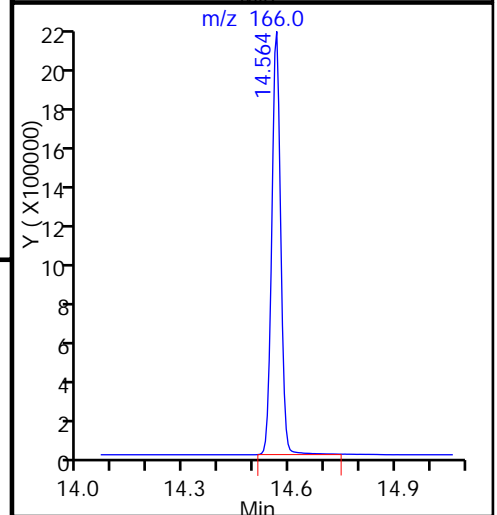
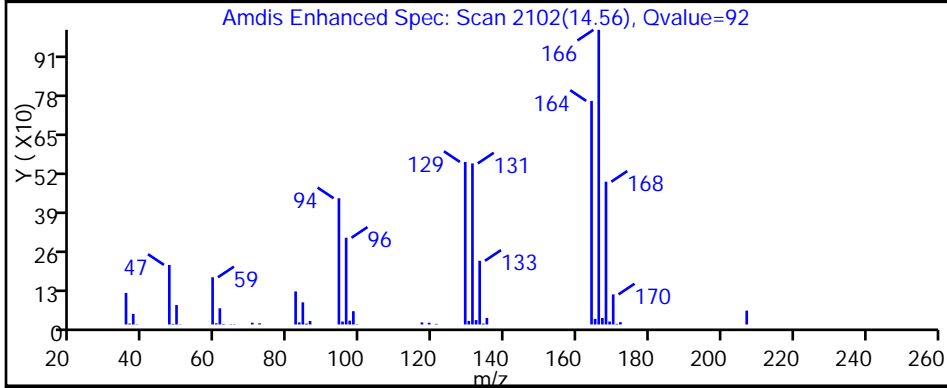
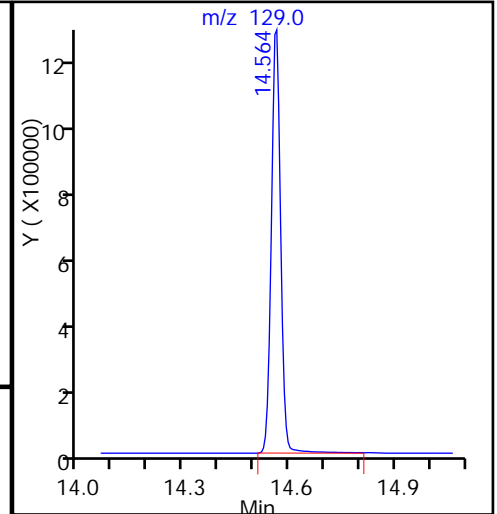
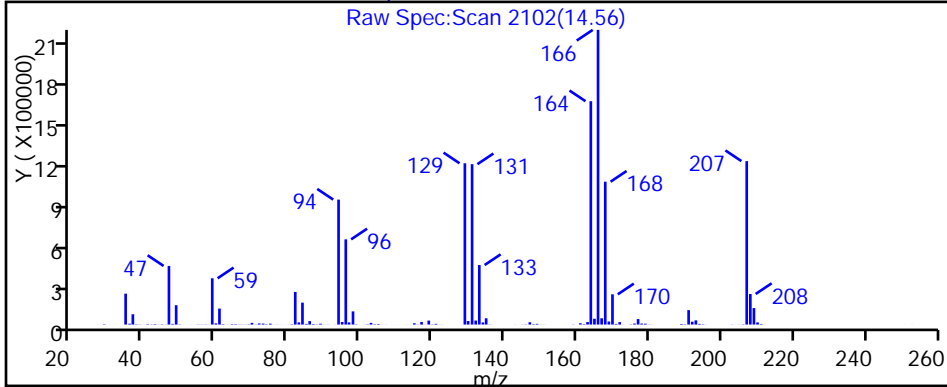
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

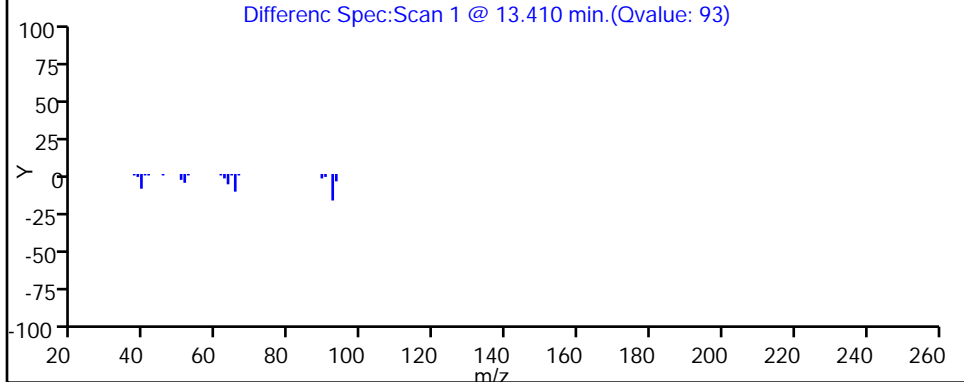
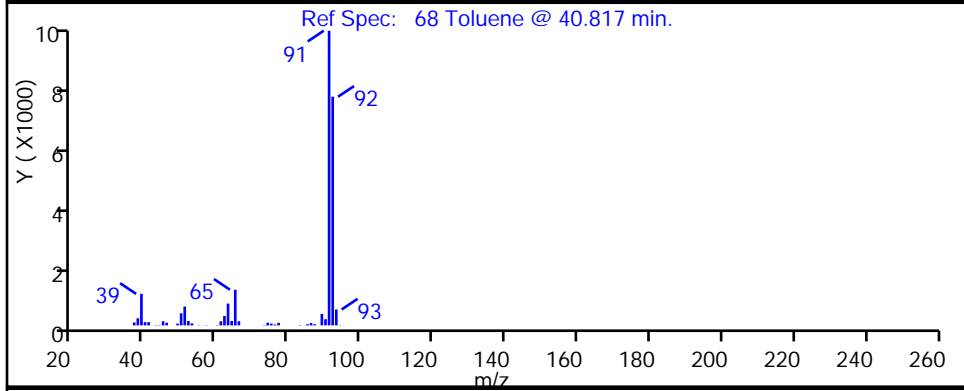
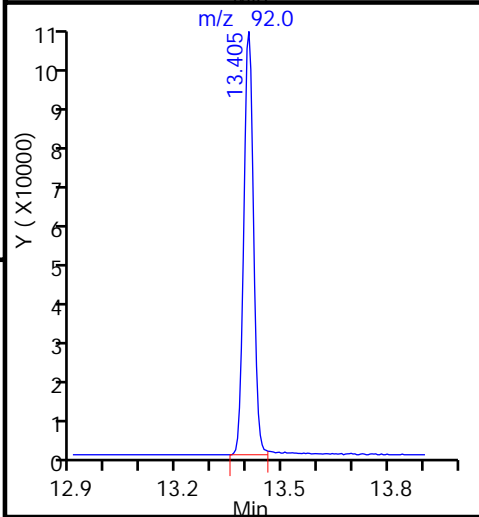
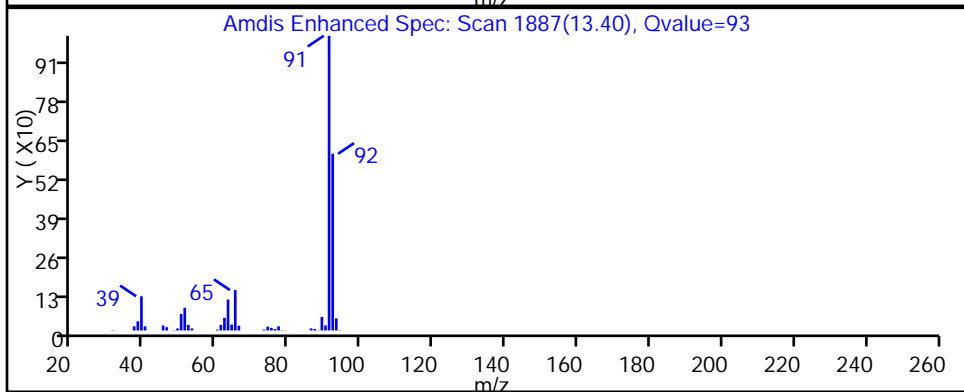
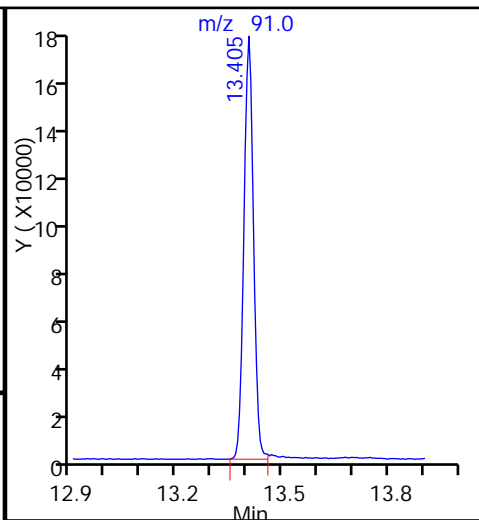
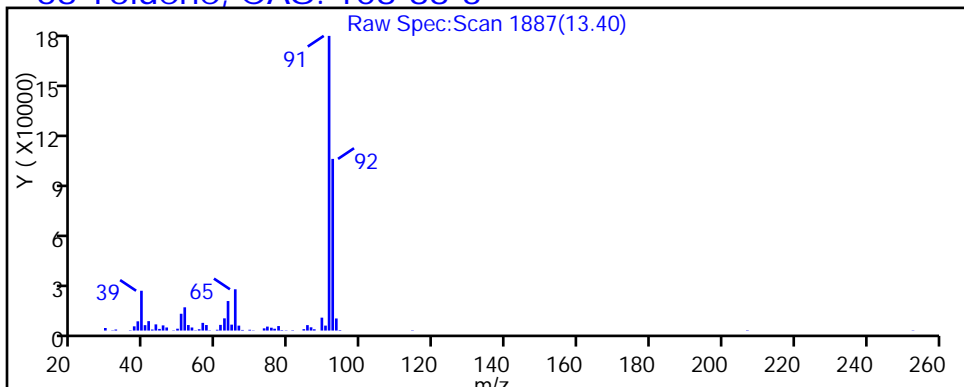
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

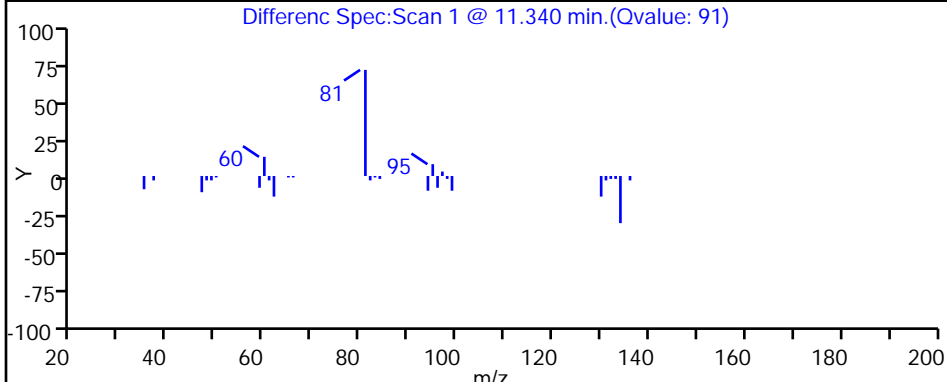
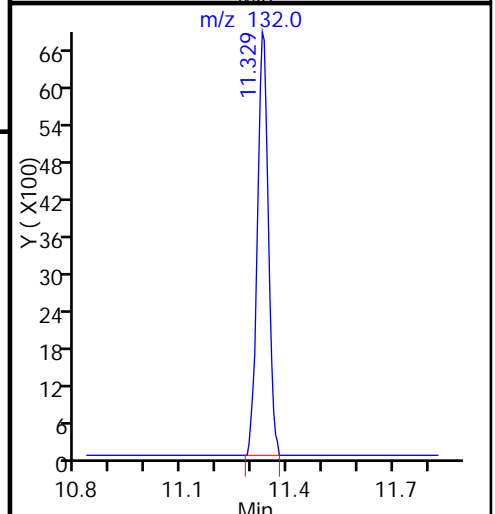
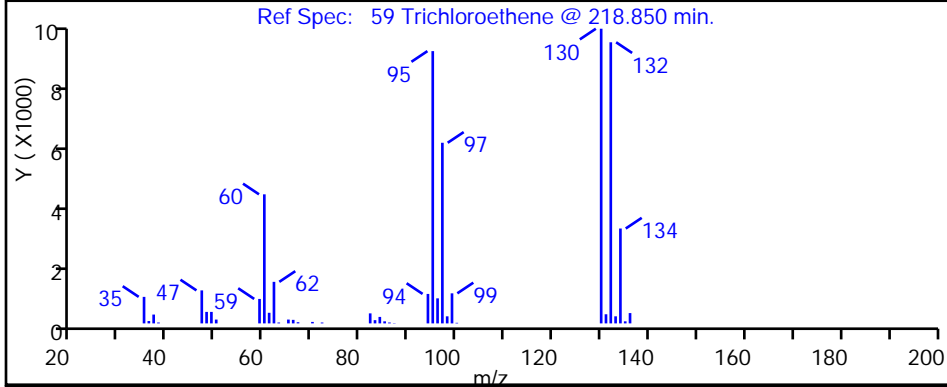
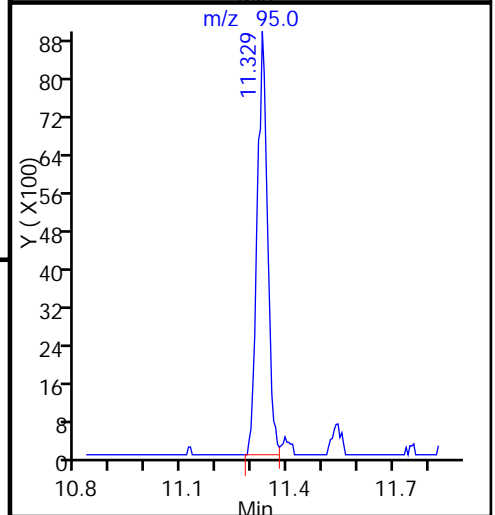
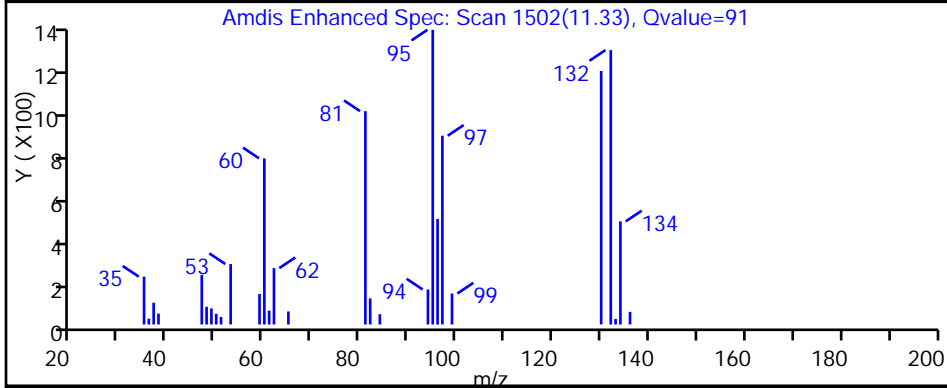
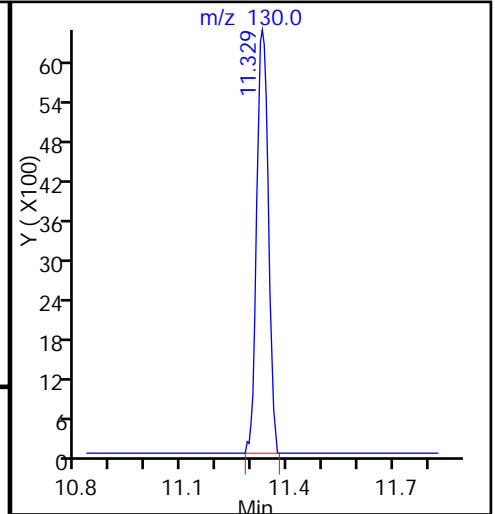
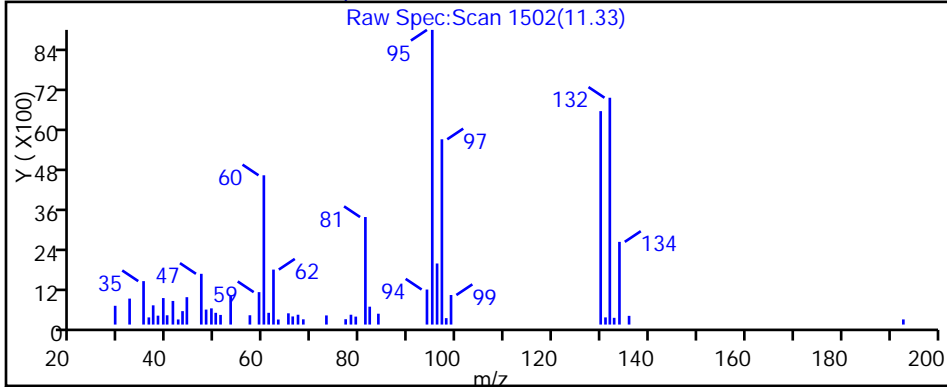
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

59 Trichloroethene, CAS: 79-01-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D

Injection Date: 21-Sep-2016 22:16:30

Instrument ID: MG

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

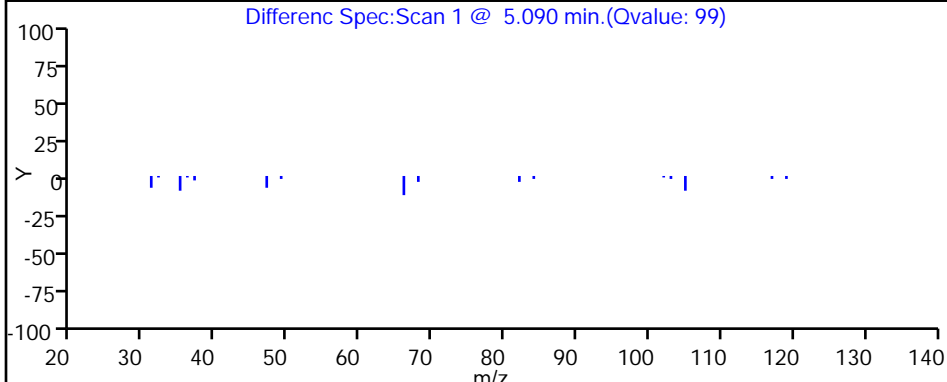
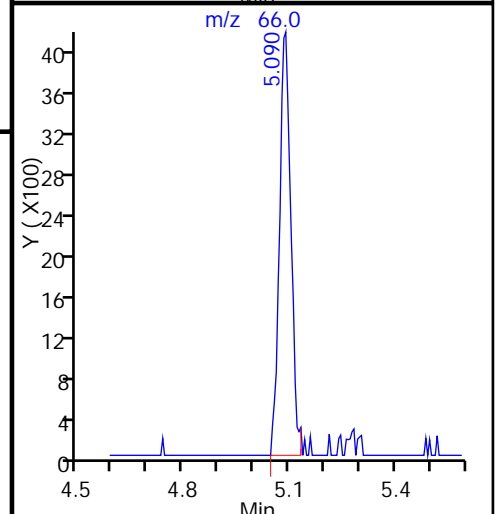
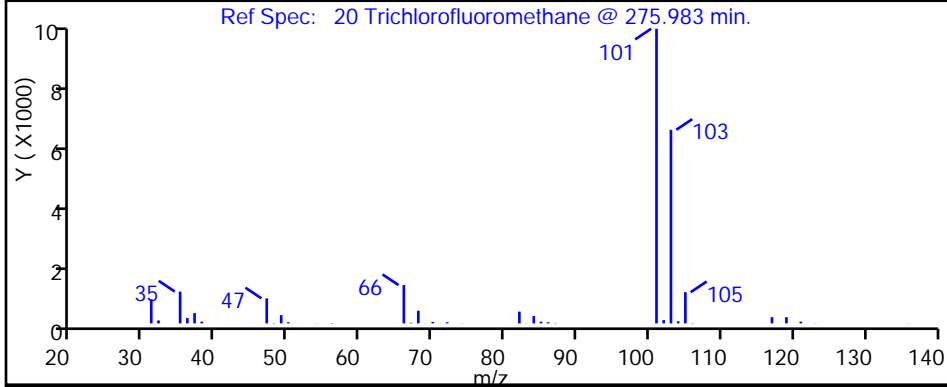
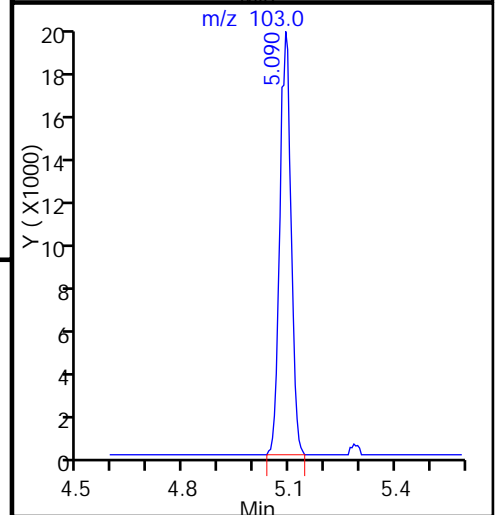
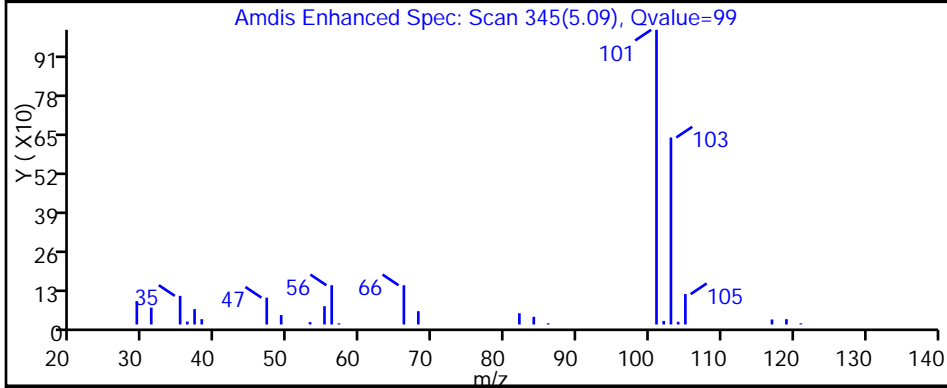
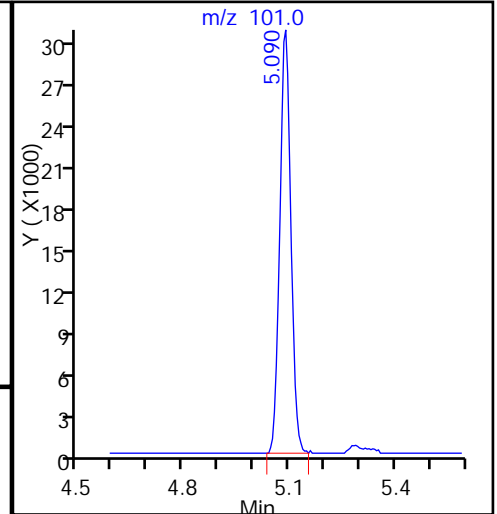
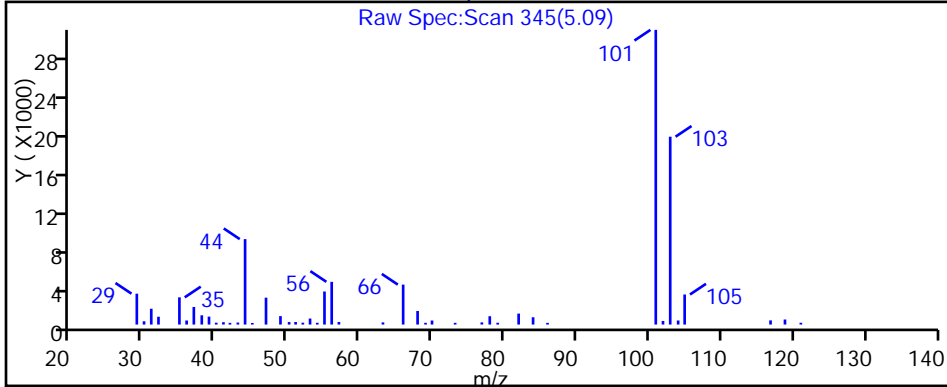
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Knoxville

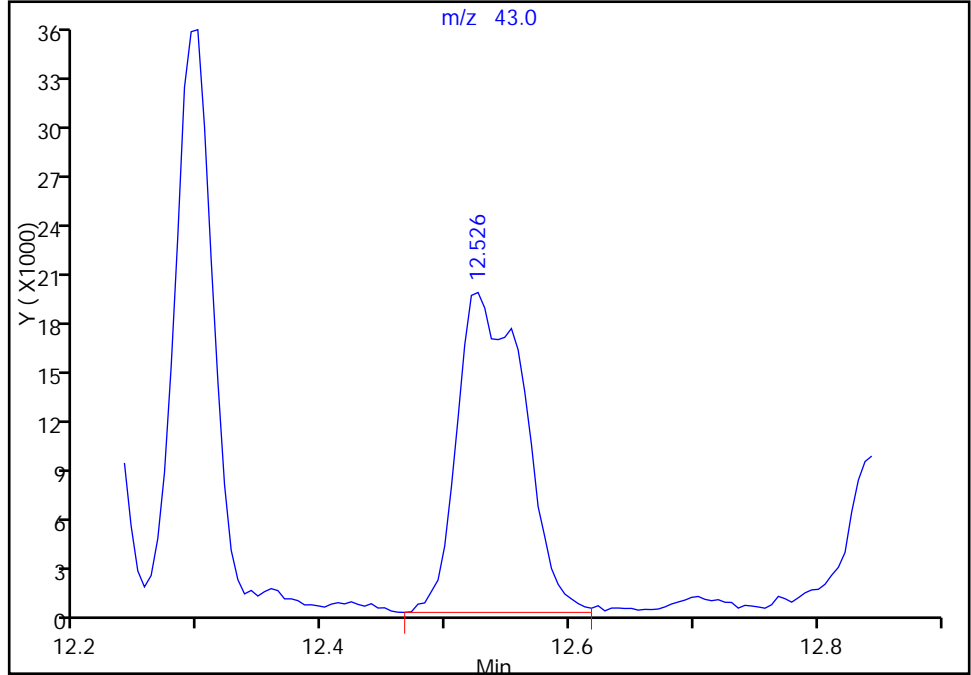
Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D
Injection Date: 21-Sep-2016 22:16:30 Instrument ID: MG
Lims ID: 140-5852-A-9 Lab Sample ID: 140-5852-9
Client ID: VP-100
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MG_TO15 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

Signal: 1

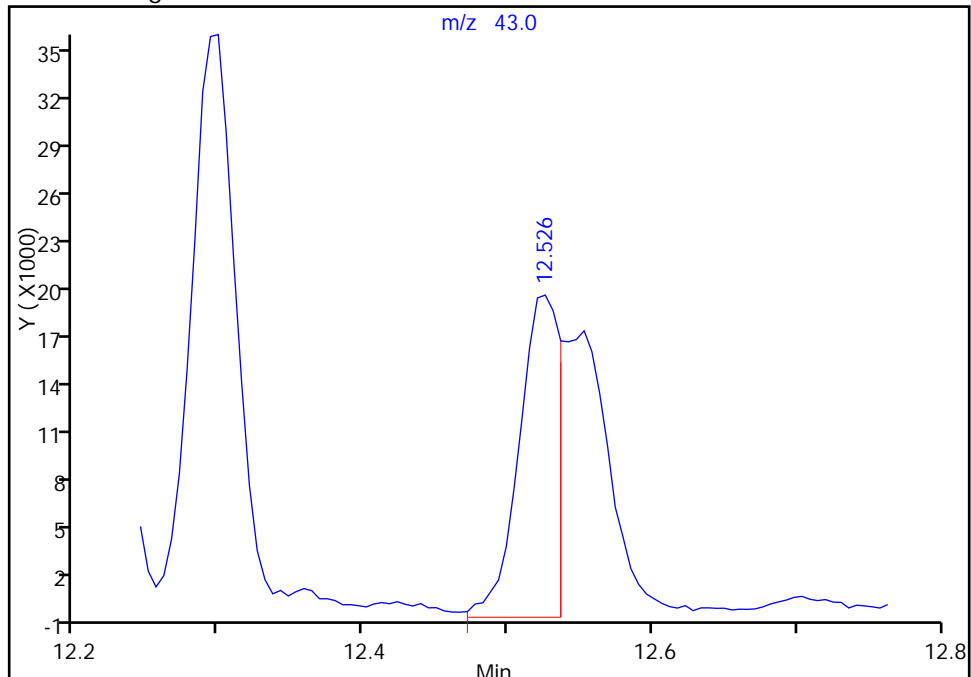
RT: 12.53
Area: 72244
Amount: 0.367869
Amount Units: ppb v/v

Processing Integration Results



RT: 12.53
Area: 38889
Amount: 0.179286
Amount Units: ppb v/v

Manual Integration Results



Reviewer: tajh, 22-Sep-2016 14:02:36
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Knoxville

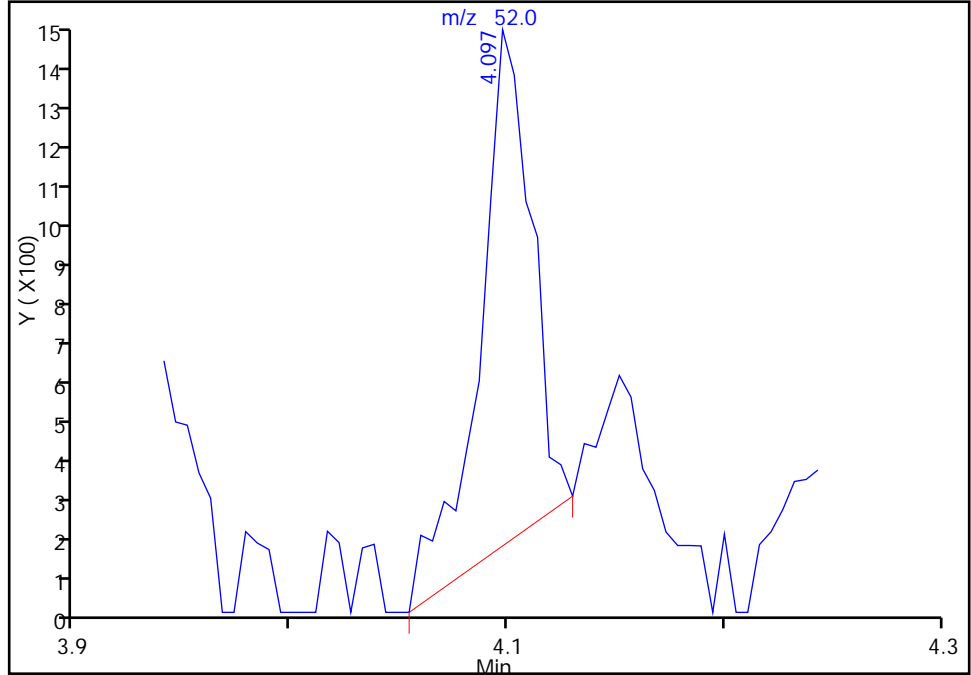
Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P109.D
Injection Date: 21-Sep-2016 22:16:30 Instrument ID: MG
Lims ID: 140-5852-A-9 Lab Sample ID: 140-5852-9
Client ID: VP-100
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MG_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

Signal: 1

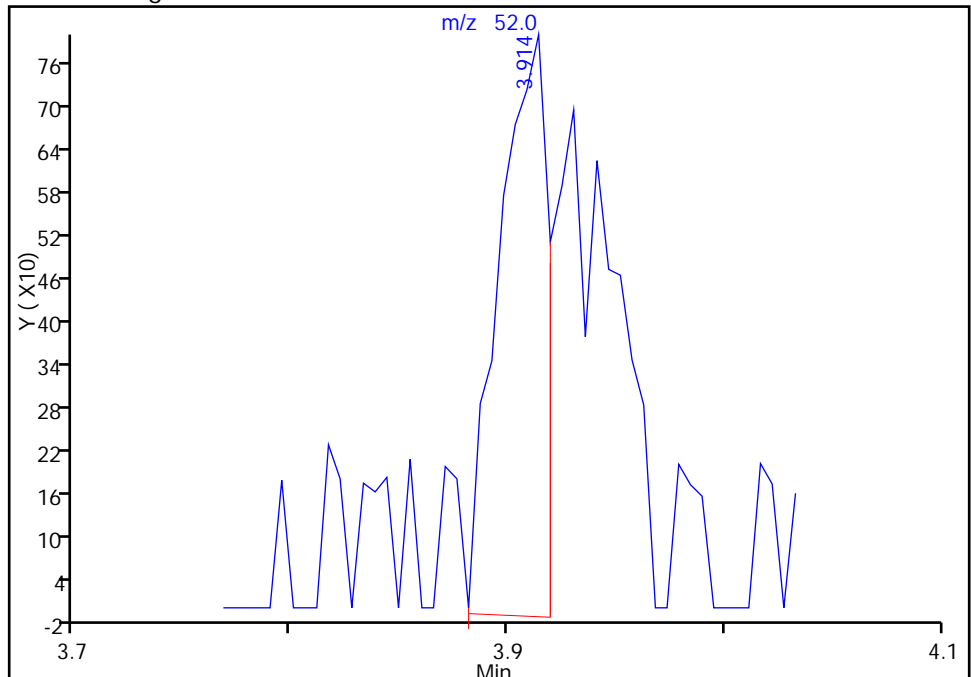
RT: 4.10
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Amount: 0.092489
Amount Units: ppb v/v

Processing Integration Results



RT: 3.91
Area: 1279
Amount: 0.056736
Amount Units: ppb v/v

Manual Integration Results



Reviewer: tajh, 22-Sep-2016 14:02:36
Audit Action: Assigned Compound ID

Audit Reason: Baseline

TestAmerica Knoxville

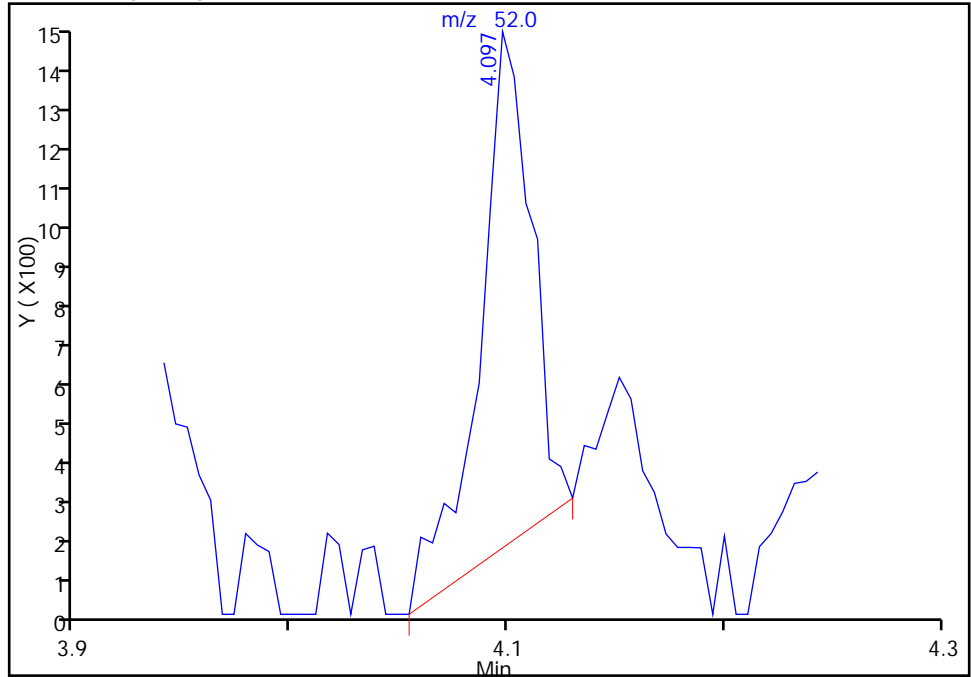
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Injection Date: 21-Sep-2016 22:16:30 Instrument ID: MG
Lims ID: 140-5852-A-9 Lab Sample ID: 140-5852-9
Client ID: VP-100
Operator ID: 7126 ALS Bottle#: 9 Worklist Smp#: 13
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MG_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

Signal: 1

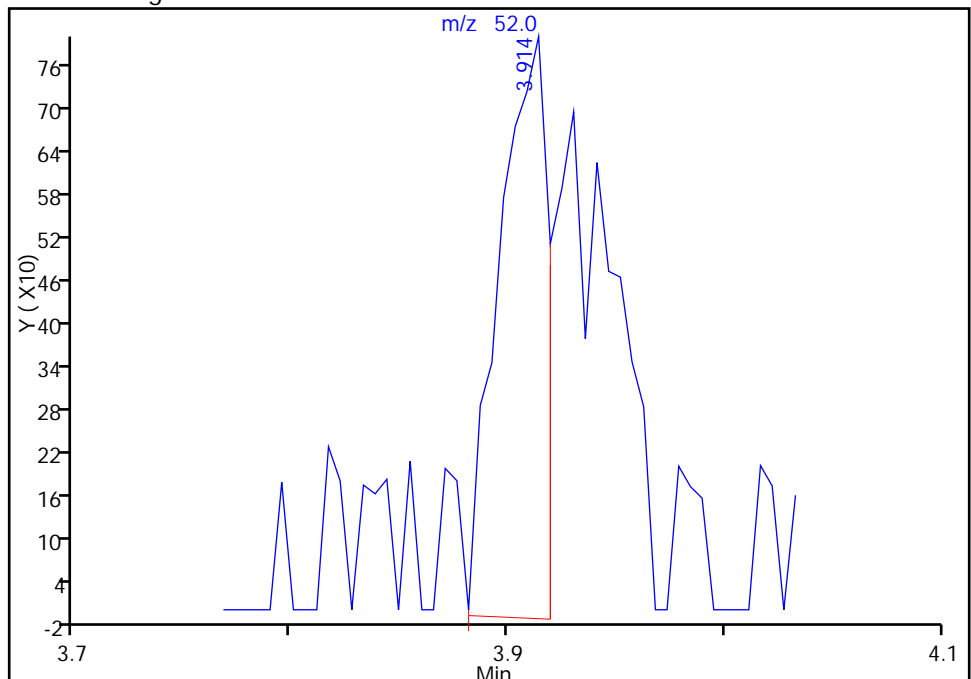
RT: 4.10
Area: 2085
Amount: 0.092489
Amount Units: ppb v/v

Processing Integration Results



RT: 3.91
Area: 1279
Amount: 0.056736
Amount Units: ppb v/v

Manual Integration Results



Reviewer: tajh, 22-Sep-2016 14:02:36

Audit Action: Manually Integrated

Audit Reason: Baseline

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-100 DL Lab Sample ID: 140-5852-9 DL
 Matrix: Air Lab File ID: JI22P115.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 17:01
 Sample wt/vol: 100 (mL) Date Analyzed: 09/23/2016 05:21
 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.: 6632 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	14	D	0.40
127-18-4	Tetrachloroethene	165.83	20	D	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-100 DL Lab Sample ID: 140-5852-9 DL
 Matrix: Air Lab File ID: JI22P115.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 17:01
 Sample wt/vol: 100 (mL) Date Analyzed: 09/23/2016 05:21
 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.: 6632 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	84	D	2.4
127-18-4	Tetrachloroethene	165.83	140	D	2.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P115.D
 Lims ID: 140-5852-A-9
 Client ID: VP-100
 Sample Type: Client
 Inject. Date: 23-Sep-2016 05:21:30 ALS Bottle#: 15 Worklist Smp#: 22
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-022
 Misc. Info.: 140-5852-a-9
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.329	9.335	-0.006	95	196177	4.00	
* 2 1,4-Difluorobenzene	114	11.492	11.497	-0.005	97	905347	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.178	16.177	0.001	91	806683	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.802	17.802	0.000	84	533381	4.48	
8 Dichlorodifluoromethane	85	3.993	3.998	-0.005	99	21950	0.1018	
17 Ethanol	31	5.074	5.074	0.000	94	18259	2.41	
20 Trichlorofluoromethane	101	5.596	5.596	0.000	99	15394	0.0772	
28 2-Methyl-2-propanol	59	6.435	6.430	0.005	95	11501	0.1125	
30 1,1,2-Trichloro-1,2,2-trif	101	6.511	6.521	-0.010	89	1880	0.0139	
31 Methylene Chloride	84	6.699	6.709	-0.010	94	31163	0.5780	
39 2-Butanone (MEK)	72	8.544	8.555	-0.011	94	12956	0.6881	
40 Hexane	56	8.566	8.571	-0.005	74	19546	0.3823	
44 Chloroform	83	9.335	9.345	-0.010	37	68246	0.5196	
47 1,1,1-Trichloroethane	97	10.378	10.384	-0.006	96	32272	0.2125	
51 Benzene	78	10.976	10.975	0.001	96	62711	0.3968	
50 Cyclohexane	69	10.970	10.975	-0.005	58	5191	0.1959	
56 Isooctane	57	11.702	11.707	-0.005	93	8038	0.0270	
59 Trichloroethene	130	12.202	12.202	0.000	87	2314	0.0290	
65 4-Methyl-2-pentanone (MIBK	43	13.353	13.348	0.005	94	20723	0.1938	
68 Toluene	91	14.219	14.225	-0.005	90	52544	0.3059	
76 Tetrachloroethene	129	15.354	15.354	0.000	90	320685	3.98	
79 Ethylbenzene	91	16.506	16.505	0.001	97	20578	0.1050	
81 m-Xylene & p-Xylene	91	16.662	16.667	-0.005	97	64373	0.4234	
84 Styrene	104	17.130	17.129	0.001	93	3477	0.0372	
85 o-Xylene	91	17.189	17.189	0.000	97	33524	0.2052	
92 1,3,5-Trimethylbenzene	120	18.501	18.501	0.000	89	5849	0.0633	
96 1,2,4-Trimethylbenzene	105	18.926	18.926	0.000	97	43622	0.2787	
98 1,3-Dichlorobenzene	146	19.287	19.201	0.086	96	192003	2.40	
99 Benzyl chloride	91	19.400	19.270	0.130	41	8155	0.1039	
100 1,4-Dichlorobenzene	146	19.287	19.287	0.000	91	192003	2.81	

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\J122P115.D

Injection Date: 23-Sep-2016 05:21:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Worklist Smp#: 22

Client ID: VP-100

Purge Vol: 500.000 mL

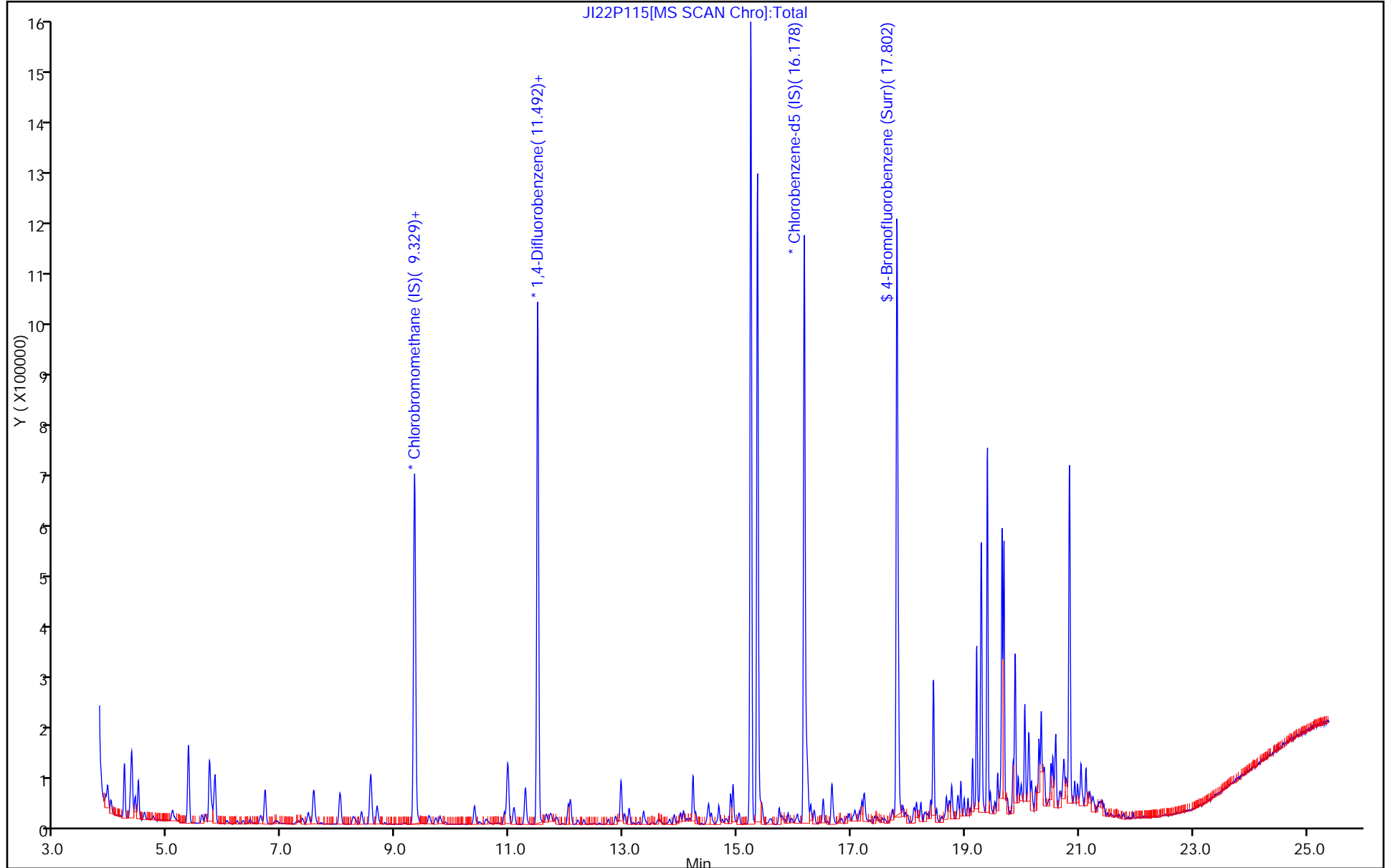
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P115.D
 Lims ID: 140-5852-A-9
 Client ID: VP-100
 Sample Type: Client
 Inject. Date: 23-Sep-2016 05:21:30 ALS Bottle#: 15 Worklist Smp#: 22
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-022
 Misc. Info.: 140-5852-a-9
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.48	111.96

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P115.D

Injection Date: 23-Sep-2016 05:21:30

Instrument ID: MJ

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 15

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

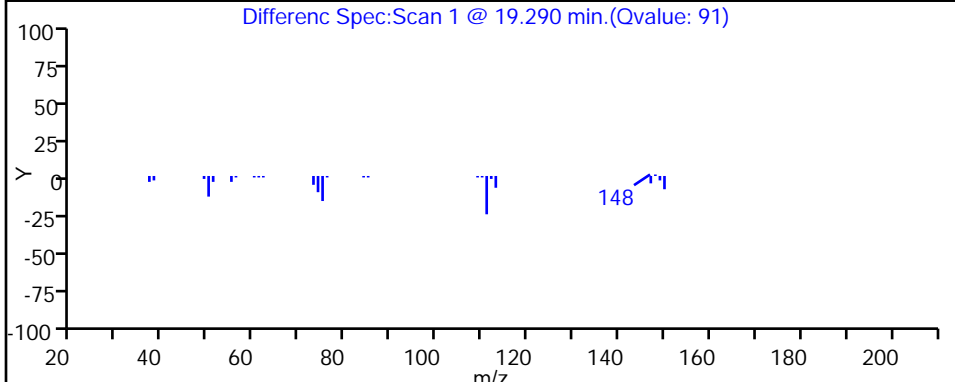
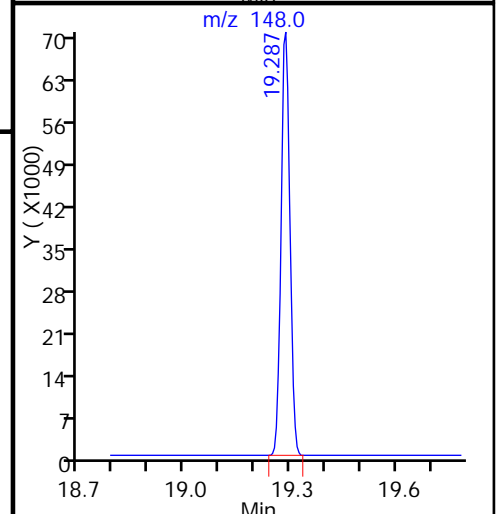
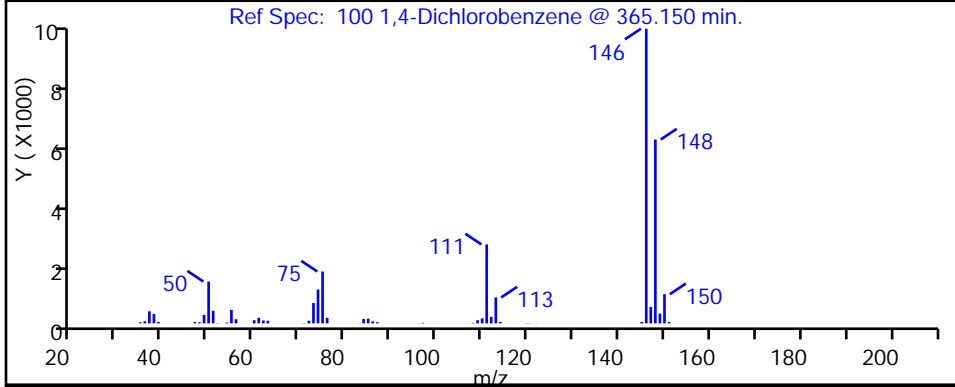
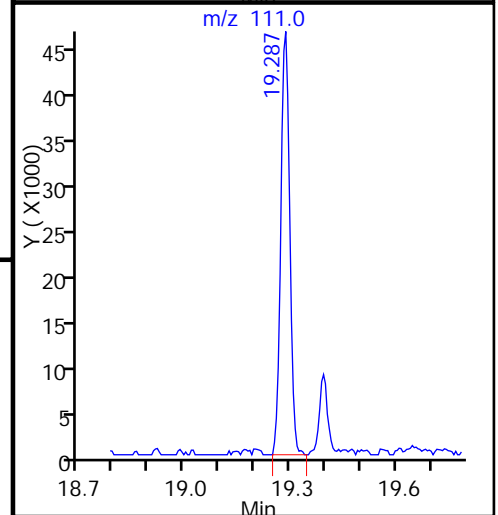
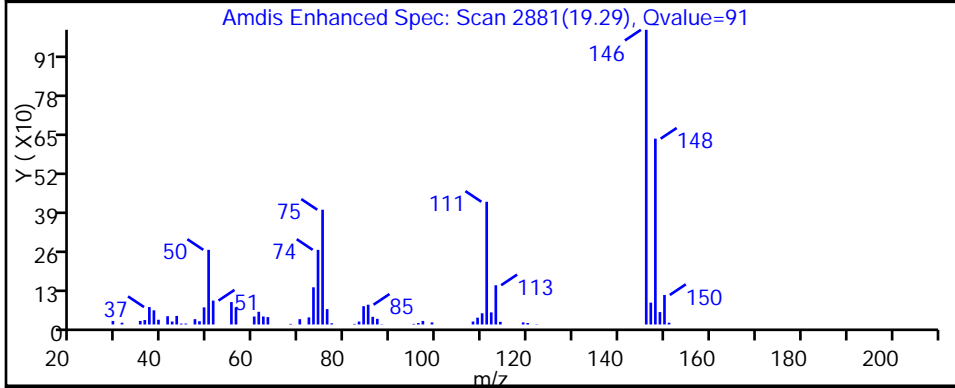
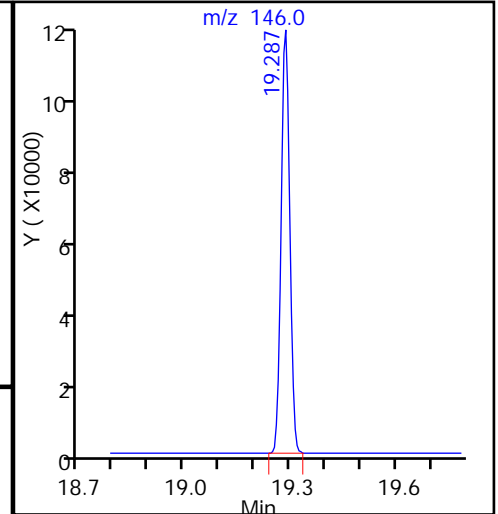
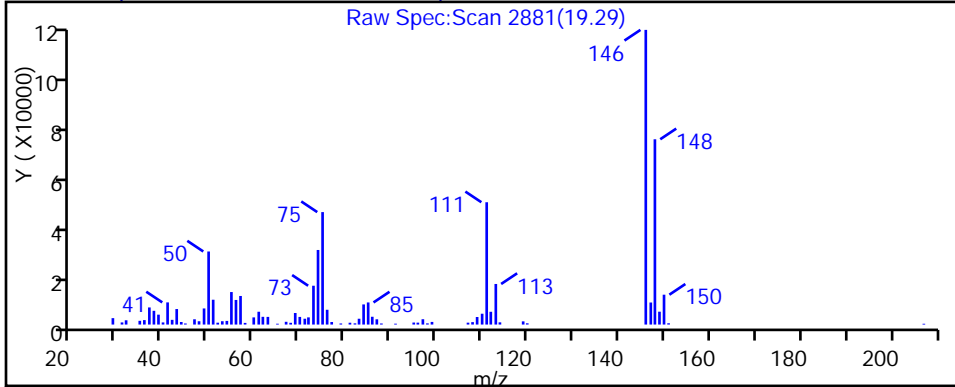
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P115.D

Injection Date: 23-Sep-2016 05:21:30

Instrument ID: MJ

Lims ID: 140-5852-A-9

Lab Sample ID: 140-5852-9

Client ID: VP-100

Operator ID: 7126

ALS Bottle#: 15

Worklist Smp#: 22

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

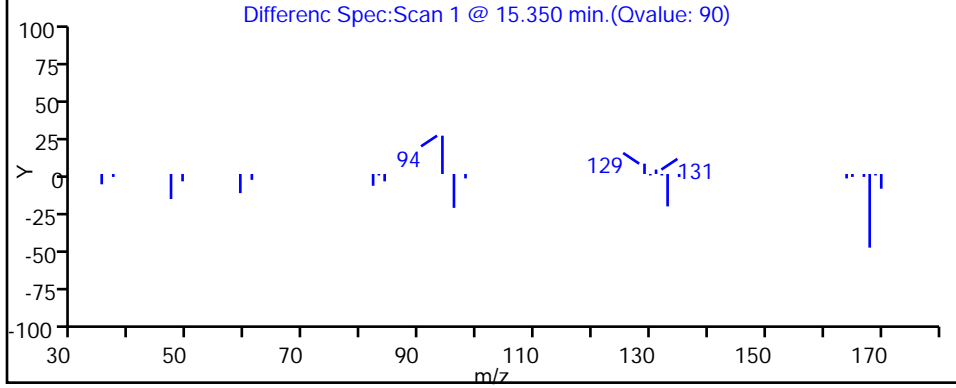
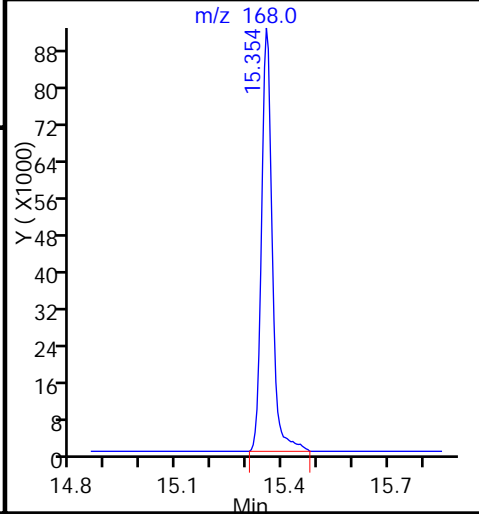
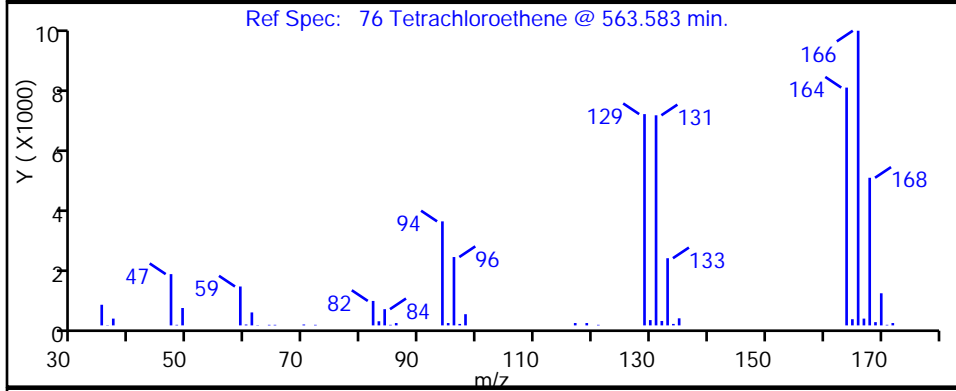
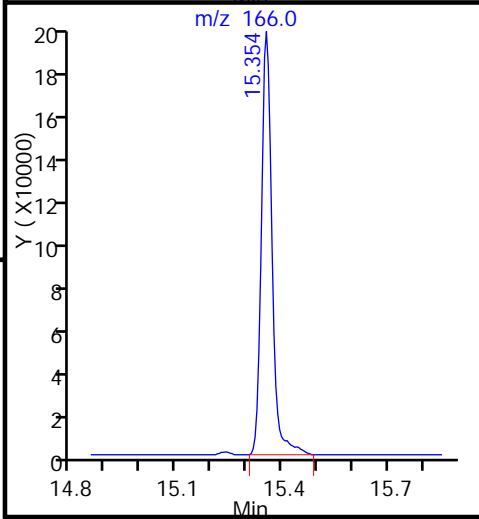
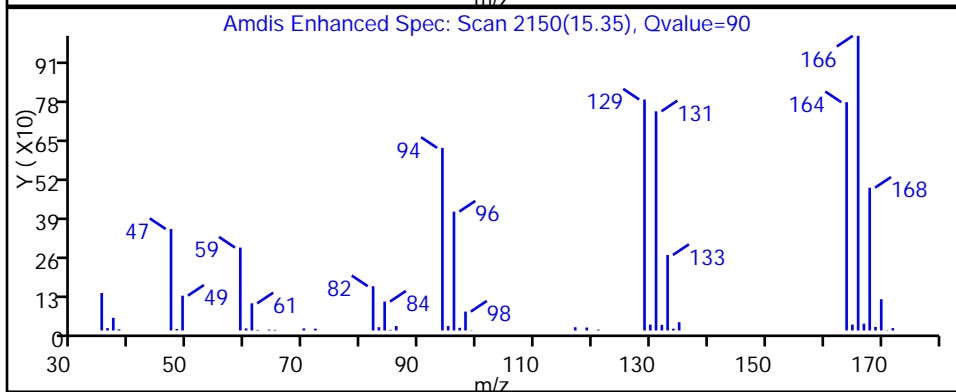
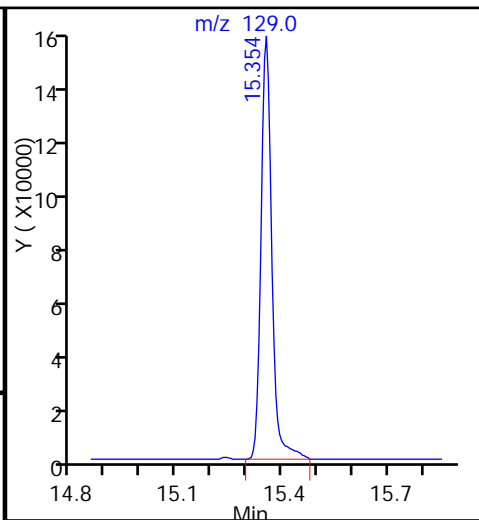
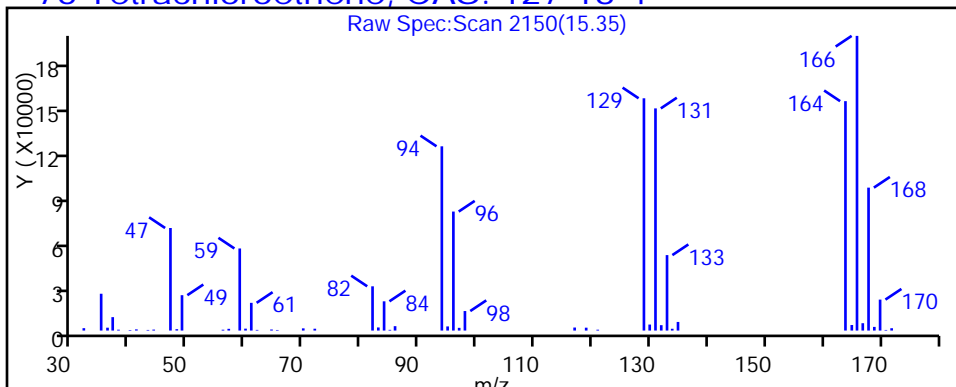
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-113 Lab Sample ID: 140-5852-10
 Matrix: Air Lab File ID: JI22P112.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:42
 Sample wt/vol: 40 (mL) Date Analyzed: 09/23/2016 02:39
 Soil Aliquot Vol: _____ Dilution Factor: 4.26
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		4.3
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		4.3
79-00-5	1,1,2-Trichloroethane	133.41	ND		4.3
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		4.3
75-34-3	1,1-Dichloroethane	98.96	ND		4.3
75-35-4	1,1-Dichloroethene	96.94	ND		4.3
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		4.3
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		4.3
106-93-4	1,2-Dibromoethane	187.87	ND		4.3
95-50-1	1,2-Dichlorobenzene	147.00	ND		4.3
107-06-2	1,2-Dichloroethane	98.96	ND		4.3
78-87-5	1,2-Dichloropropane	112.99	ND		4.3
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		4.3
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		4.3
541-73-1	1,3-Dichlorobenzene	147.00	ND		4.3
106-46-7	1,4-Dichlorobenzene	147.00	11		4.3
123-91-1	1,4-Dioxane	88.11	ND		11
540-84-1	2,2,4-Trimethylpentane	114.23	ND		11
78-93-3	2-Butanone	72.11	ND		17
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		11
71-43-2	Benzene	78.11	38		4.3
100-44-7	Benzyl chloride	126.58	ND		8.5
75-27-4	Bromodichloromethane	163.83	ND		4.3
75-25-2	Bromoform	252.75	ND		4.3
74-83-9	Bromomethane	94.94	ND		4.3
56-23-5	Carbon tetrachloride	153.81	ND		2.1
108-90-7	Chlorobenzene	112.56	ND		4.3
75-00-3	Chloroethane	64.52	ND		4.3
67-66-3	Chloroform	119.38	ND		4.3
74-87-3	Chloromethane	50.49	ND		11
156-59-2	cis-1,2-Dichloroethene	96.94	ND		4.3
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		4.3
110-82-7	Cyclohexane	84.16	61		11

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-113 Lab Sample ID: 140-5852-10
 Matrix: Air Lab File ID: JI22P112.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:42
 Sample wt/vol: 40 (mL) Date Analyzed: 09/23/2016 02:39
 Soil Aliquot Vol: _____ Dilution Factor: 4.26
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		4.3
75-71-8	Dichlorodifluoromethane	120.91	ND		4.3
64-17-5	Ethanol	46.07	ND		110
100-41-4	Ethylbenzene	106.17	ND		4.3
87-68-3	Hexachlorobutadiene	260.76	ND		4.3
110-54-3	Hexane	86.17	150		11
1634-04-4	Methyl tert-butyl ether	88.15	ND		8.5
75-09-2	Methylene Chloride	84.93	23		11
179601-23-1	m-Xylene & p-Xylene	106.17	ND		4.3
95-47-6	o-Xylene	106.17	ND		4.3
100-42-5	Styrene	104.15	ND		4.3
75-65-0	t-Butyl alcohol	74.12	ND		17
127-18-4	Tetrachloroethene	165.83	11		4.3
108-88-3	Toluene	92.14	ND		6.4
156-60-5	trans-1,2-Dichloroethene	96.94	ND		4.3
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		4.3
79-01-6	Trichloroethene	131.39	ND		2.1
75-69-4	Trichlorofluoromethane	137.37	ND		4.3
75-01-4	Vinyl chloride	62.50	ND		2.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-113 Lab Sample ID: 140-5852-10
 Matrix: Air Lab File ID: JI22P112.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:42
 Sample wt/vol: 40 (mL) Date Analyzed: 09/23/2016 02:39
 Soil Aliquot Vol: _____ Dilution Factor: 4.26
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		23	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		29	
79-00-5	1,1,2-Trichloroethane	133.41	ND		23	
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		33	
75-34-3	1,1-Dichloroethane	98.96	ND		17	
75-35-4	1,1-Dichloroethene	96.94	ND		17	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		32	
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		21	
106-93-4	1,2-Dibromoethane	187.87	ND		33	
95-50-1	1,2-Dichlorobenzene	147.00	ND		26	
107-06-2	1,2-Dichloroethane	98.96	ND		17	
78-87-5	1,2-Dichloropropane	112.99	ND		20	
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		30	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		21	
541-73-1	1,3-Dichlorobenzene	147.00	ND		26	
106-46-7	1,4-Dichlorobenzene	147.00	65		26	
123-91-1	1,4-Dioxane	88.11	ND		38	
540-84-1	2,2,4-Trimethylpentane	114.23	ND		50	
78-93-3	2-Butanone	72.11	ND		50	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		44	
71-43-2	Benzene	78.11	120		14	
100-44-7	Benzyl chloride	126.58	ND		44	
75-27-4	Bromodichloromethane	163.83	ND		29	
75-25-2	Bromoform	252.75	ND		44	
74-83-9	Bromomethane	94.94	ND		17	
56-23-5	Carbon tetrachloride	153.81	ND		13	
108-90-7	Chlorobenzene	112.56	ND		20	
75-00-3	Chloroethane	64.52	ND		11	
67-66-3	Chloroform	119.38	ND		21	
74-87-3	Chloromethane	50.49	ND		22	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		17	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		19	
110-82-7	Cyclohexane	84.16	210		37	

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-113 Lab Sample ID: 140-5852-10
 Matrix: Air Lab File ID: J122P112.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:42
 Sample wt/vol: 40 (mL) Date Analyzed: 09/23/2016 02:39
 Soil Aliquot Vol: _____ Dilution Factor: 4.26
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		36
75-71-8	Dichlorodifluoromethane	120.91	ND		21
64-17-5	Ethanol	46.07	ND		200
100-41-4	Ethylbenzene	106.17	ND		18
87-68-3	Hexachlorobutadiene	260.76	ND		45
110-54-3	Hexane	86.17	540		38
1634-04-4	Methyl tert-butyl ether	88.15	ND		31
75-09-2	Methylene Chloride	84.93	80		37
179601-23-1	m-Xylene & p-Xylene	106.17	ND		18
95-47-6	o-Xylene	106.17	ND		18
100-42-5	Styrene	104.15	ND		18
75-65-0	t-Butyl alcohol	74.12	ND		52
127-18-4	Tetrachloroethene	165.83	74		29
108-88-3	Toluene	92.14	ND		24
156-60-5	trans-1,2-Dichloroethene	96.94	ND		17
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		19
79-01-6	Trichloroethene	131.39	ND		11
75-69-4	Trichlorofluoromethane	137.37	ND		24
75-01-4	Vinyl chloride	62.50	ND		5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P112.D
 Lims ID: 140-5852-A-10
 Client ID: VP-113
 Sample Type: Client
 Inject. Date: 23-Sep-2016 02:39:30 ALS Bottle#: 12 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 4.2600
 Sample Info: 140-0003446-019
 Misc. Info.: 140-5852-a-10@4.26
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: tajh Date: 23-Sep-2016 09:37:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.326	9.335	-0.009	95	204374	4.00	
* 2 1,4-Difluorobenzene	114	11.489	11.497	-0.008	97	881529	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.174	16.177	-0.003	91	793311	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.804	17.802	0.002	85	504369	4.31	
31 Methylene Chloride	84	6.696	6.709	-0.013	92	24243	0.4316	
40 Hexane	56	8.557	8.571	-0.014	87	153102	2.87	
51 Benzene	78	10.967	10.975	-0.008	96	110978	0.7211	
50 Cyclohexane	69	10.967	10.975	-0.008	79	29420	1.14	
56 Isooctane	57	11.709	11.707	0.002	88	18527	0.0639	
59 Trichloroethene	130	12.193	12.202	-0.009	87	2867	0.0369	
68 Toluene	91	14.216	14.225	-0.008	58	9135	0.0541	
76 Tetrachloroethene	129	15.351	15.354	-0.003	88	16147	0.2040	
100 1,4-Dichlorobenzene	146	19.289	19.287	0.002	90	13615	0.2023	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\J122P112.D

Injection Date: 23-Sep-2016 02:39:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-5852-A-10

Lab Sample ID: 140-5852-10

Worklist Smp#: 19

Client ID: VP-113

Purge Vol: 500.000 mL

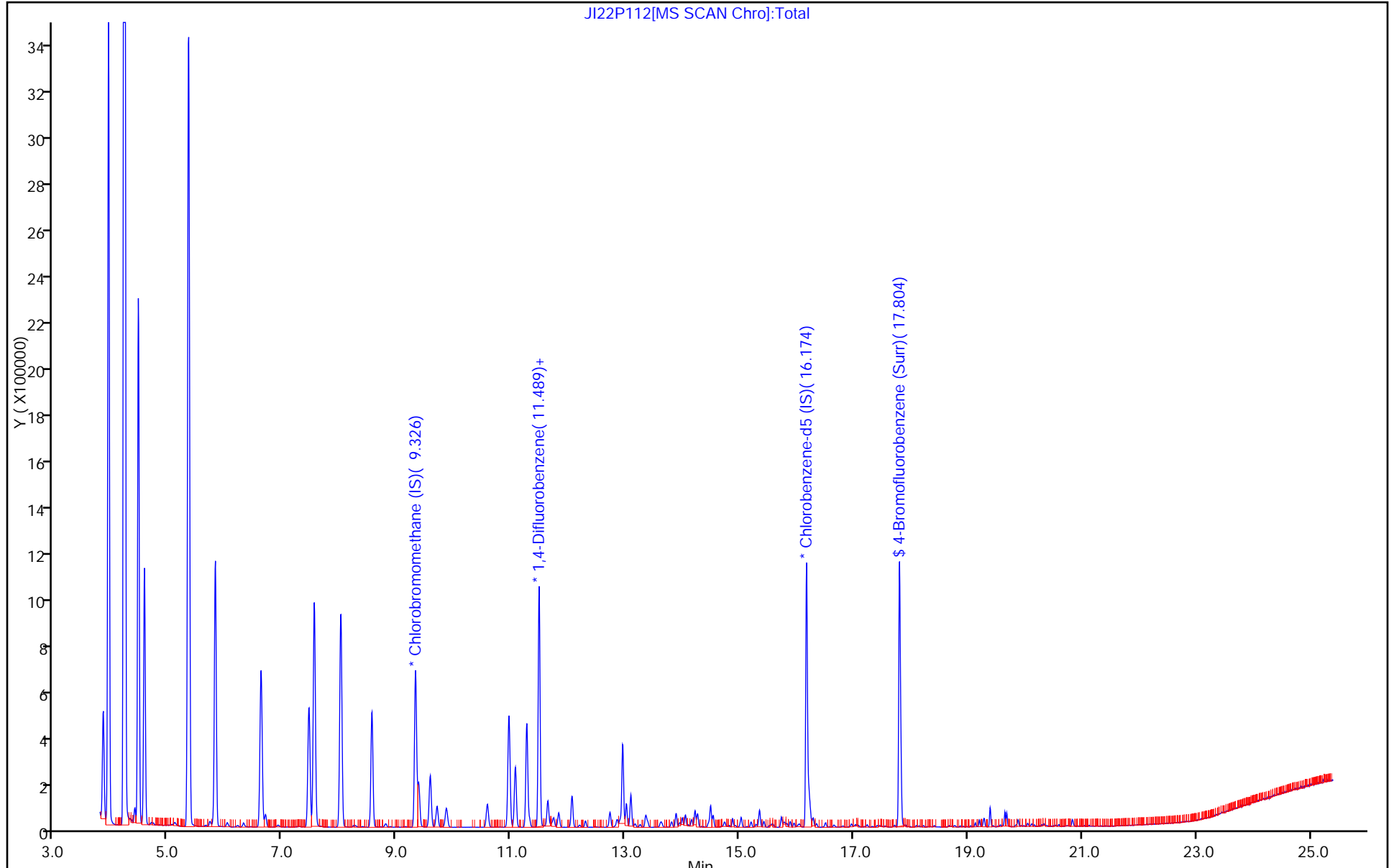
Dil. Factor: 4.2600

ALS Bottle#: 12

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\20160920-3446.b\JI22P112.D
 Lims ID: 140-5852-A-10
 Client ID: VP-113
 Sample Type: Client
 Inject. Date: 23-Sep-2016 02:39:30 ALS Bottle#: 12 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 4.2600
 Sample Info: 140-0003446-019
 Misc. Info.: 140-5852-a-10@4.26
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: tajh Date: 23-Sep-2016 09:37:28

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.31	107.65

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P112.D

Injection Date: 23-Sep-2016 02:39:30

Instrument ID: MJ

Lims ID: 140-5852-A-10

Lab Sample ID: 140-5852-10

Client ID: VP-113

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 4.2600

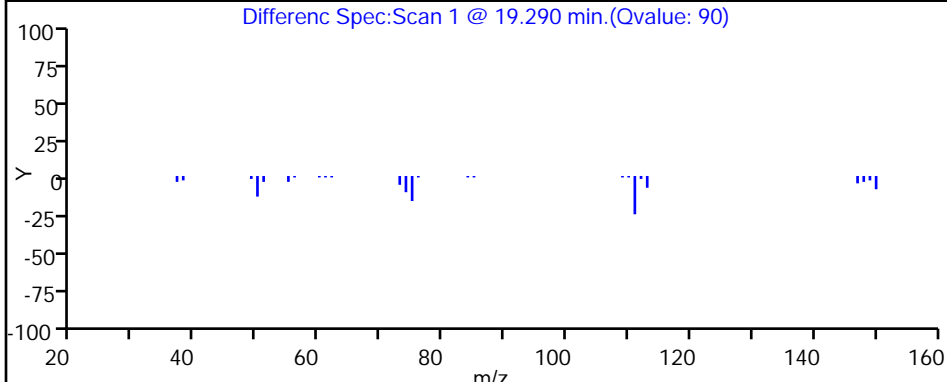
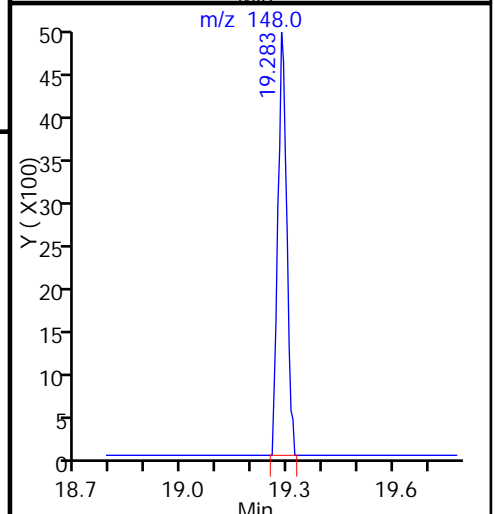
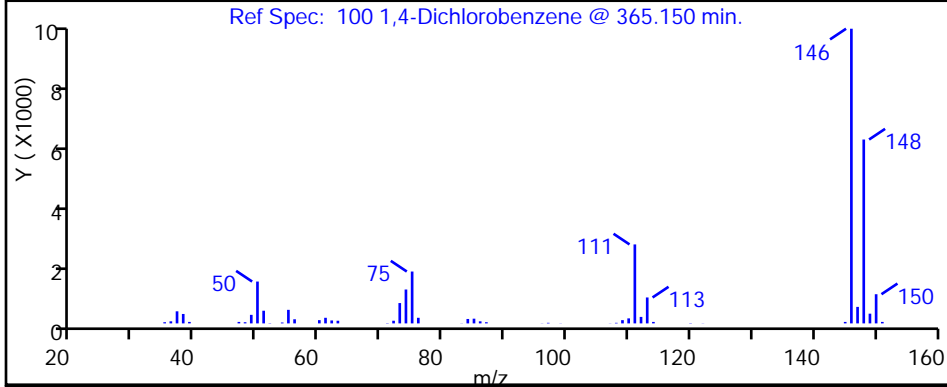
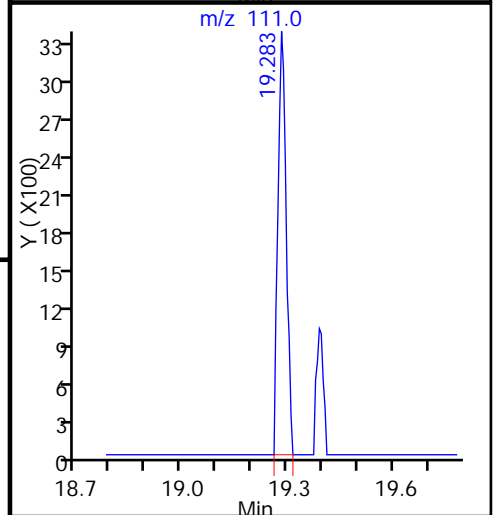
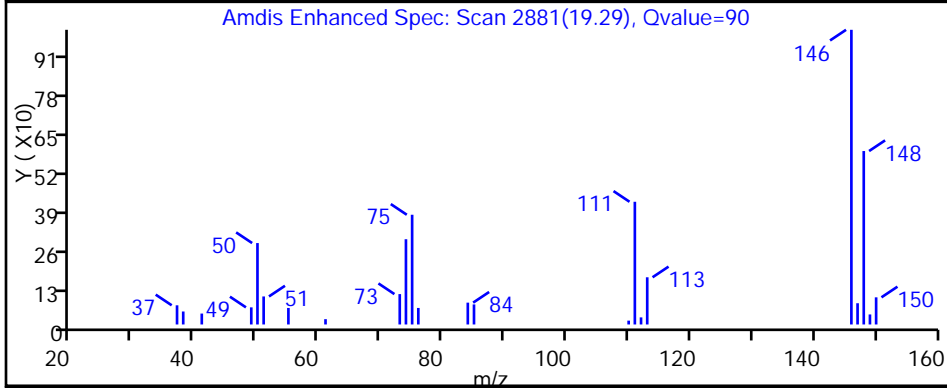
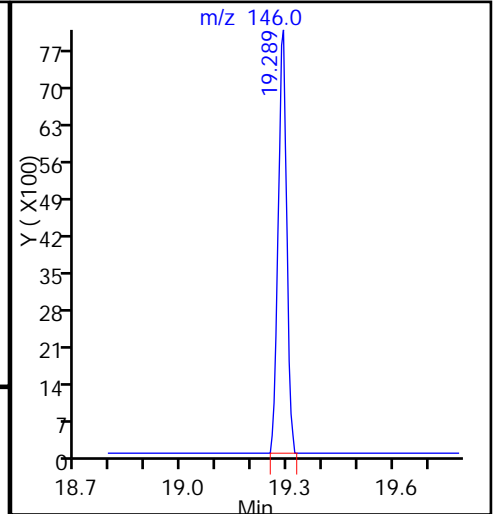
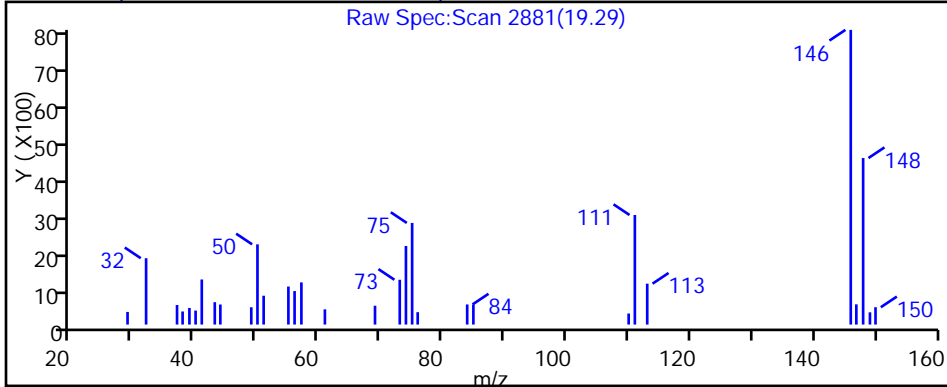
Method: MJ_TO15

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\20160920-3446.b\J122P112.D

Injection Date: 23-Sep-2016 02:39:30

Instrument ID: MJ

Lims ID: 140-5852-A-10

Lab Sample ID: 140-5852-10

Client ID: VP-113

Operator ID: 7126

ALS Bottle#: 12 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 4.2600

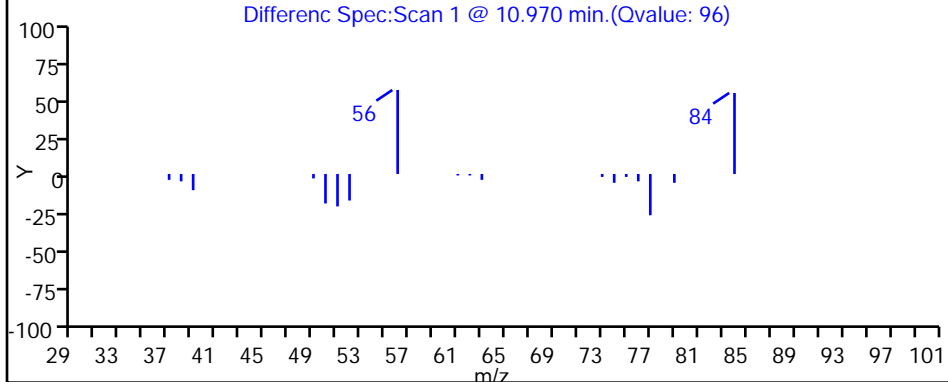
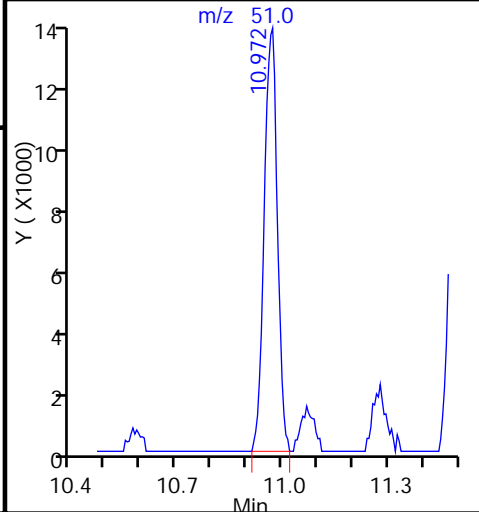
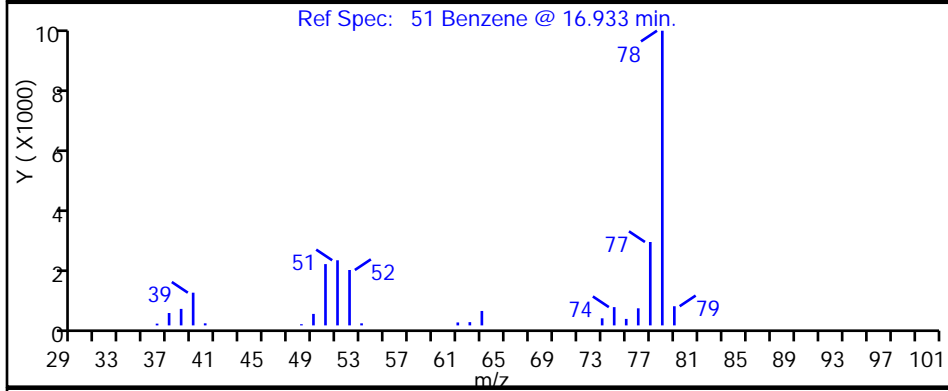
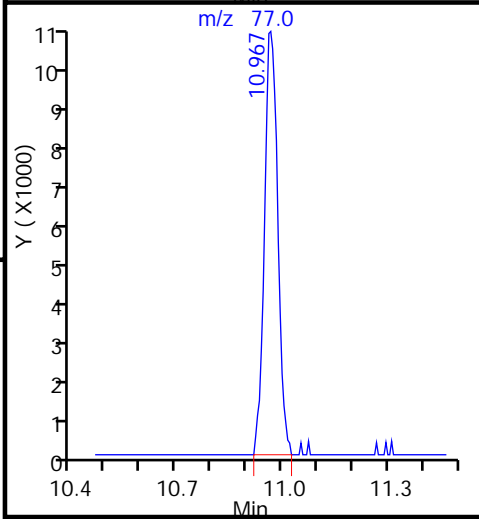
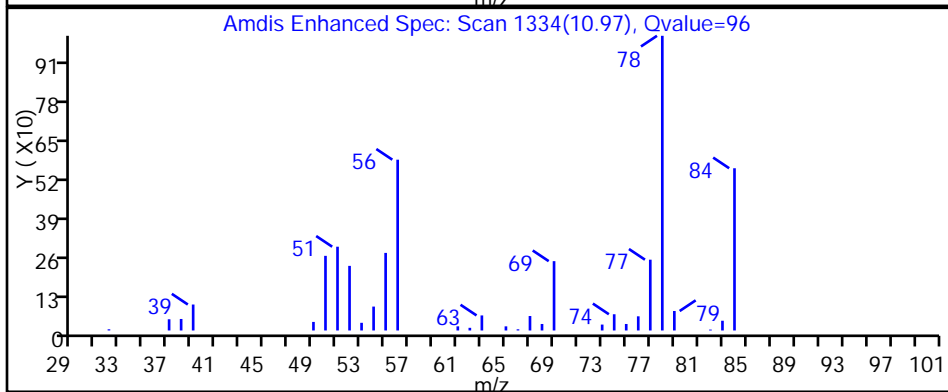
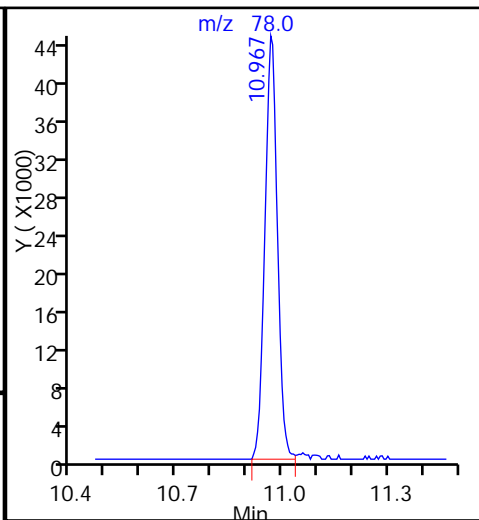
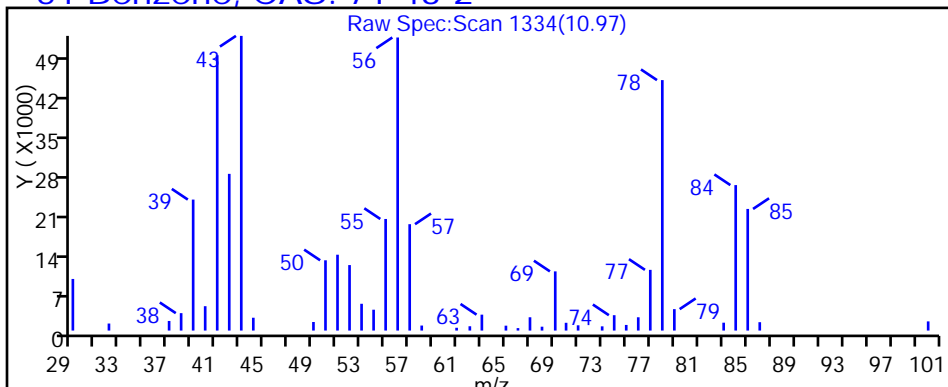
Method: MJ_TO15

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\20160920-3446.b\JI22P112.D

Injection Date: 23-Sep-2016 02:39:30

Instrument ID: MJ

Lims ID: 140-5852-A-10

Lab Sample ID: 140-5852-10

Client ID: VP-113

Operator ID: 7126

ALS Bottle#: 12 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 4.2600

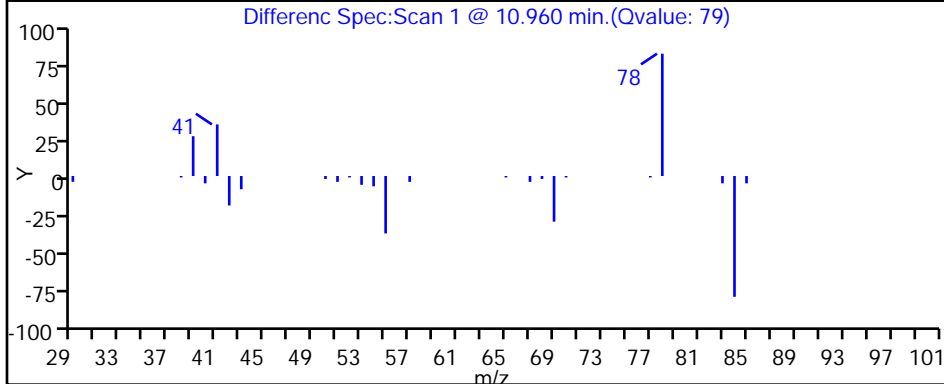
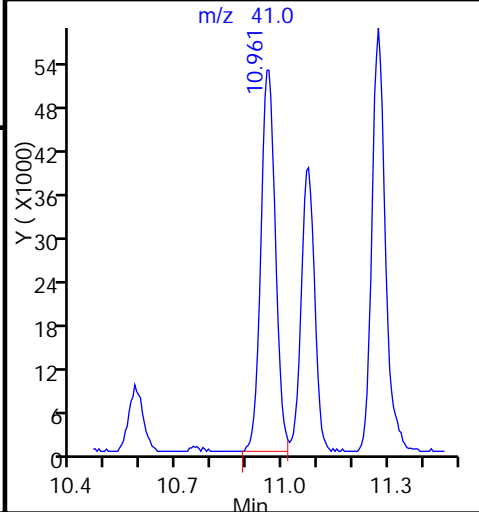
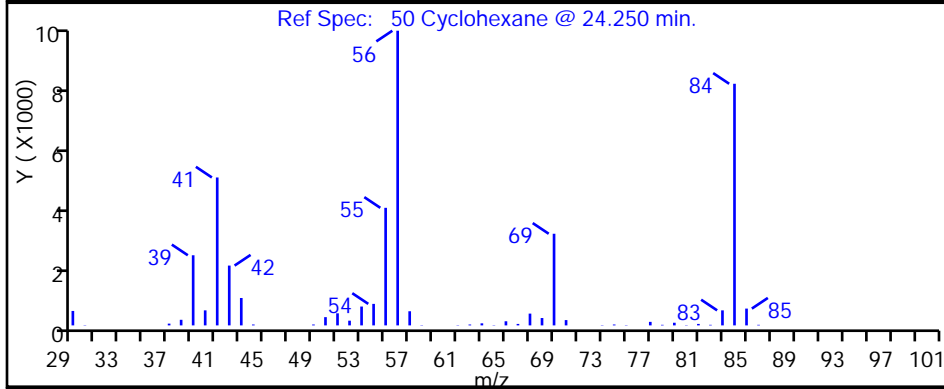
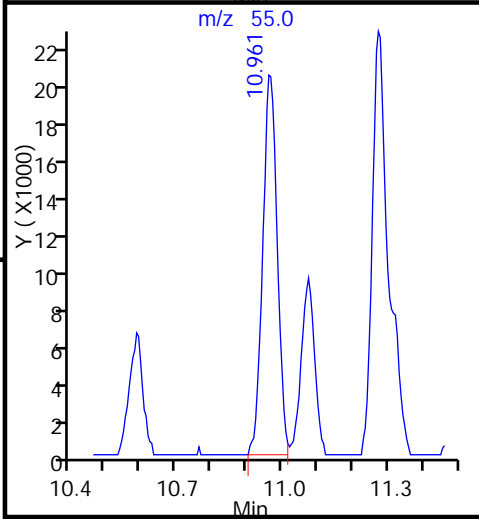
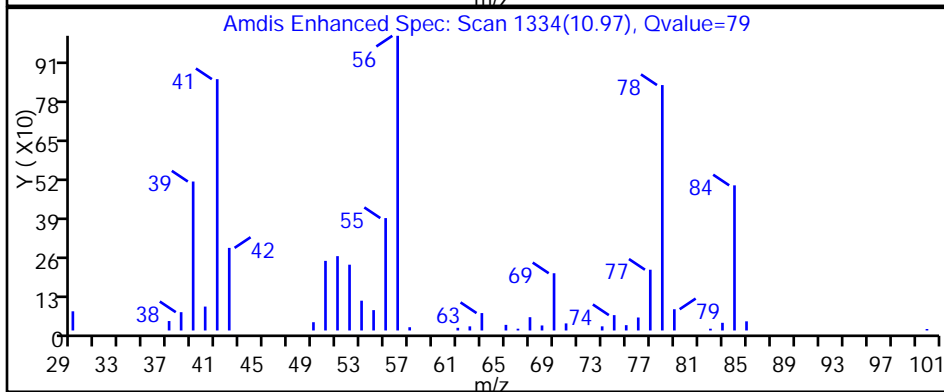
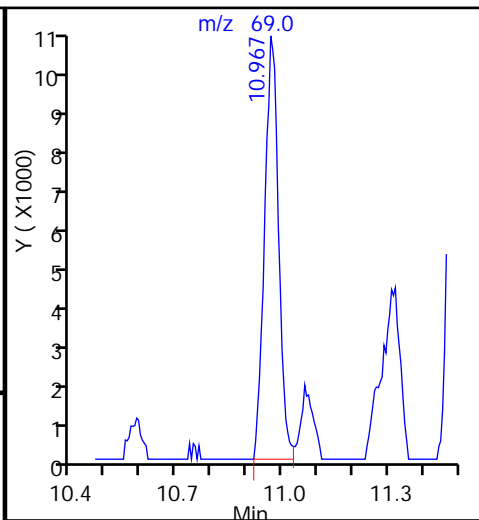
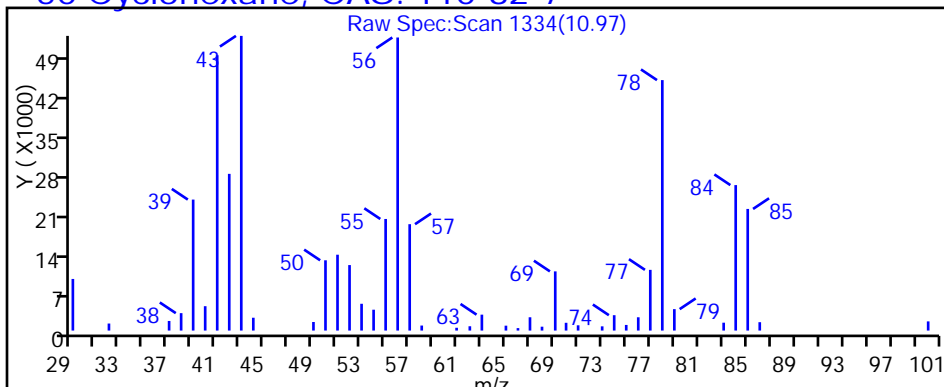
Method: MJ_TO15

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\20160920-3446.b\J122P112.D

Injection Date: 23-Sep-2016 02:39:30

Instrument ID: MJ

Lims ID: 140-5852-A-10

Lab Sample ID: 140-5852-10

Client ID: VP-113

Operator ID: 7126

ALS Bottle#: 12 Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 4.2600

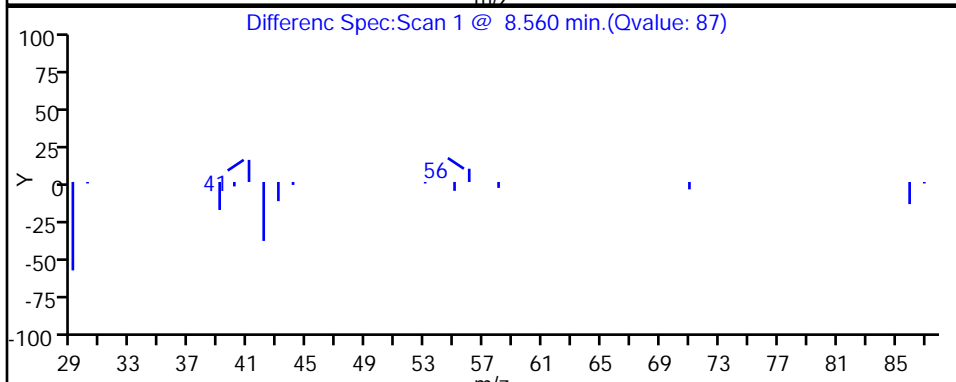
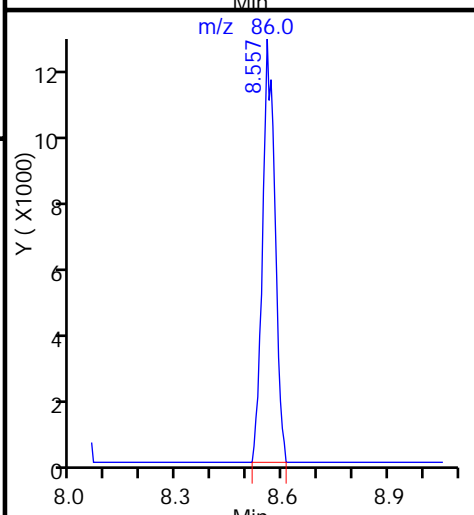
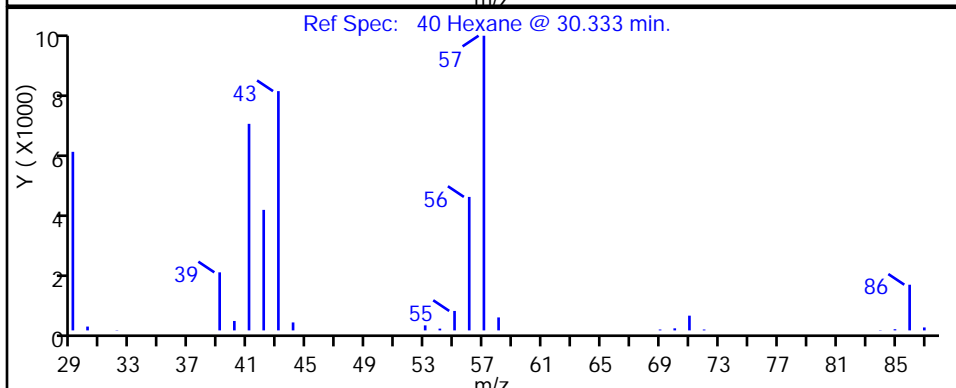
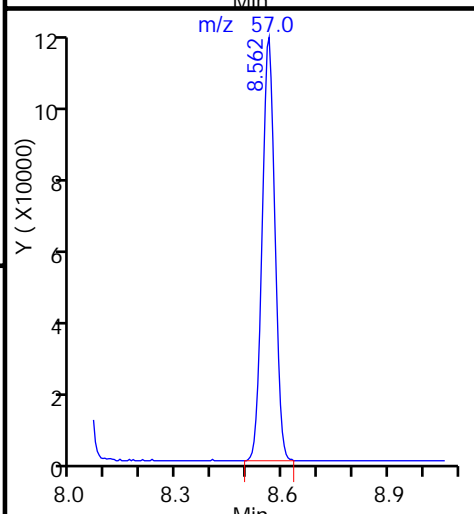
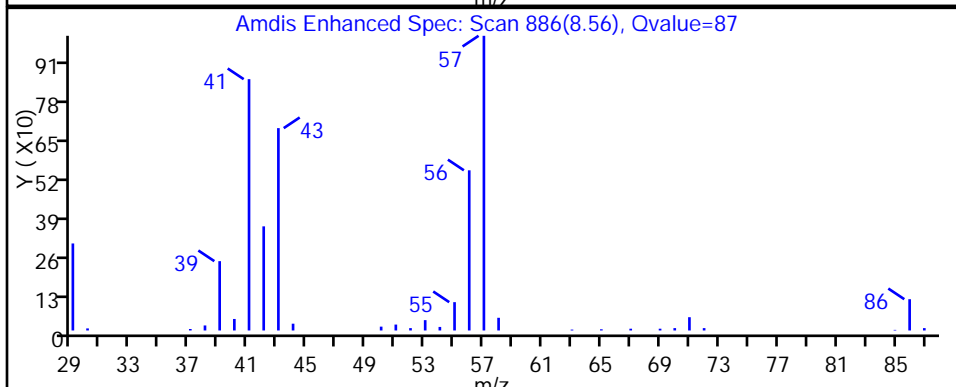
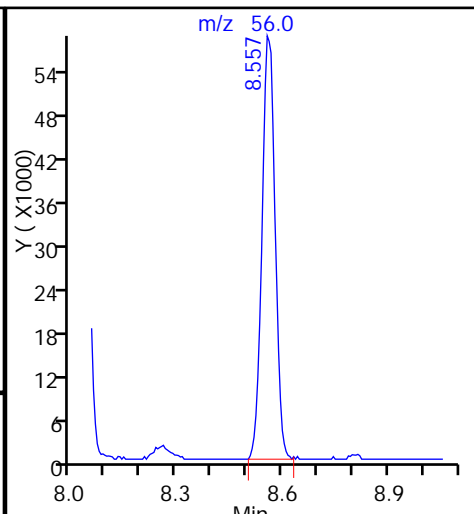
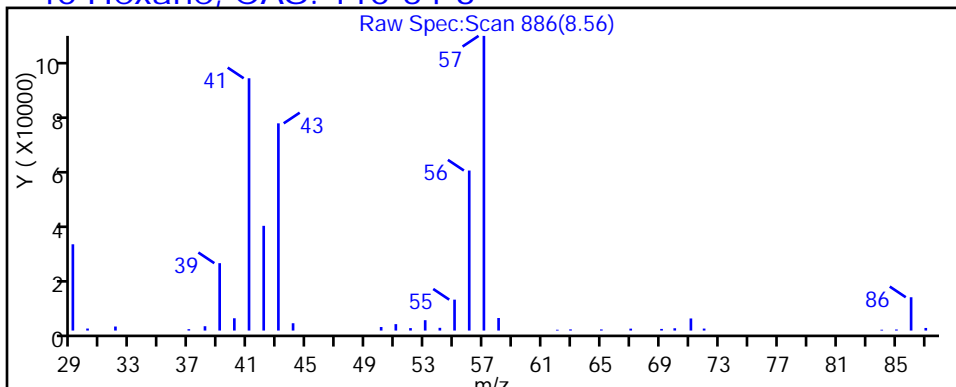
Method: MJ_TO15

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\20160920-3446.b\JI22P112.D

Injection Date: 23-Sep-2016 02:39:30

Instrument ID: MJ

Lims ID: 140-5852-A-10

Lab Sample ID: 140-5852-10

Client ID: VP-113

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 4.2600

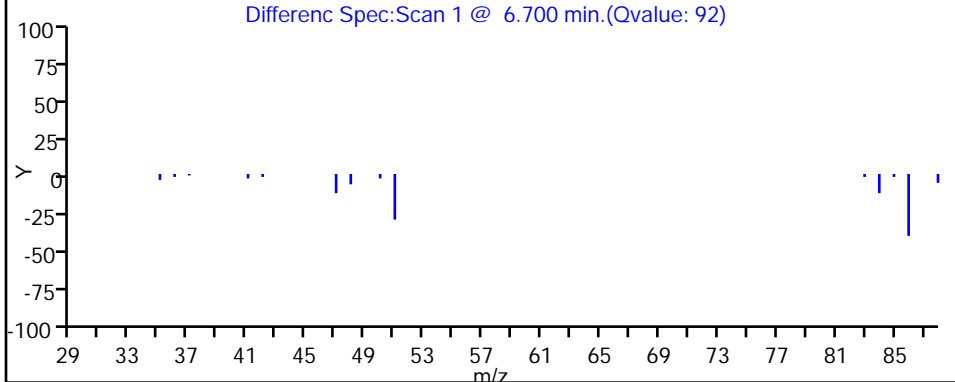
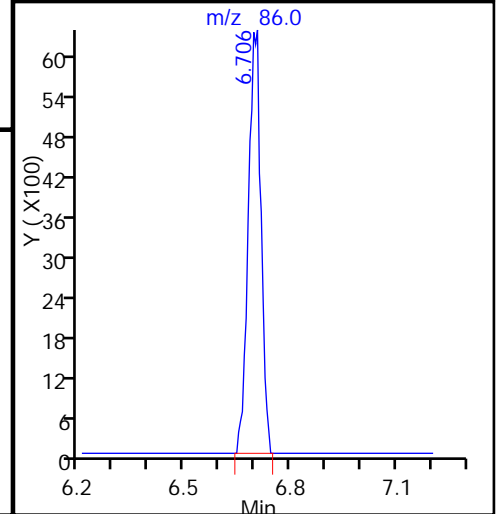
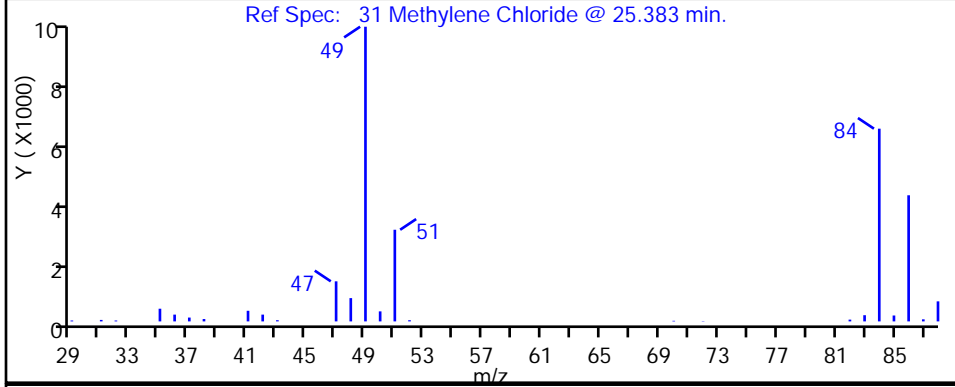
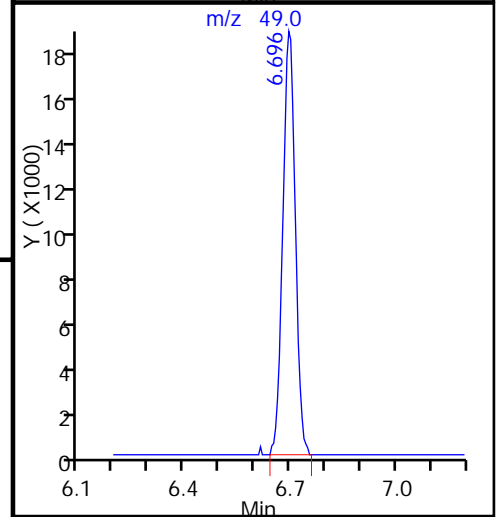
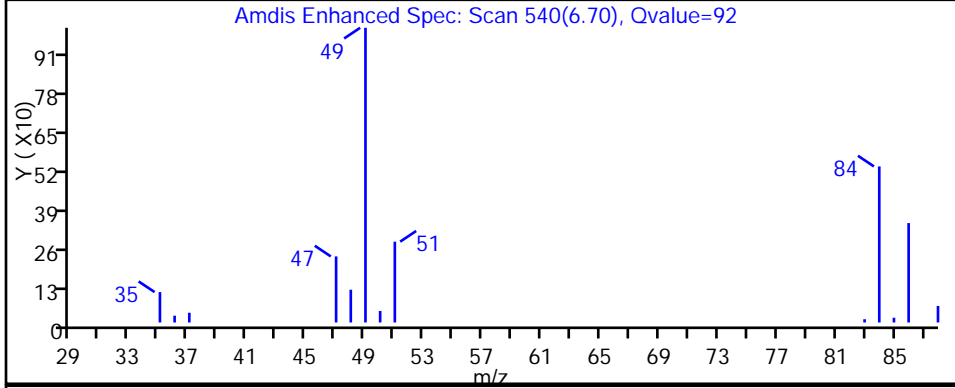
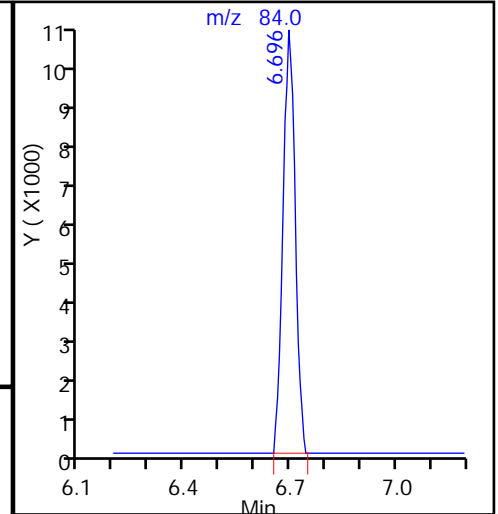
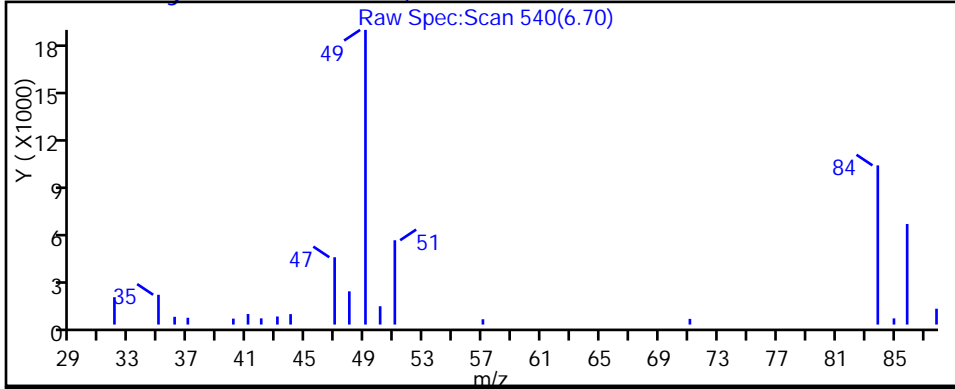
Method: MJ_TO15

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\20160920-3446.b\JI22P112.D

Injection Date: 23-Sep-2016 02:39:30

Instrument ID: MJ

Lims ID: 140-5852-A-10

Lab Sample ID: 140-5852-10

Client ID: VP-113

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 4.2600

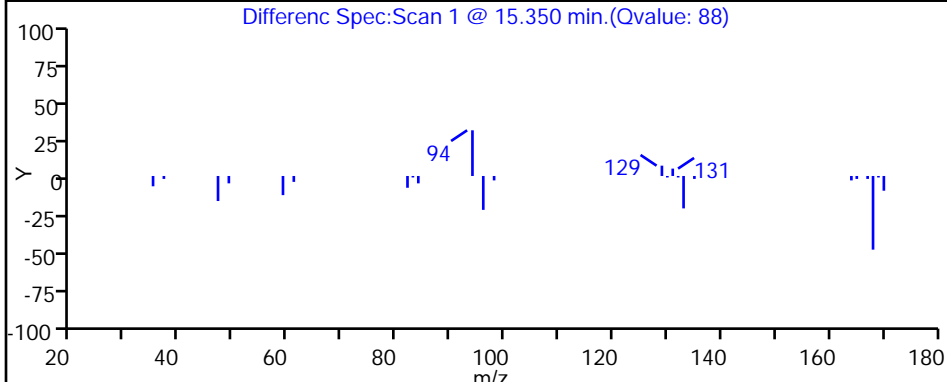
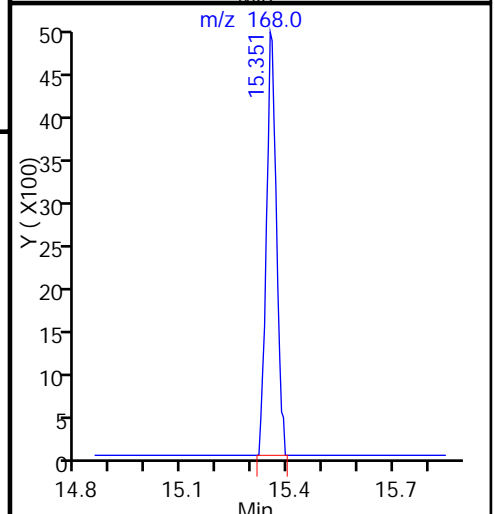
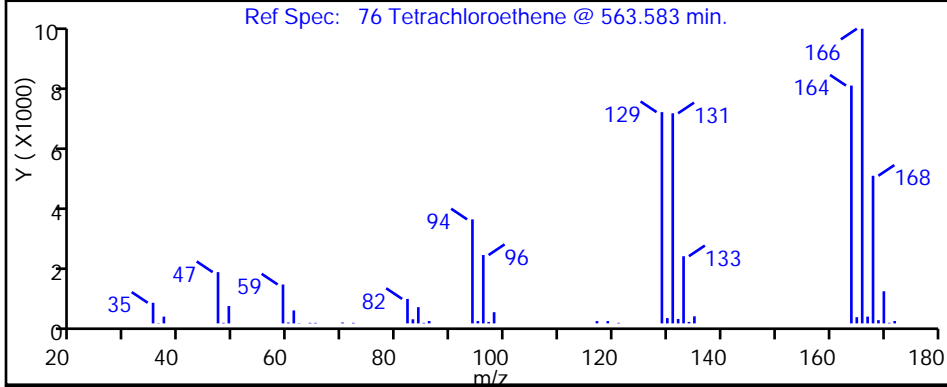
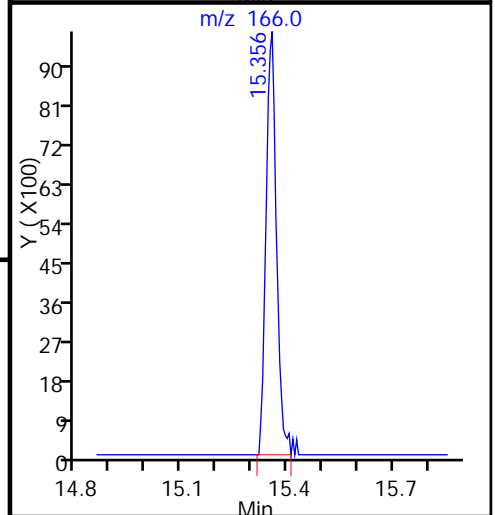
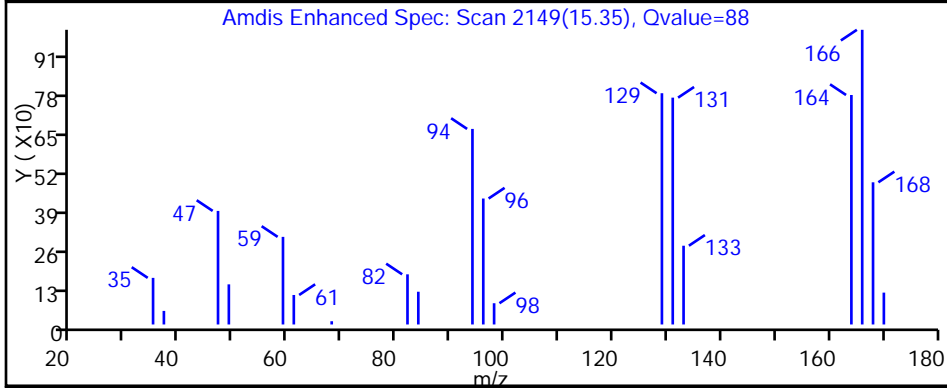
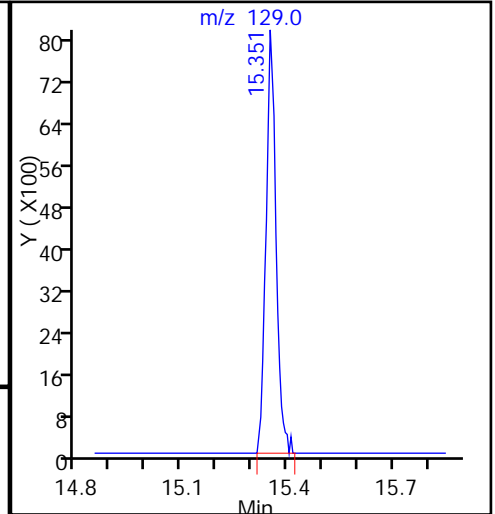
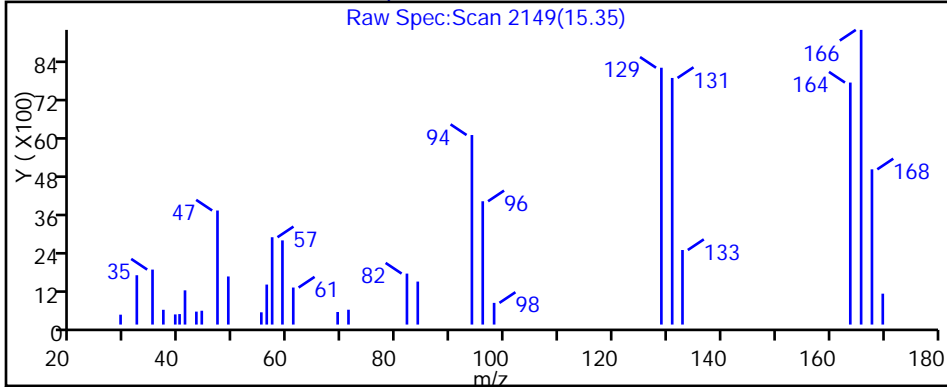
Method: MJ_TO15

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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-112 Lab Sample ID: 140-5852-11
 Matrix: Air Lab File ID: GI21P111.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:53
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 23:52
 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.: 6625 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	0.080		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	1.4		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	0.29		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	17	E	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	12		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.47		0.20
71-43-2	Benzene	78.11	0.22		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	0.098		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	1.3		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-112 Lab Sample ID: 140-5852-11
 Matrix: Air Lab File ID: GI21P111.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:53
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 23:52
 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.: 6625 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	0.41		0.080	
64-17-5	Ethanol	46.07	ND	*	2.0	
100-41-4	Ethylbenzene	106.17	0.59		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	0.33		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	2.4		0.080	
95-47-6	o-Xylene	106.17	0.93		0.080	
100-42-5	Styrene	104.15	0.25		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	67	E	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	0.24		0.040	
75-69-4	Trichlorofluoromethane	137.37	0.29		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-112 Lab Sample ID: 140-5852-11
 Matrix: Air Lab File ID: GI21P111.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:53
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 23:52
 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.: 6625 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	0.62		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	6.8		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	1.4		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	100	E	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	36		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.9		0.82
71-43-2	Benzene	78.11	0.70		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	0.62		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	6.3		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-112 Lab Sample ID: 140-5852-11
 Matrix: Air Lab File ID: GI21P111.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:53
 Sample wt/vol: 500 (mL) Date Analyzed: 09/21/2016 23:52
 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.: 6625 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	2.0		0.40
64-17-5	Ethanol	46.07	ND	*	3.8
100-41-4	Ethylbenzene	106.17	2.6		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	10		0.35
95-47-6	o-Xylene	106.17	4.1		0.35
100-42-5	Styrene	104.15	1.1		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	450	E	0.54
108-88-3	Toluene	92.14	8.0		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	1.3		0.21
75-69-4	Trichlorofluoromethane	137.37	1.6		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D
 Lims ID: 140-5852-A-11
 Client ID: VP-112
 Sample Type: Client
 Inject. Date: 21-Sep-2016 23:52:30 ALS Bottle#: 11 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-015
 Misc. Info.: 140-5852-a-11
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:38:50 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 14:04:08

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.454	8.454	0.000	92	223427	4.00	
* 2 1,4-Difluorobenzene	114	10.617	10.617	0.000	96	1028001	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.394	15.394	0.000	92	923166	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	90	684425	4.25	
8 Dichlorodifluoromethane	85	3.752	3.758	-0.006	100	78544	0.4088	
9 Chloromethane	52	3.914	3.919	-0.005	98	1635	0.0751	
16 Chloroethane	64	4.561	4.566	-0.005	12	534	0.0157	
17 Ethanol	31	4.669	4.663	0.006	97	44682	1.39	
20 Trichlorofluoromethane	101	5.090	5.095	-0.005	99	52832	0.2927	
29 2-Methyl-2-propanol	59	5.850	5.834	0.016	94	12990	0.1331	
30 1,1,2-Trichloro-1,2,2-trif	101	5.915	5.909	0.006	91	8855	0.0802	
31 Methylene Chloride	84	6.066	6.055	0.011	92	18085	0.3326	
39 2-Butanone (MEK)	72	7.710	7.721	-0.011	99	362074	12.2	
40 Hexane	56	7.775	7.775	0.000	1	9654	0.1635	
44 Chloroform	83	8.476	8.476	0.000	96	191251	1.28	
47 1,1,1-Trichloroethane	97	9.468	9.463	0.005	94	4905	0.0298	
49 Benzene	78	10.061	10.056	0.005	95	41176	0.2181	
50 Cyclohexane	69	10.067	10.067	0.000	57	2320	0.0718	
52 Carbon tetrachloride	117	10.088	10.088	0.000	95	14616	0.0983	
56 Isooctane	57	10.849	10.854	-0.005	93	18328	0.0515	
59 Trichloroethene	130	11.329	11.334	-0.005	91	22378	0.2353	
61 Dichlorobromomethane	83	11.560	11.555	0.005	77	9014	0.0615	
65 4-Methyl-2-pentanone (MIBK	43	12.520	12.520	0.000	99	83609	0.4731	
68 Toluene	91	13.405	13.405	0.001	93	428265	2.12	
76 Tetrachloroethene	129	14.569	14.564	0.005	92	5378506	66.7	E
79 Ethylbenzene	91	15.745	15.739	0.006	99	157345	0.5884	
81 m-Xylene & p-Xylene	91	15.907	15.907	0.000	97	495586	2.40	
84 Styrene	104	16.370	16.370	0.000	96	34437	0.2517	
85 o-Xylene	91	16.435	16.435	0.000	98	207367	0.9343	
92 1,3,5-Trimethylbenzene	120	17.816	17.821	-0.005	91	40287	0.2852	
96 1,2,4-Trimethylbenzene	105	18.269	18.268	0.001	98	358019	1.38	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	95	2756193	17.1	E

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\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Worklist Smp#: 15

Client ID: VP-112

Purge Vol: 500.000 mL

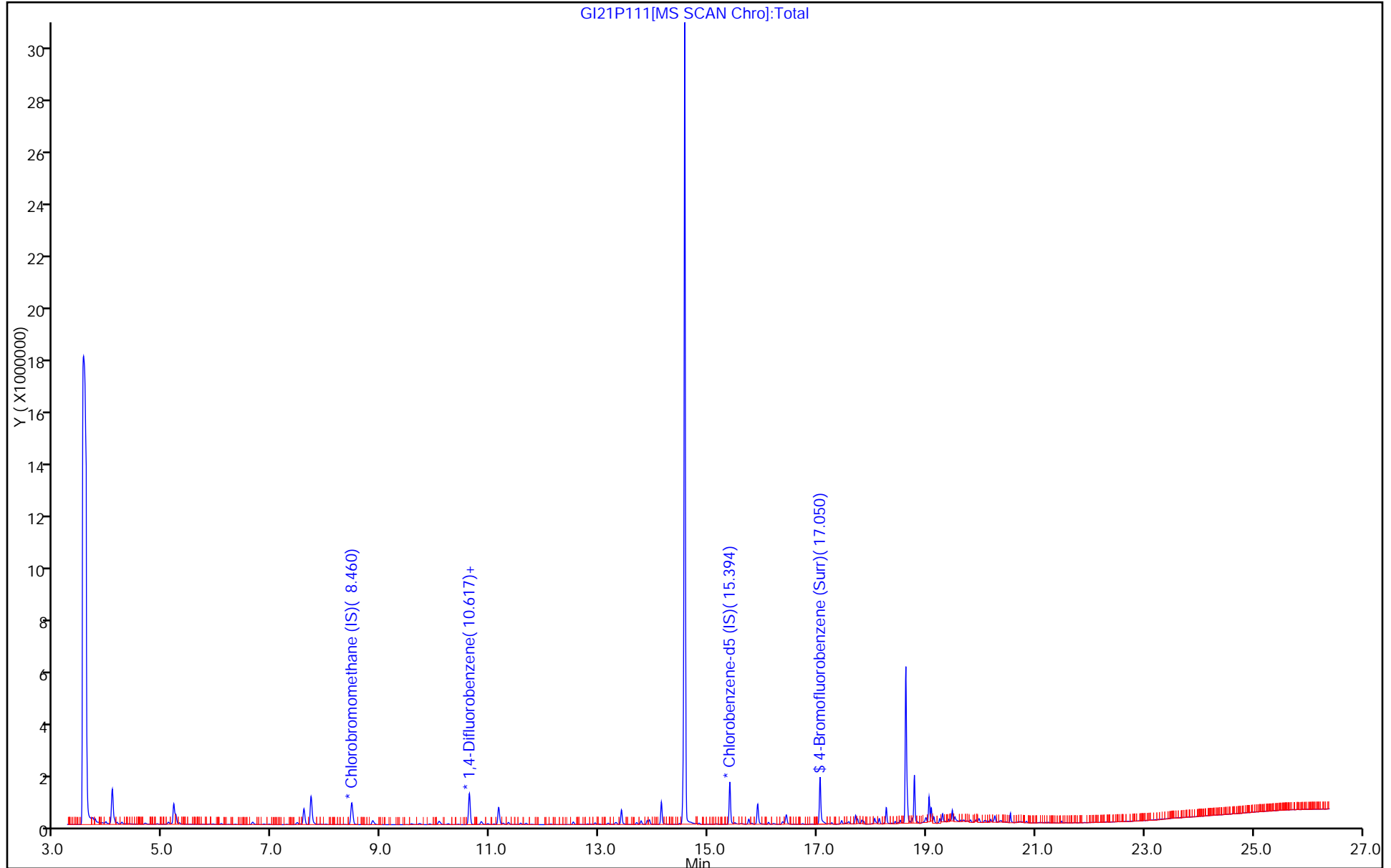
Dil. Factor: 1.0000

ALS Bottle#: 11

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\20160919-3444.b\GI21P111.D
 Lims ID: 140-5852-A-11
 Client ID: VP-112
 Sample Type: Client
 Inject. Date: 21-Sep-2016 23:52:30 ALS Bottle#: 11 Worklist Smp#: 15
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-015
 Misc. Info.: 140-5852-a-11
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:38:50 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 14:04:08

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.25	106.18

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

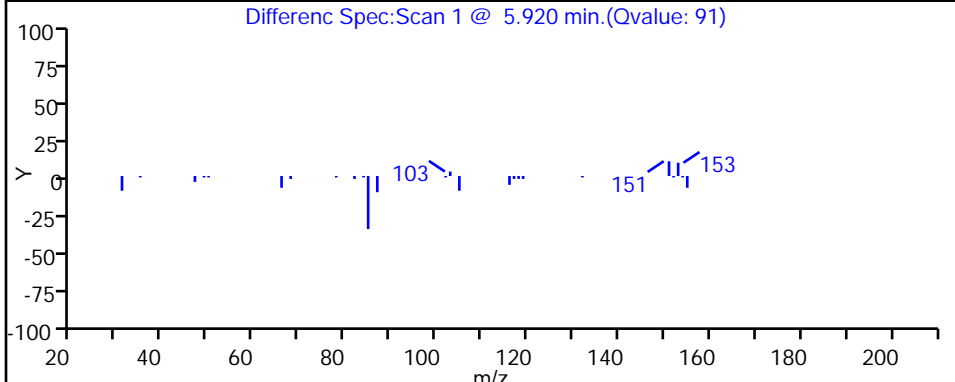
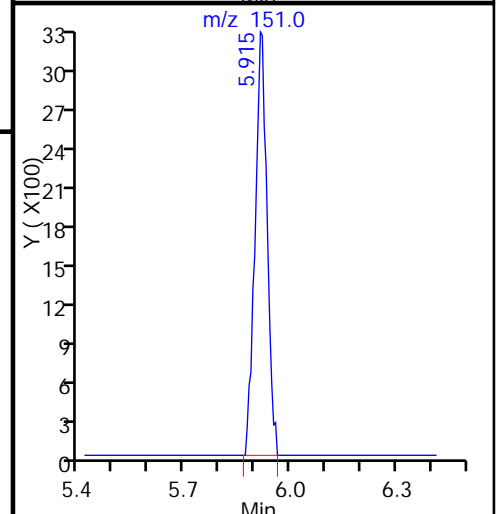
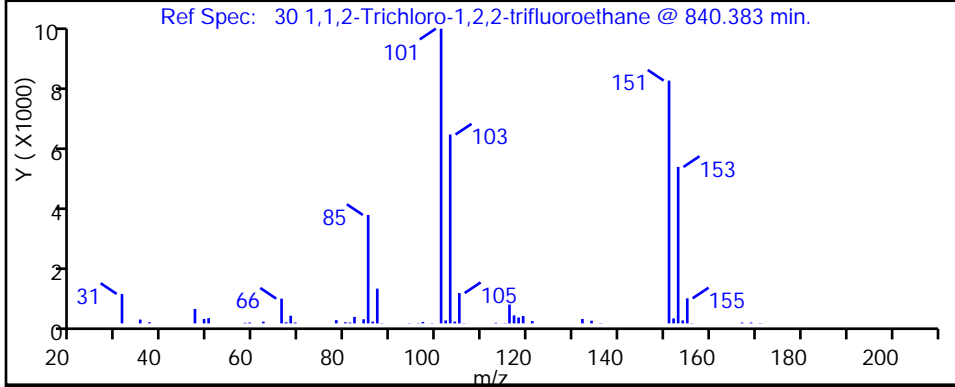
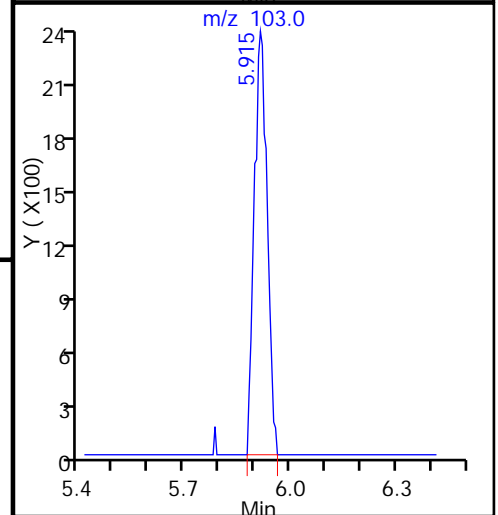
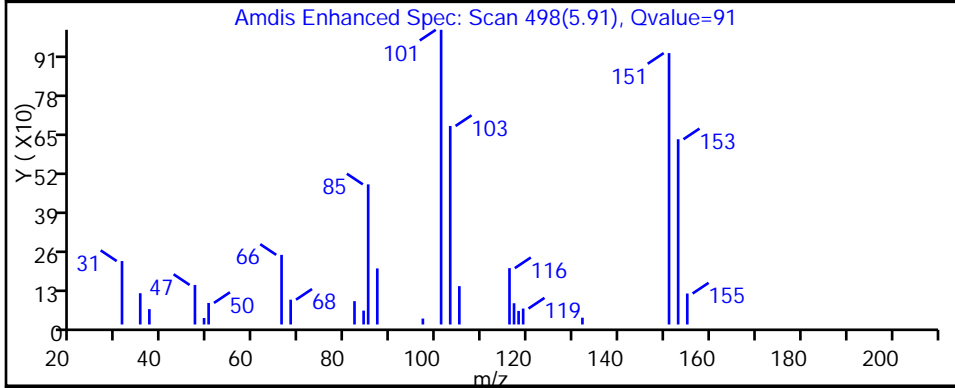
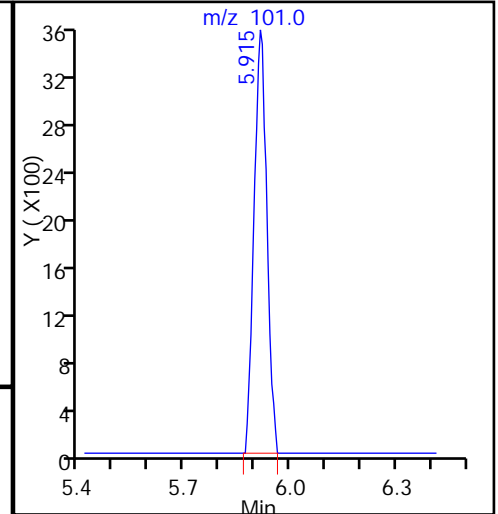
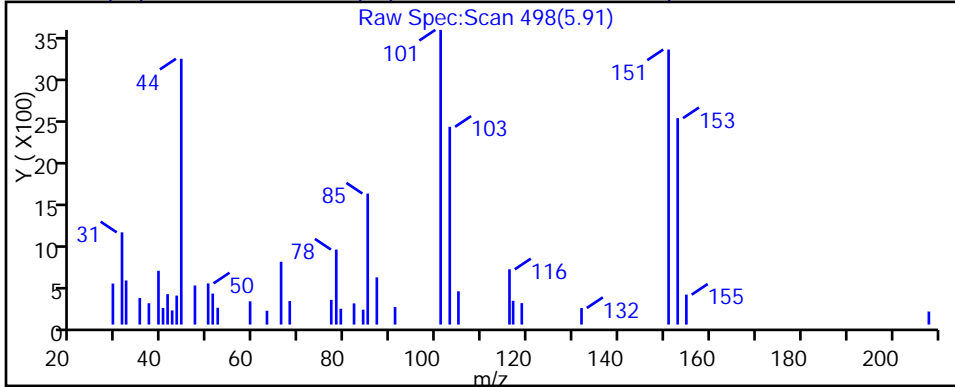
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

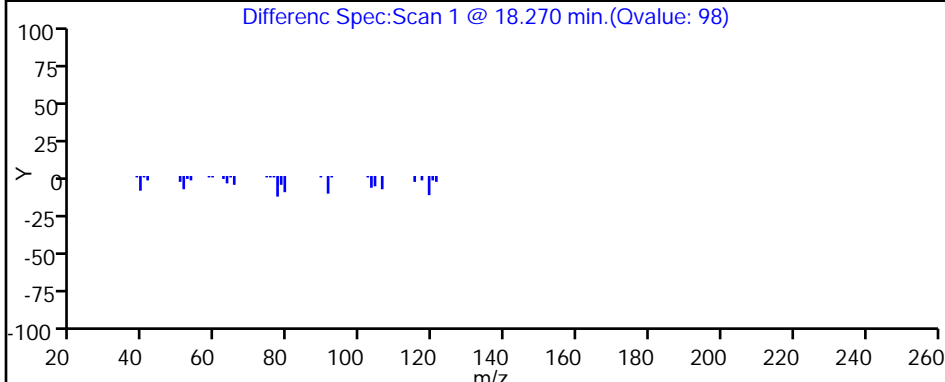
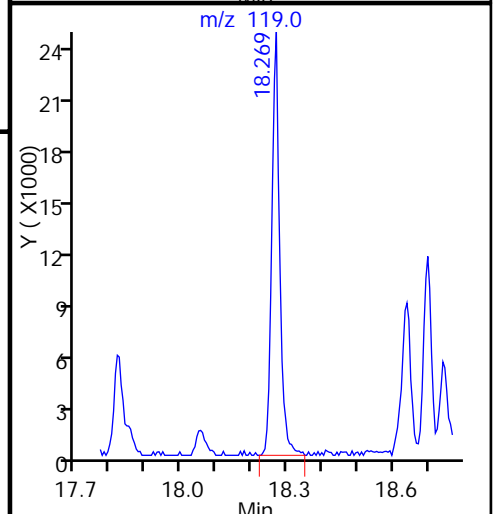
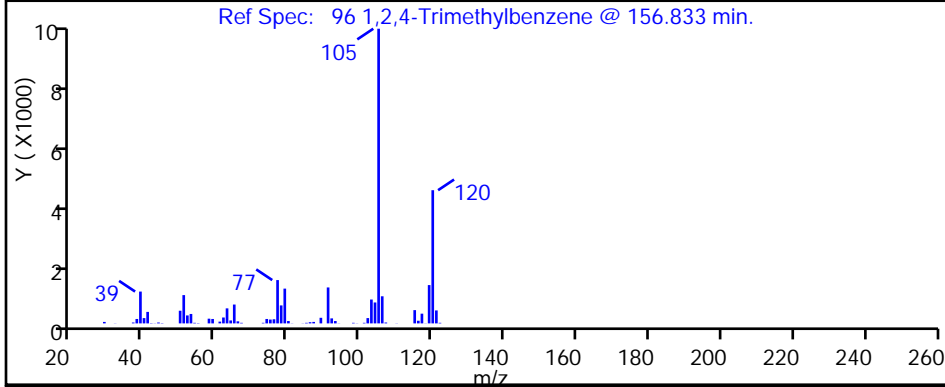
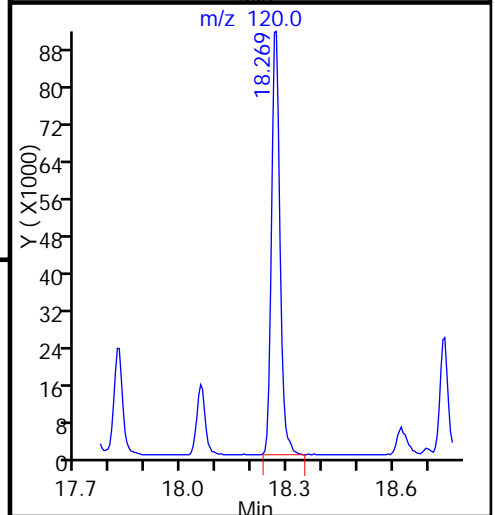
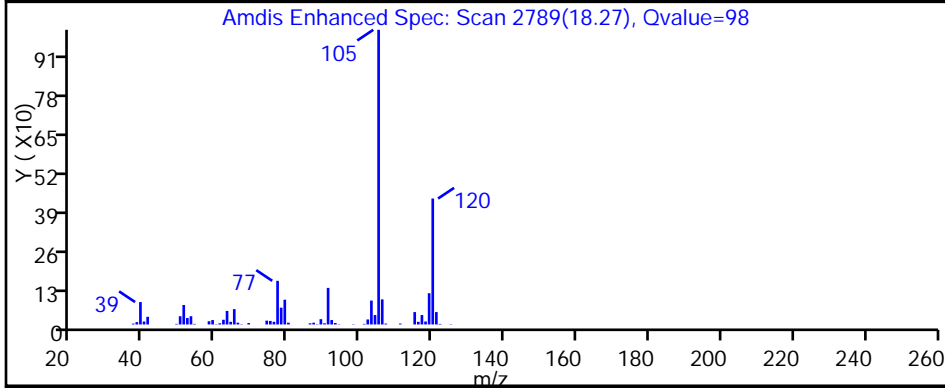
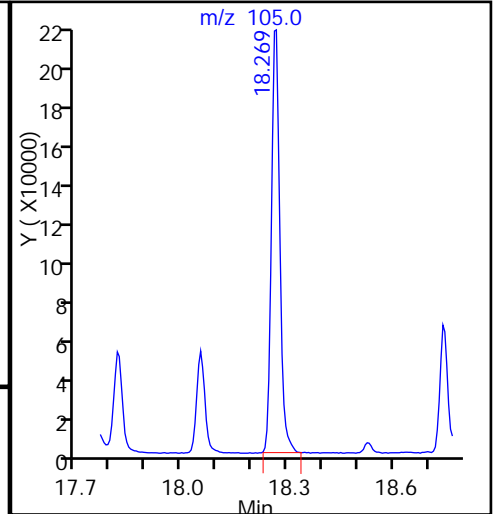
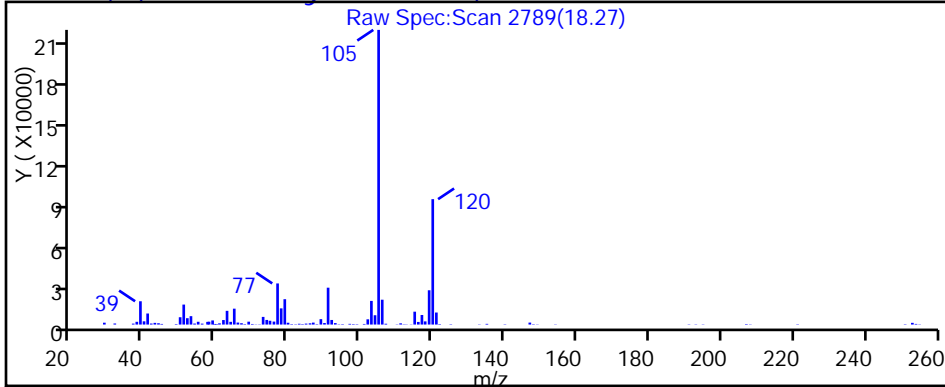
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

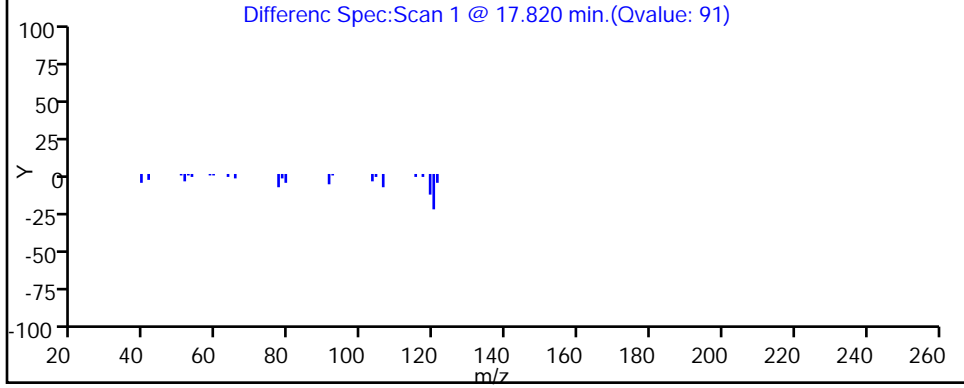
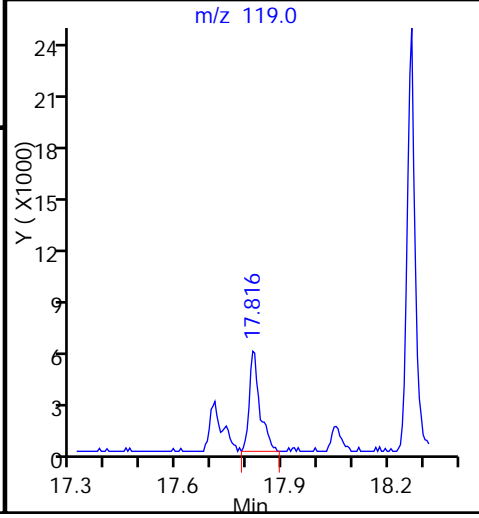
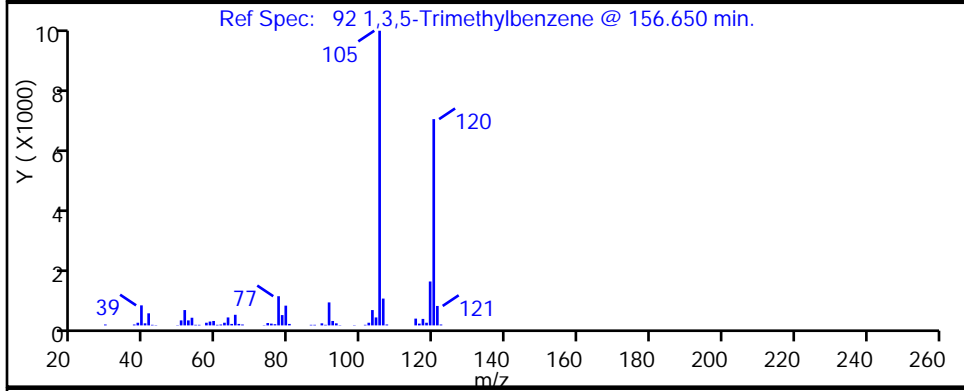
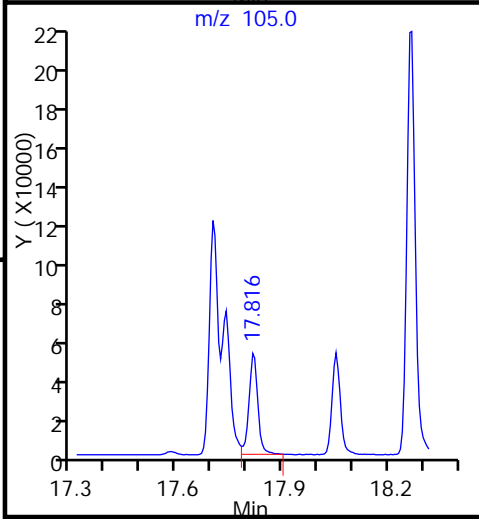
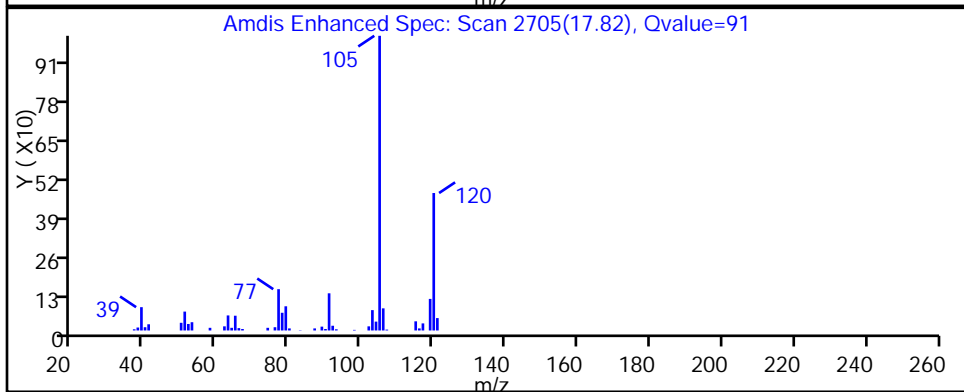
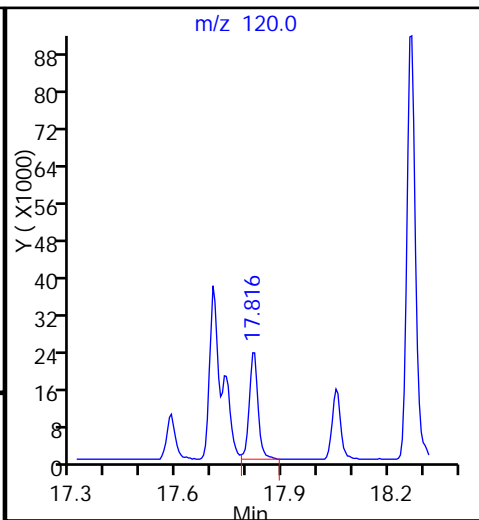
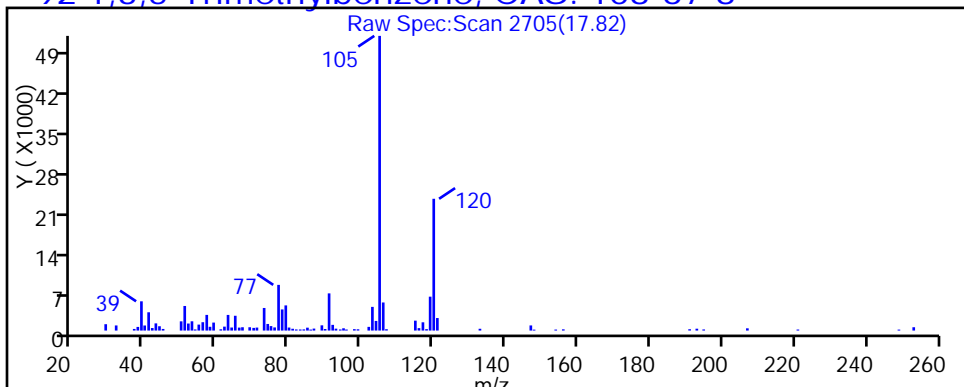
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

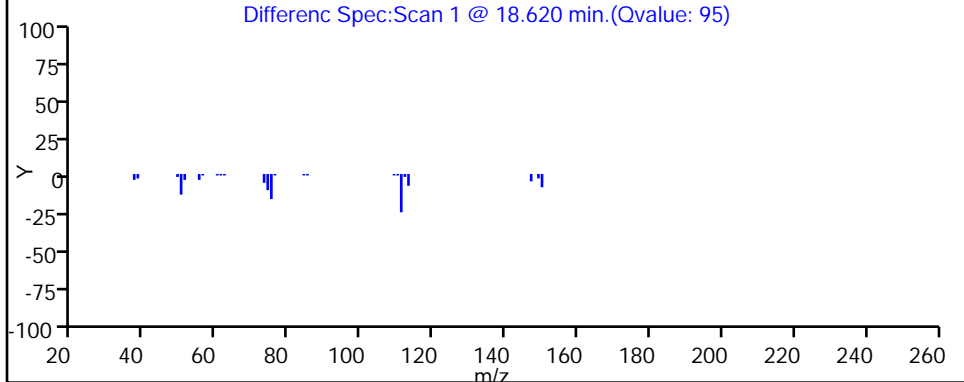
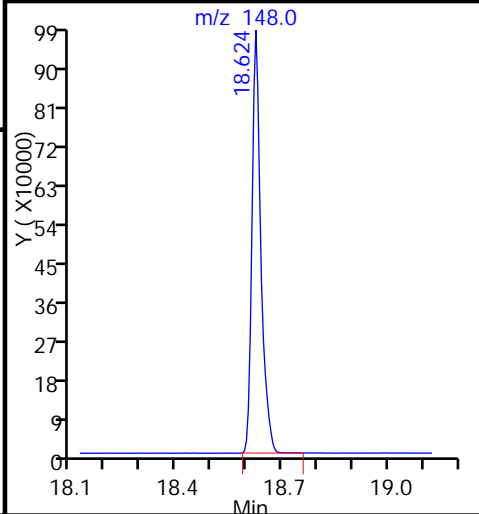
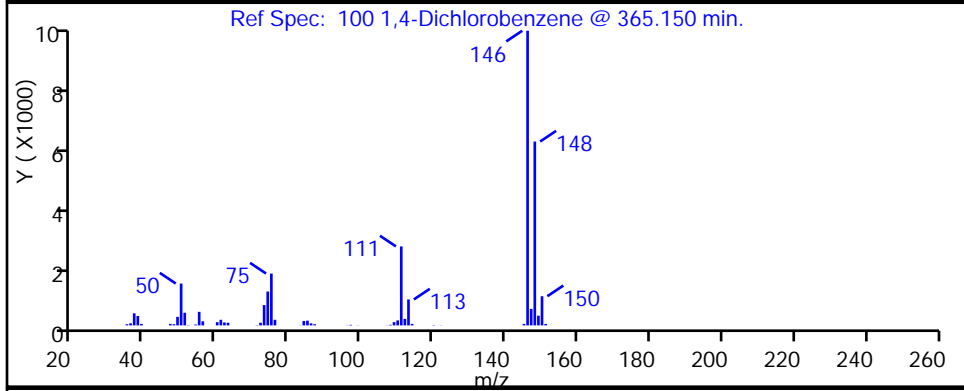
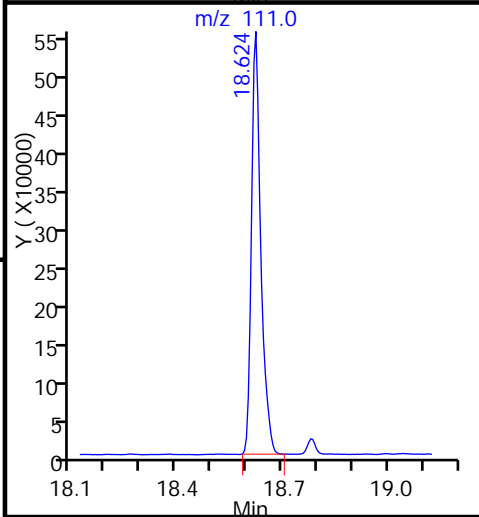
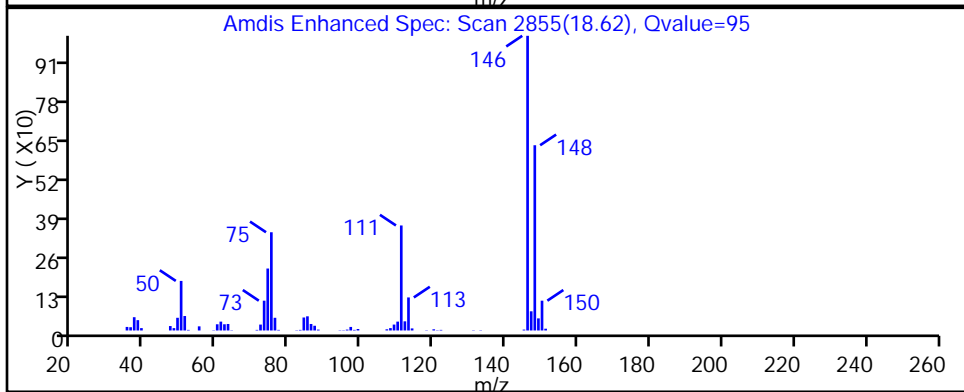
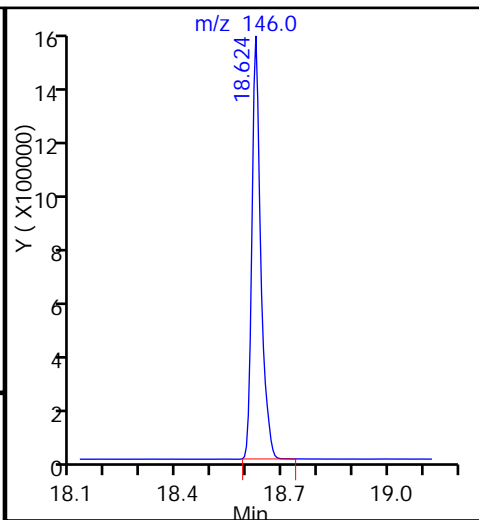
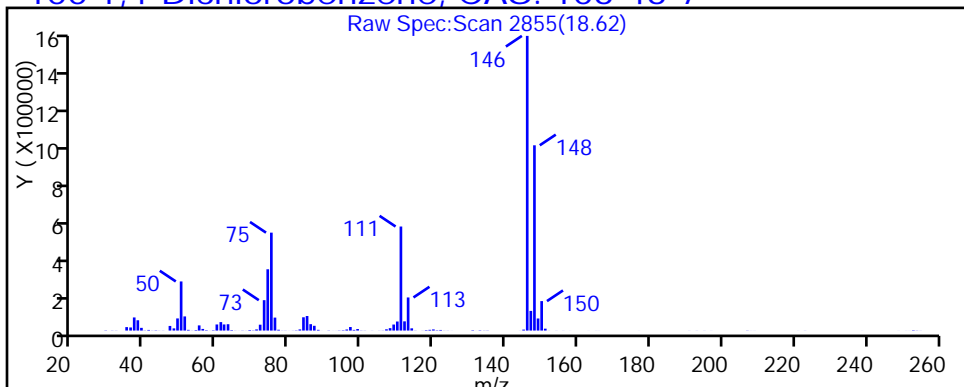
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

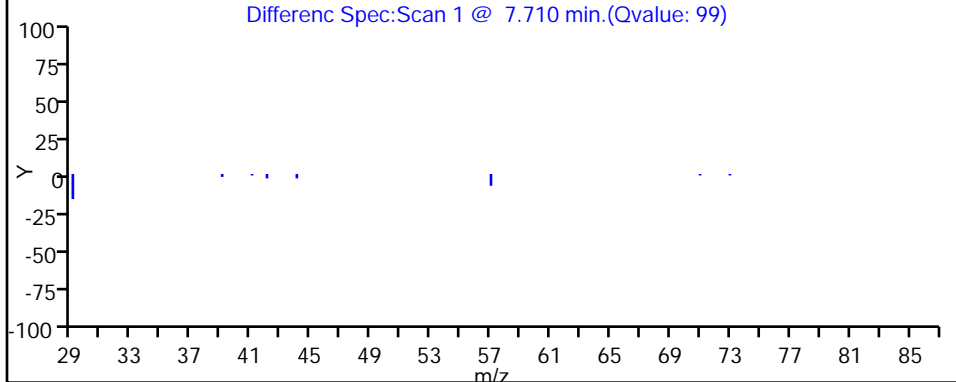
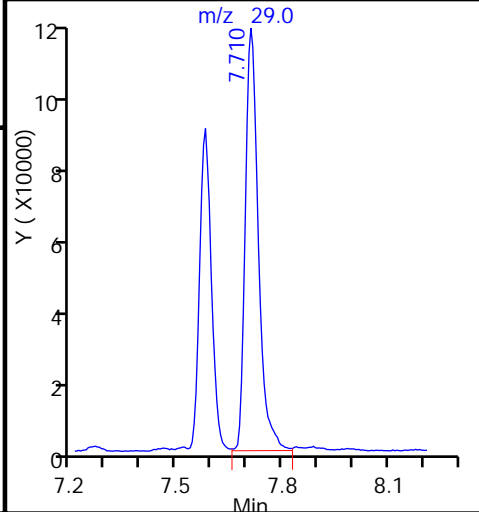
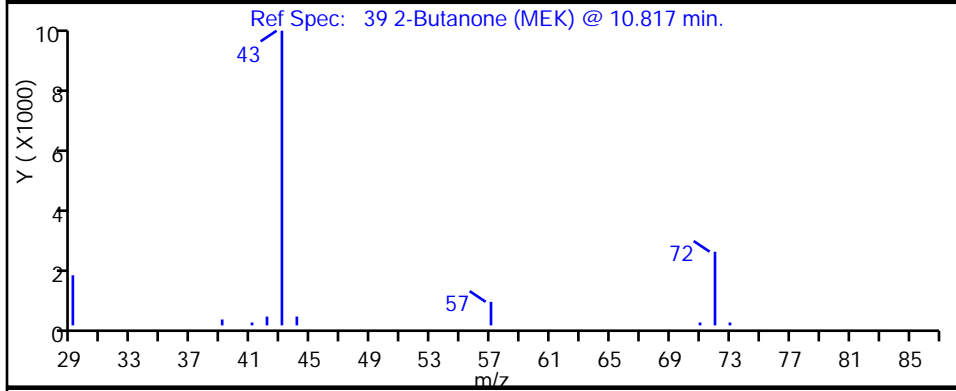
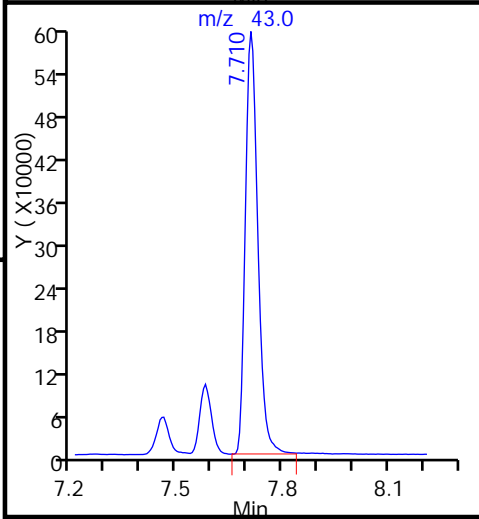
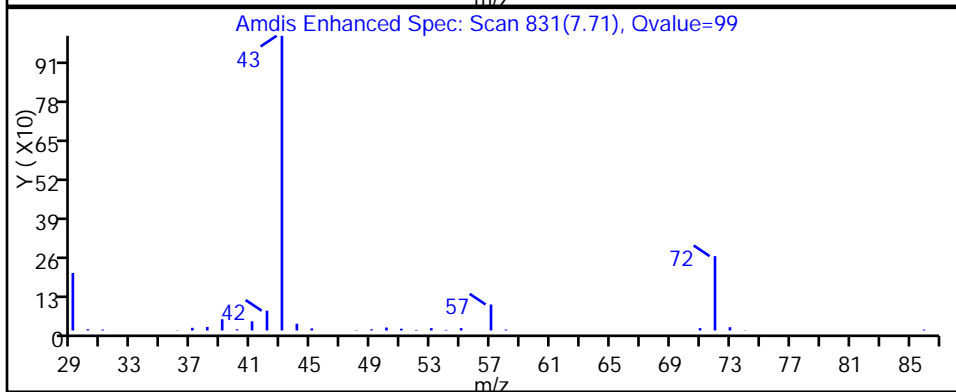
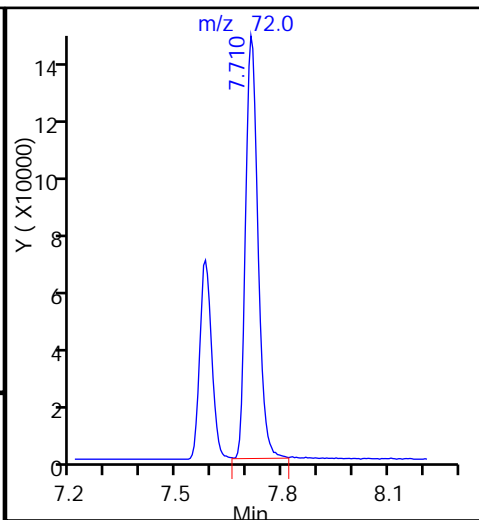
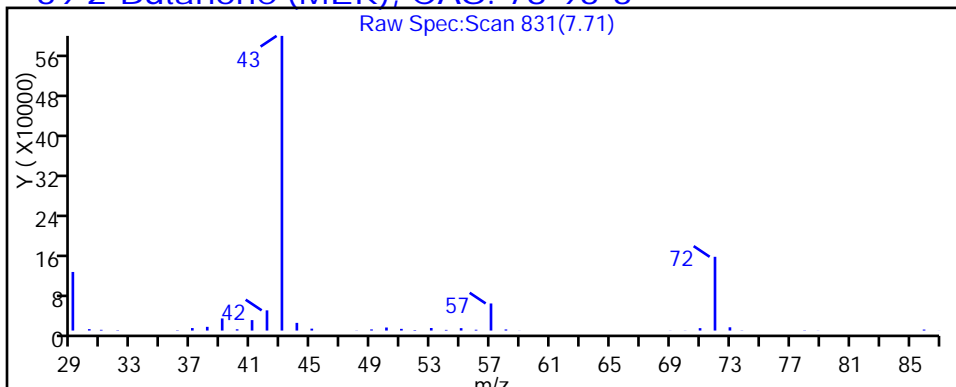
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

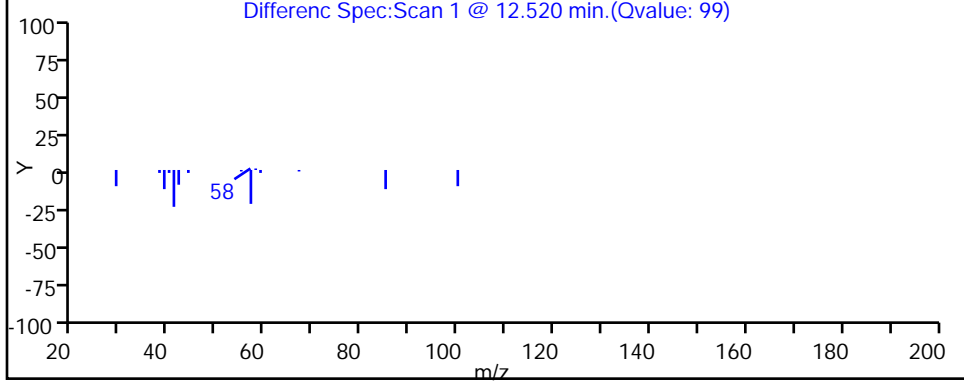
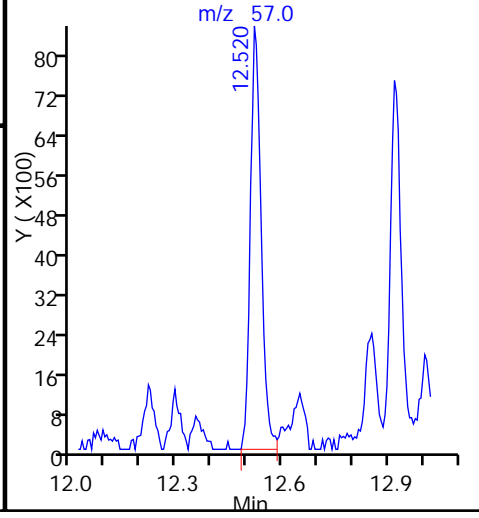
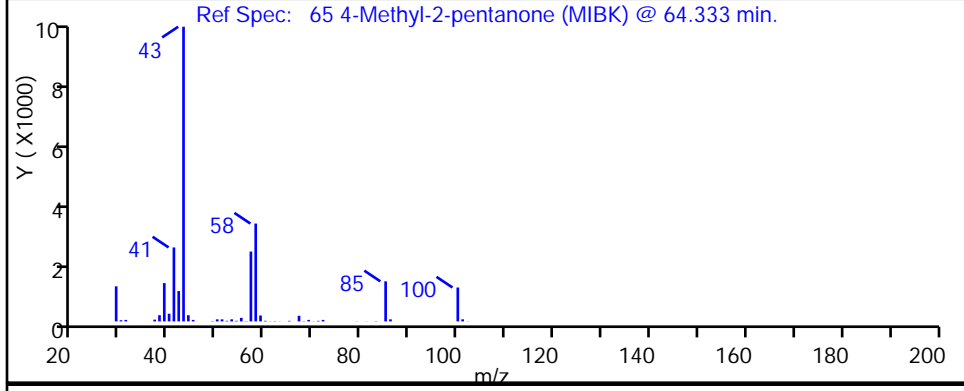
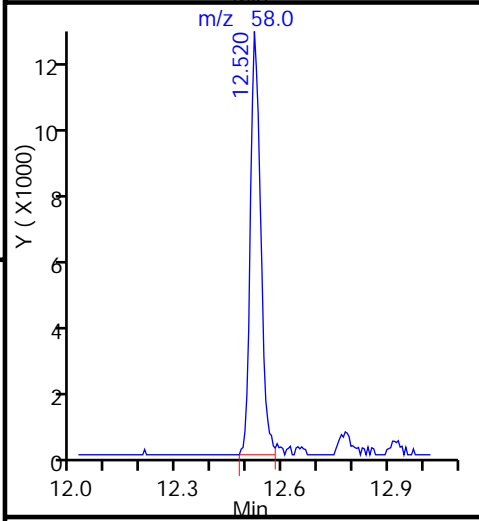
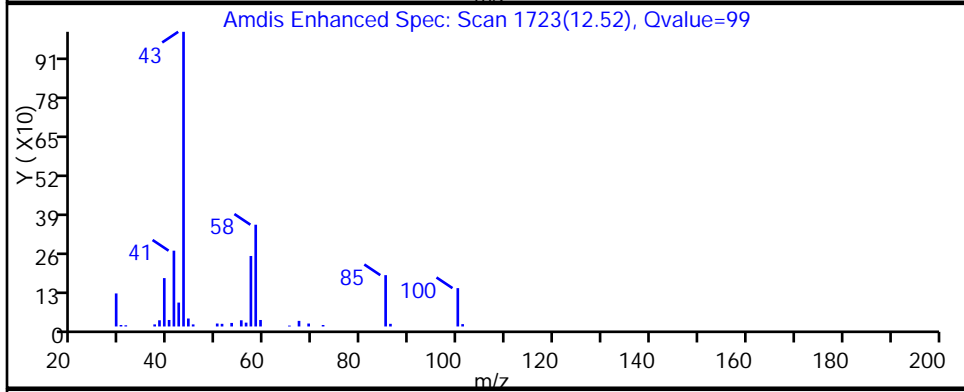
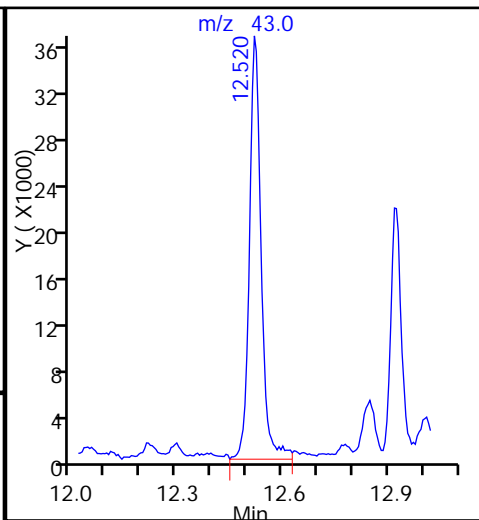
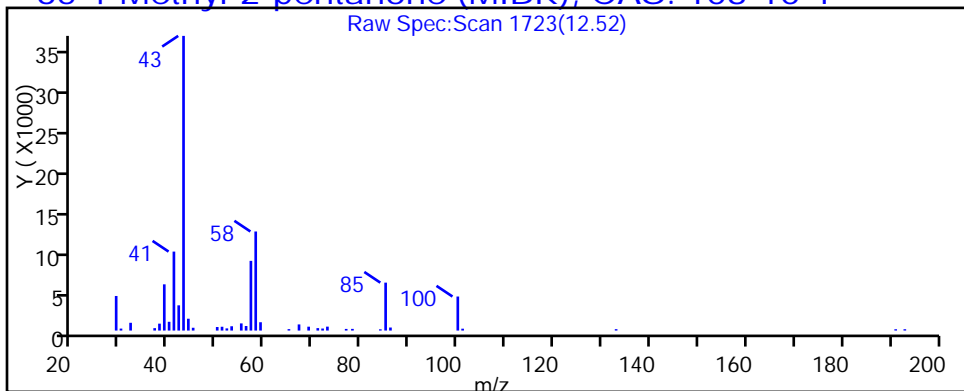
Method: MG_TO15

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

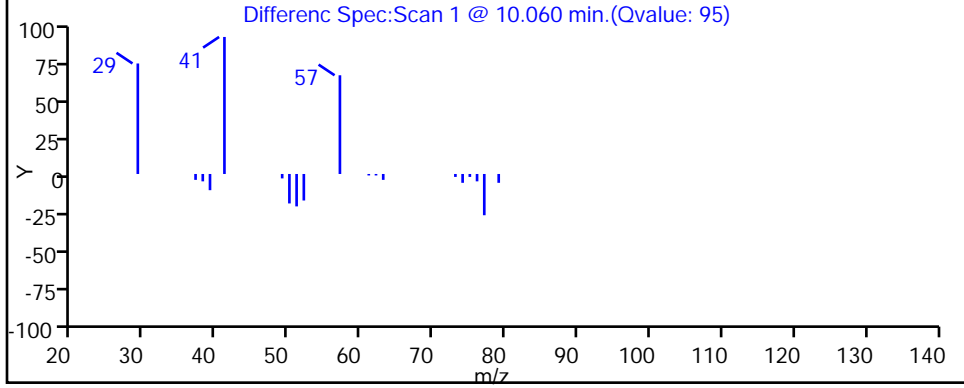
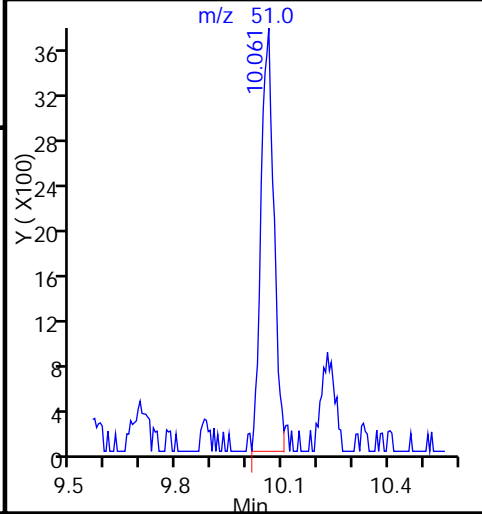
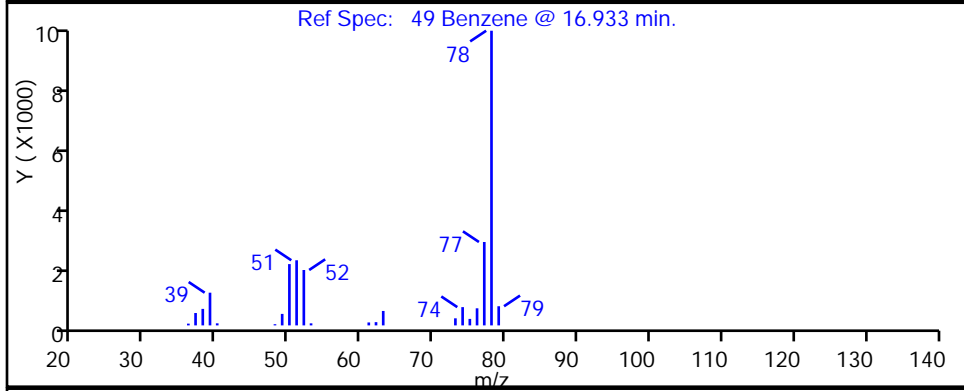
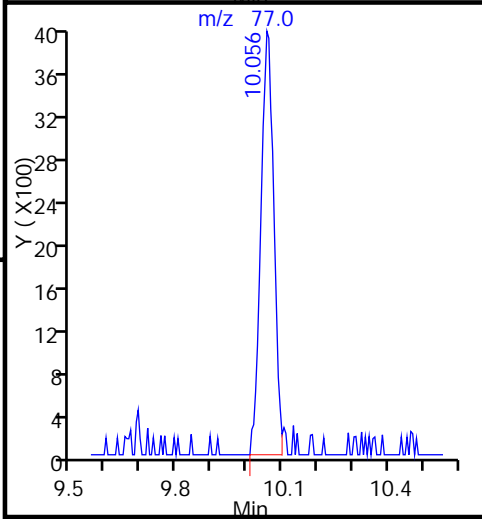
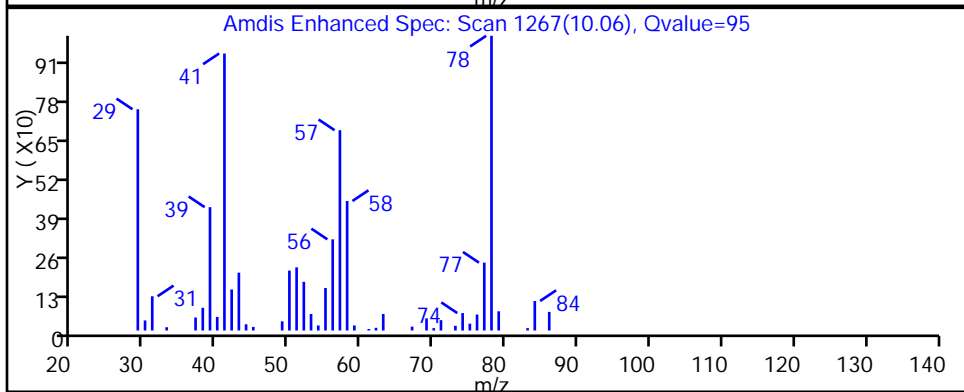
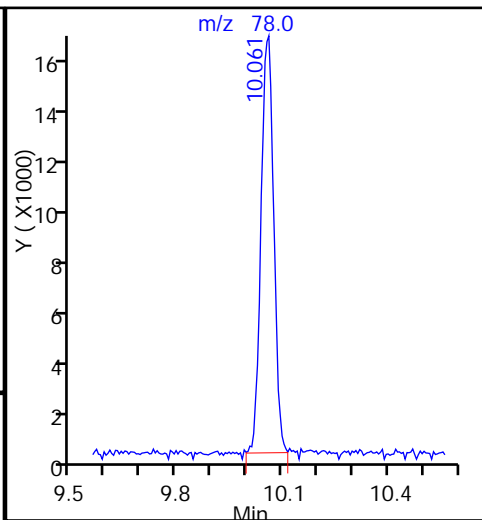
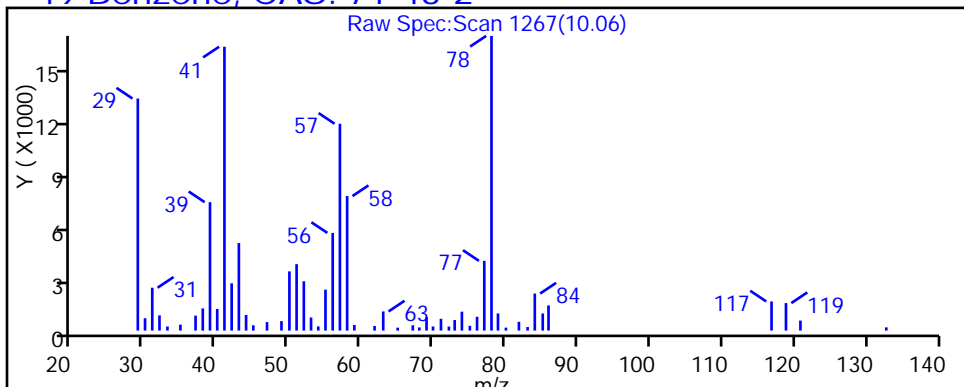
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

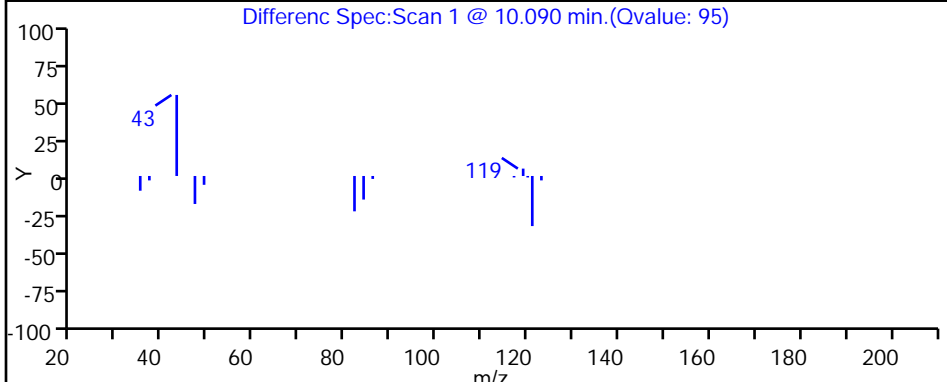
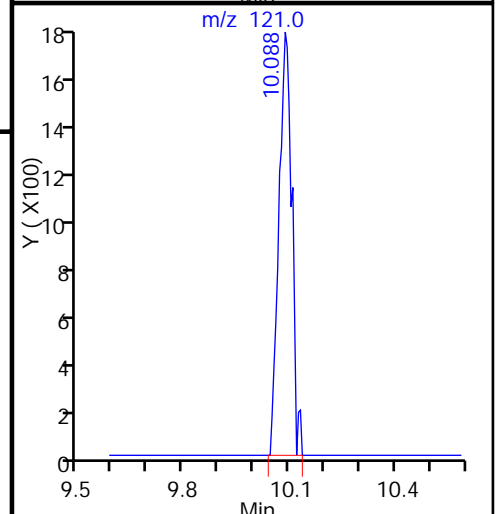
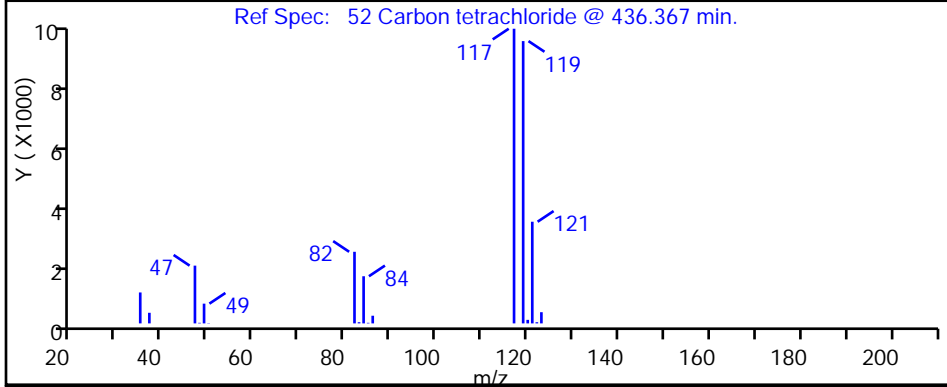
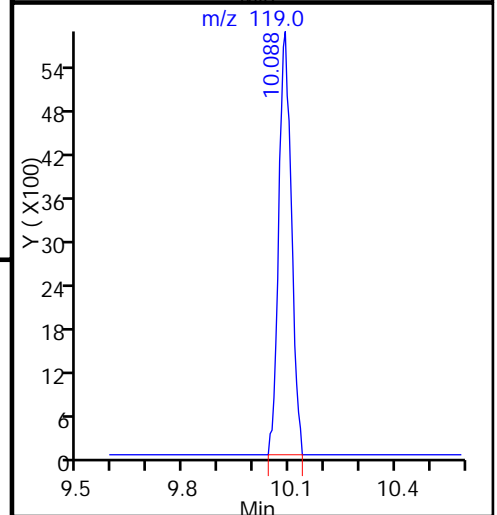
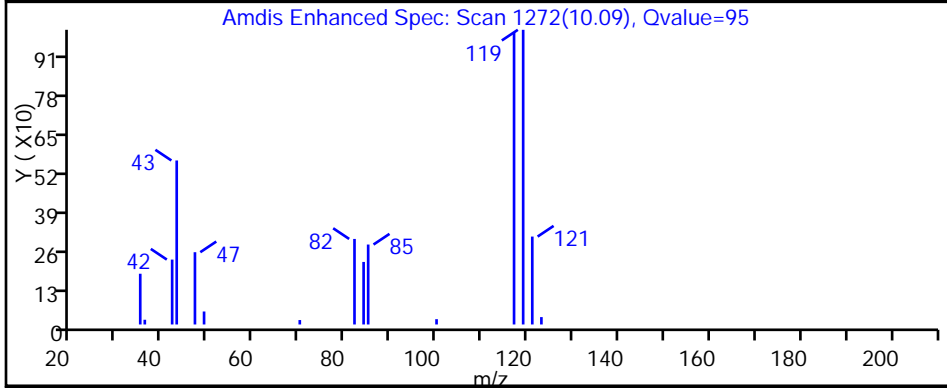
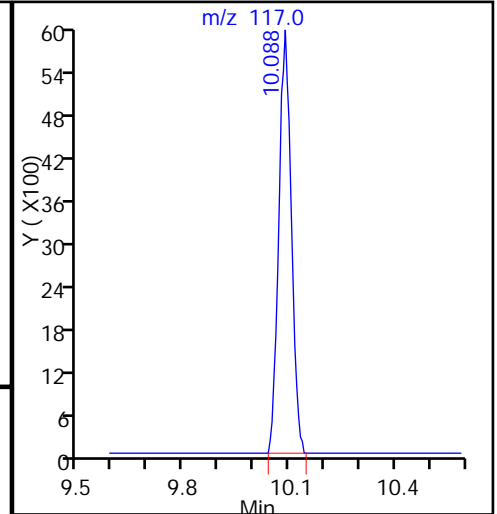
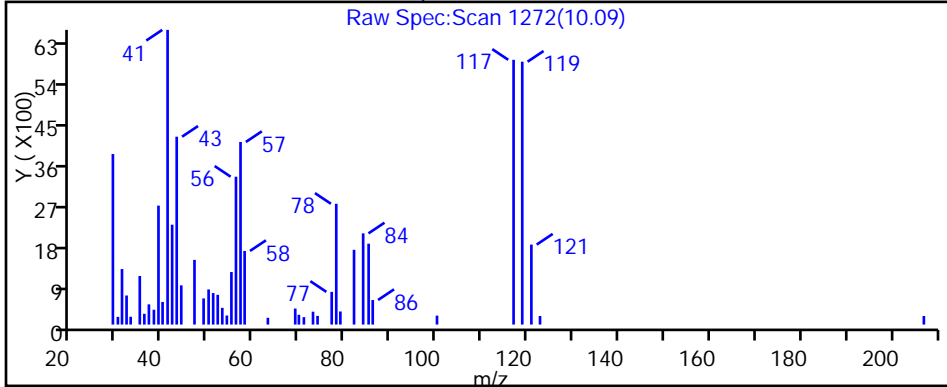
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

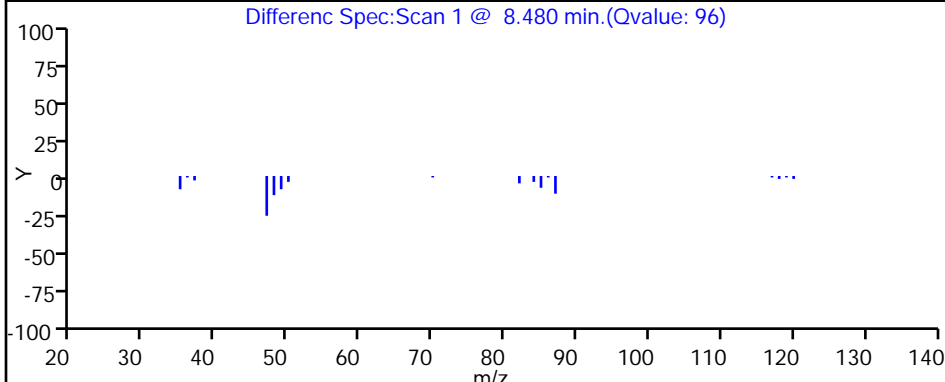
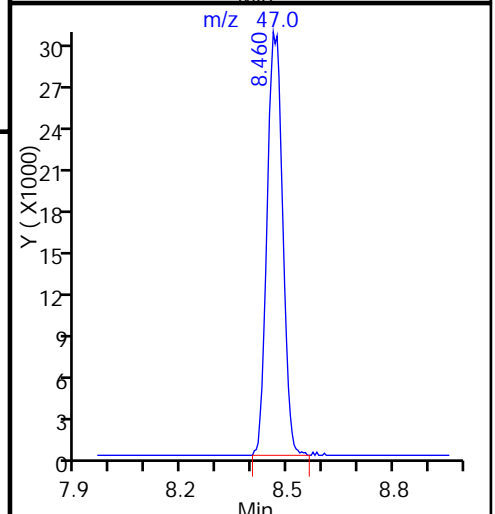
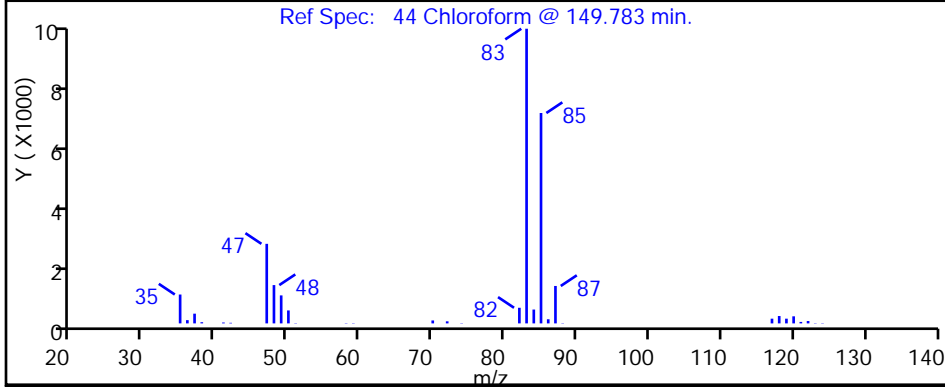
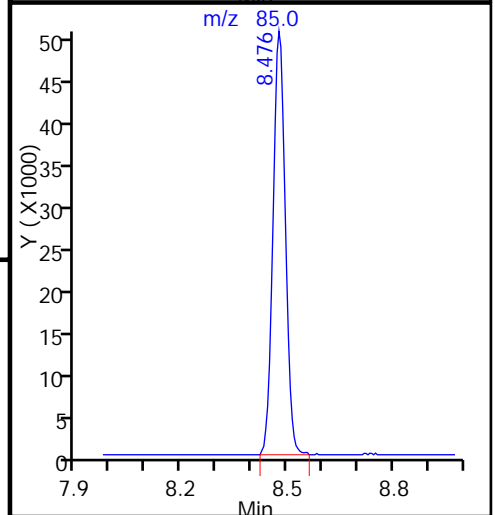
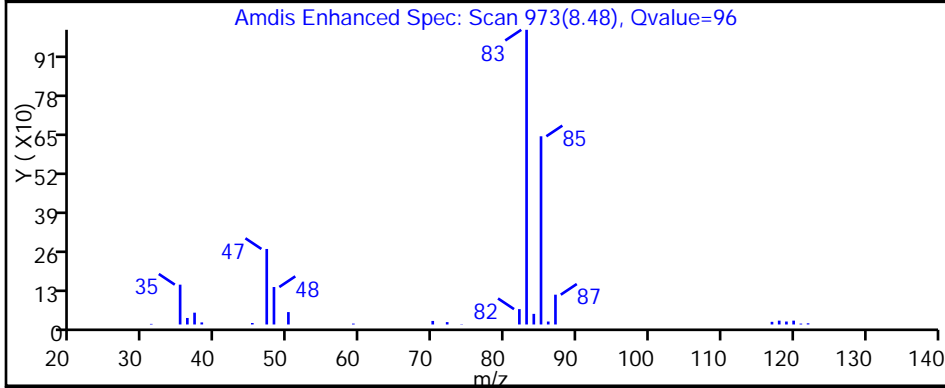
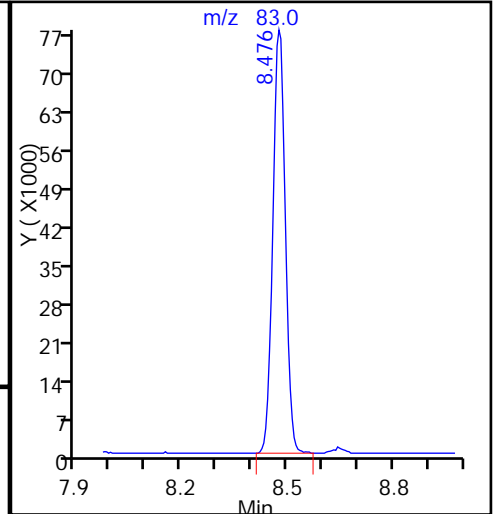
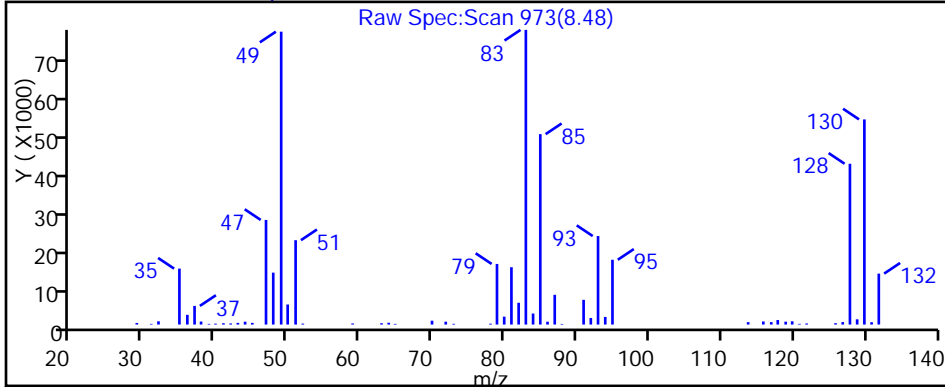
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

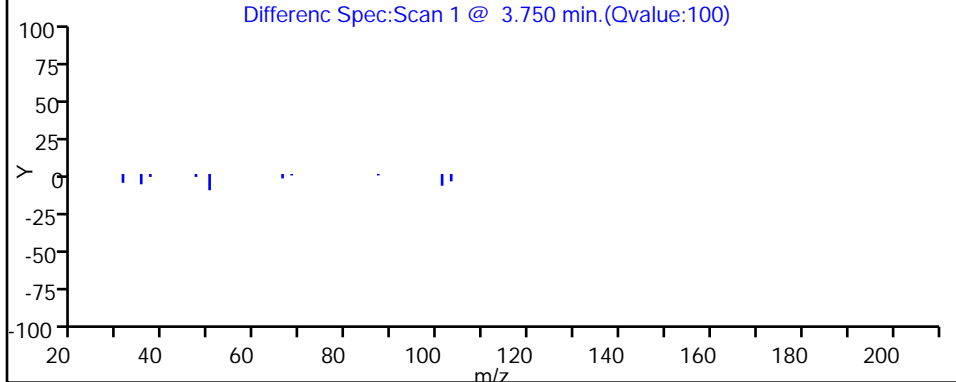
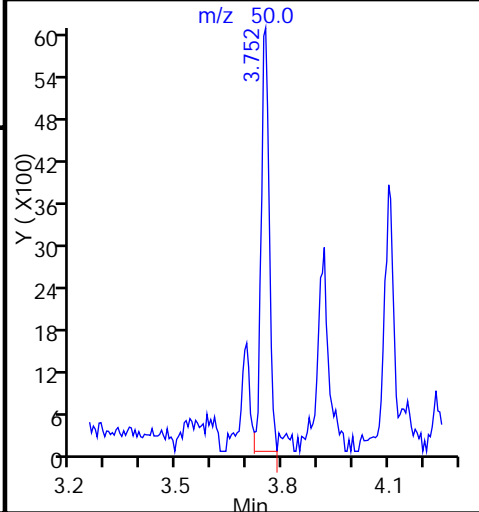
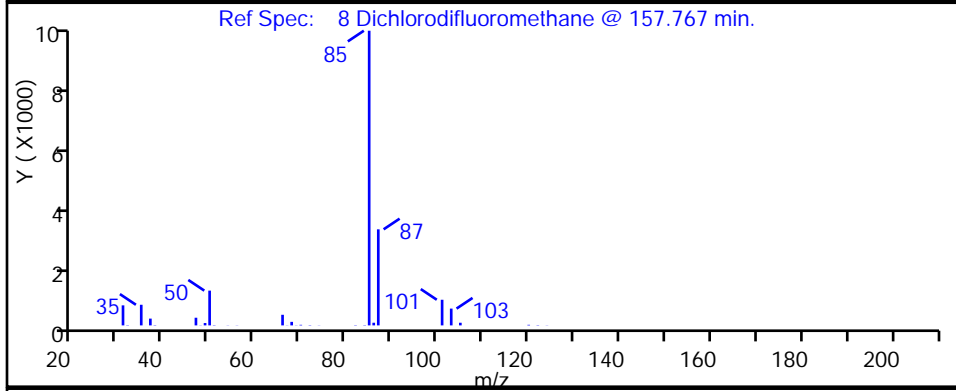
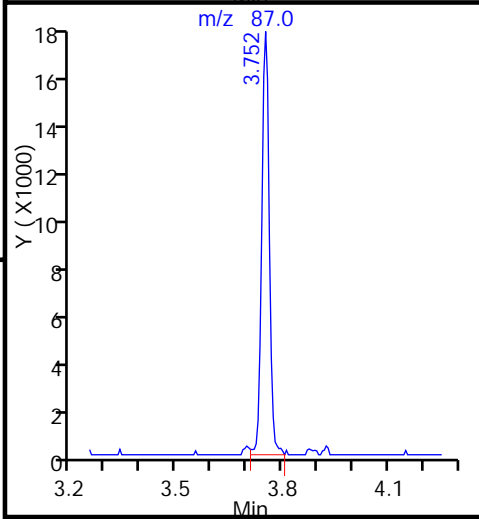
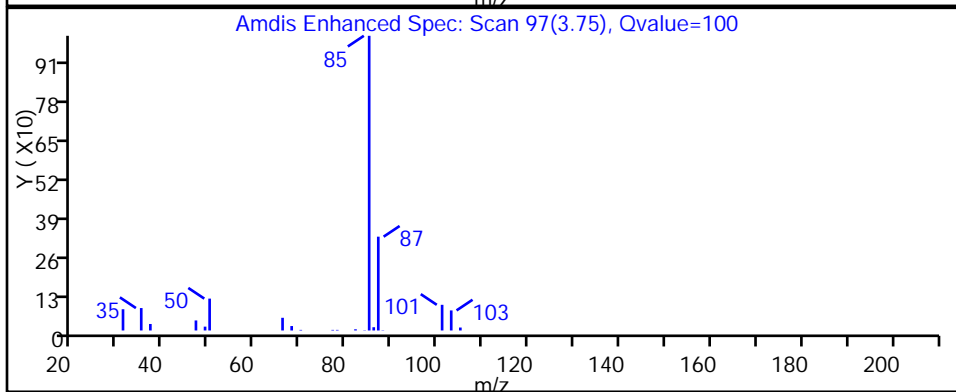
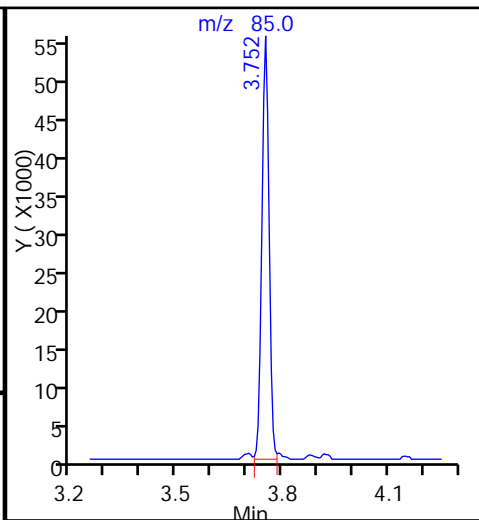
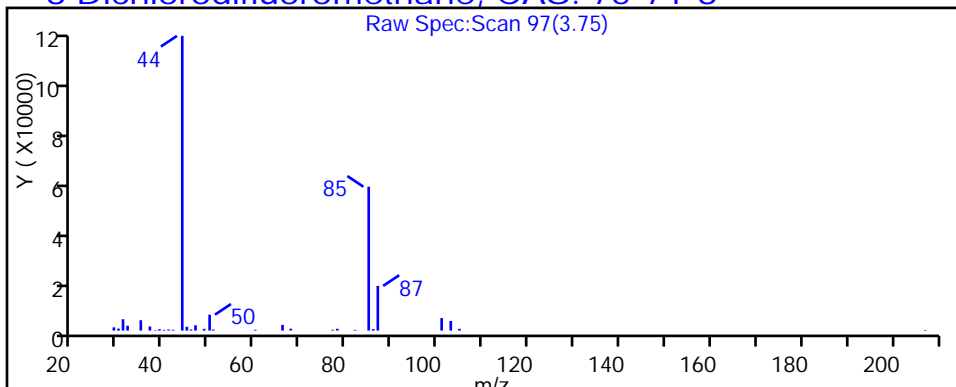
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

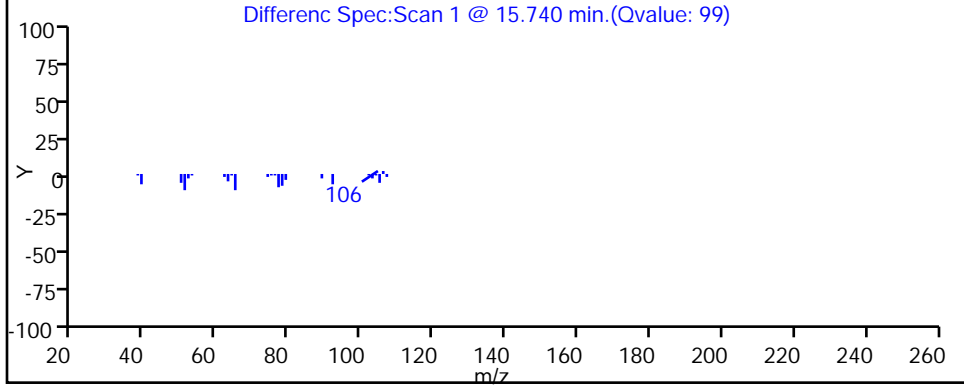
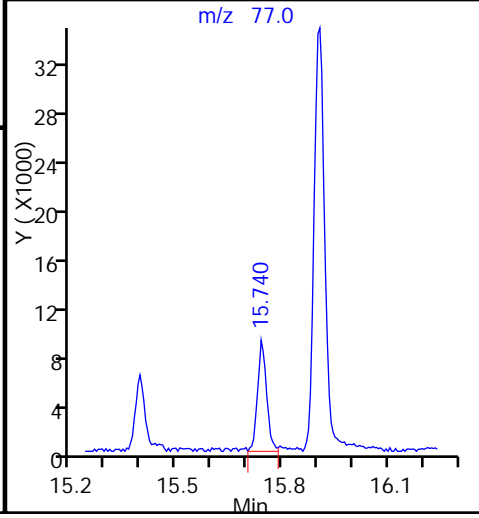
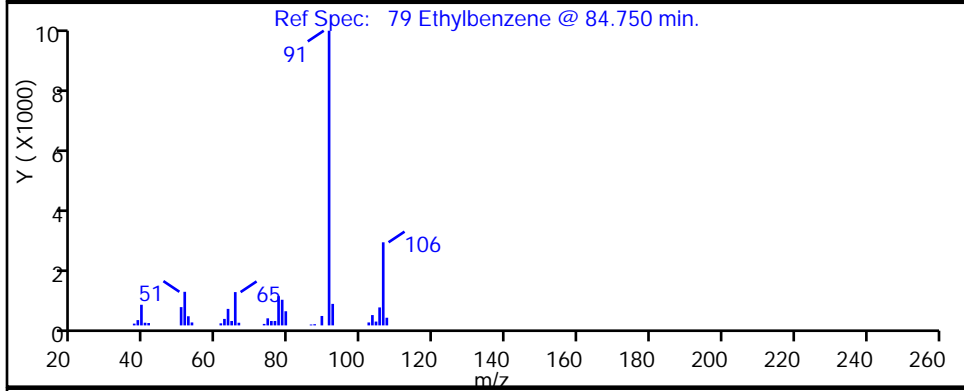
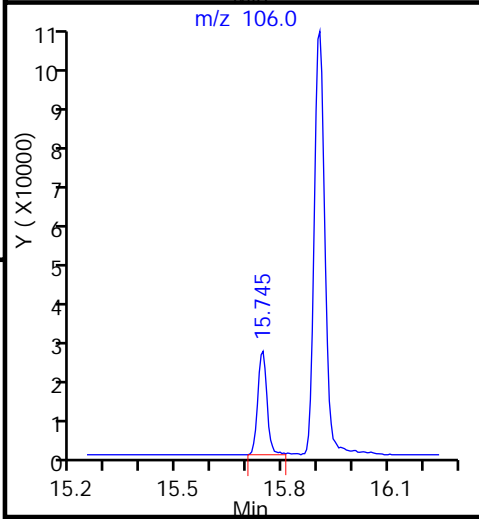
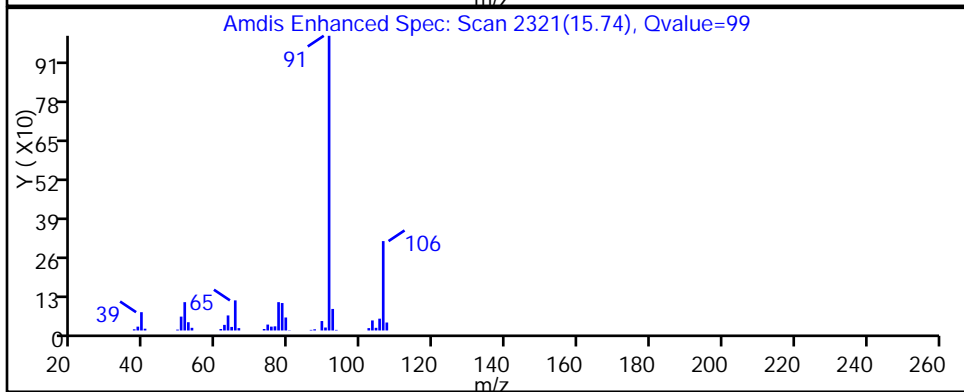
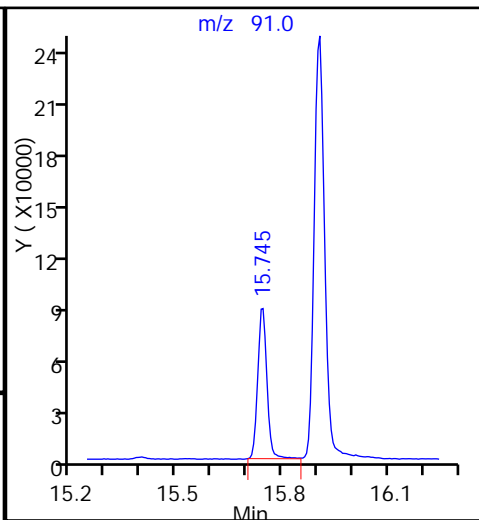
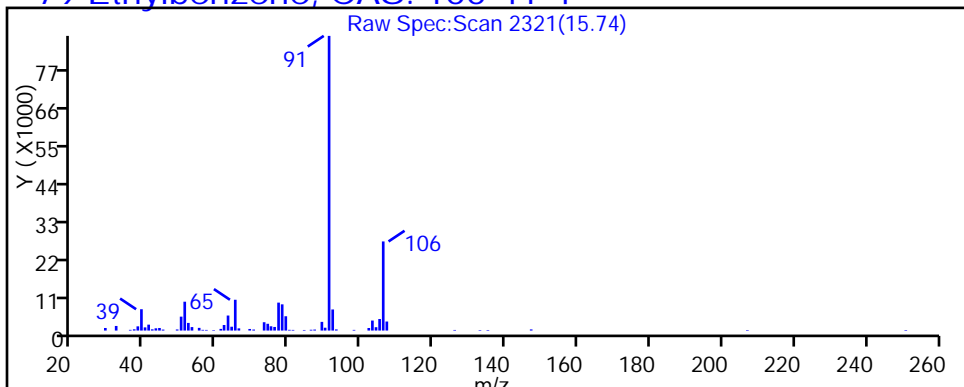
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

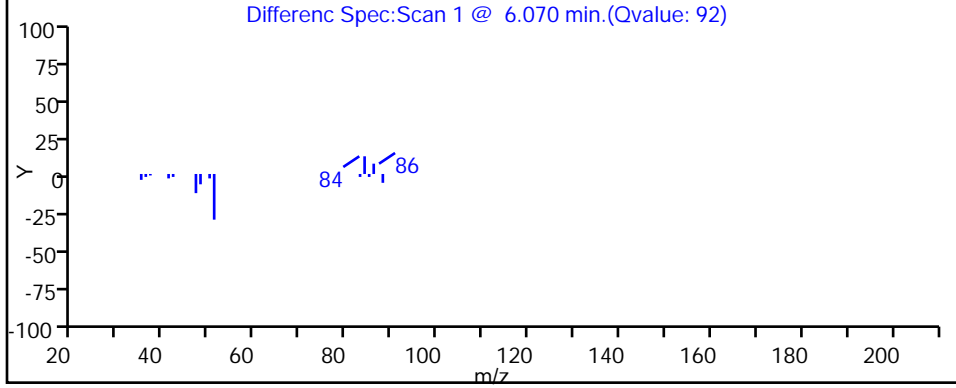
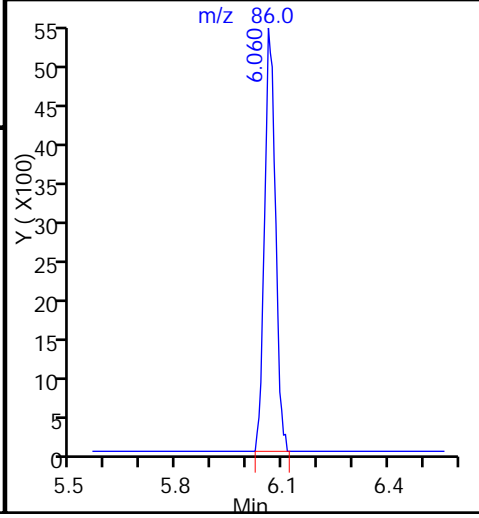
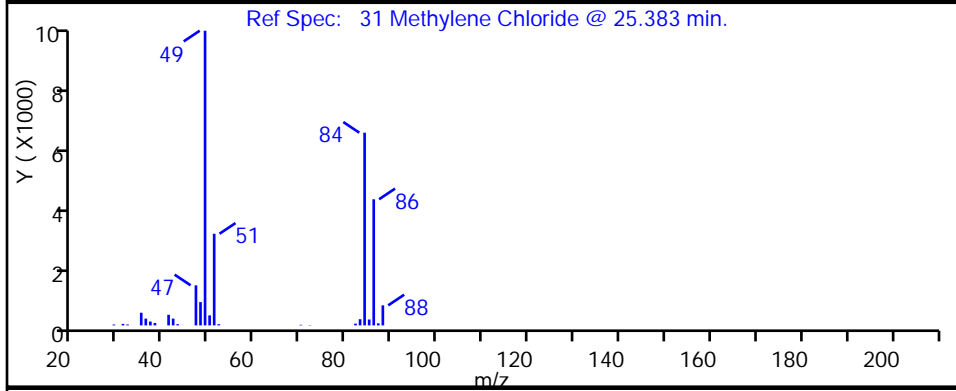
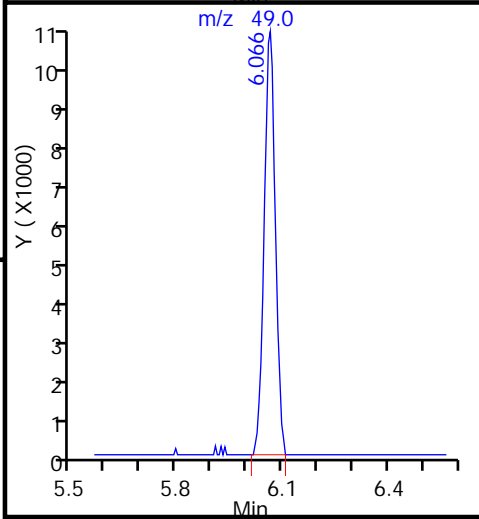
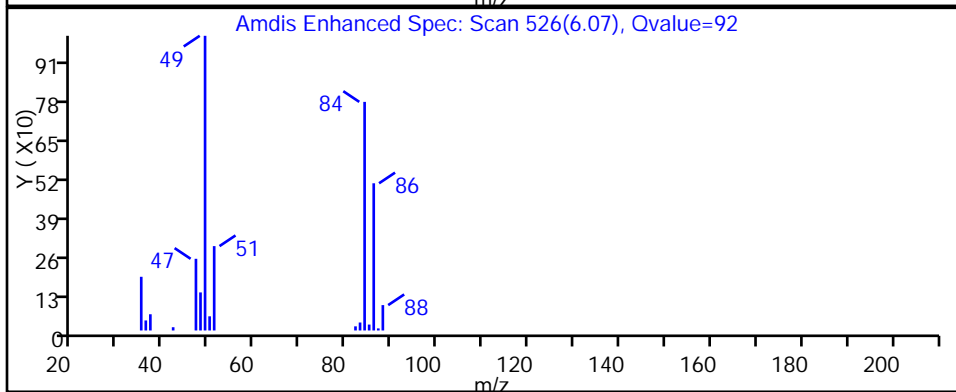
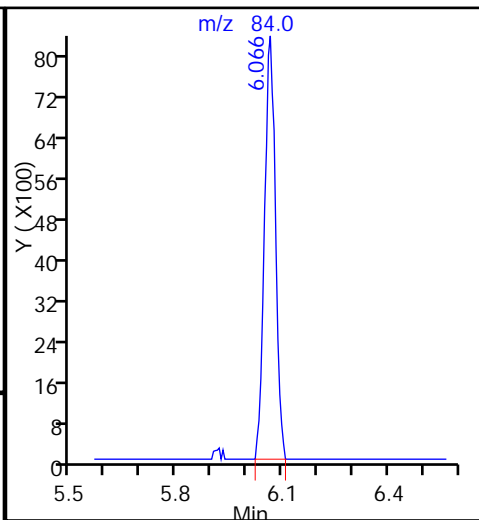
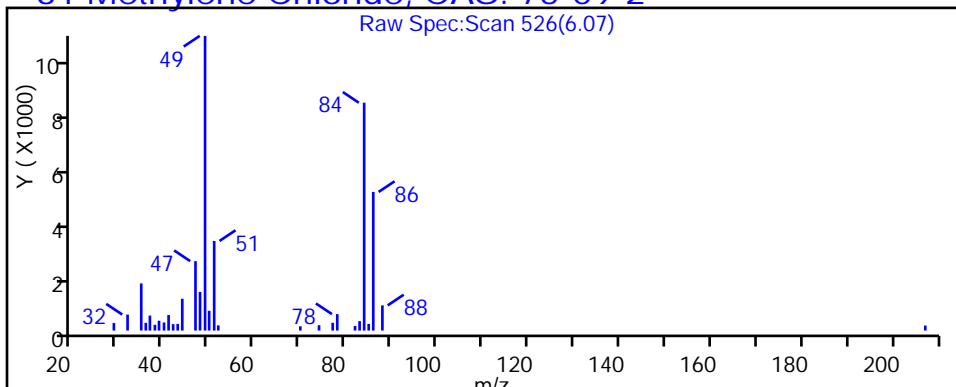
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

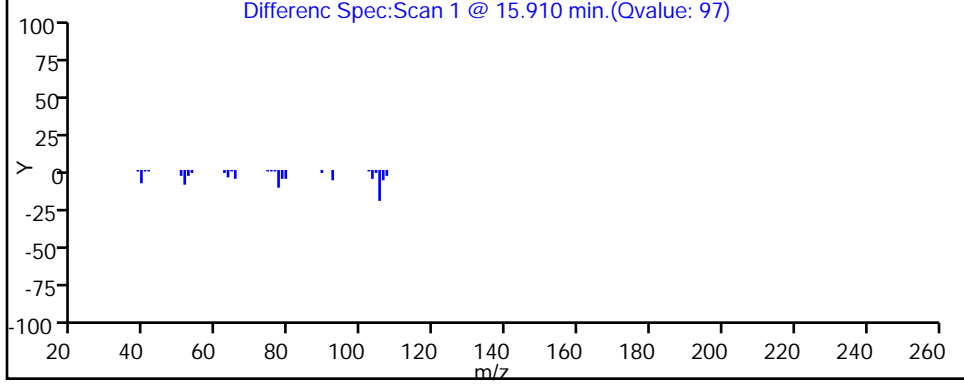
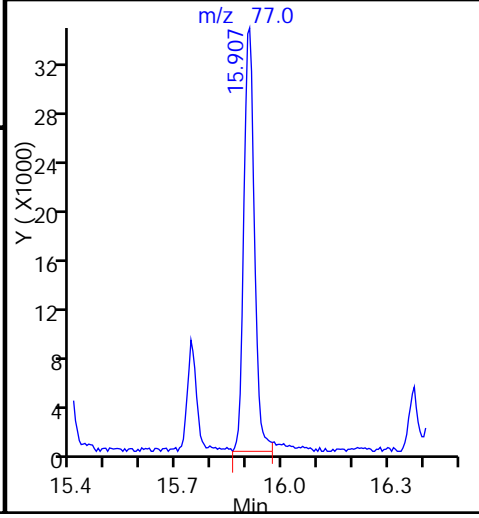
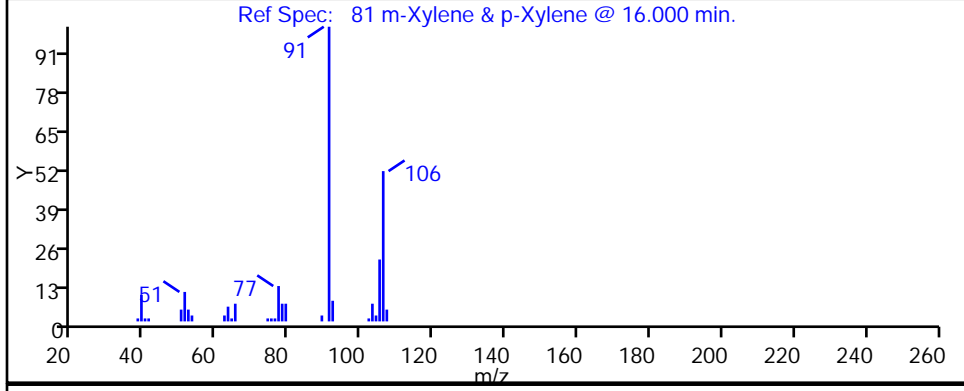
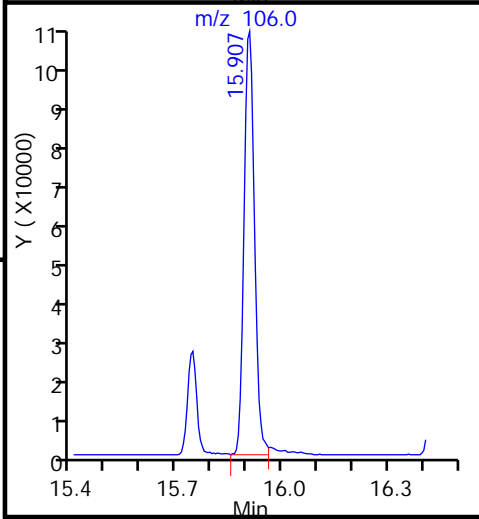
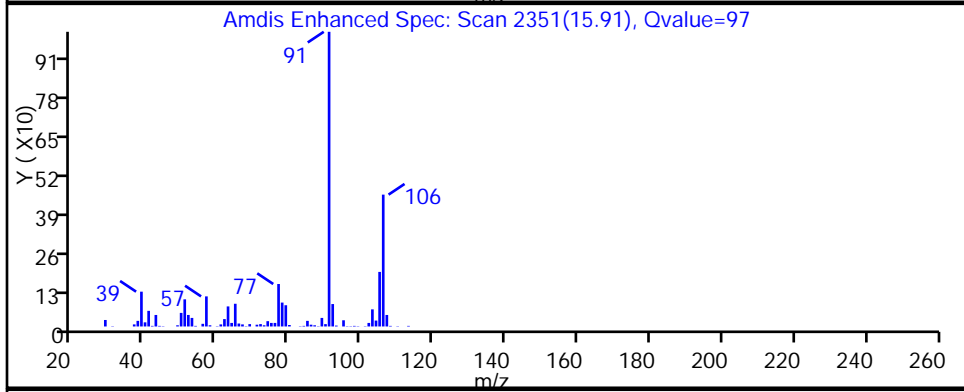
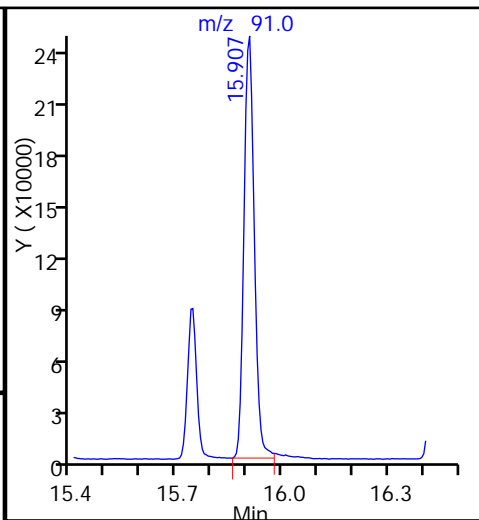
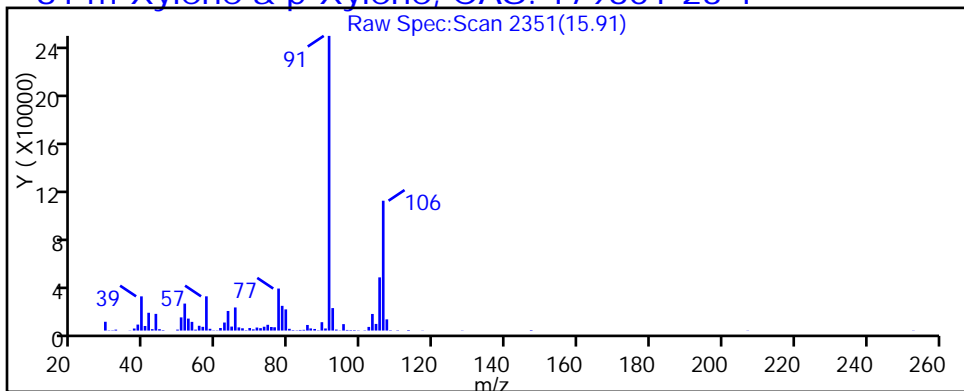
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

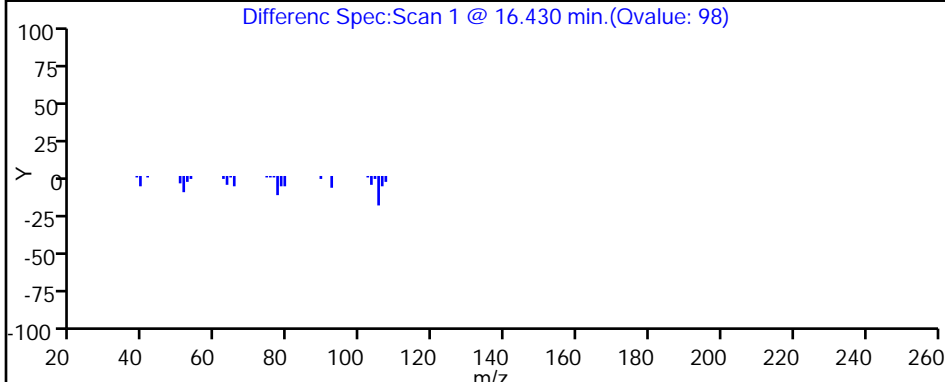
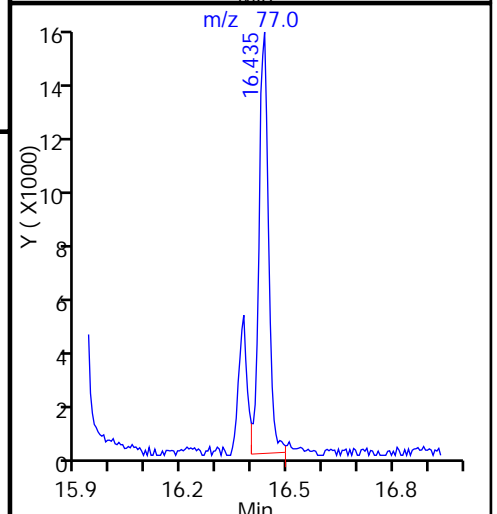
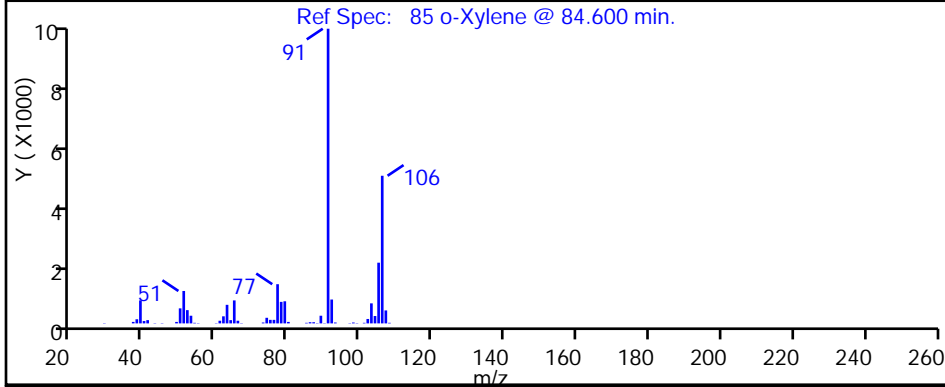
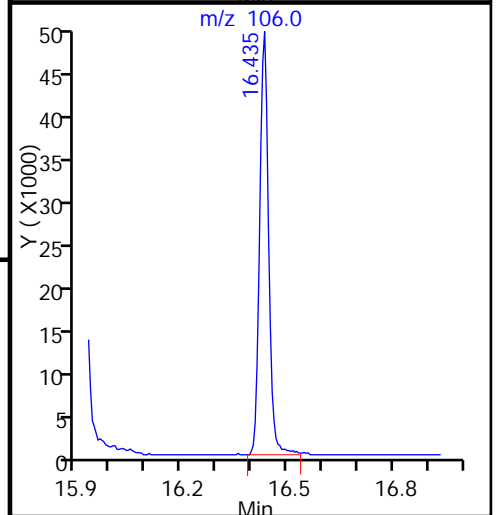
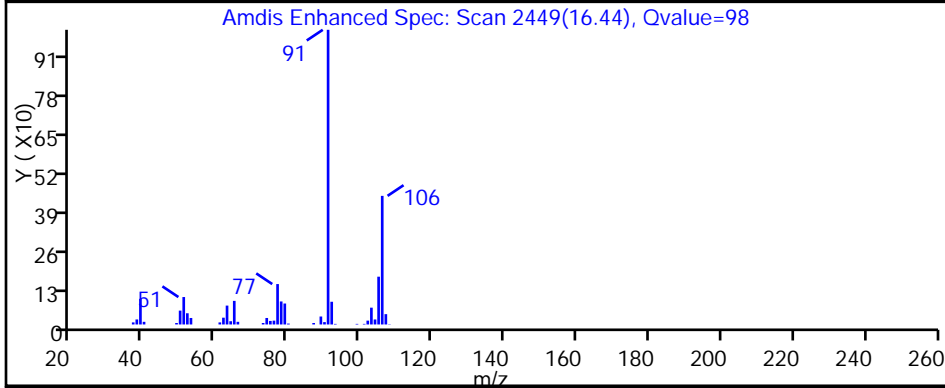
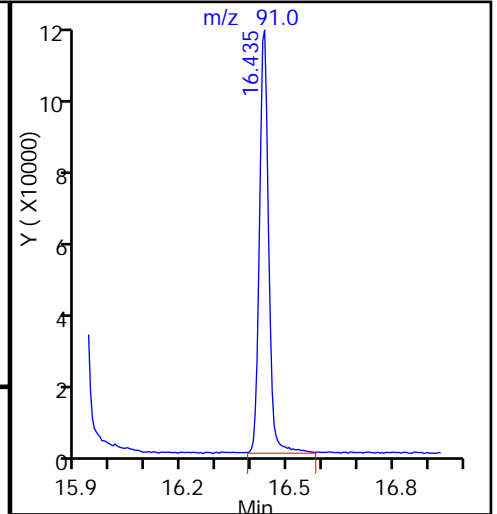
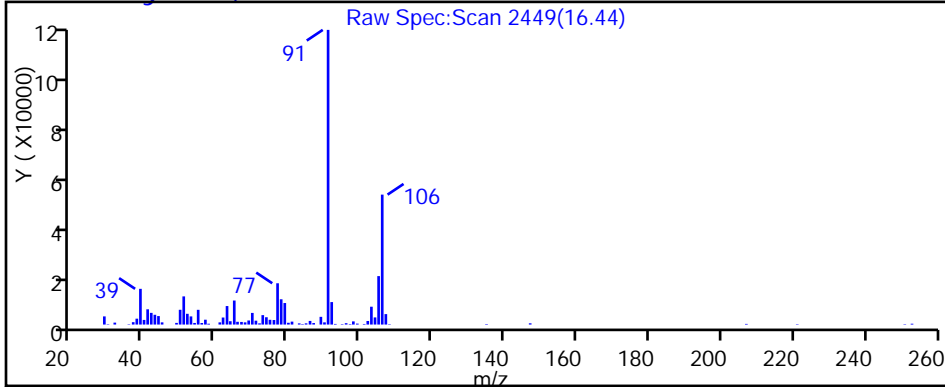
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

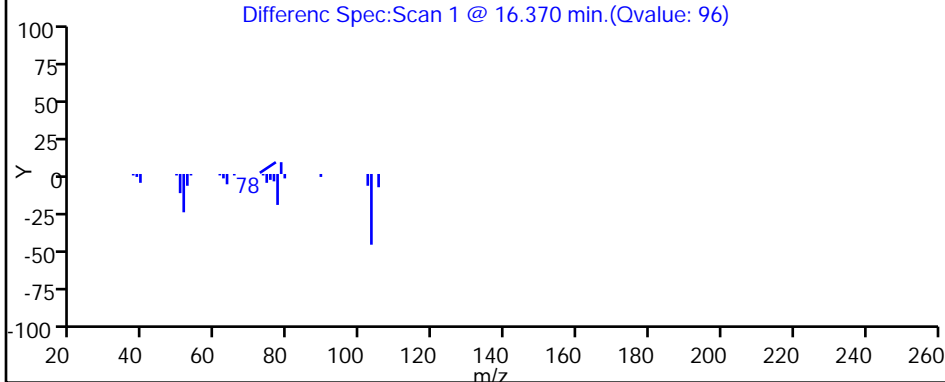
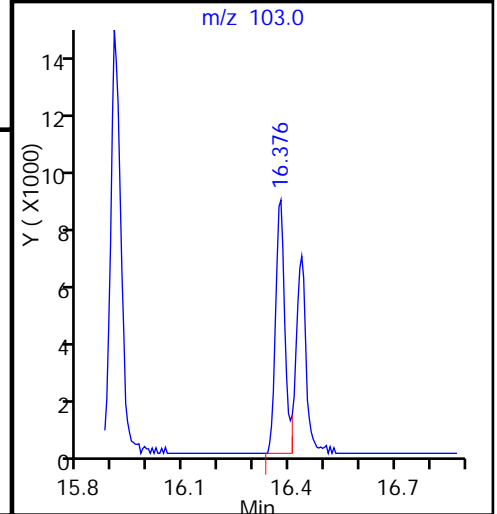
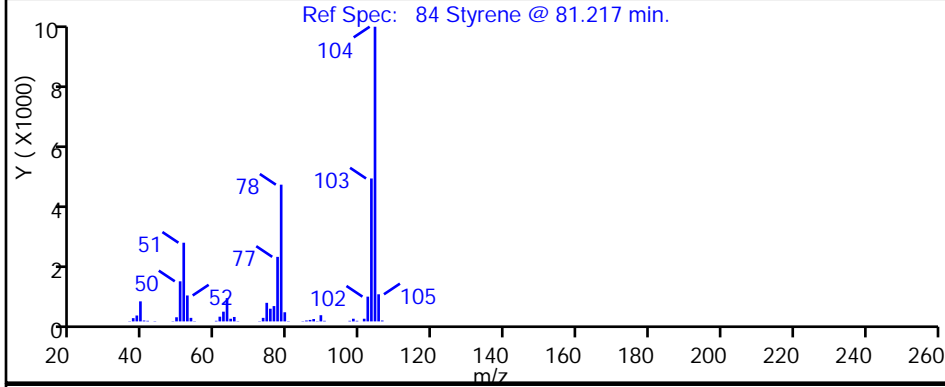
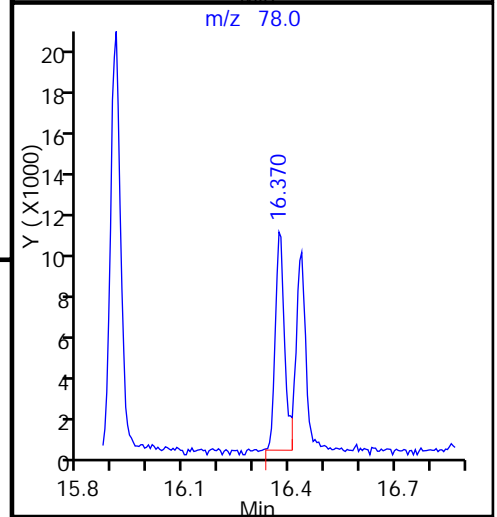
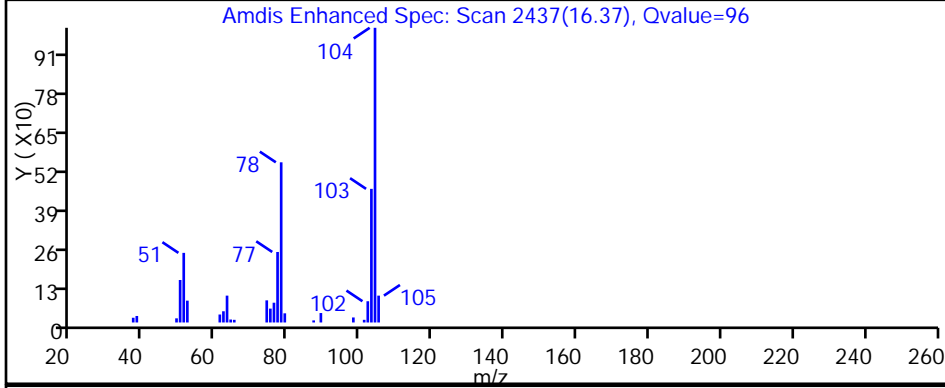
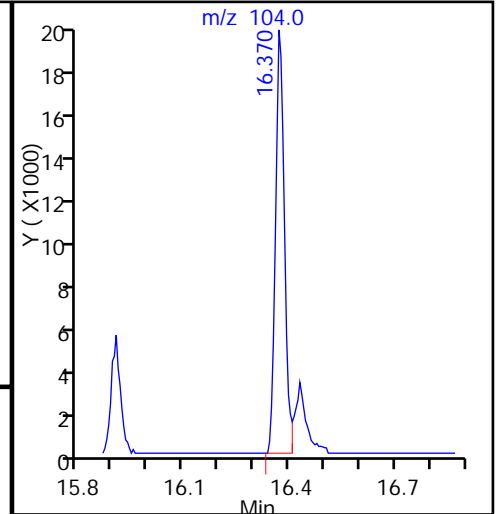
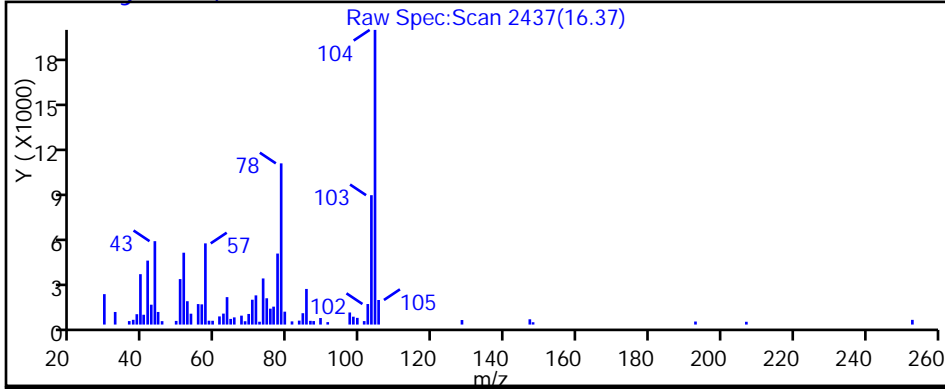
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

84 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

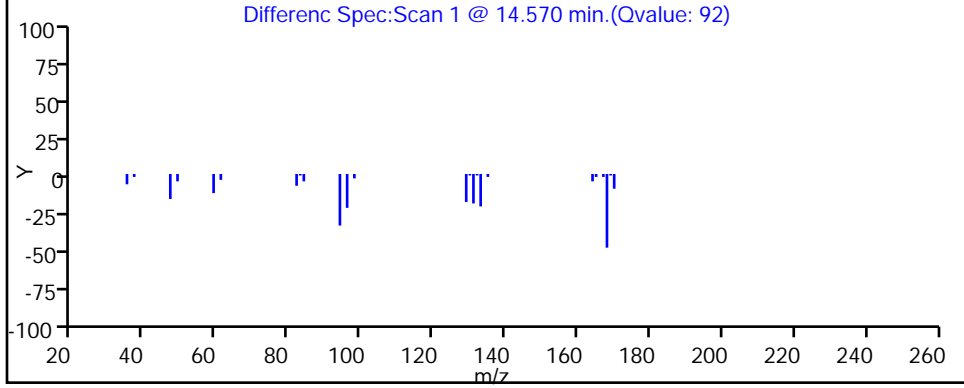
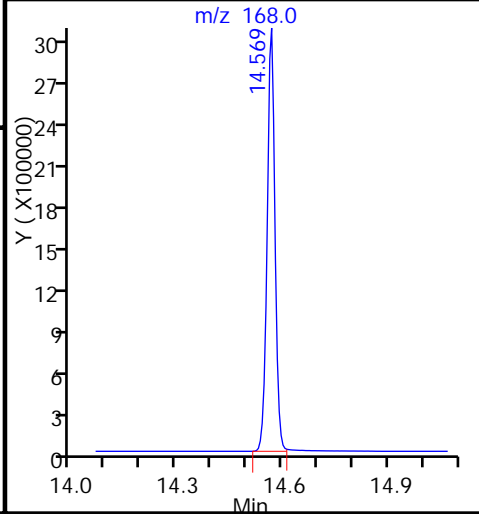
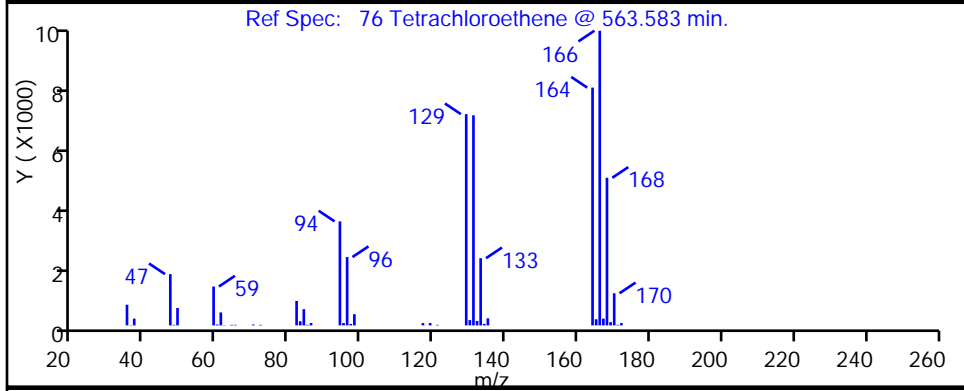
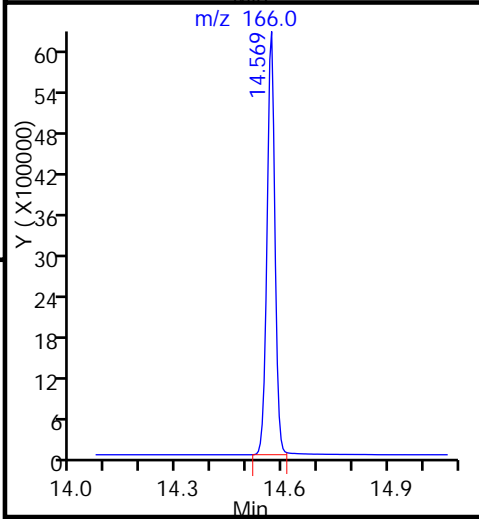
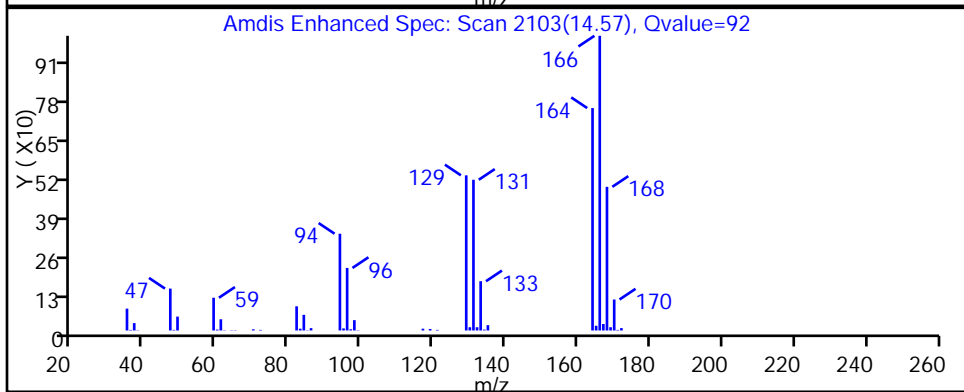
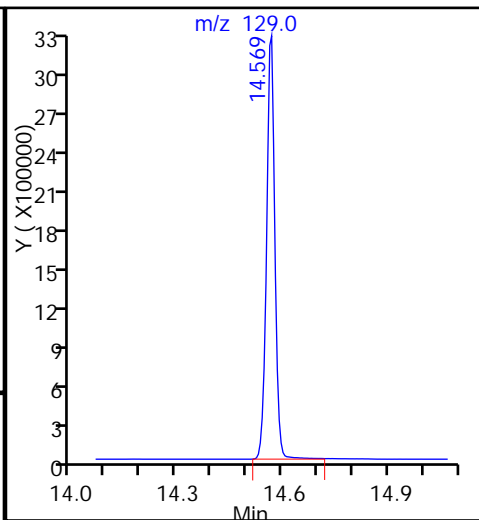
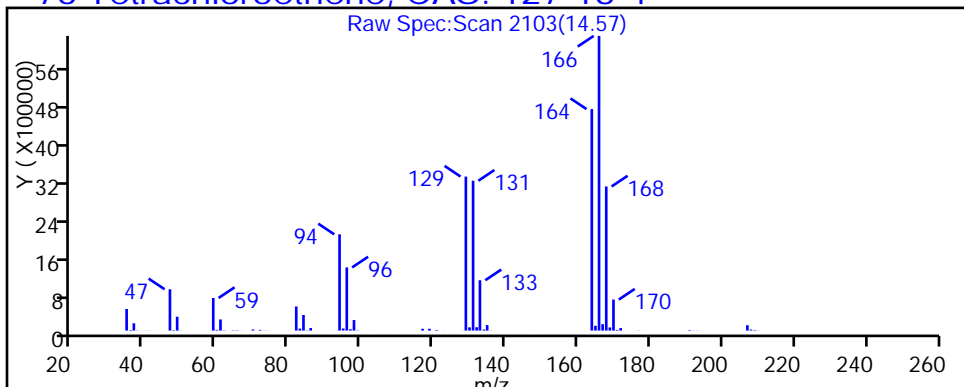
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

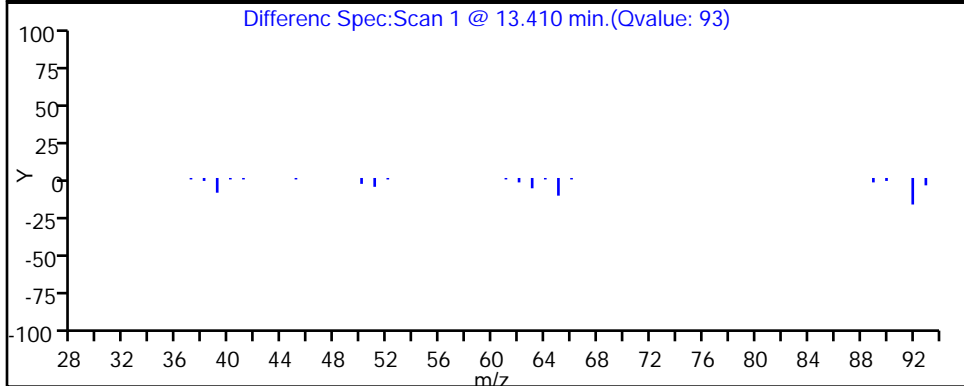
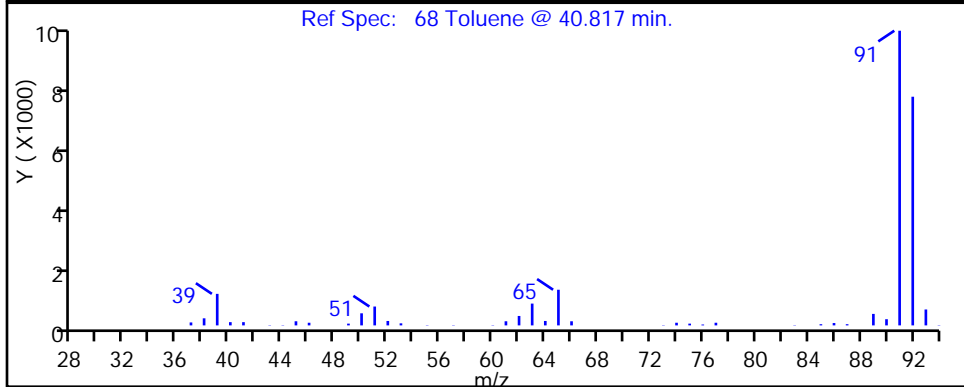
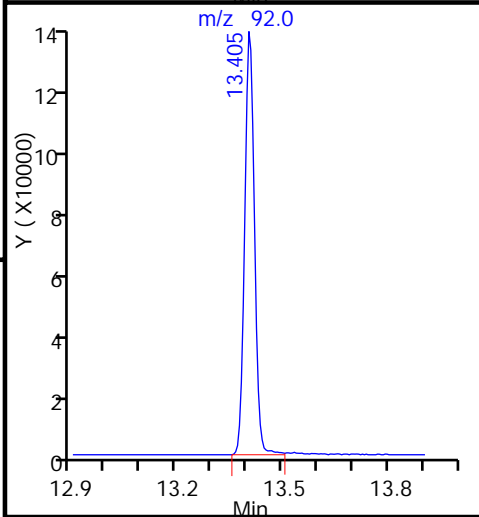
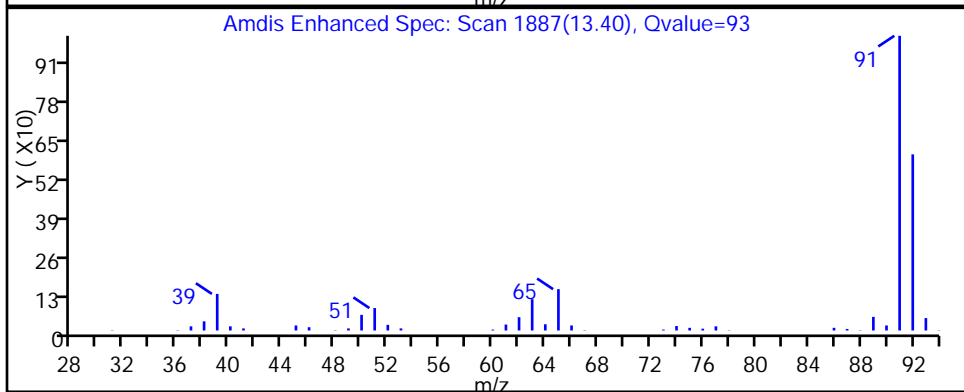
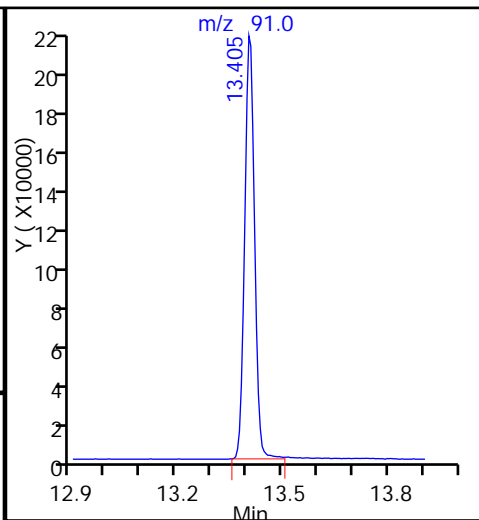
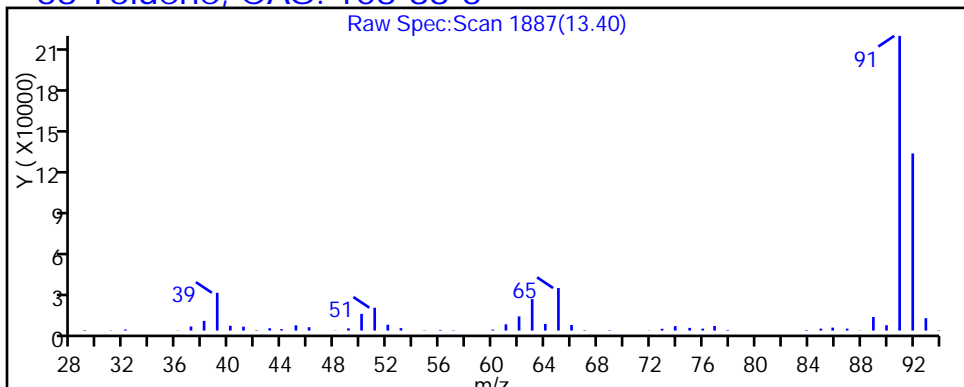
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

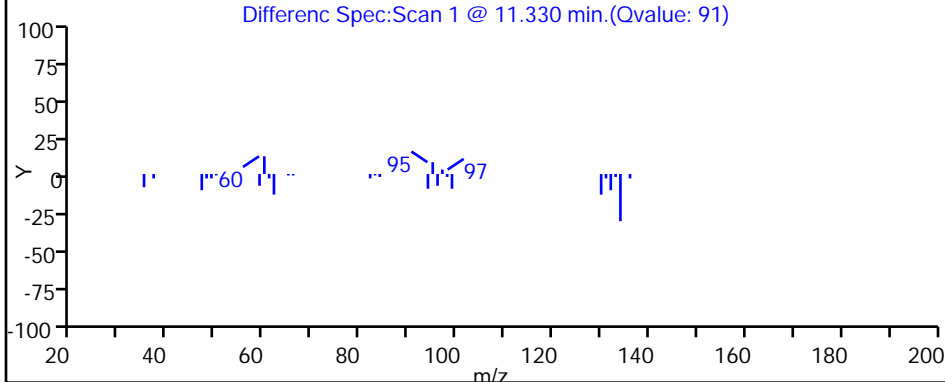
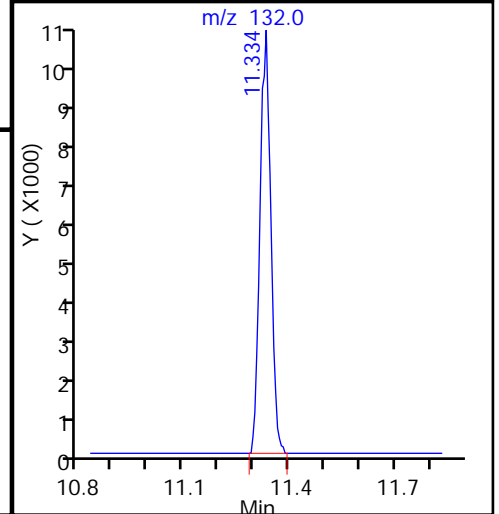
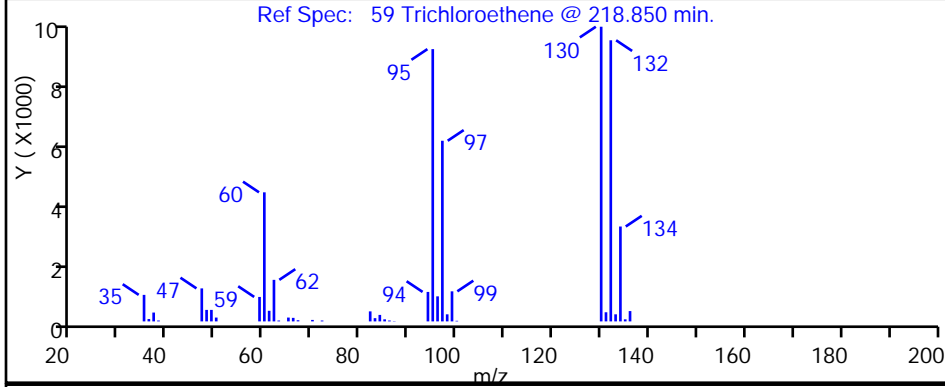
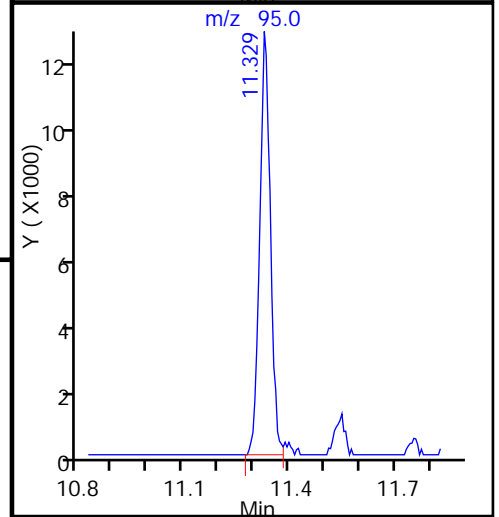
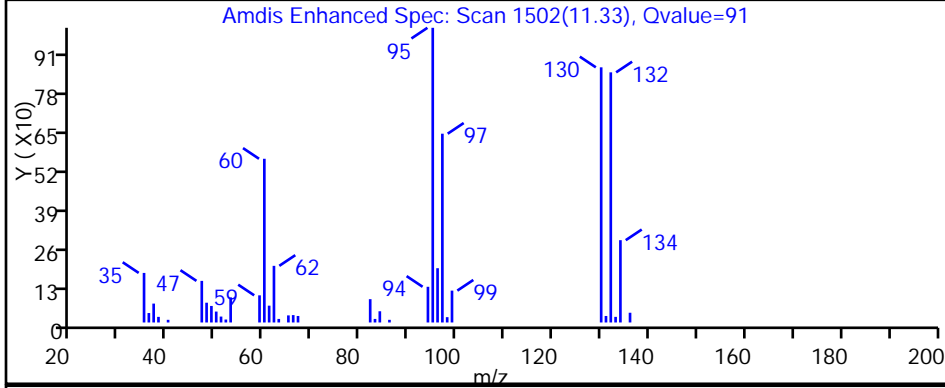
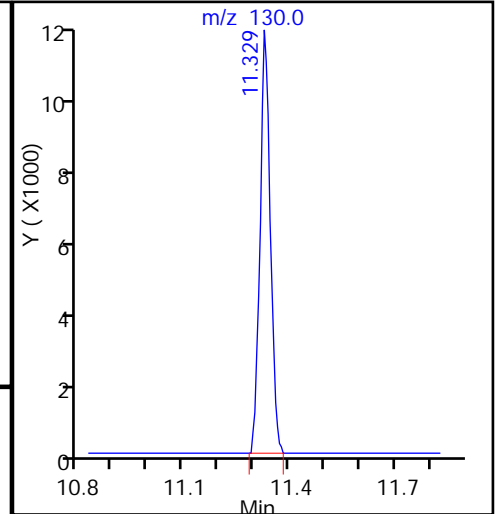
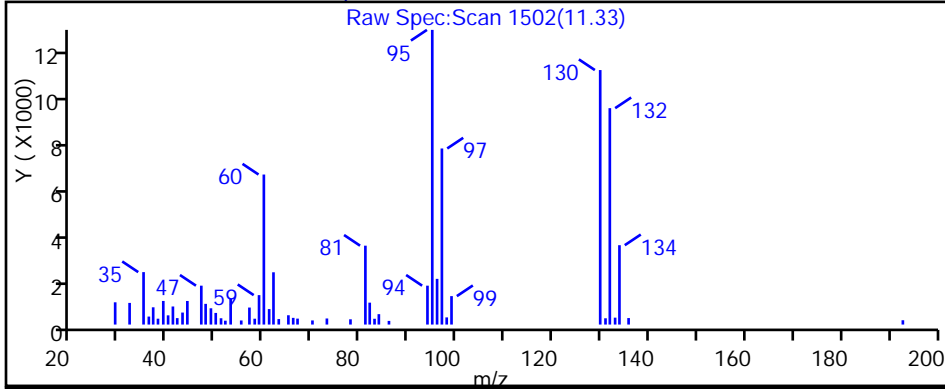
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

59 Trichloroethene, CAS: 79-01-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P111.D

Injection Date: 21-Sep-2016 23:52:30

Instrument ID: MG

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

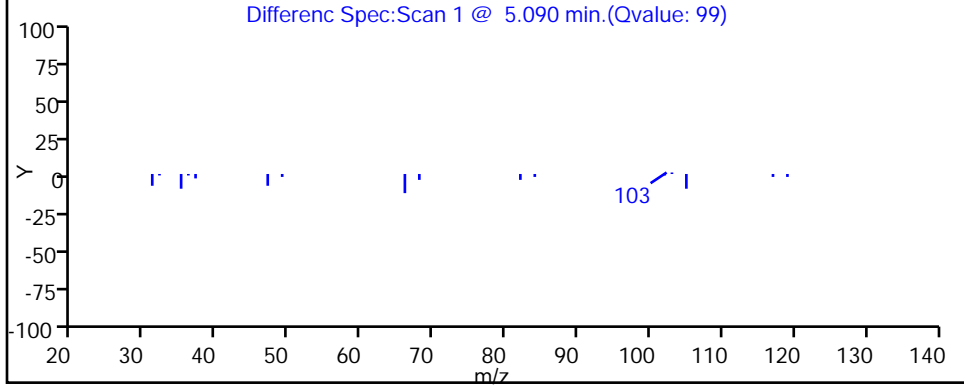
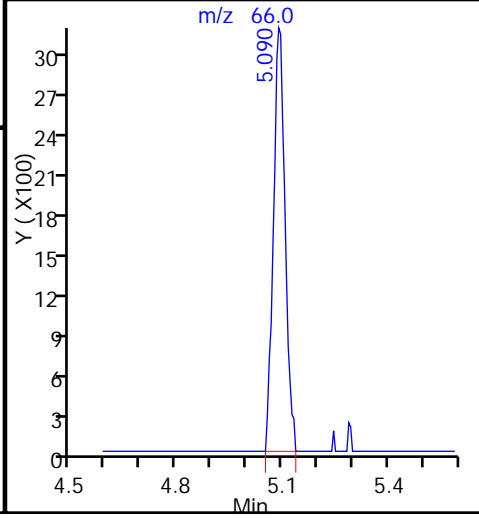
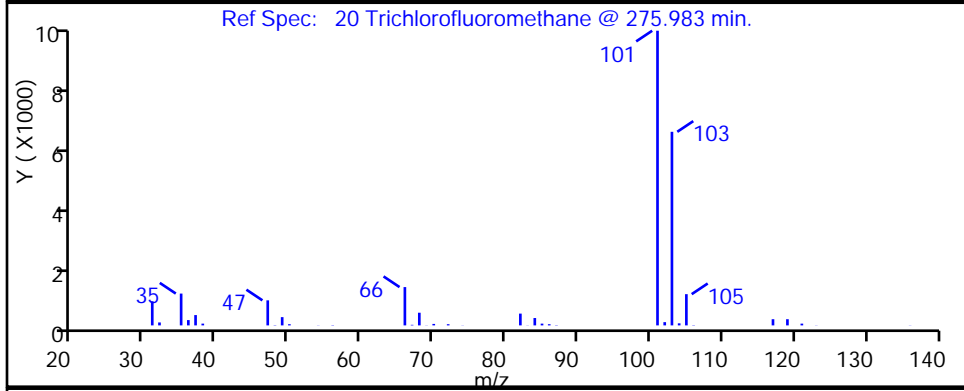
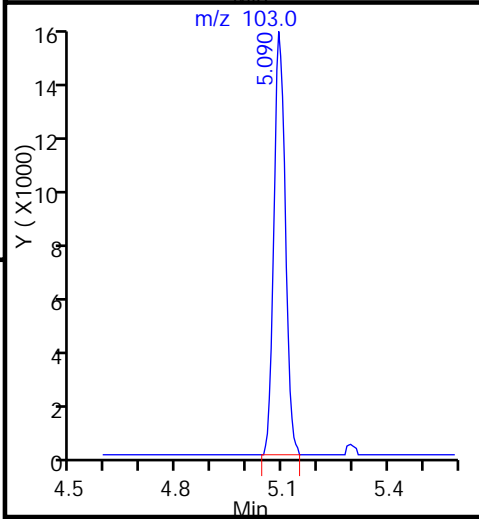
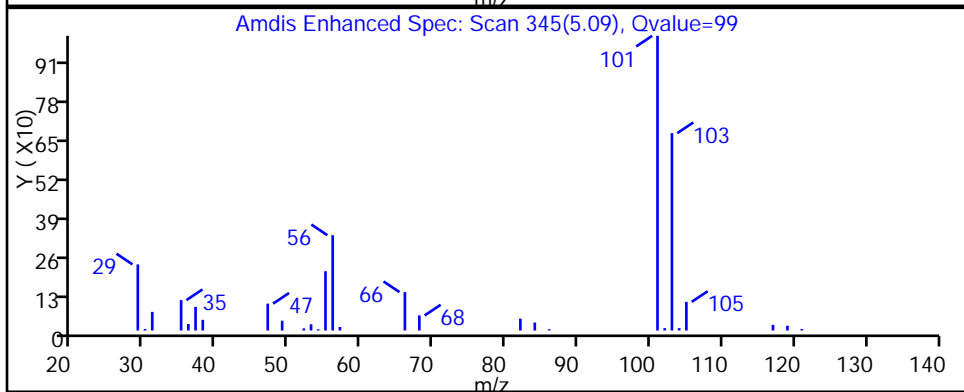
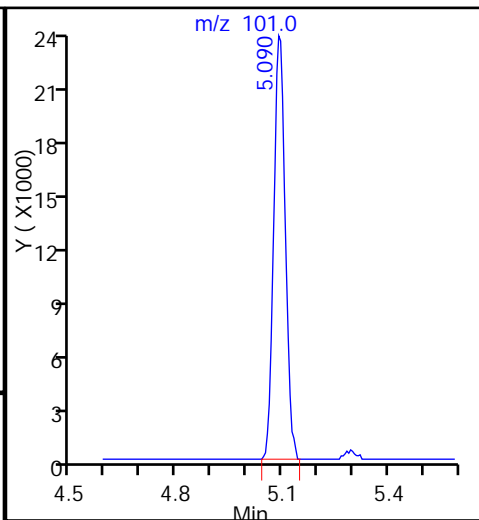
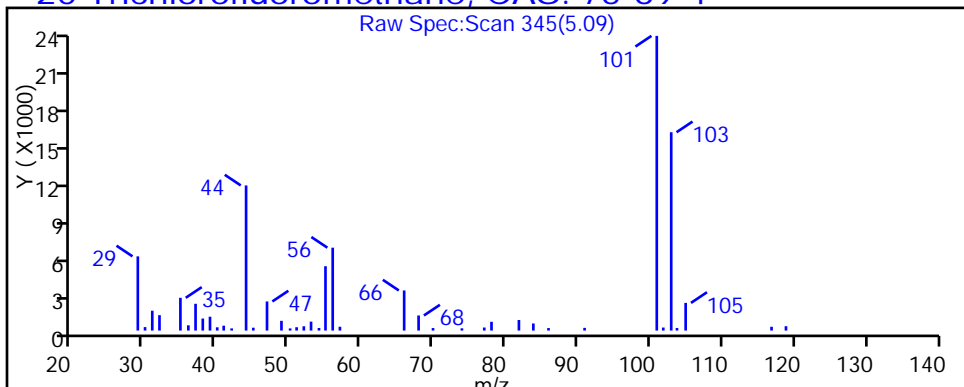
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-112 DL Lab Sample ID: 140-5852-11 DL
 Matrix: Air Lab File ID: JI22P201.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:53
 Sample wt/vol: 50 (mL) Date Analyzed: 09/23/2016 06:15
 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.: 6632 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	12	D	0.80
127-18-4	Tetrachloroethene	165.83	35	D	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-112 DL Lab Sample ID: 140-5852-11 DL
 Matrix: Air Lab File ID: JI22P201.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:53
 Sample wt/vol: 50 (mL) Date Analyzed: 09/23/2016 06:15
 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.: 6632 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	70	D	4.8
127-18-4	Tetrachloroethene	165.83	230	D	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P201.D
 Lims ID: 140-5852-A-11
 Client ID: VP-112
 Sample Type: Client
 Inject. Date: 23-Sep-2016 06:15:30 ALS Bottle#: 2 Worklist Smp#: 23
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-023
 Misc. Info.: 140-5852-a-11
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.324	9.335	-0.011	96	233859	4.00	
* 2 1,4-Difluorobenzene	114	11.492	11.497	-0.005	97	1082474	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.177	16.177	0.000	91	980178	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.802	17.802	0.000	85	631625	4.36	
8 Dichlorodifluoromethane	85	3.993	3.998	-0.005	99	12364	0.0481	
17 Ethanol	31	5.063	5.074	-0.011	96	16408	1.82	
20 Trichlorofluoromethane	101	5.590	5.596	-0.006	96	7039	0.0296	
28 2-Methyl-2-propanol	59	6.424	6.430	-0.006	96	38095	0.3126	
31 Methylene Chloride	84	6.698	6.709	-0.011	94	38718	0.6024	
39 2-Butanone (MEK)	72	8.544	8.555	-0.011	97	25613	1.14	
40 Hexane	56	8.560	8.571	-0.011	65	3408	0.0559	
44 Chloroform	83	9.334	9.345	-0.011	29	17803	0.1137	
51 Benzene	78	10.970	10.975	-0.005	92	4633	0.0245	
59 Trichloroethene	130	12.196	12.202	-0.006	84	1808	0.0190	
65 4-Methyl-2-pentanone (MIBK	43	13.347	13.348	-0.001	97	10776	0.0843	
68 Toluene	91	14.219	14.225	-0.005	92	31793	0.1523	
76 Tetrachloroethene	129	15.354	15.354	0.000	91	338086	3.46	
79 Ethylbenzene	91	16.505	16.505	0.000	97	10550	0.0443	
81 m-Xylene & p-Xylene	91	16.661	16.667	-0.006	98	30109	0.1630	
85 o-Xylene	91	17.183	17.189	-0.006	96	12844	0.0647	
92 1,3,5-Trimethylbenzene	120	18.393	18.501	-0.108	82	3642	0.0324	
96 1,2,4-Trimethylbenzene	105	18.926	18.926	0.000	98	19621	0.1032	
98 1,3-Dichlorobenzene	146	19.286	19.201	0.085	96	97128	1.00	
100 1,4-Dichlorobenzene	146	19.286	19.287	-0.001	89	97128	1.17	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\J122P201.D

Injection Date: 23-Sep-2016 06:15:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Worklist Smp#: 23

Client ID: VP-112

Purge Vol: 500.000 mL

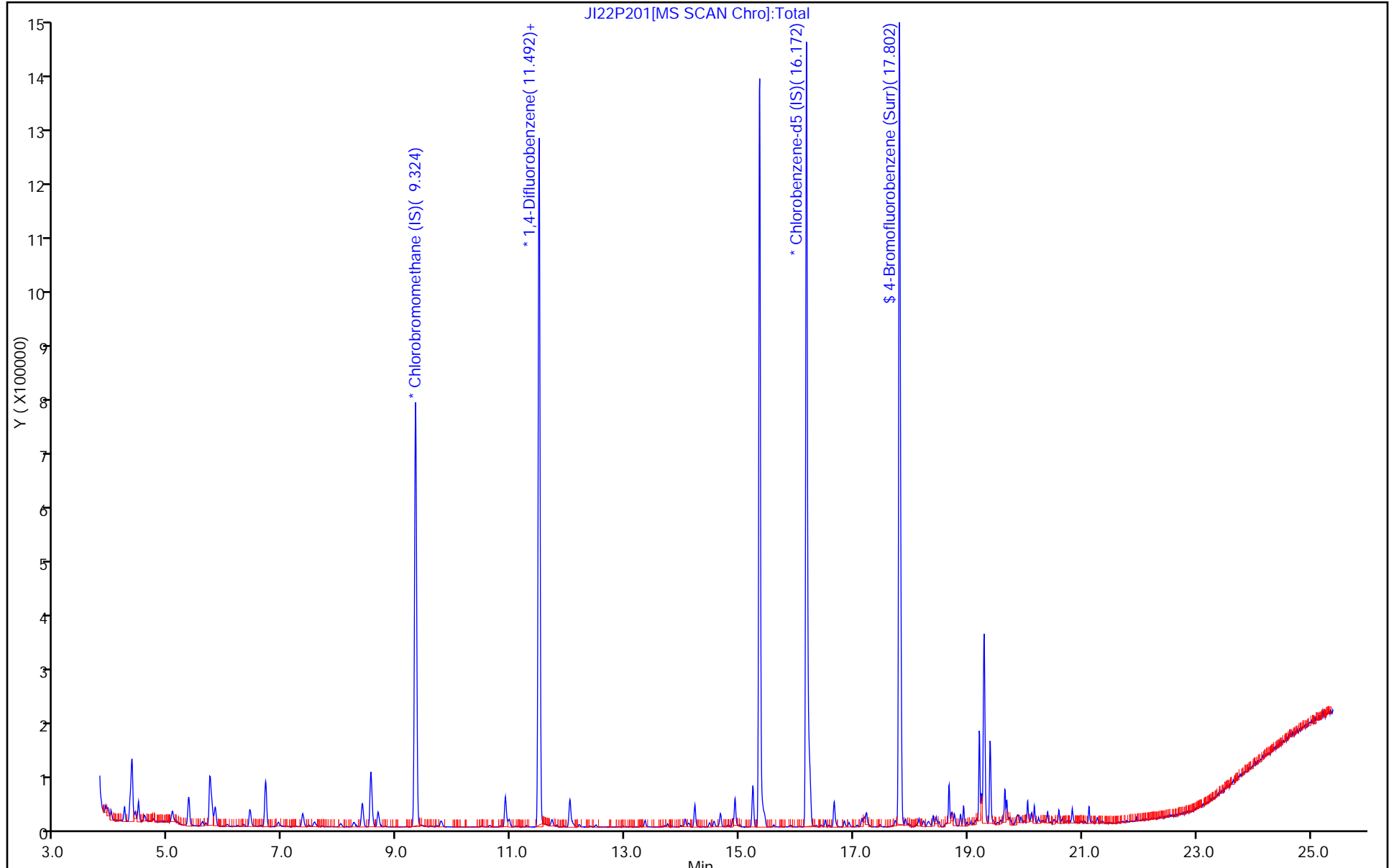
Dil. Factor: 1.0000

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\20160920-3446.b\JI22P201.D
 Lims ID: 140-5852-A-11
 Client ID: VP-112
 Sample Type: Client
 Inject. Date: 23-Sep-2016 06:15:30 ALS Bottle#: 2 Worklist Smp#: 23
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-023
 Misc. Info.: 140-5852-a-11
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.36	109.11

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P201.D

Injection Date: 23-Sep-2016 06:15:30

Instrument ID: MJ

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 2 Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

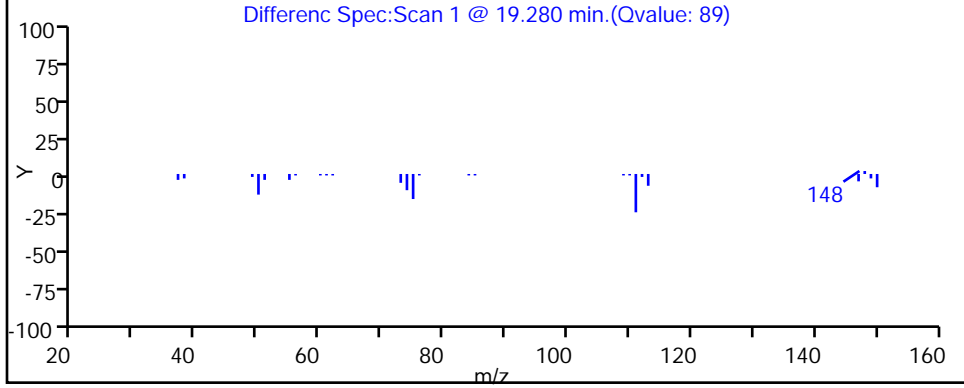
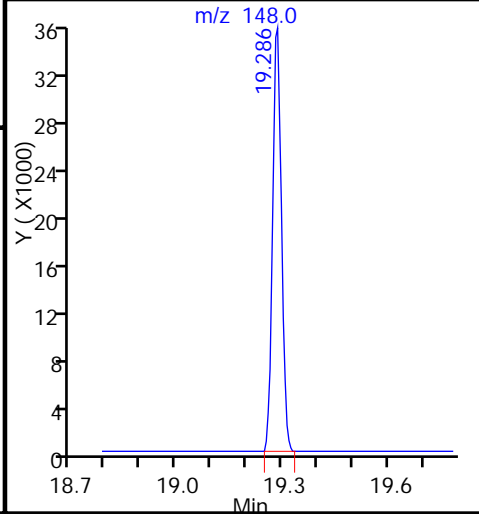
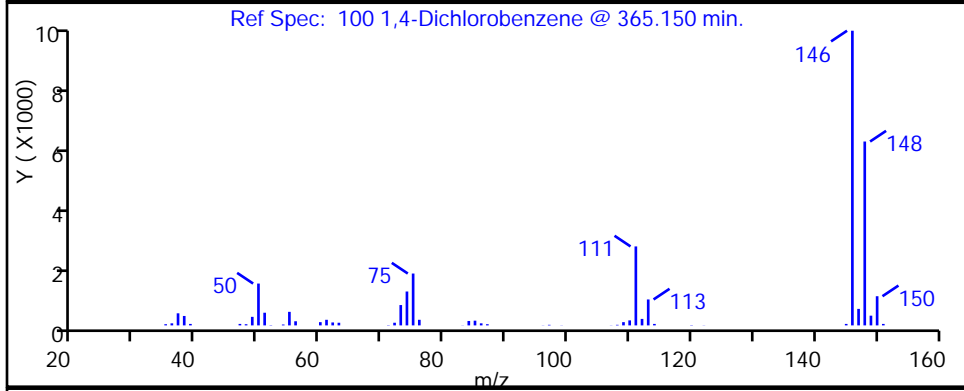
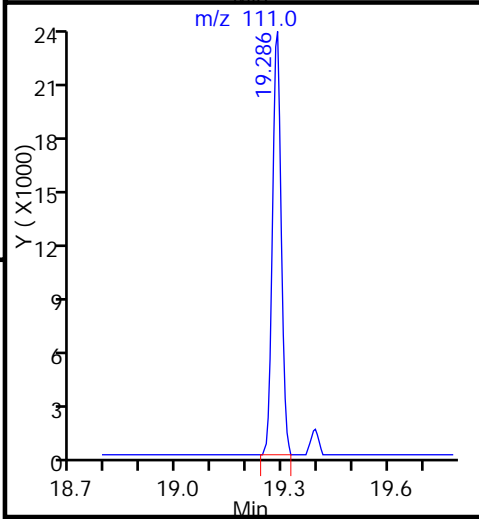
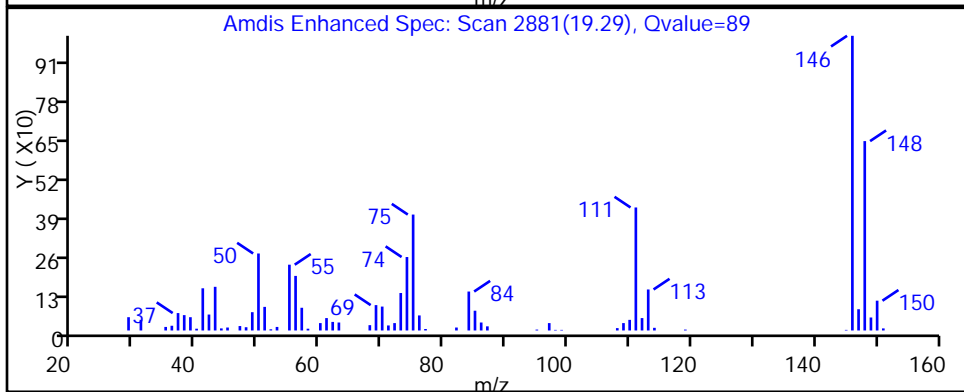
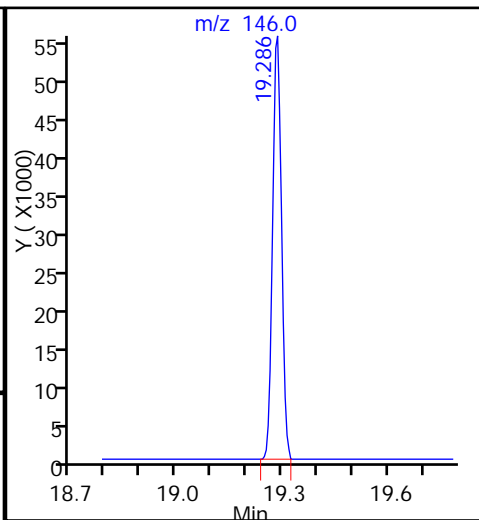
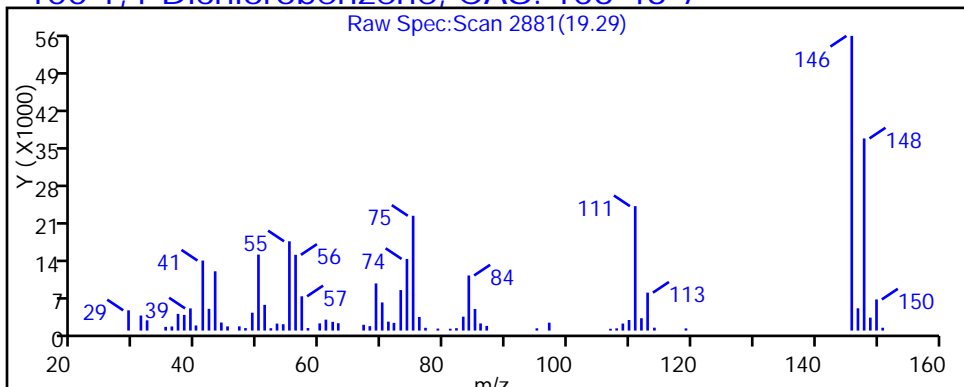
Method: MJ_TO15

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\20160920-3446.b\JI22P201.D

Injection Date: 23-Sep-2016 06:15:30

Instrument ID: MJ

Lims ID: 140-5852-A-11

Lab Sample ID: 140-5852-11

Client ID: VP-112

Operator ID: 7126

ALS Bottle#: 2

Worklist Smp#: 23

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

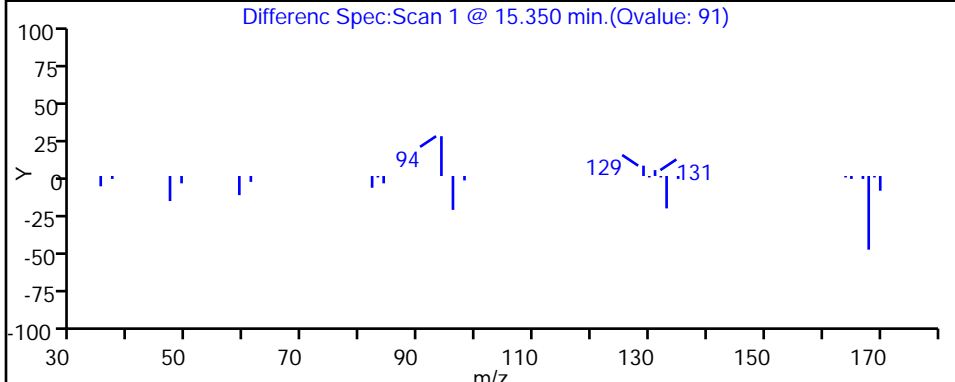
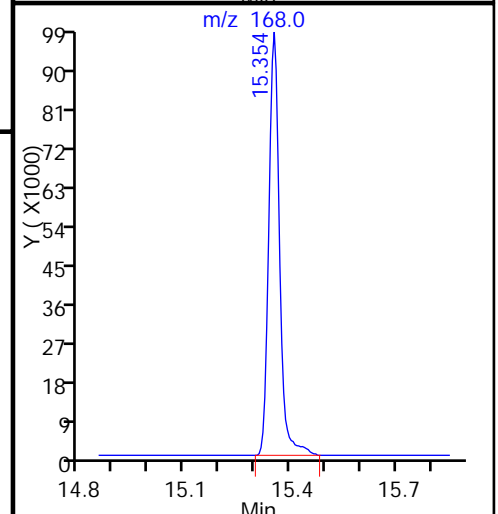
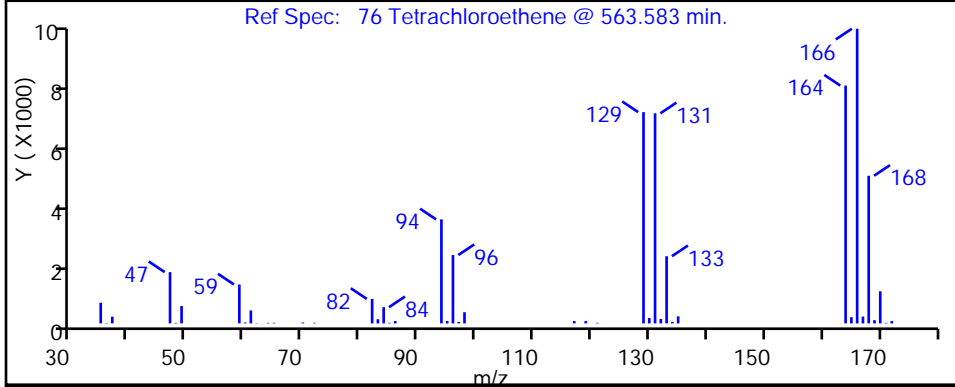
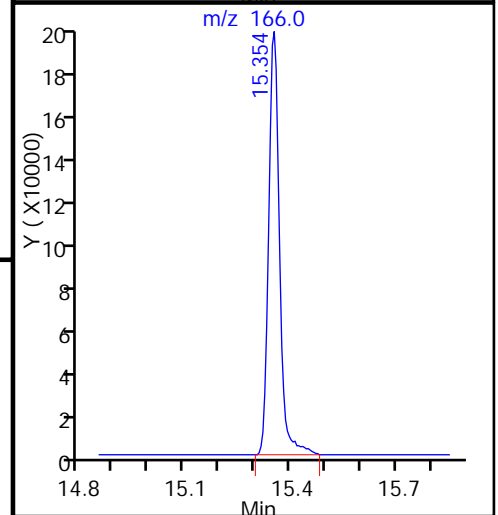
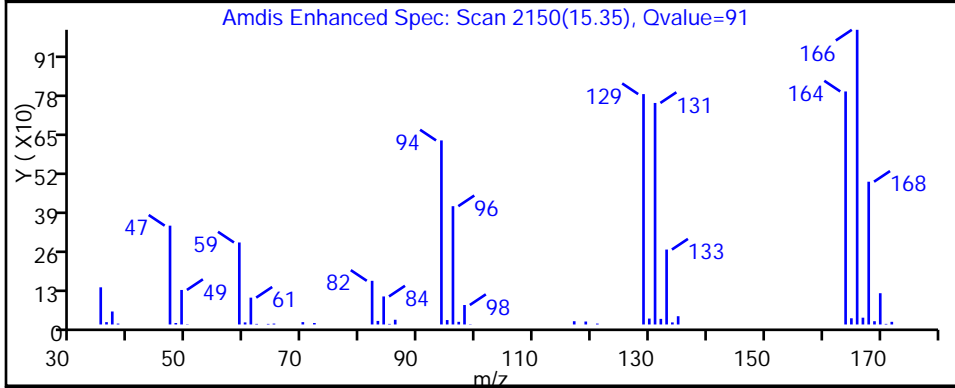
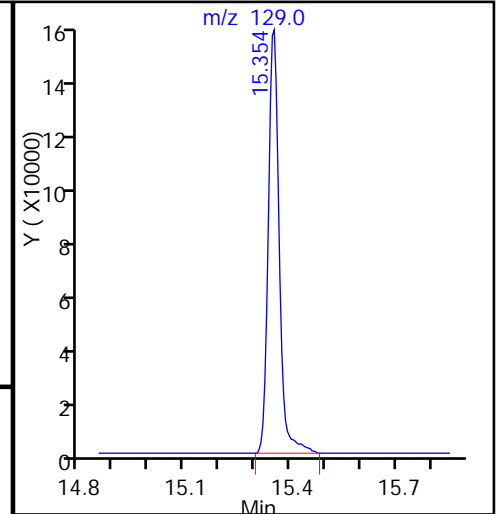
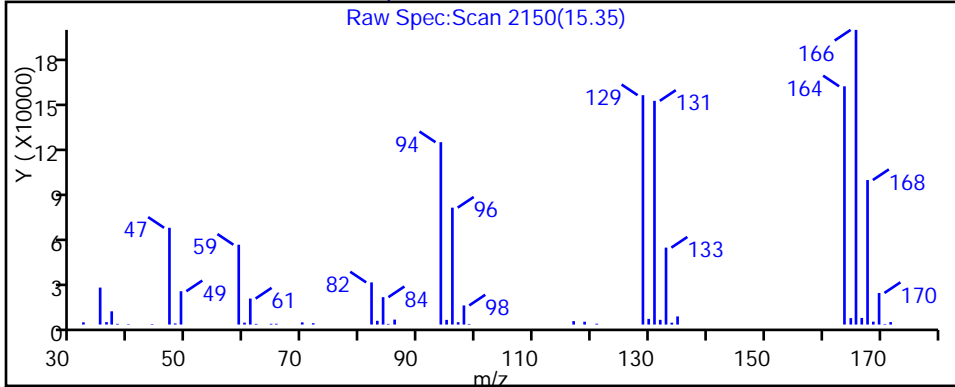
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-110 Lab Sample ID: 140-5852-12
 Matrix: Air Lab File ID: GI21P112.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:57
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 00:42
 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.: 6625 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	0.098		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	0.32		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	20	E	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	5.6		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.60		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	0.078		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	1.5		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-110 Lab Sample ID: 140-5852-12
 Matrix: Air Lab File ID: GI21P112.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:57
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 00:42
 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.: 6625 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	0.65		0.080
64-17-5	Ethanol	46.07	2.0	*	2.0
100-41-4	Ethylbenzene	106.17	0.65		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	0.20		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.36		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	2.7		0.080
95-47-6	o-Xylene	106.17	1.0		0.080
100-42-5	Styrene	104.15	0.29		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	43	E	0.080
108-88-3	Toluene	92.14	2.2		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	0.074		0.040
75-69-4	Trichlorofluoromethane	137.37	0.34		0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-110 Lab Sample ID: 140-5852-12
 Matrix: Air Lab File ID: GI21P112.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:57
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 00:42
 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.: 6625 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	0.75		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	7.6		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	1.6		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	120	E	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	17		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.5		0.82
71-43-2	Benzene	78.11	0.75		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	0.49		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	7.2		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-110 Lab Sample ID: 140-5852-12
 Matrix: Air Lab File ID: GI21P112.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:57
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 00:42
 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.: 6625 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	3.2		0.40
64-17-5	Ethanol	46.07	3.7	*	3.8
100-41-4	Ethylbenzene	106.17	2.8		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	0.71		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	12		0.35
95-47-6	o-Xylene	106.17	4.4		0.35
100-42-5	Styrene	104.15	1.2		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	290	E	0.54
108-88-3	Toluene	92.14	8.4		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	0.40		0.21
75-69-4	Trichlorofluoromethane	137.37	1.9		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D
 Lims ID: 140-5852-A-12
 Client ID: VP-110
 Sample Type: Client
 Inject. Date: 22-Sep-2016 00:42:30 ALS Bottle#: 12 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-016
 Misc. Info.: 140-5852-a-12
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:38:50 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 14:35:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.449	8.454	-0.005	91	186547	4.00	
* 2 1,4-Difluorobenzene	114	10.611	10.617	-0.006	96	844536	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.394	15.394	0.000	92	736097	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	90	551821	4.29	
8 Dichlorodifluoromethane	85	3.752	3.758	-0.006	100	103732	0.6467	
9 Chloromethane	52	3.914	3.919	-0.005	82	2139	0.1177	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.925	3.930	-0.005	93	1762	0.0175	
17 Ethanol	31	4.658	4.663	-0.005	98	52907	1.98	
20 Trichlorofluoromethane	101	5.089	5.095	-0.006	99	51587	0.3423	
29 2-Methyl-2-propanol	59	5.844	5.834	0.010	92	4498	0.0552	
30 1,1,2-Trichloro-1,2,2-trif	101	5.904	5.909	-0.005	93	9014	0.0978	
31 Methylene Chloride	84	6.049	6.055	-0.006	90	16176	0.3563	
39 2-Butanone (MEK)	72	7.710	7.721	-0.011	100	140719	5.60	
40 Hexane	56	7.764	7.775	-0.011	66	9883	0.2005	
44 Chloroform	83	8.471	8.476	-0.006	96	184954	1.48	
47 1,1,1-Trichloroethane	97	9.457	9.463	-0.006	93	7817	0.0569	
49 Benzene	78	10.050	10.056	-0.006	96	36292	0.2340	
50 Cyclohexane	69	10.067	10.067	0.000	55	1459	0.0550	
52 Carbon tetrachloride	117	10.083	10.088	-0.005	96	9552	0.0782	
56 Isooctane	57	10.843	10.854	-0.011	42	14048	0.0481	
59 Trichloroethene	130	11.334	11.334	0.000	88	5776	0.0739	
61 Dichlorobromomethane	83	11.550	11.555	-0.005	91	2702	0.0224	
65 4-Methyl-2-pentanone (MIBK	43	12.520	12.520	0.000	98	85795	0.6010	
68 Toluene	91	13.405	13.405	0.001	93	360028	2.24	
76 Tetrachloroethene	129	14.564	14.564	0.000	92	2780484	43.2	E
79 Ethylbenzene	91	15.739	15.739	0.000	99	138100	0.6476	
81 m-Xylene & p-Xylene	91	15.901	15.907	-0.006	97	438421	2.66	
84 Styrene	104	16.370	16.370	0.000	96	31670	0.2903	
85 o-Xylene	91	16.430	16.435	-0.005	97	179958	1.02	
92 1,3,5-Trimethylbenzene	120	17.815	17.821	-0.006	91	36069	0.3202	
96 1,2,4-Trimethylbenzene	105	18.263	18.268	-0.005	98	319631	1.54	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	94	2518245	19.6	E

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\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Worklist Smp#: 16

Client ID: VP-110

Purge Vol: 500.000 mL

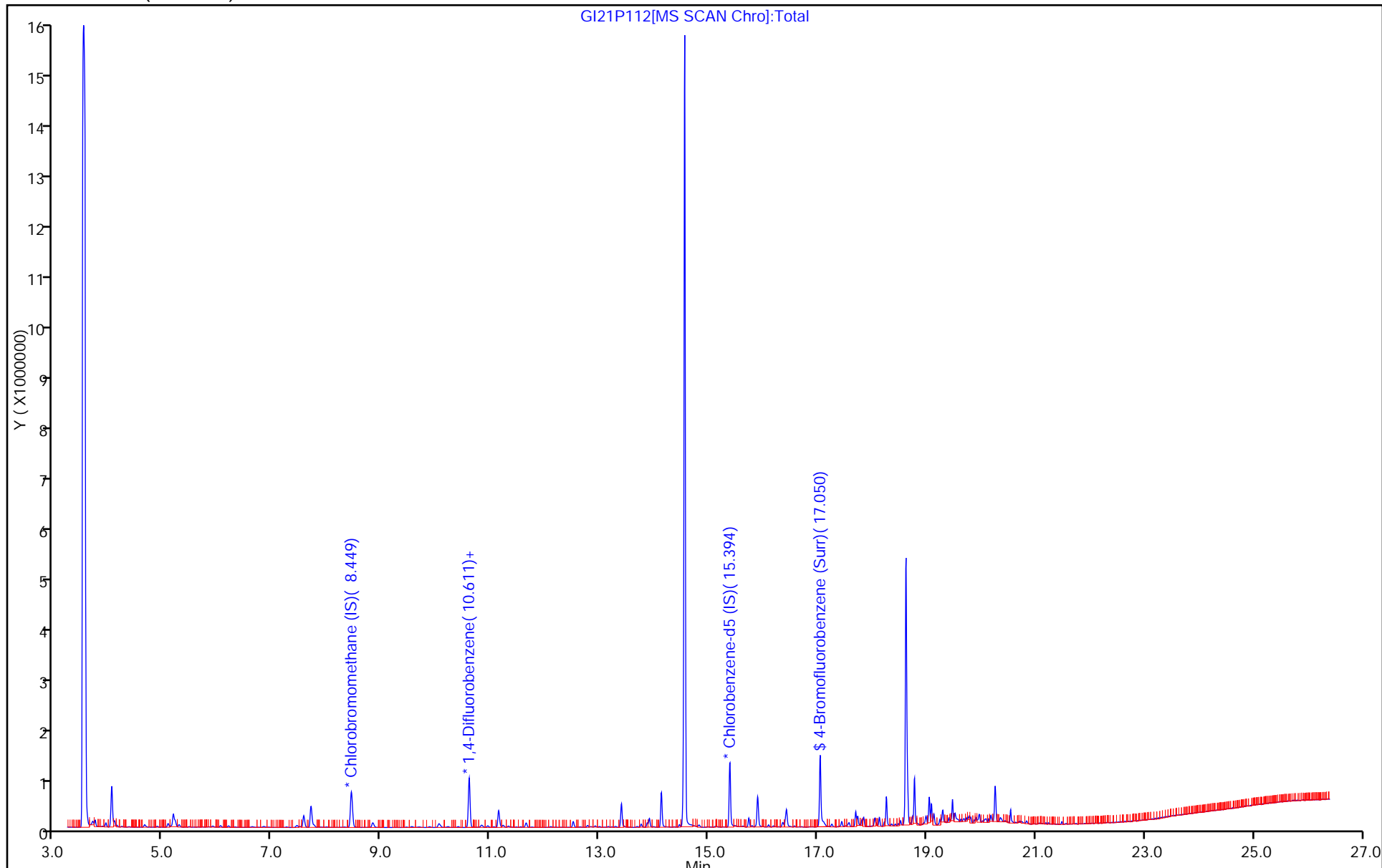
Dil. Factor: 1.0000

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\20160919-3444.b\GI21P112.D
 Lims ID: 140-5852-A-12
 Client ID: VP-110
 Sample Type: Client
 Inject. Date: 22-Sep-2016 00:42:30 ALS Bottle#: 12 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-016
 Misc. Info.: 140-5852-a-12
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:38:50 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 14:35:26

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.29	107.36

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

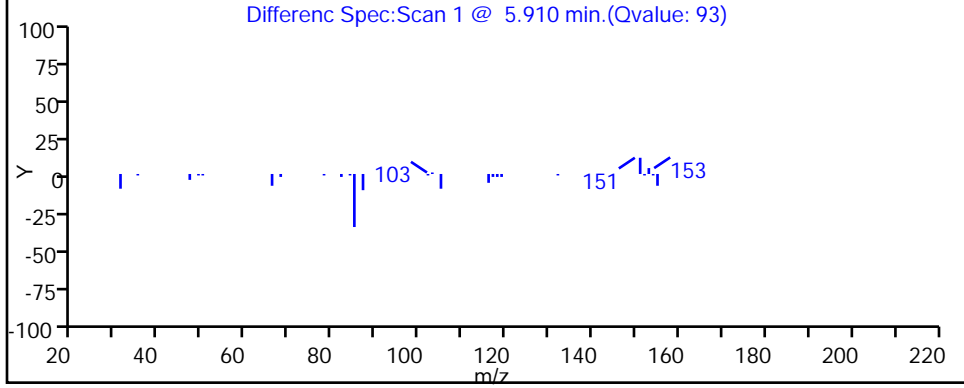
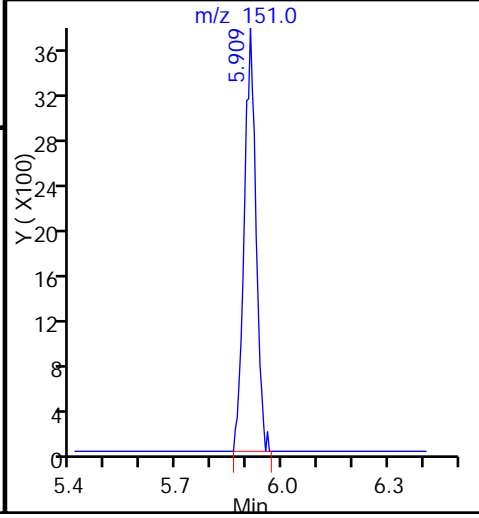
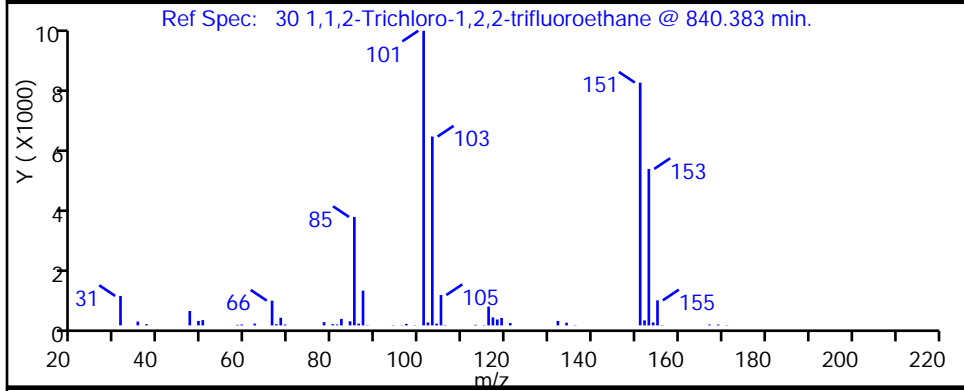
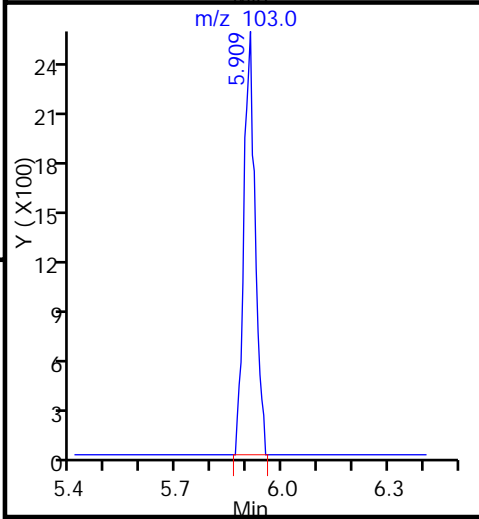
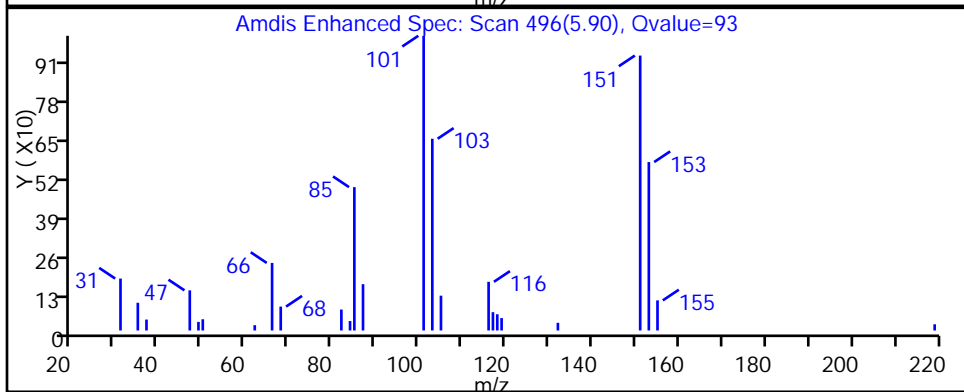
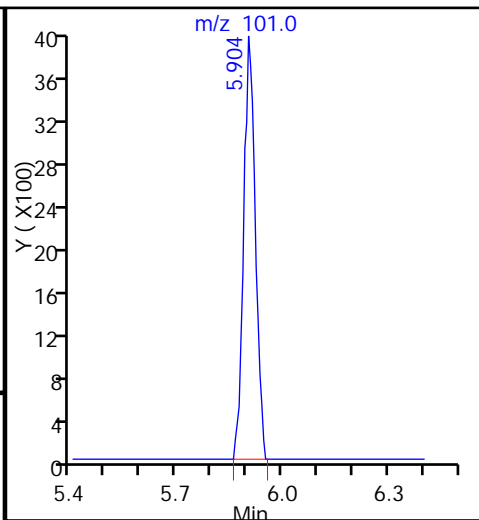
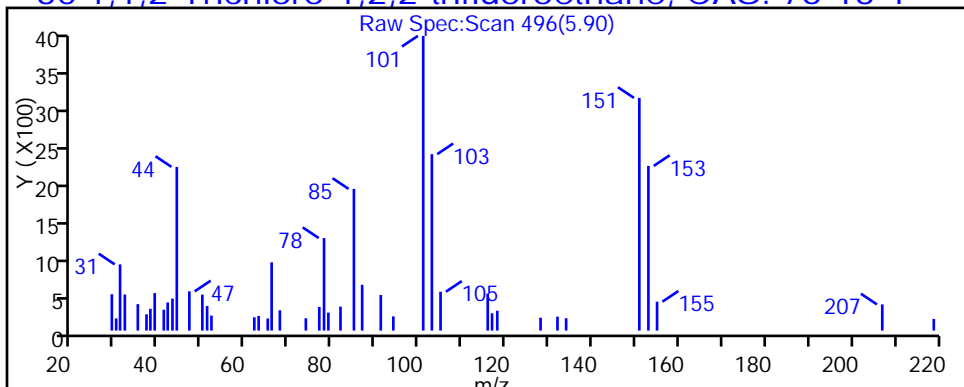
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

30 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

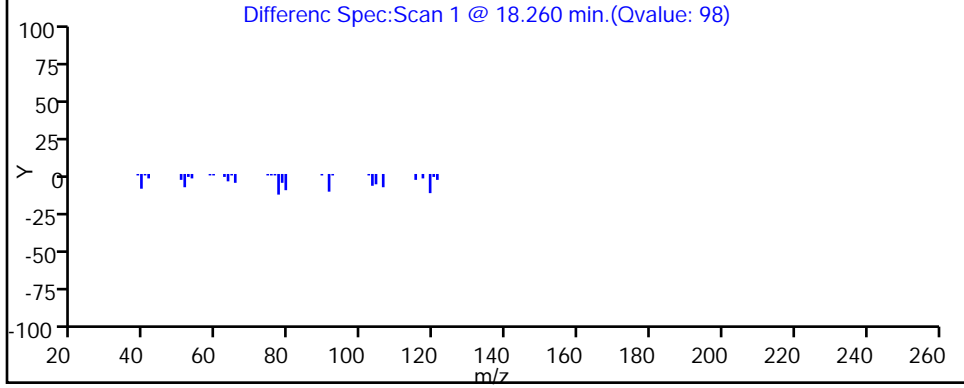
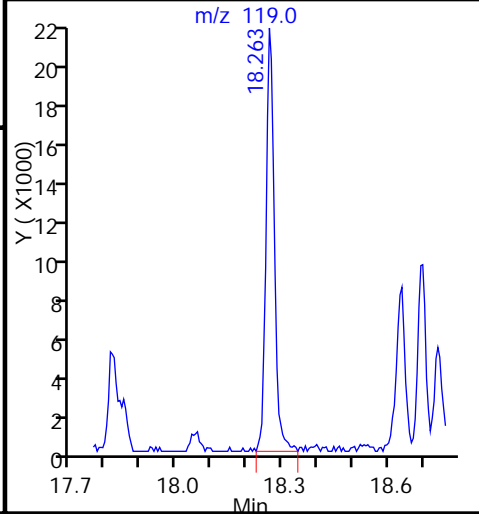
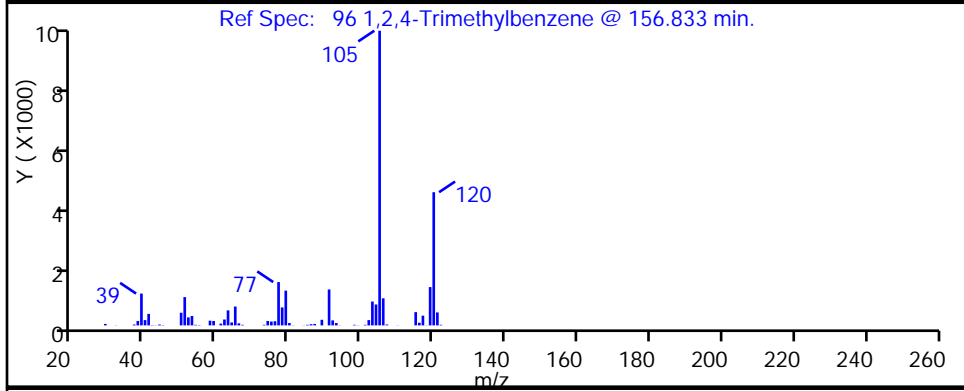
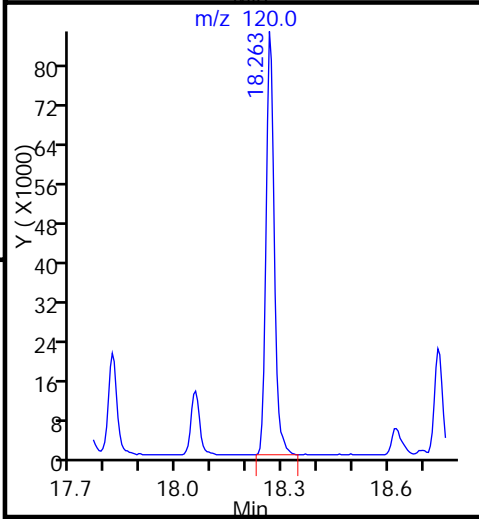
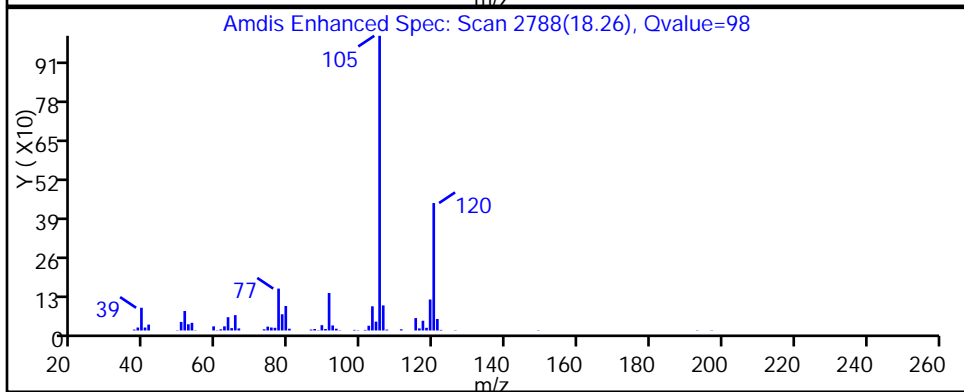
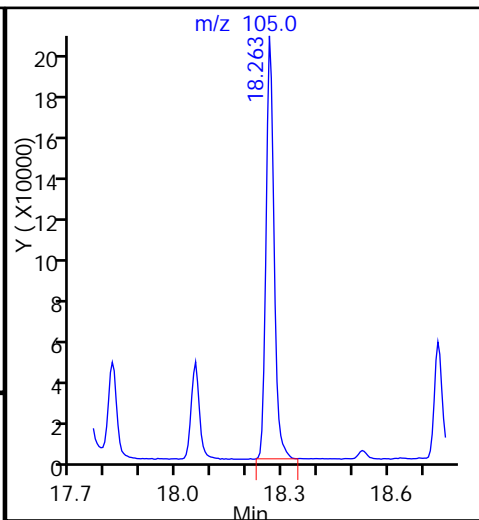
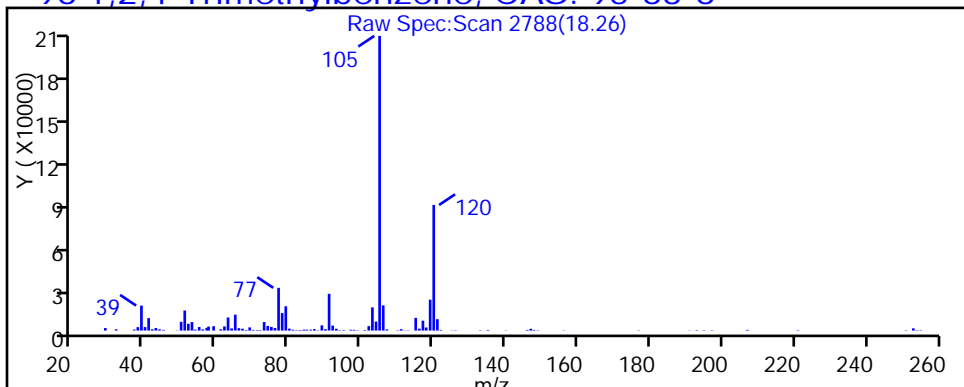
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

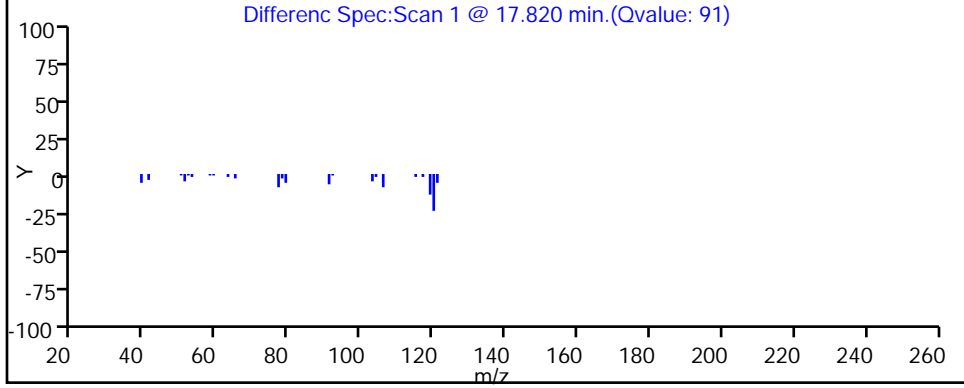
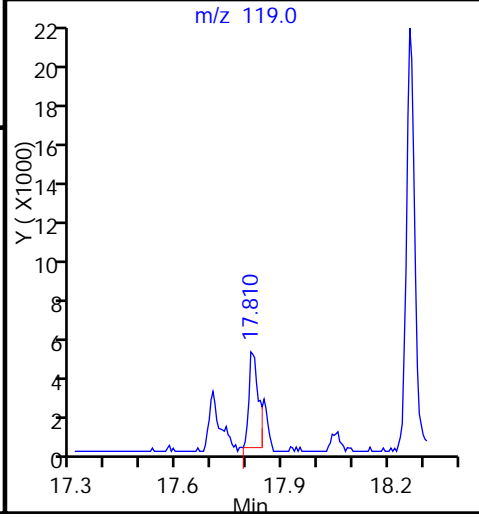
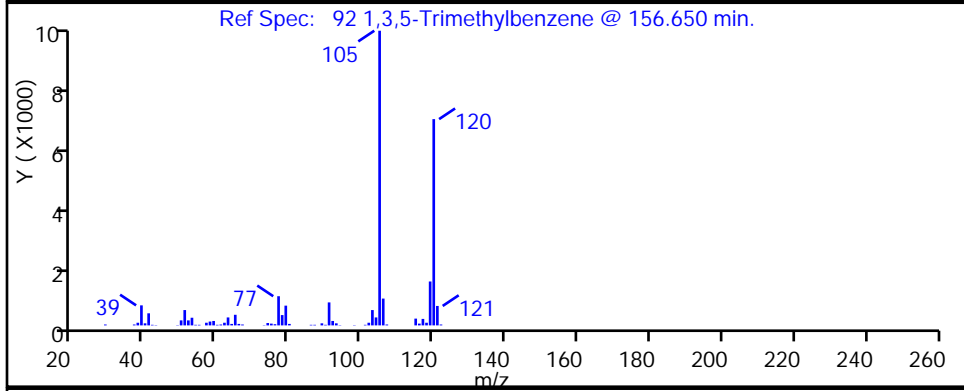
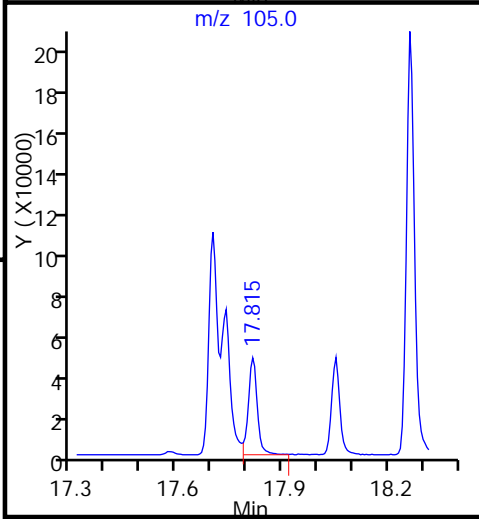
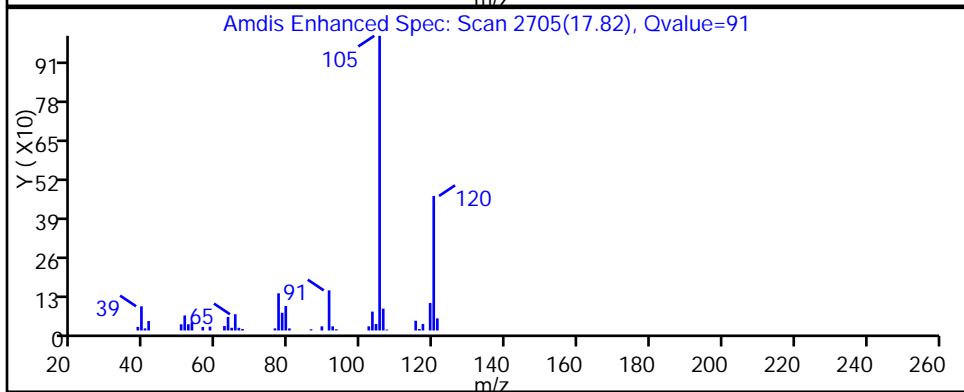
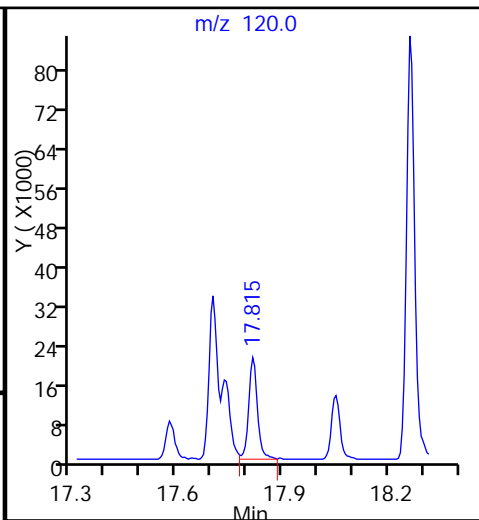
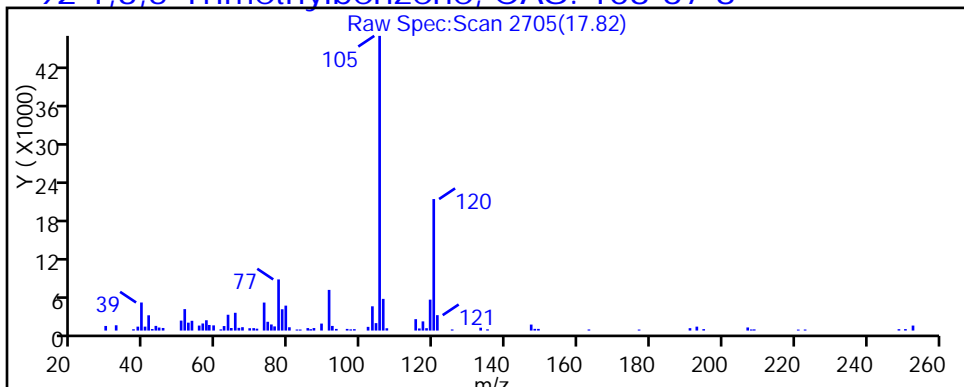
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

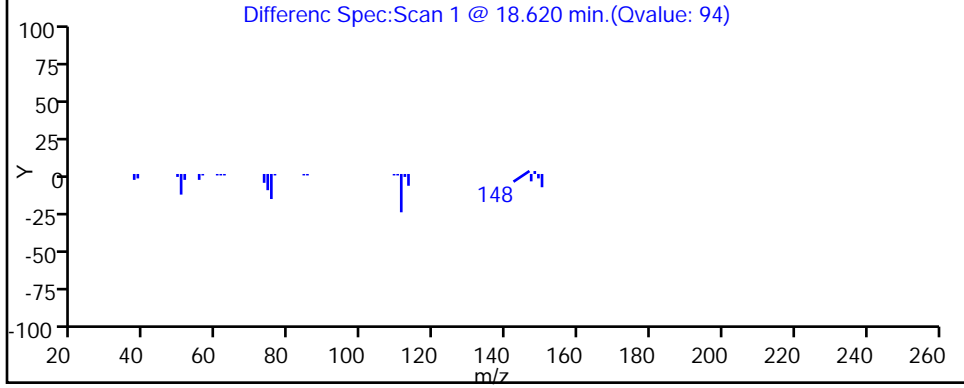
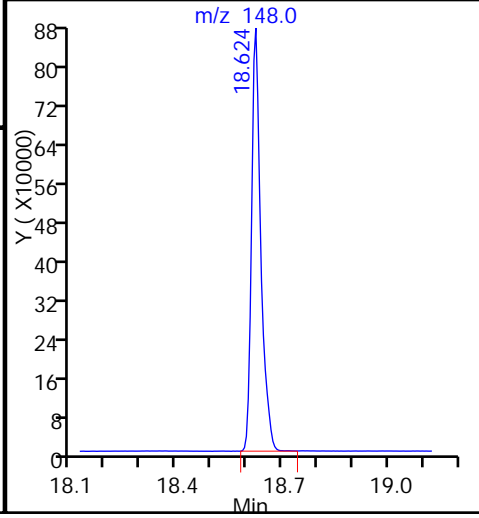
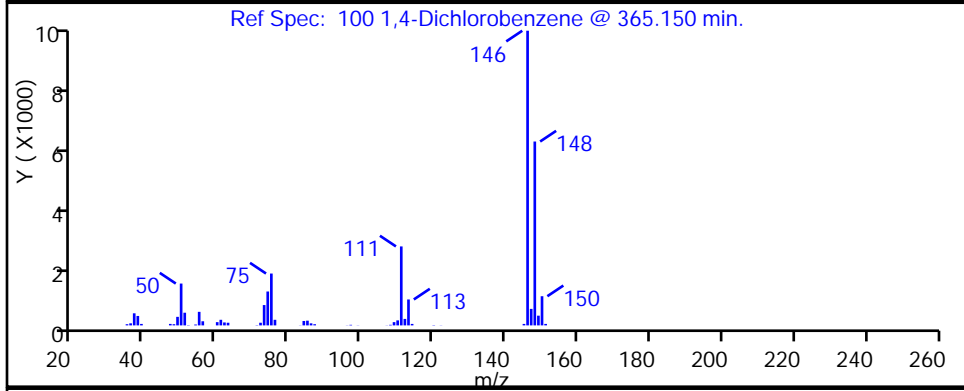
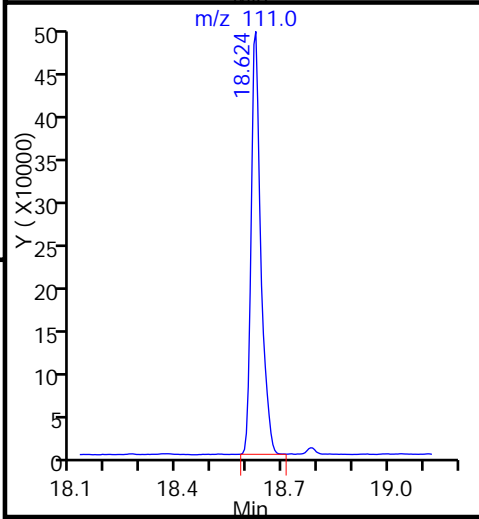
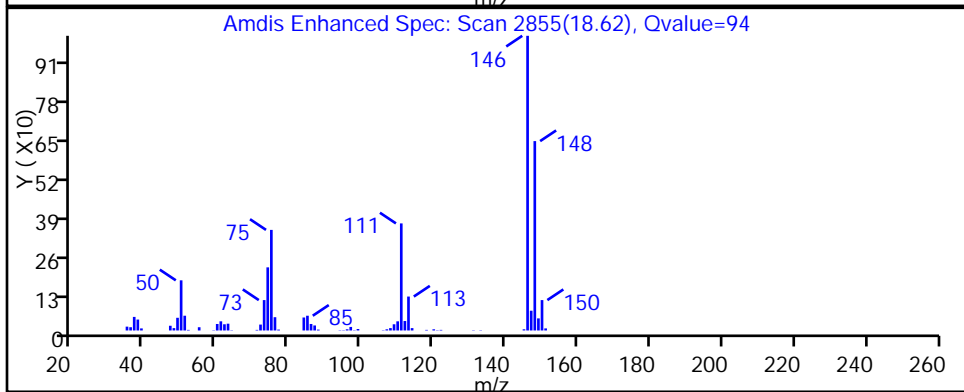
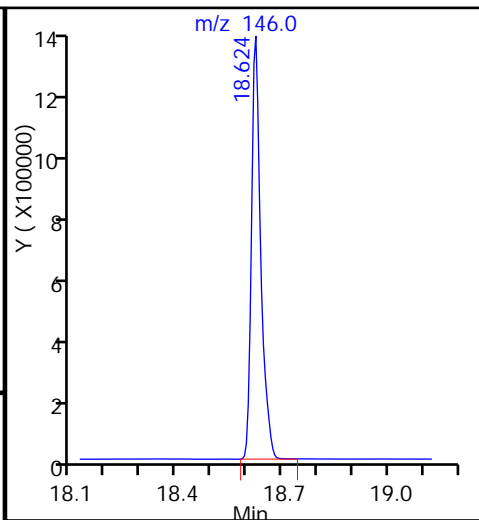
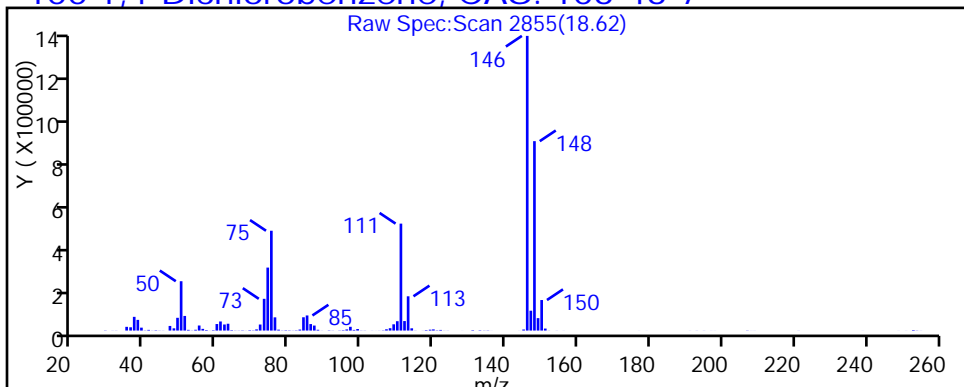
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

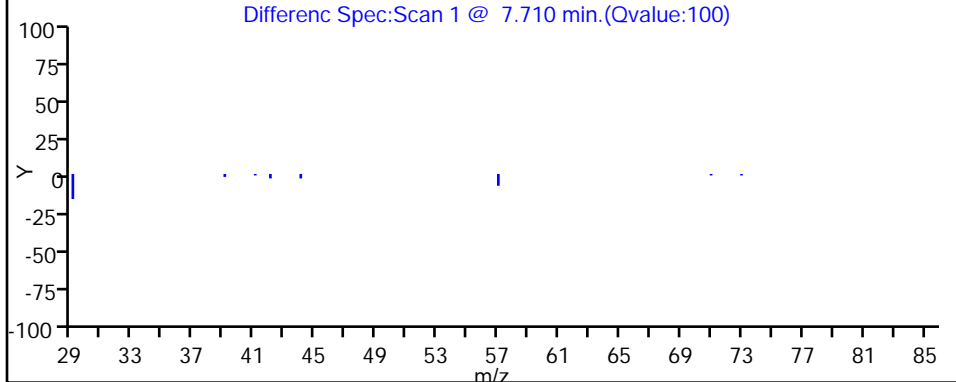
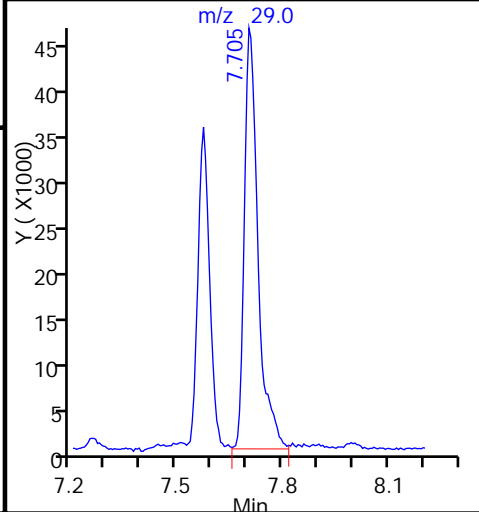
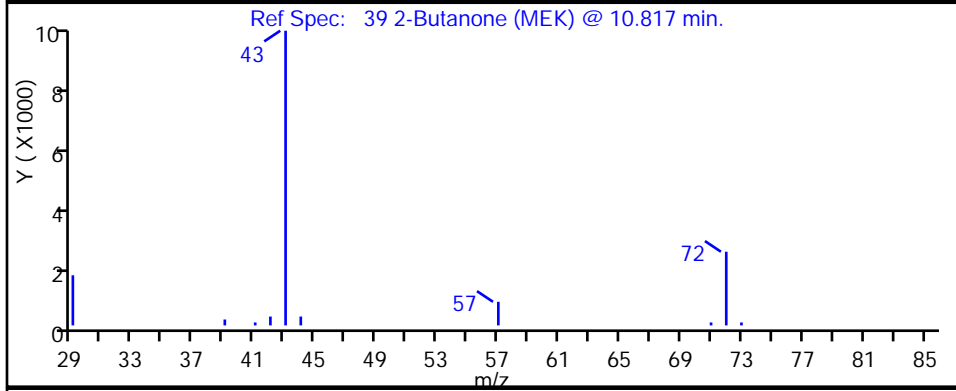
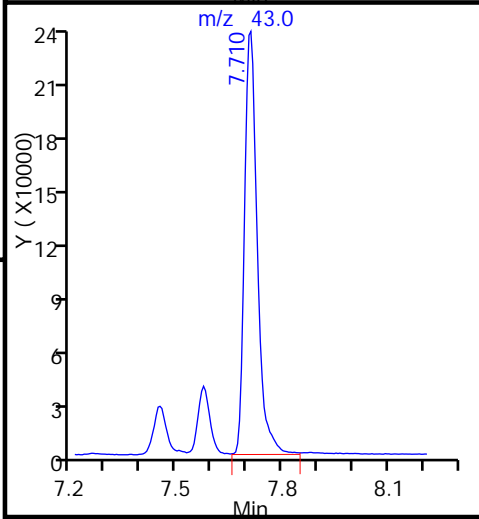
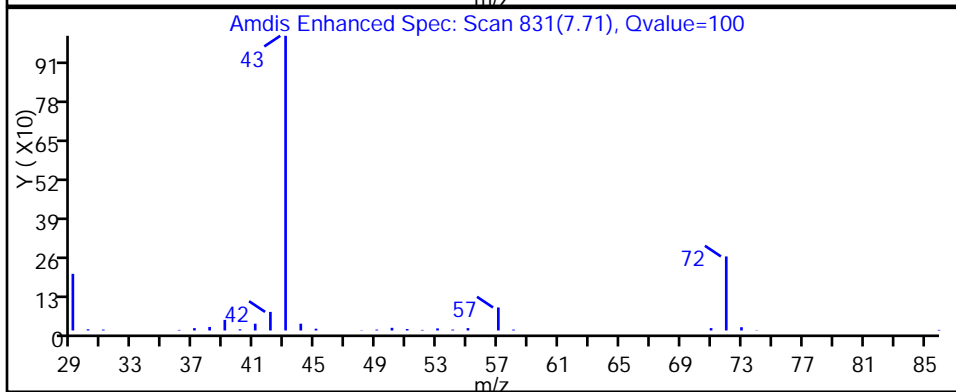
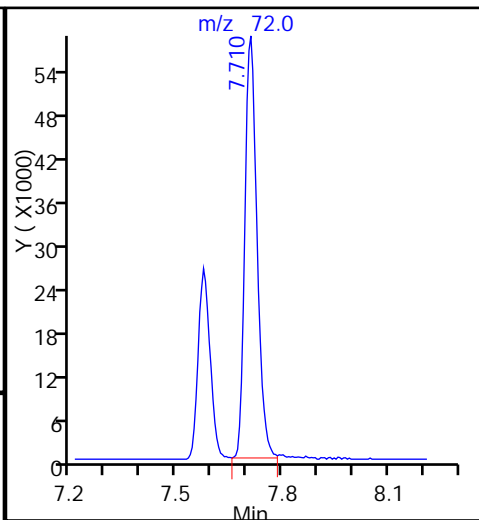
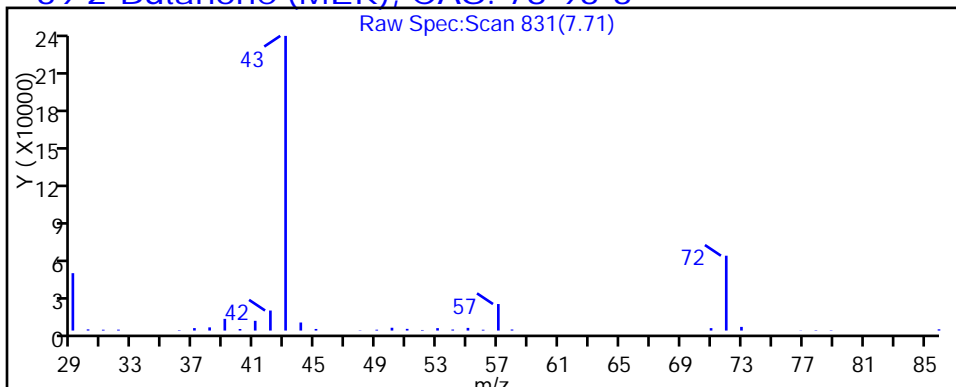
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

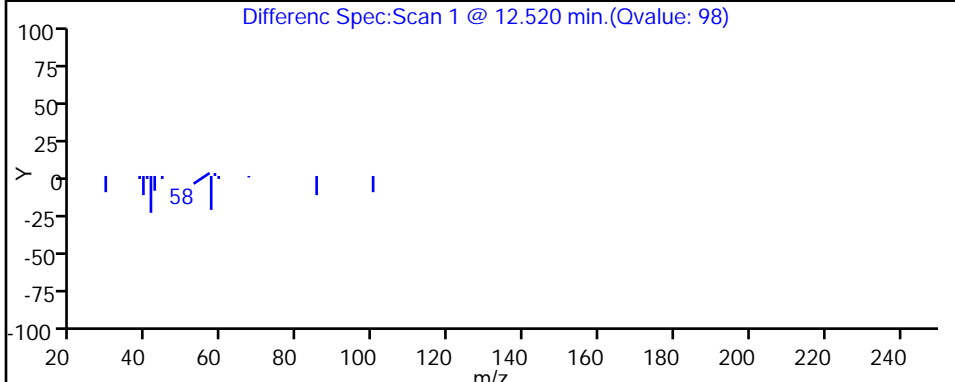
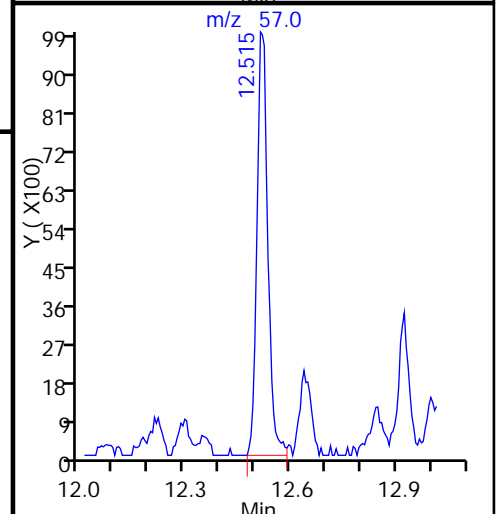
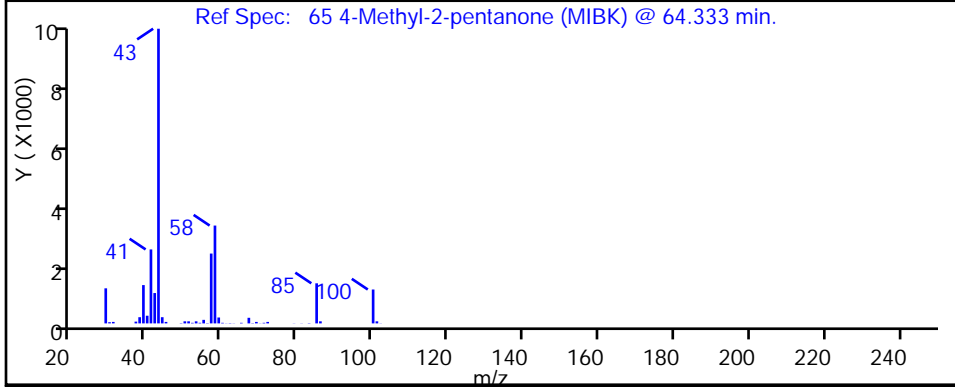
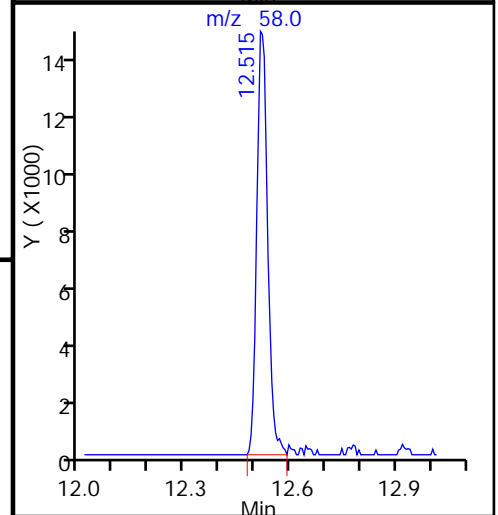
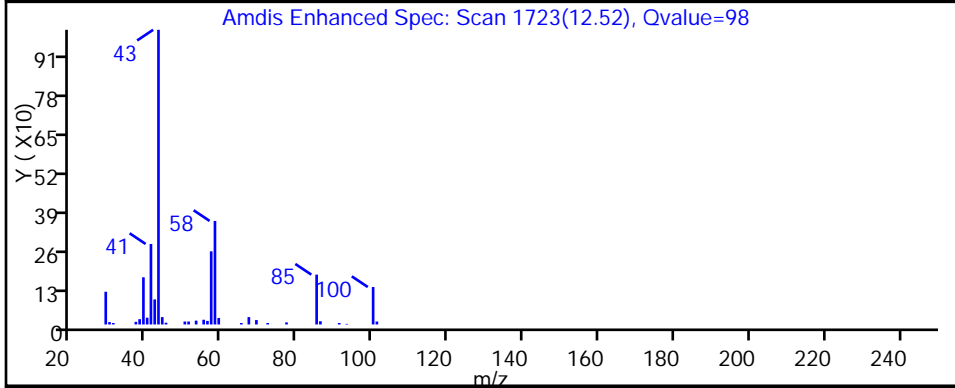
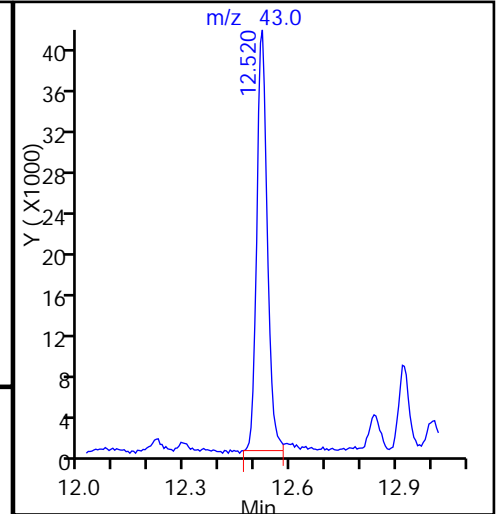
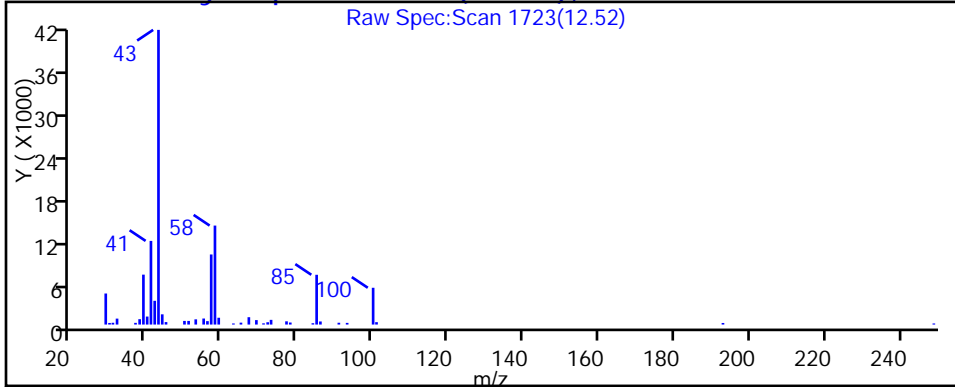
Method: MG_TO15

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

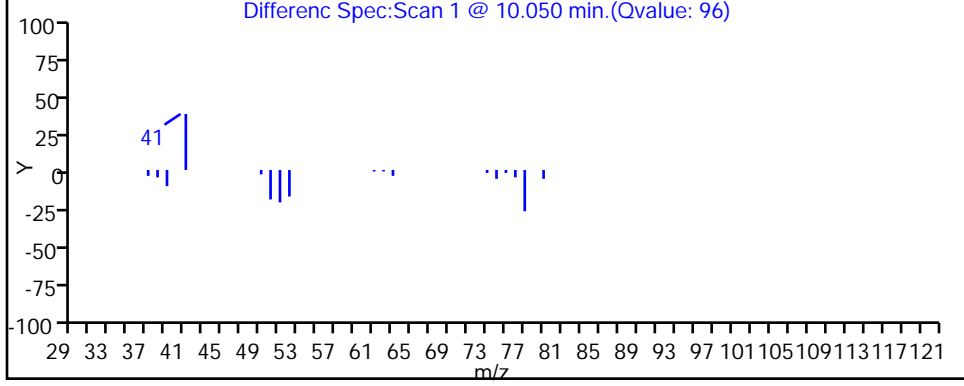
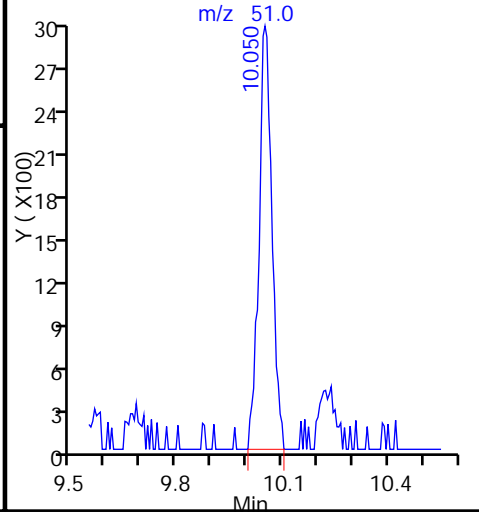
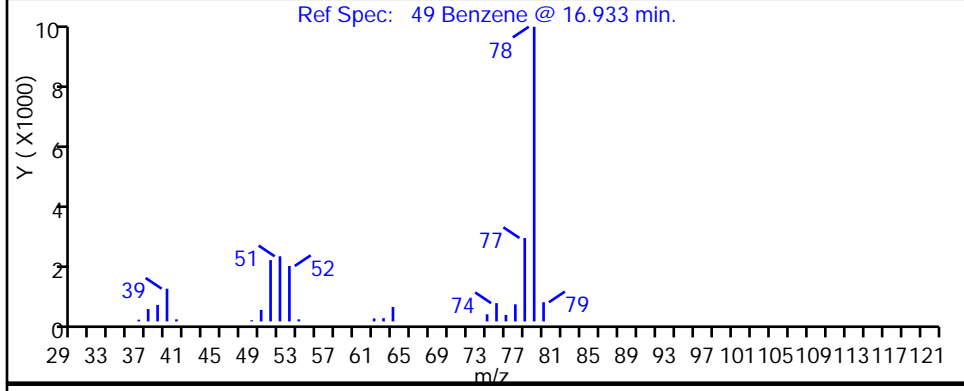
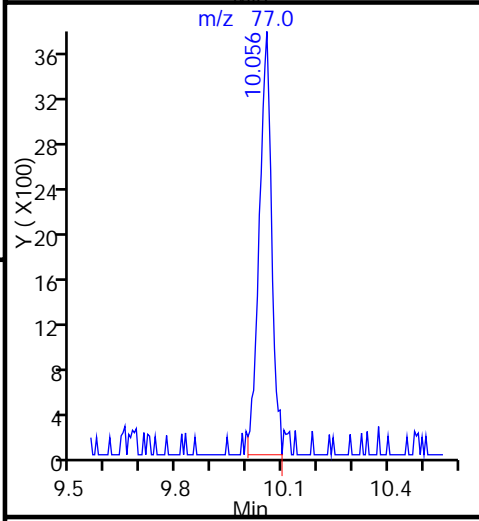
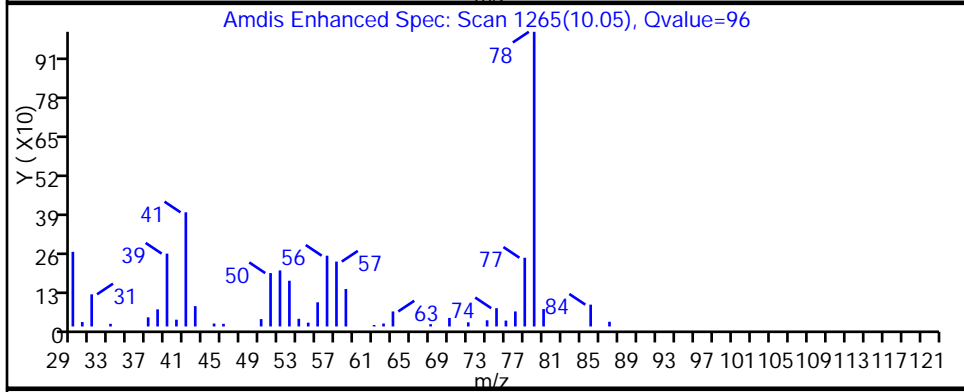
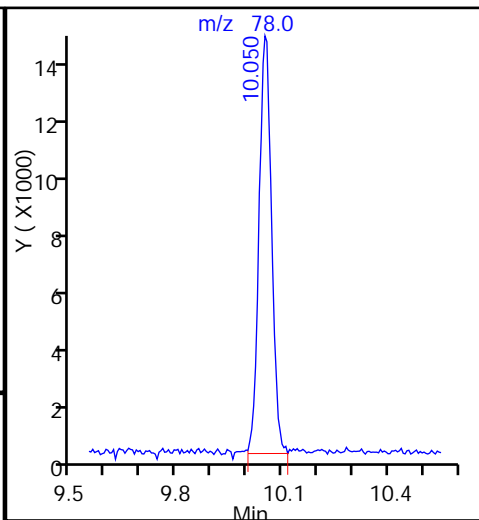
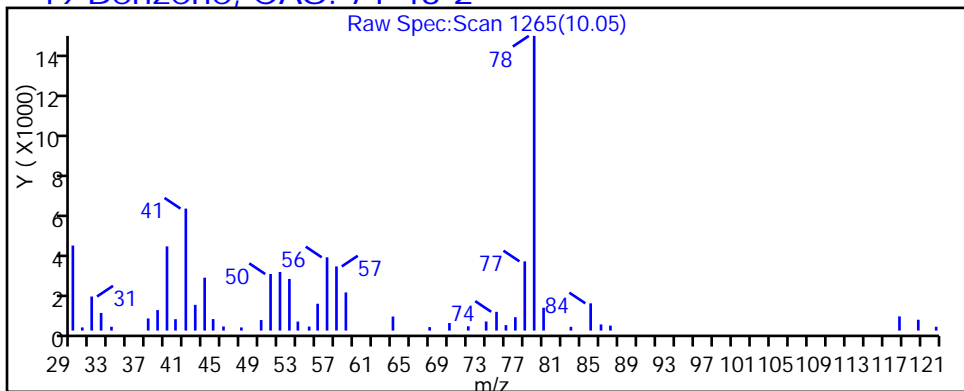
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

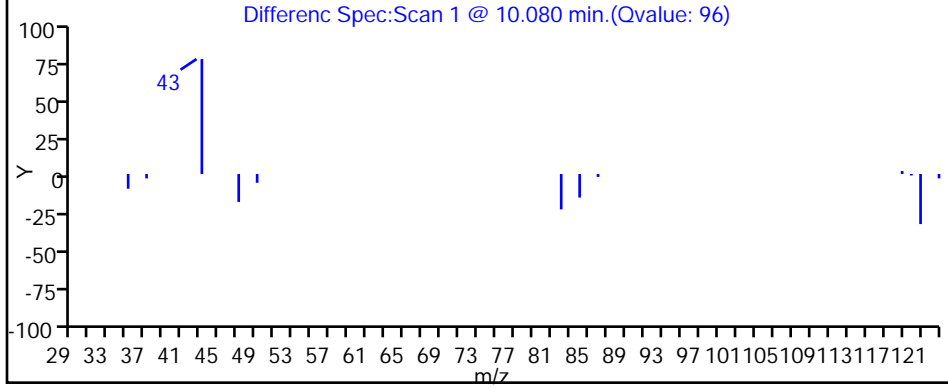
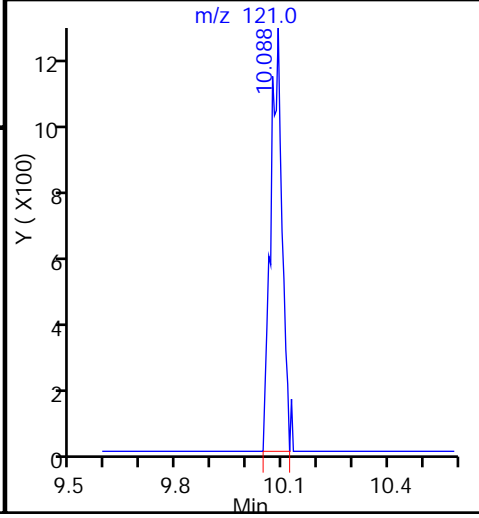
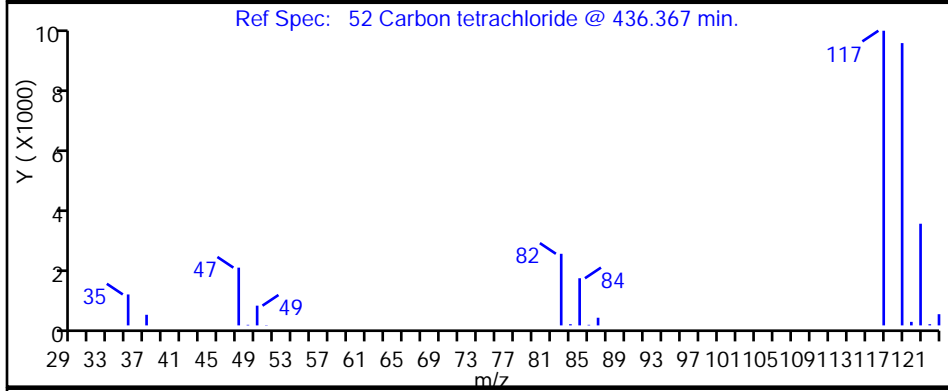
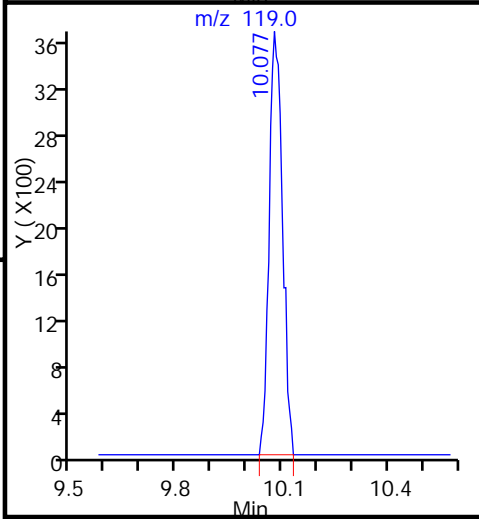
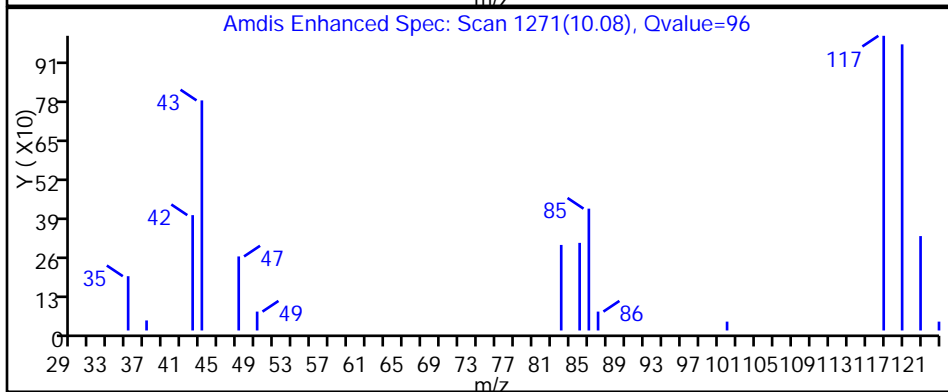
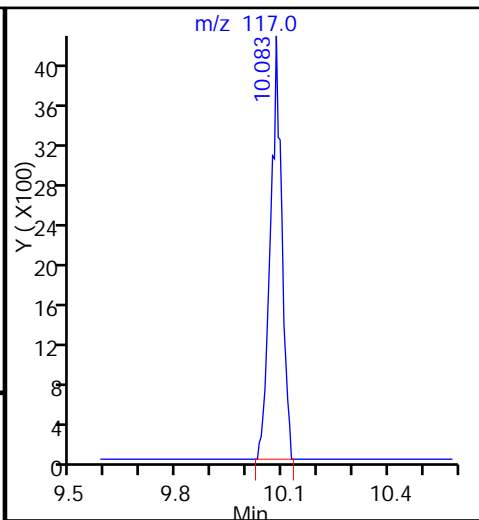
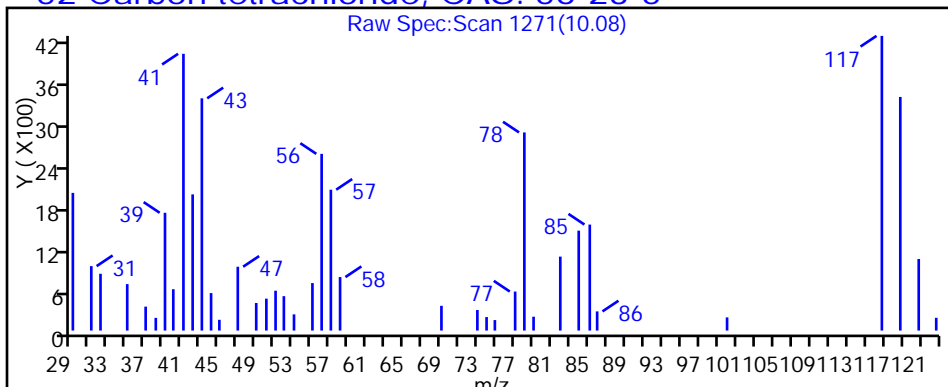
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

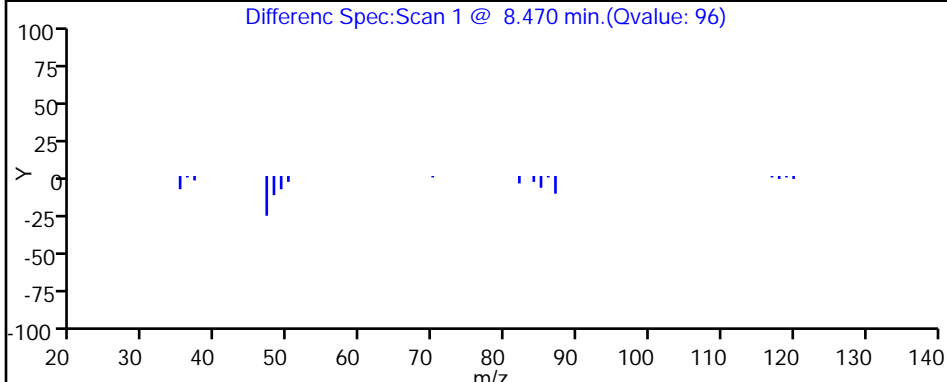
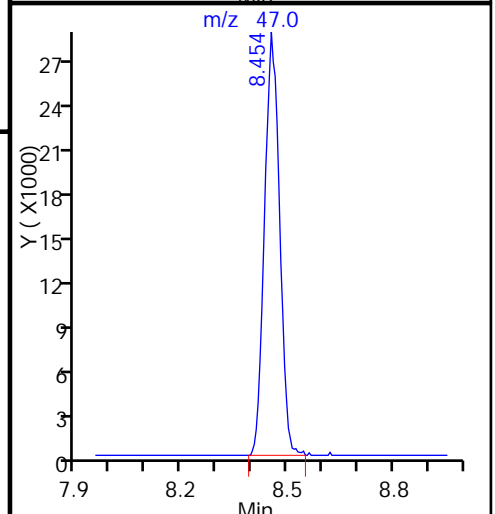
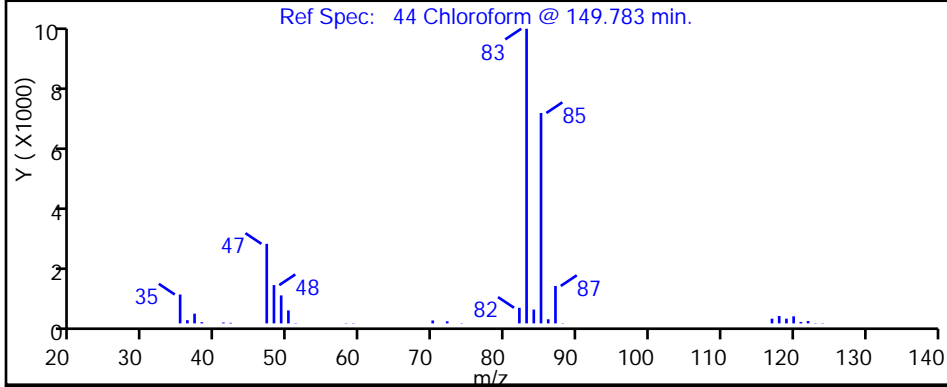
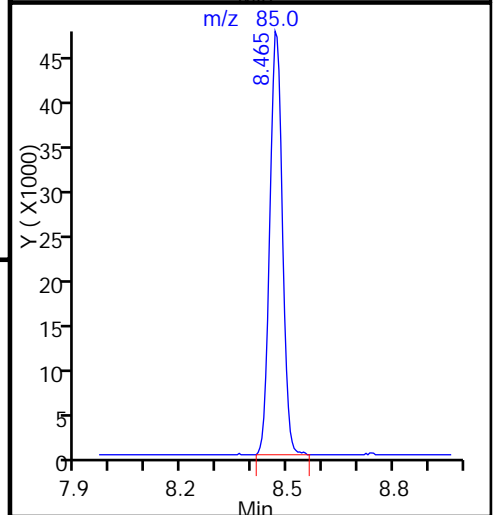
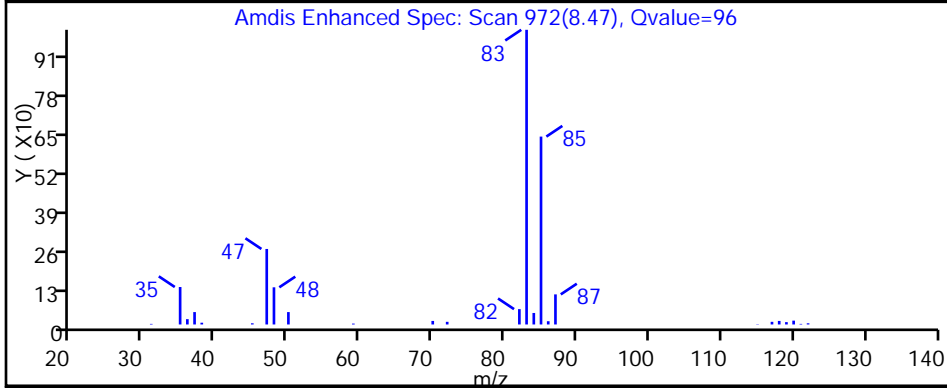
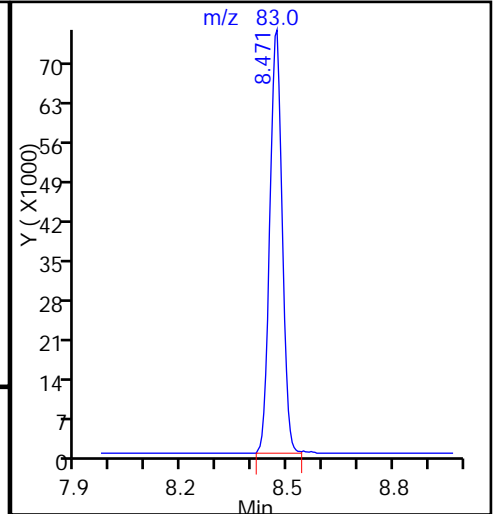
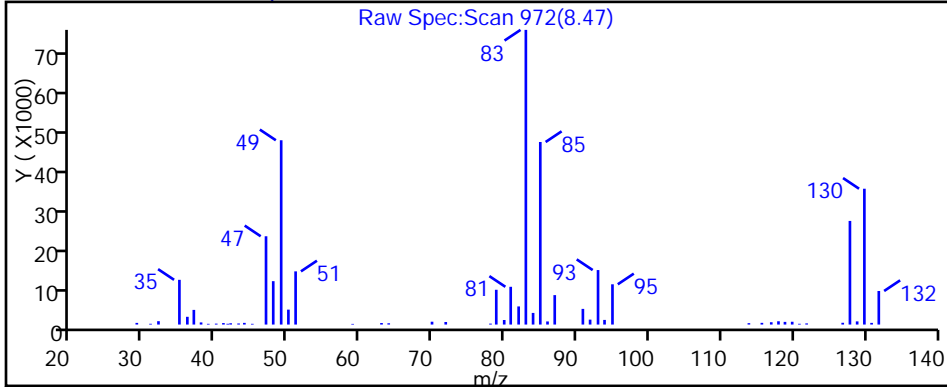
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

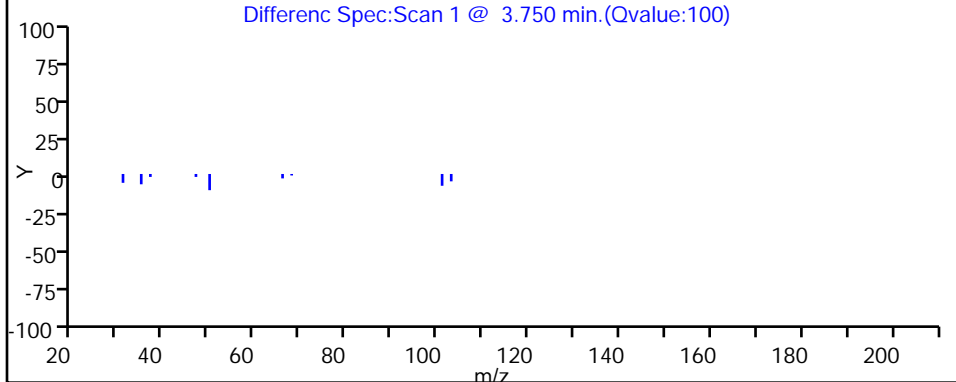
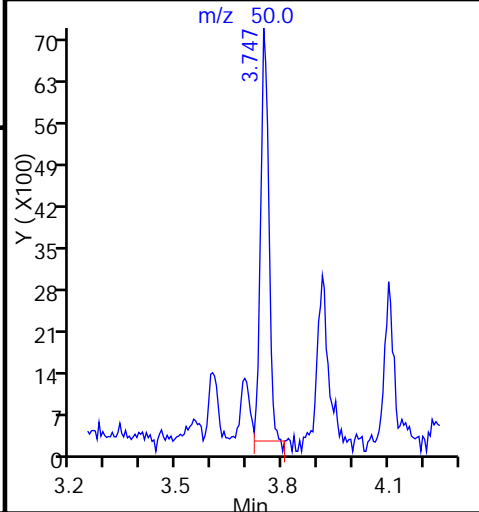
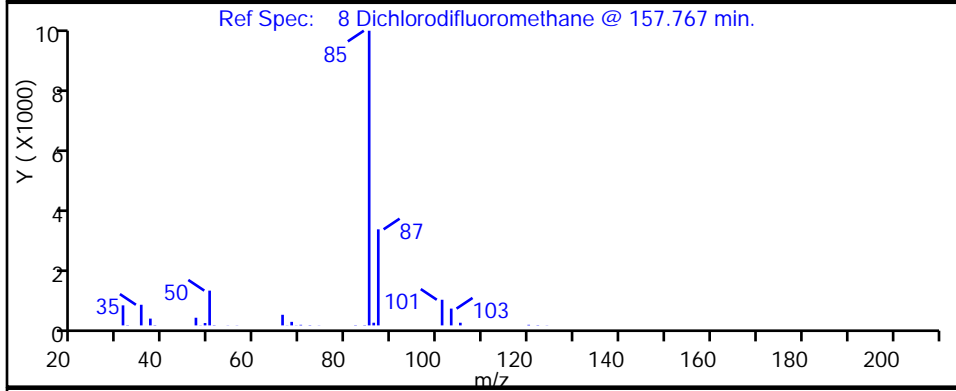
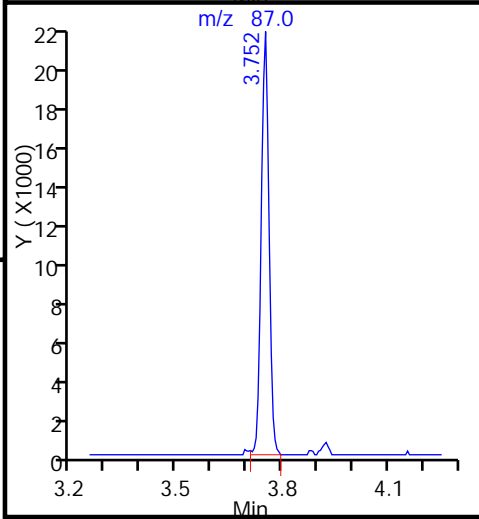
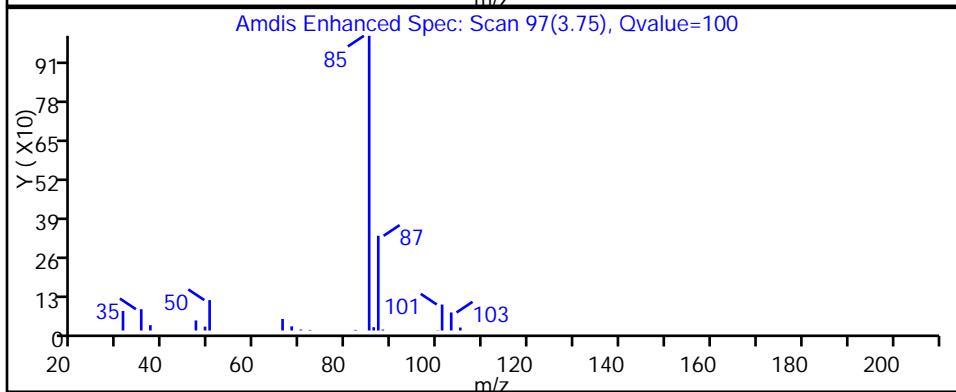
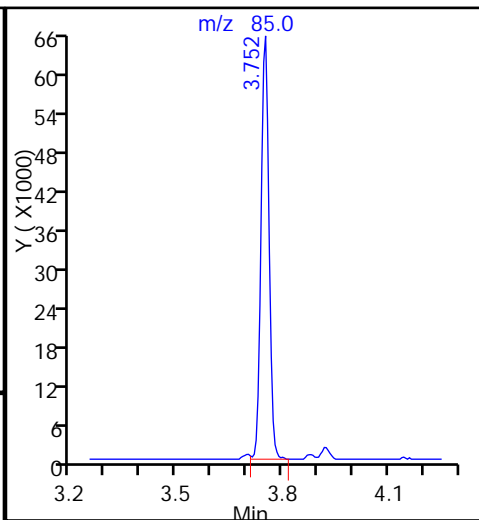
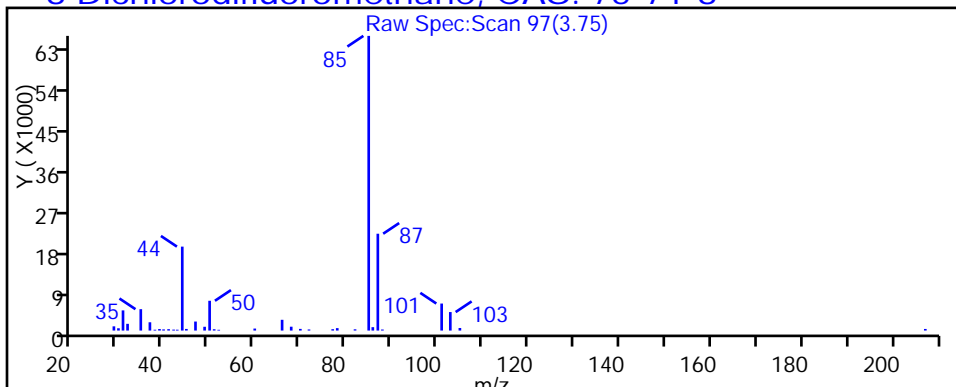
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

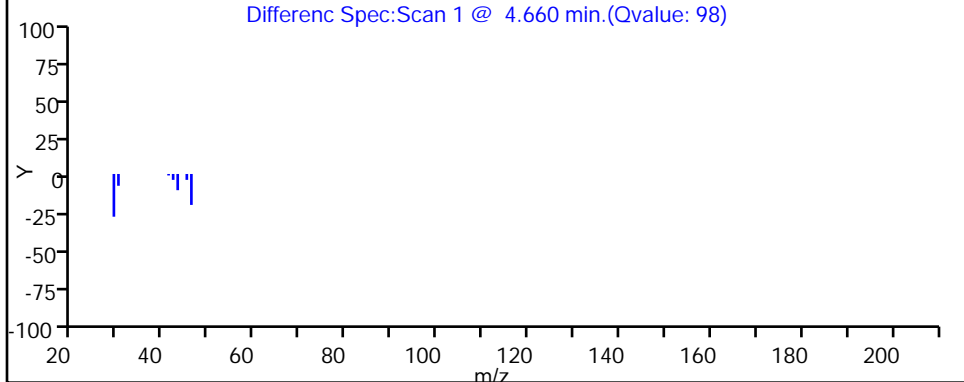
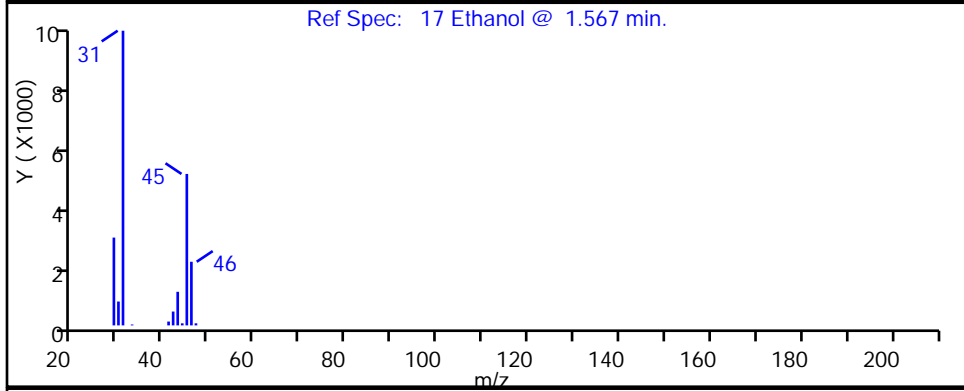
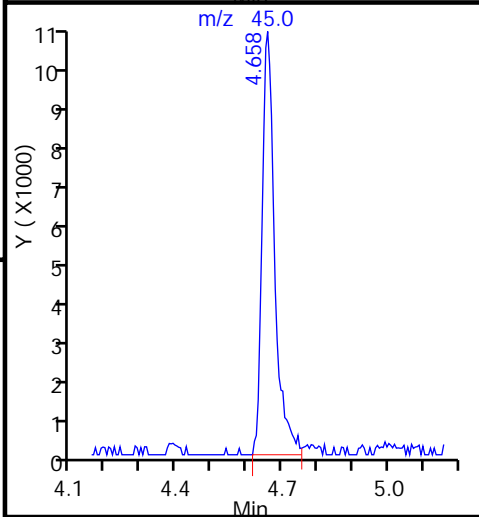
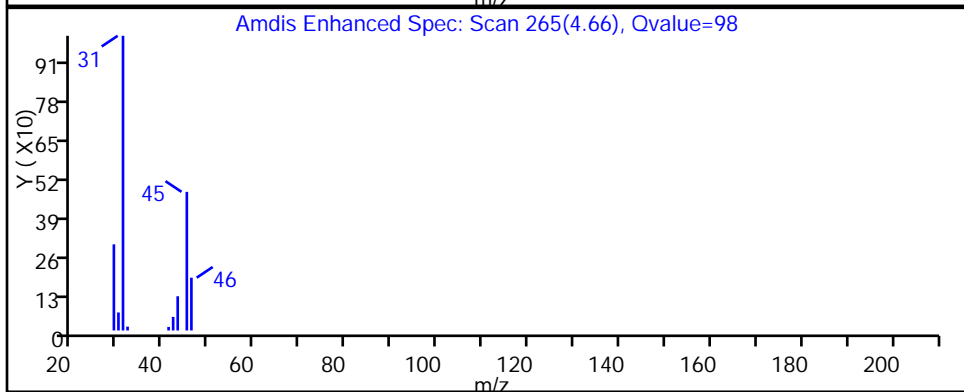
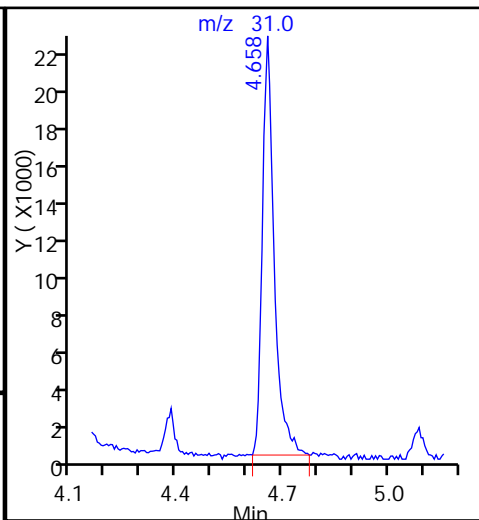
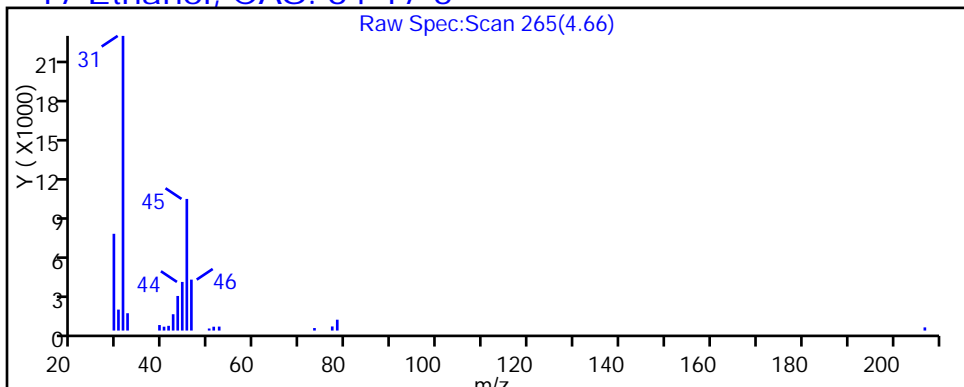
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

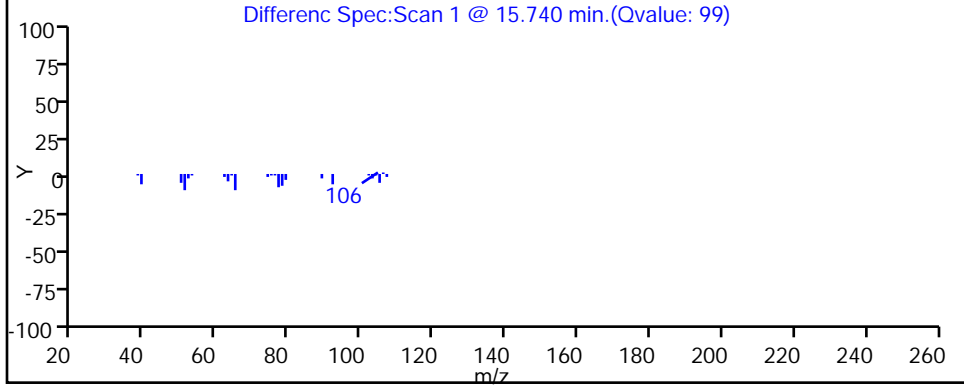
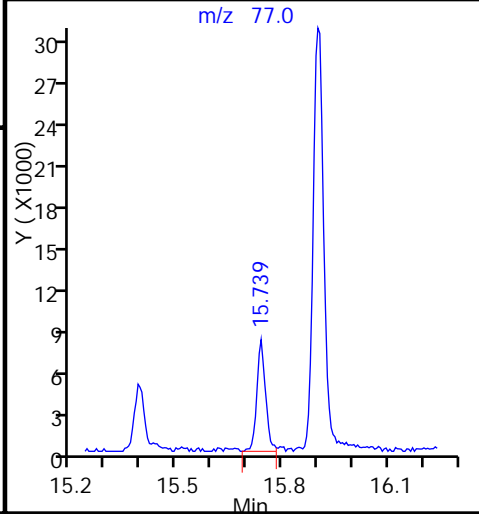
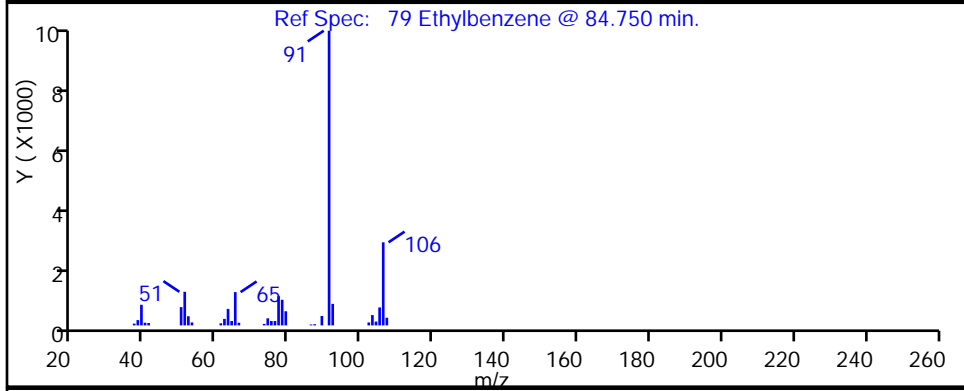
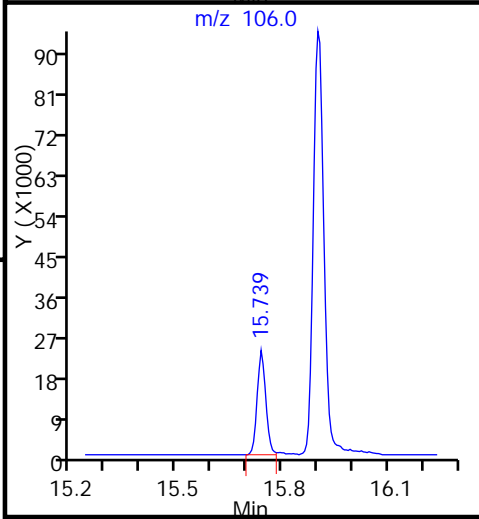
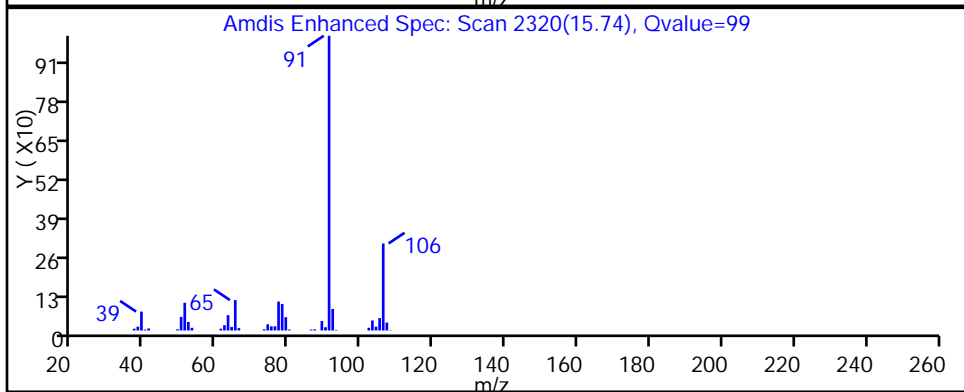
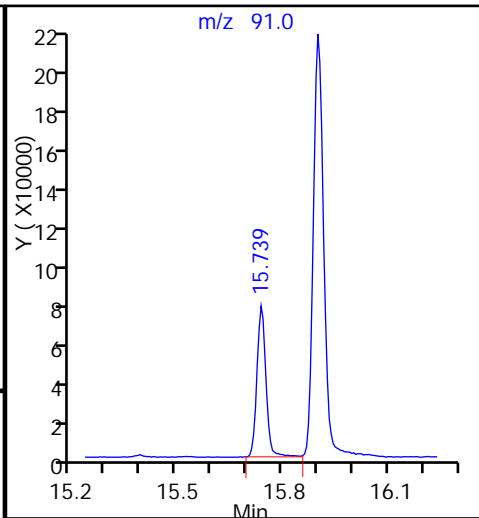
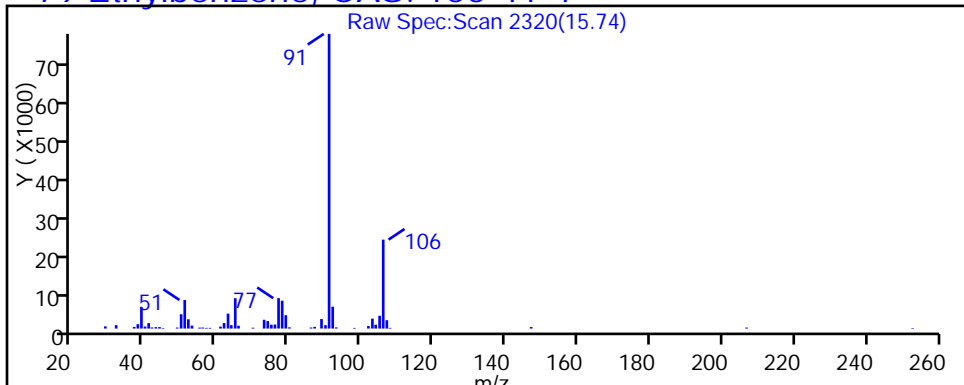
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

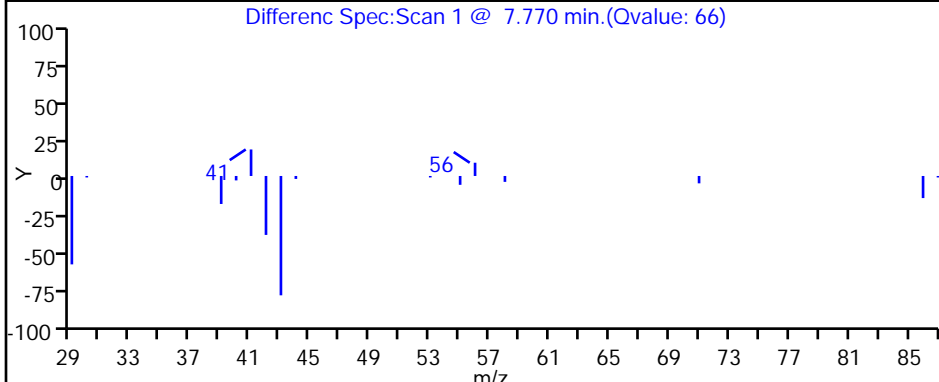
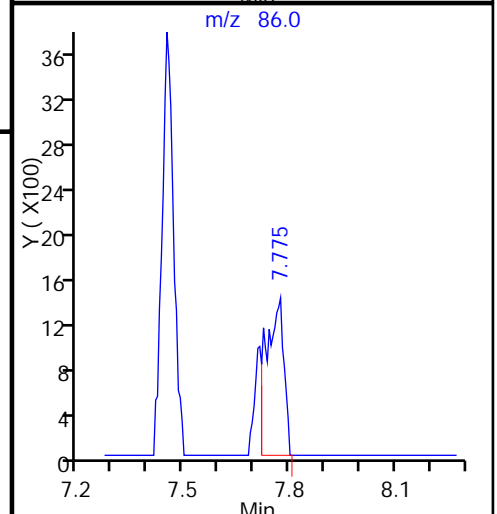
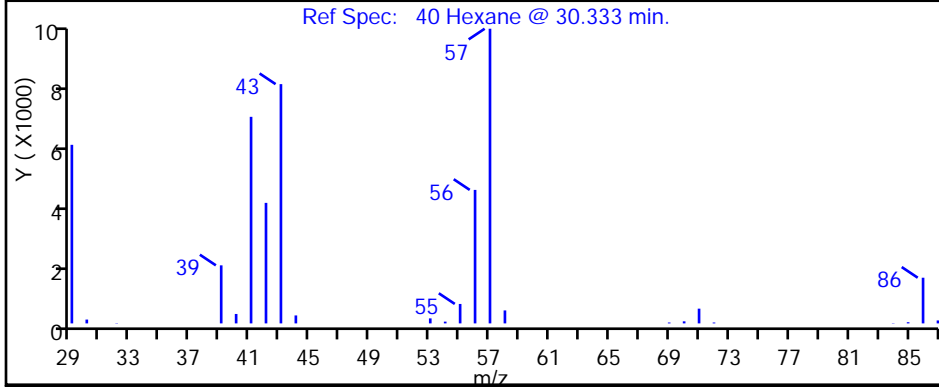
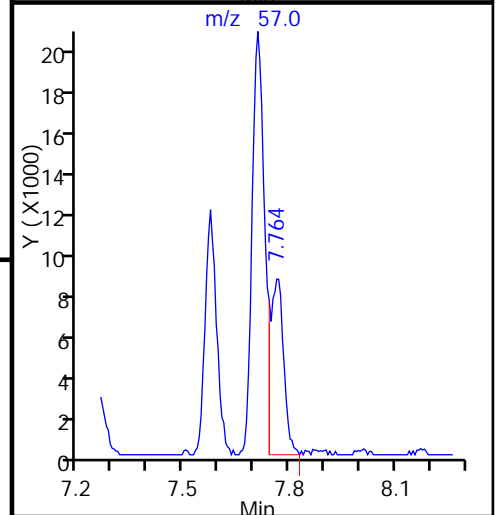
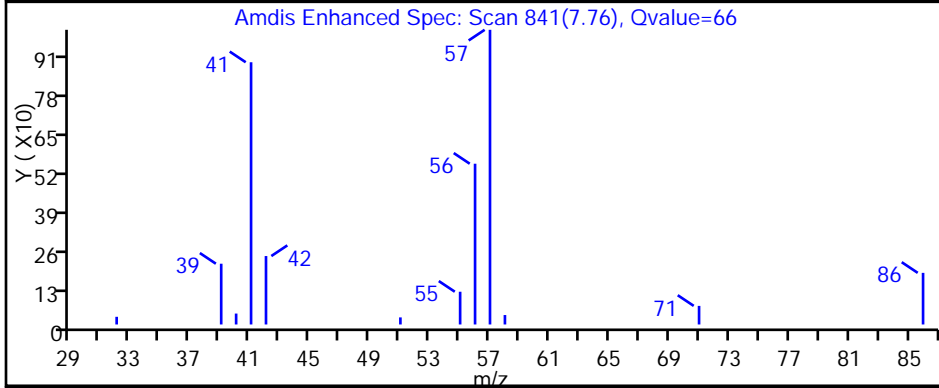
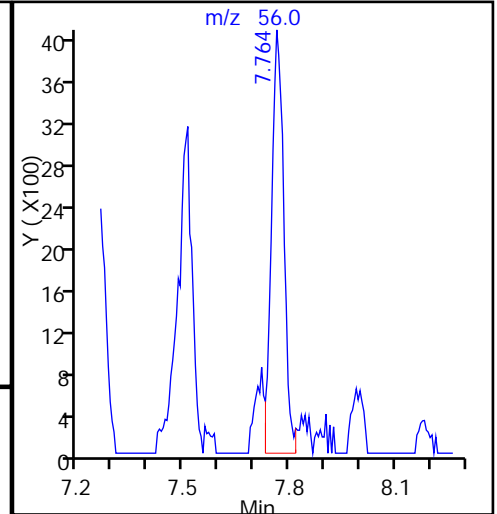
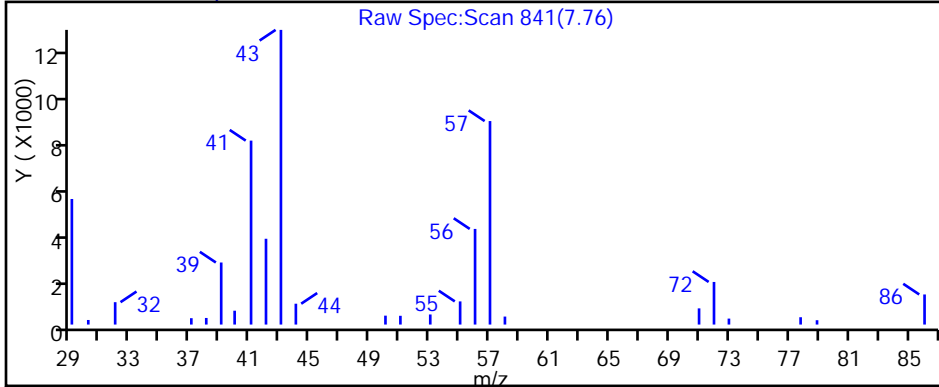
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

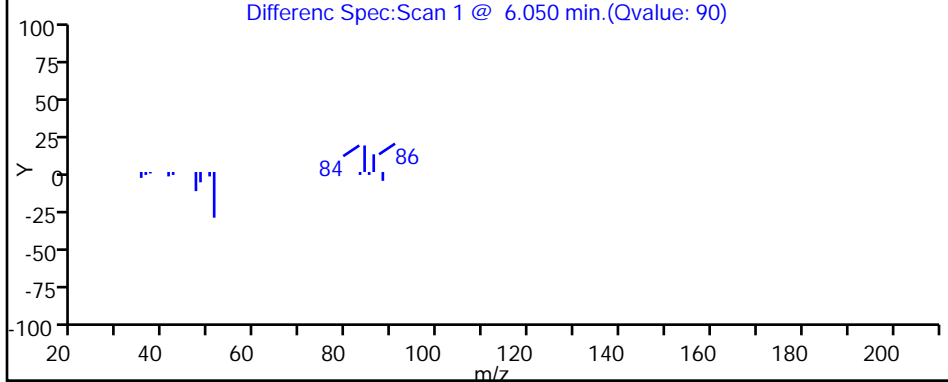
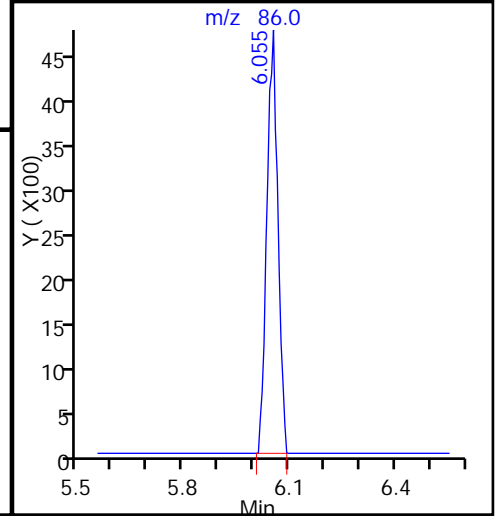
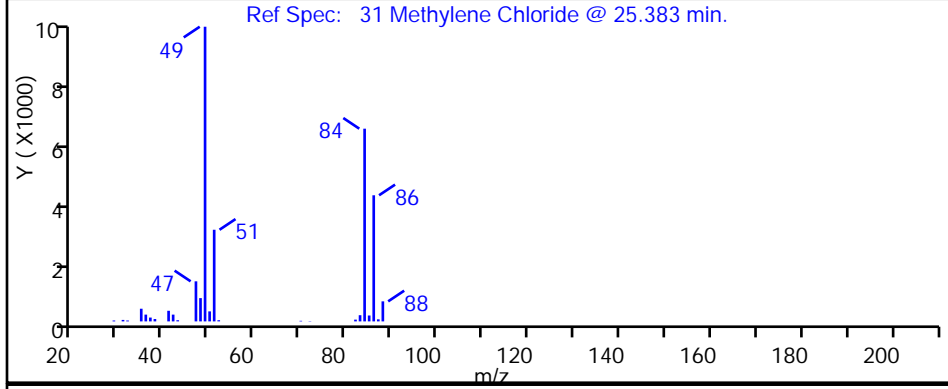
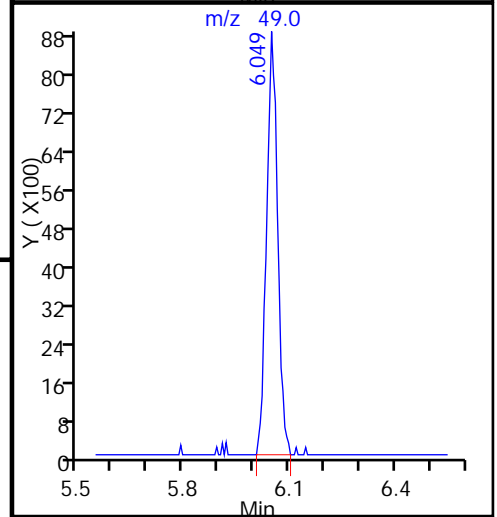
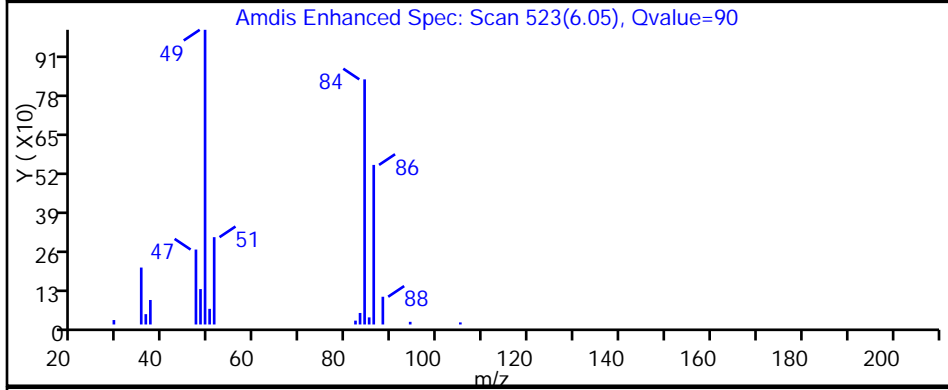
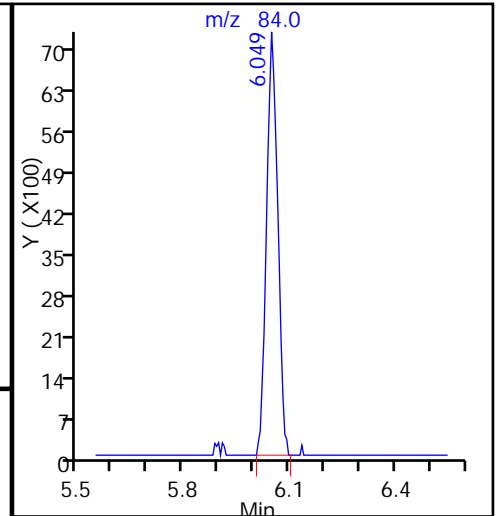
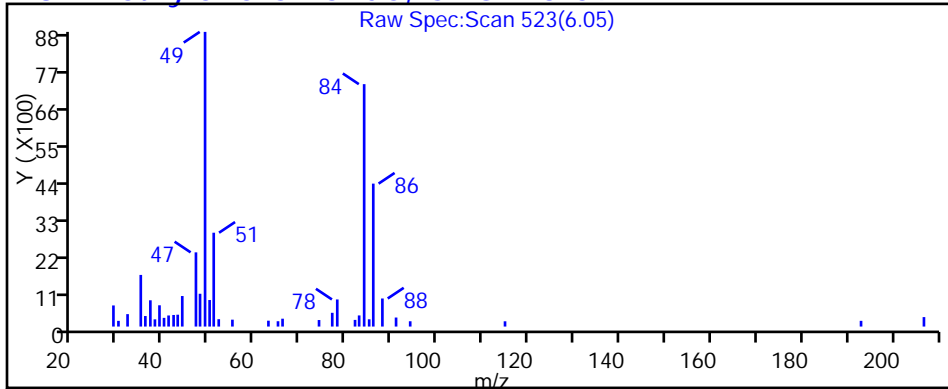
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

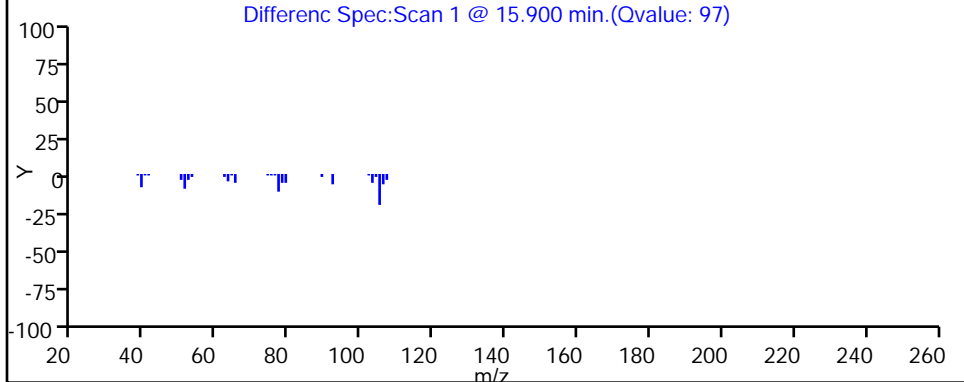
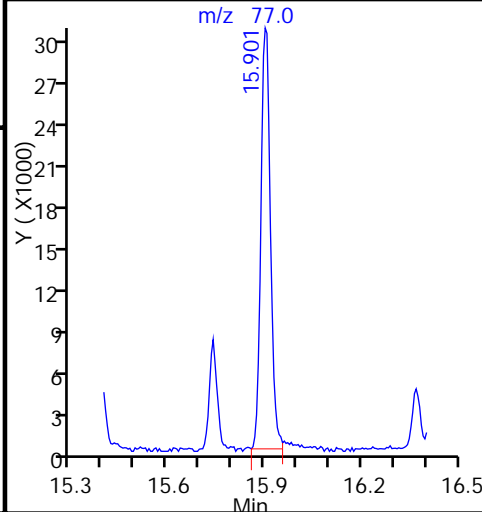
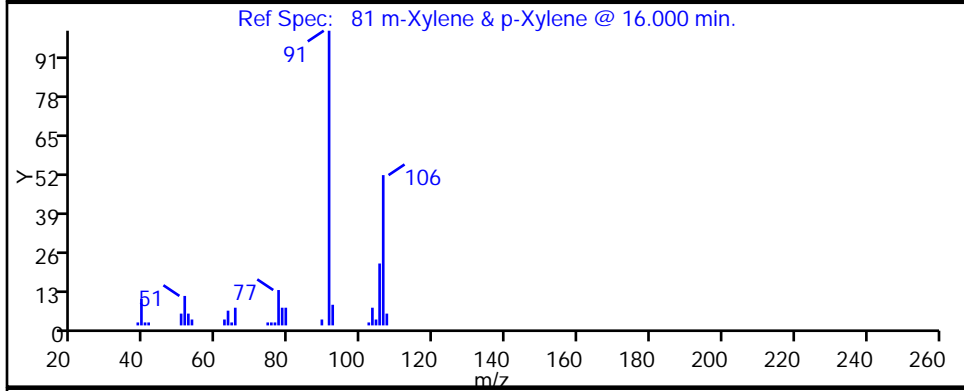
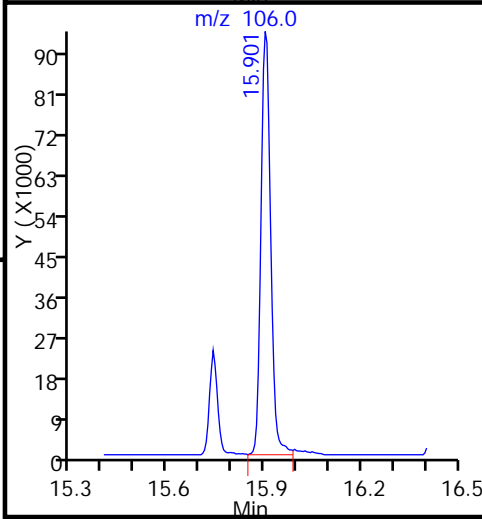
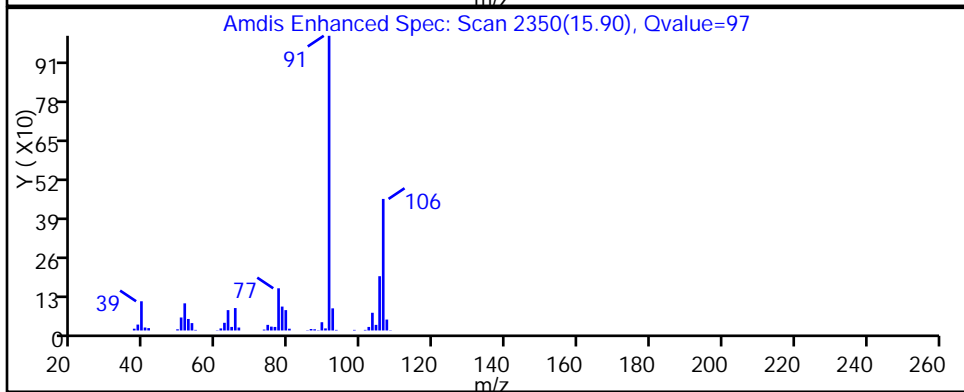
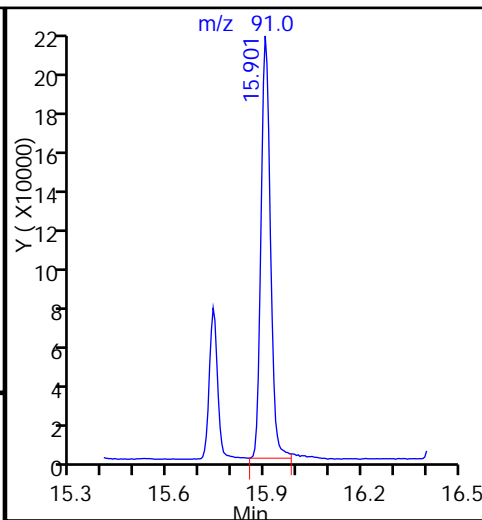
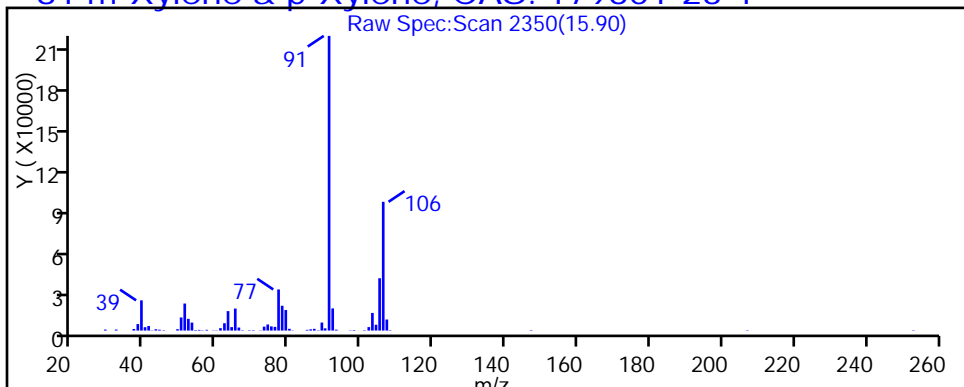
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

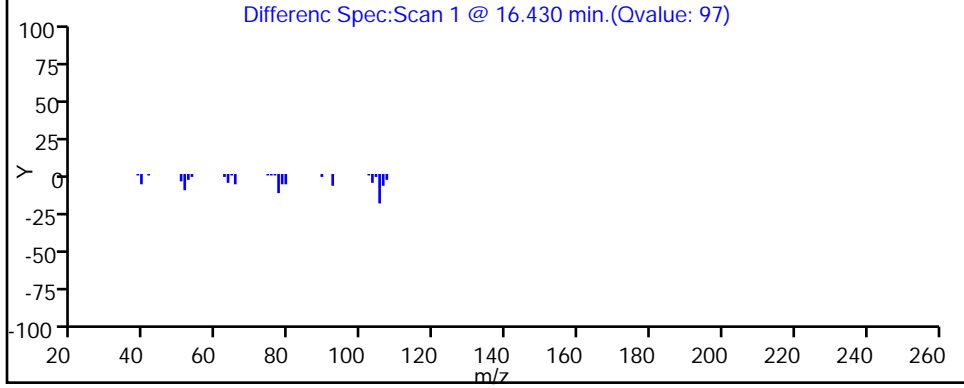
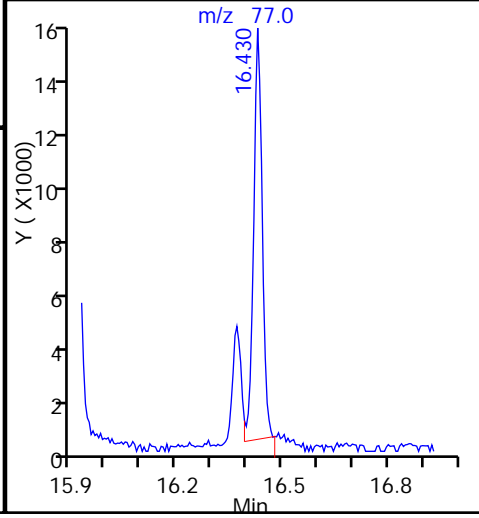
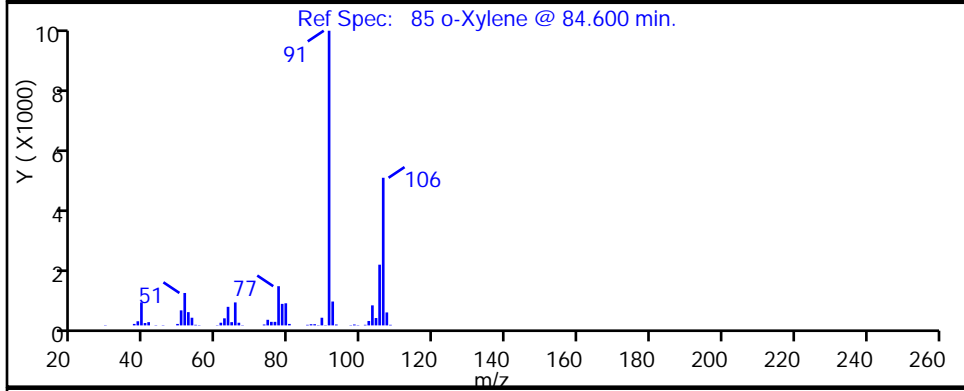
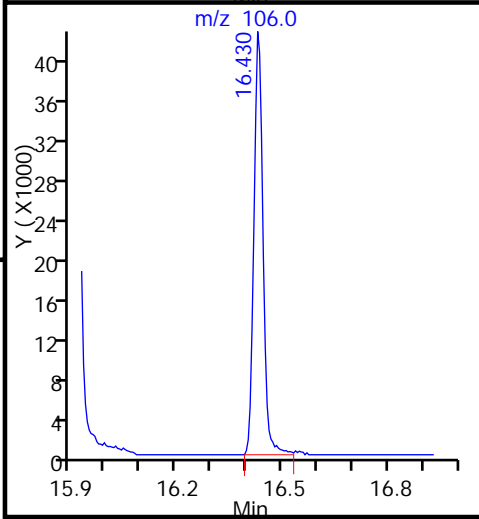
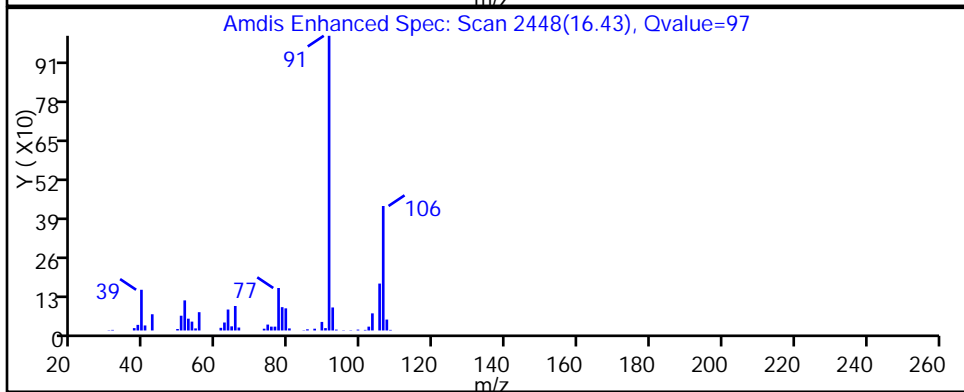
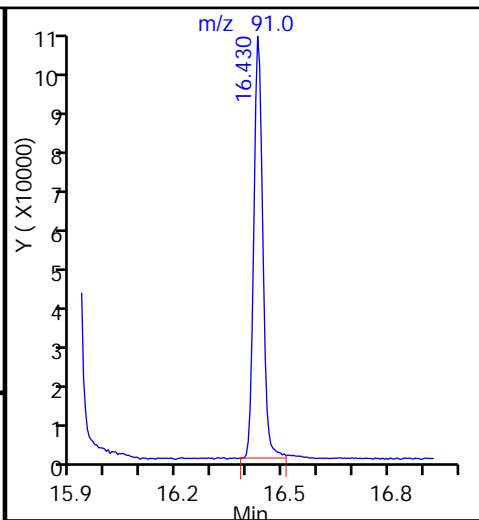
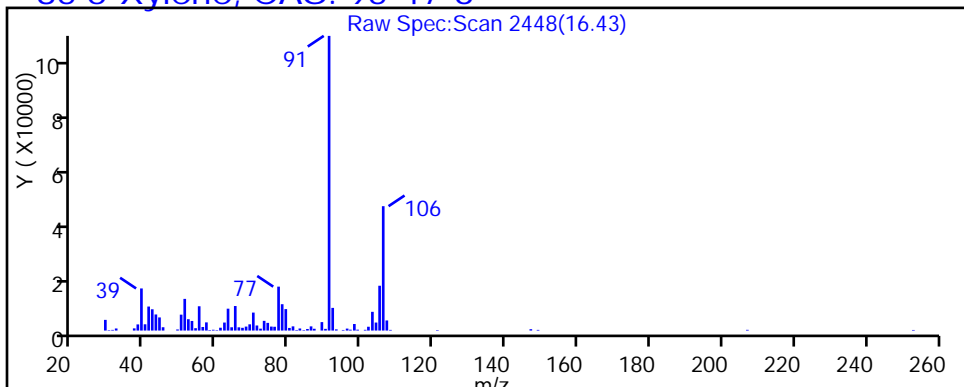
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

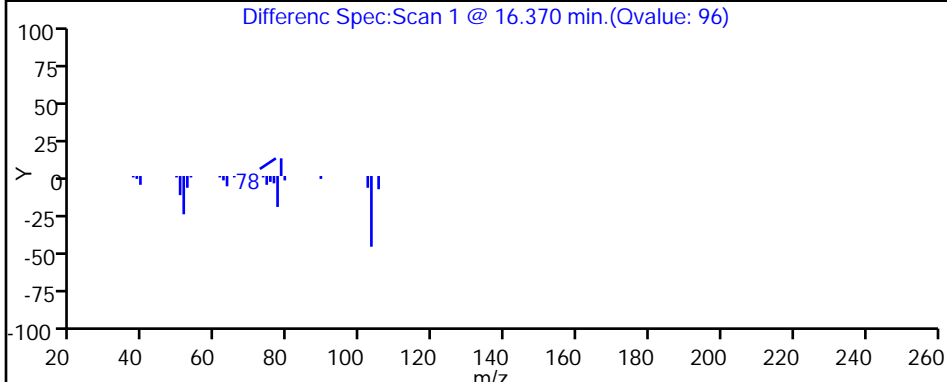
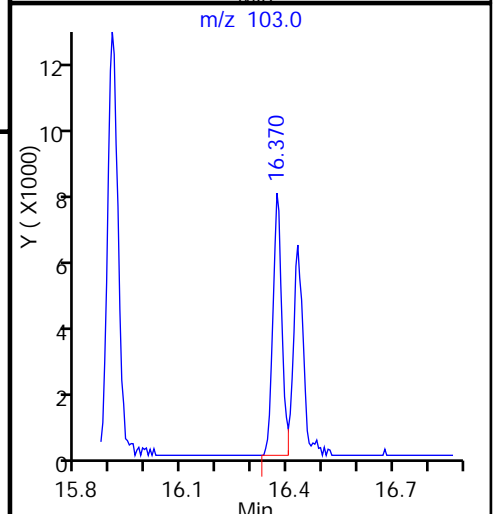
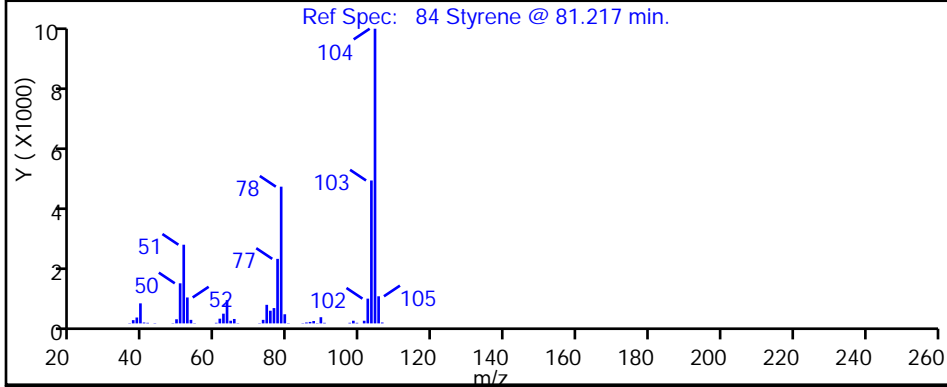
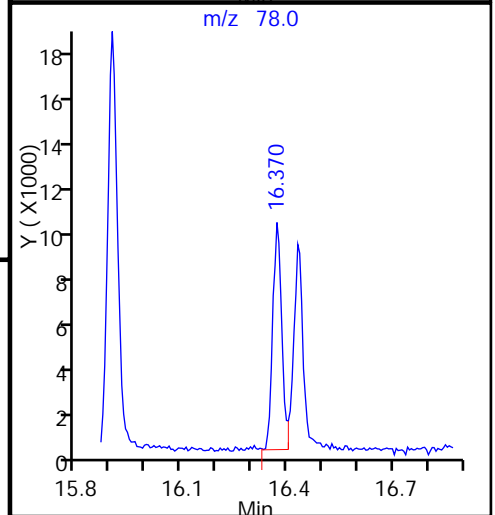
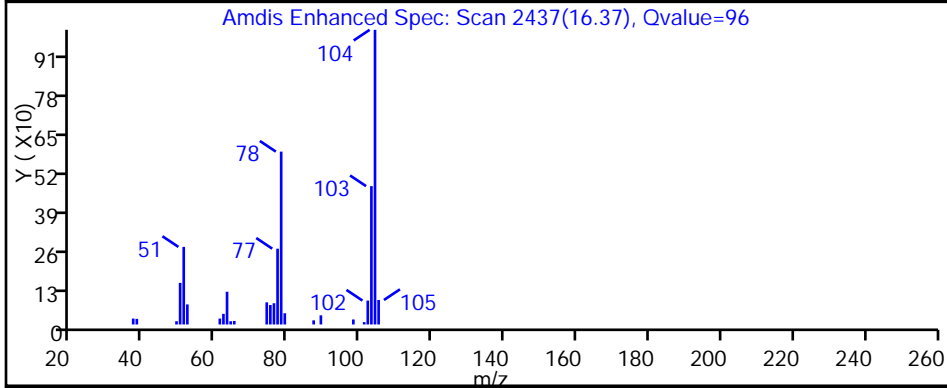
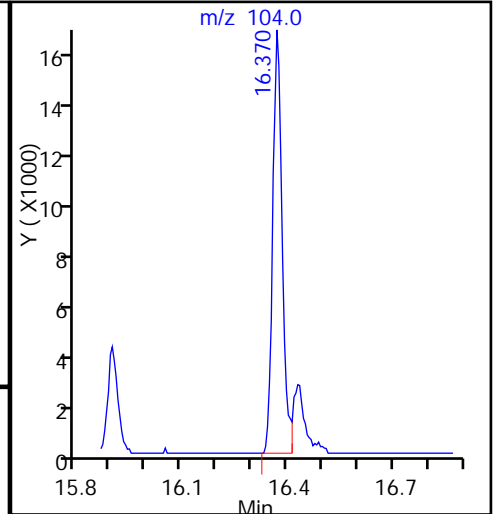
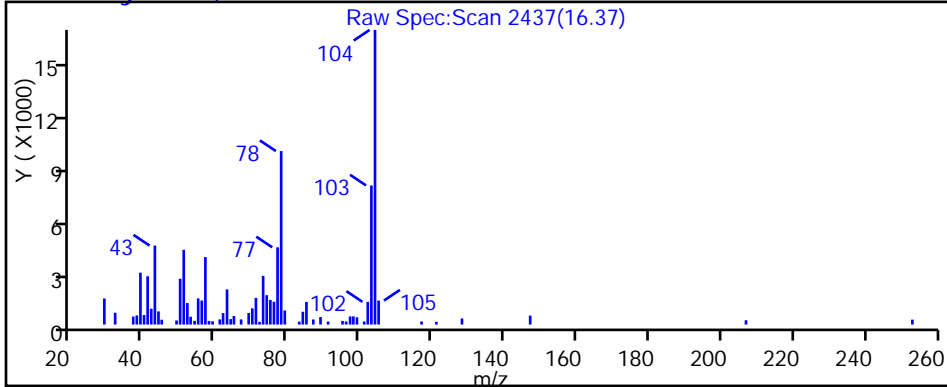
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

84 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

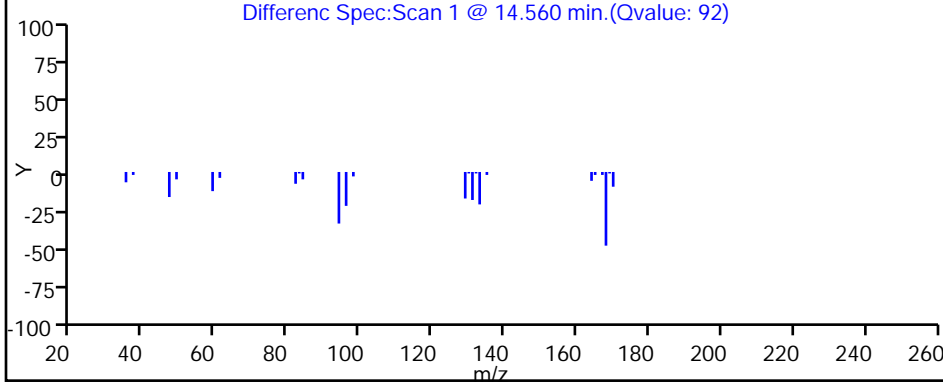
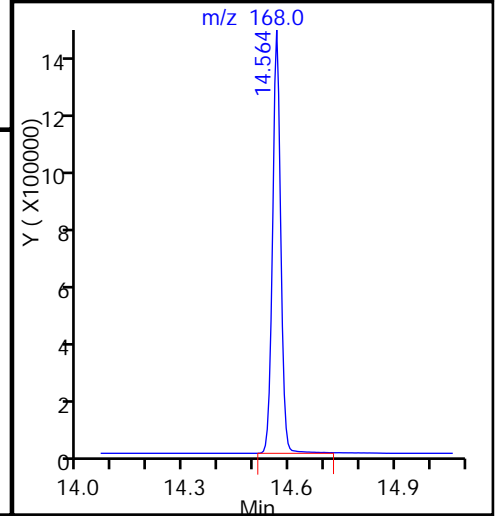
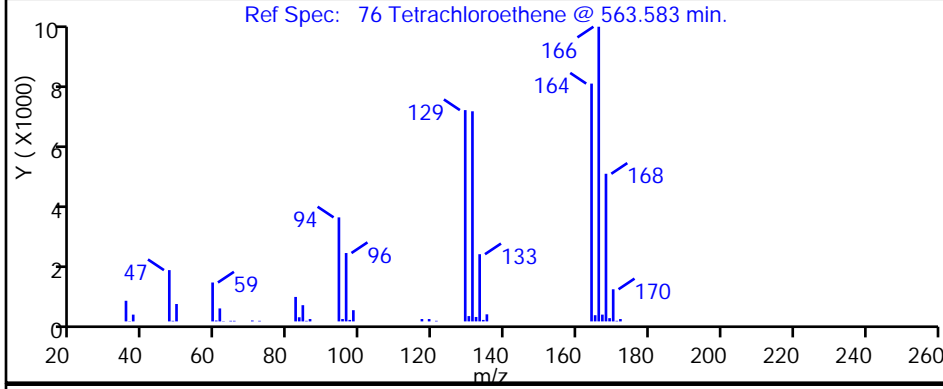
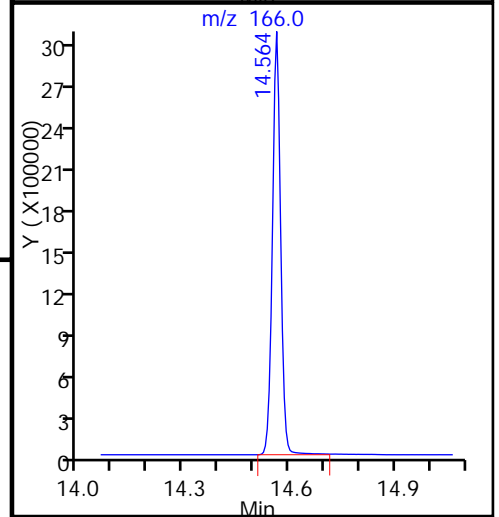
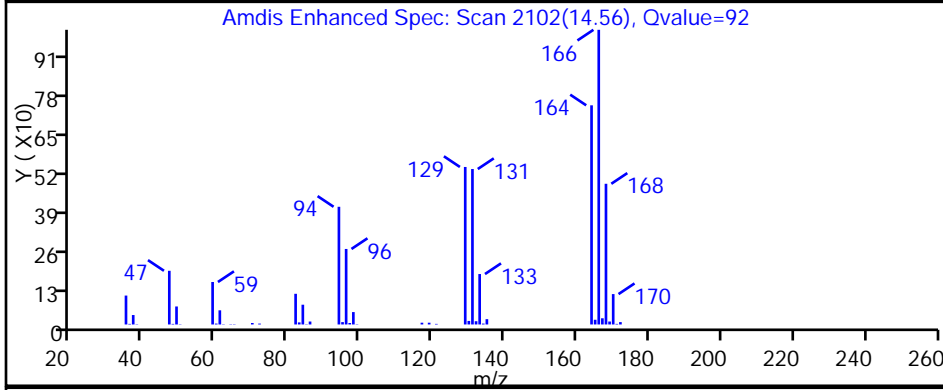
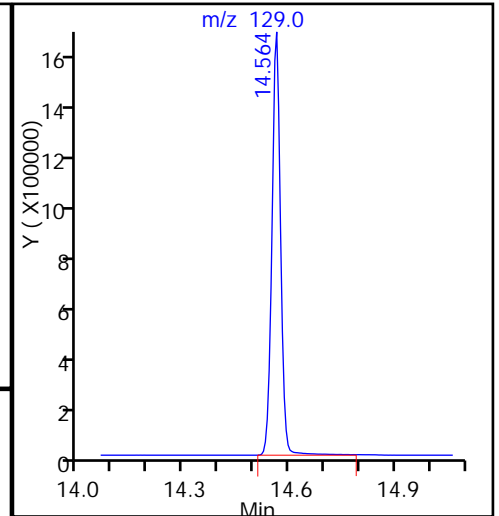
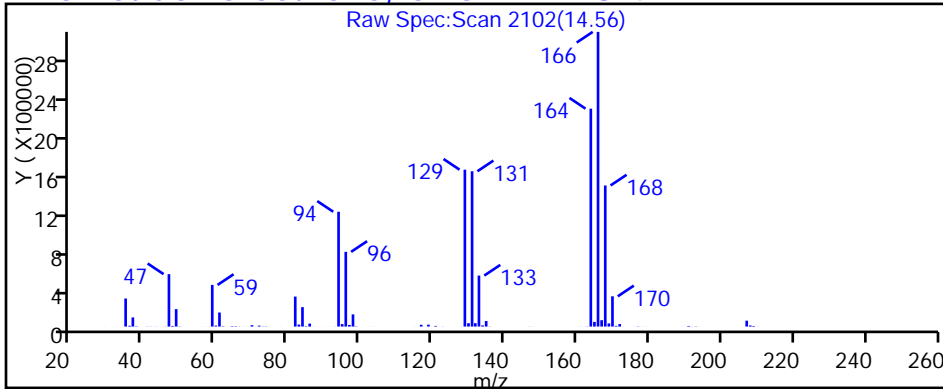
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

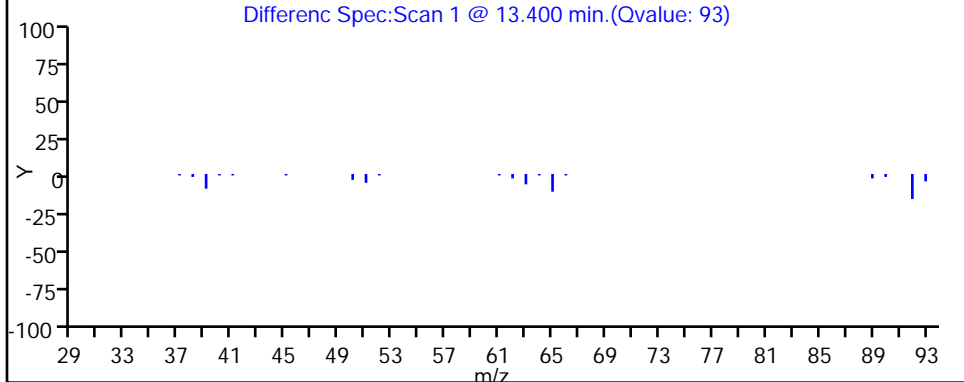
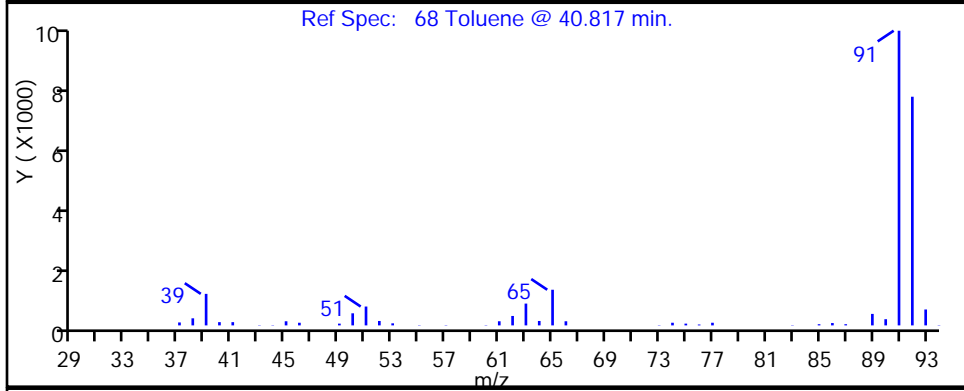
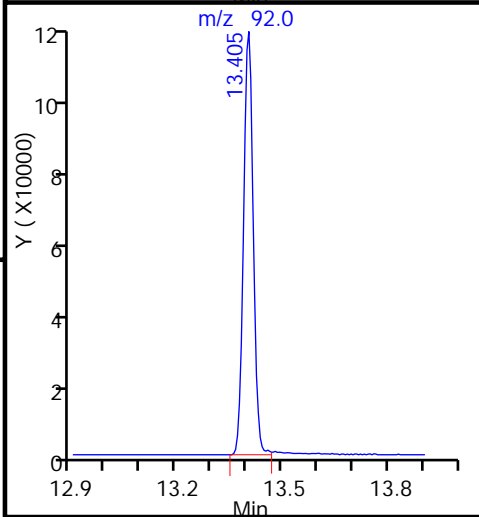
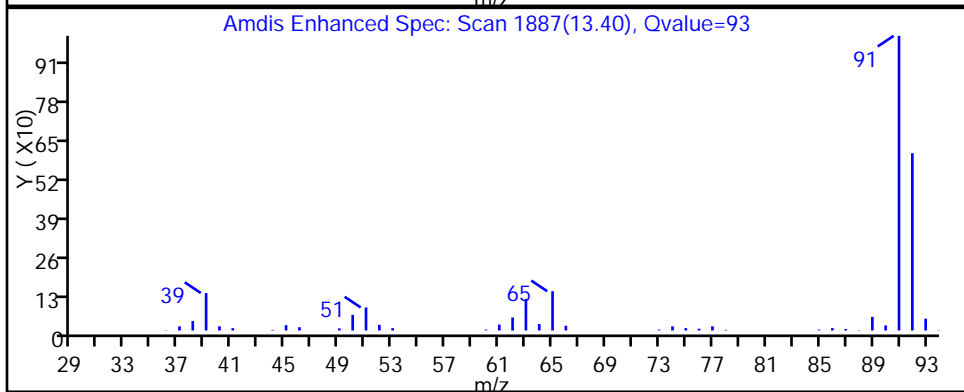
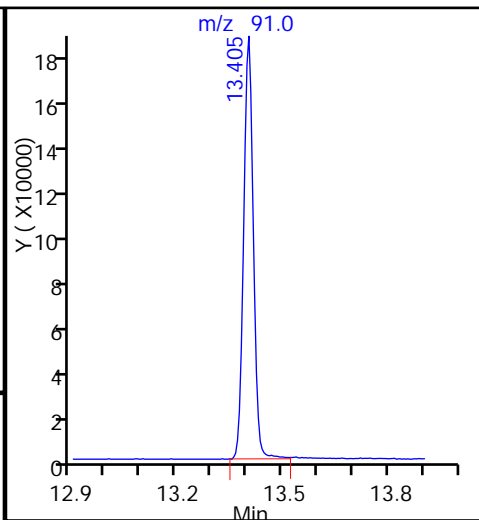
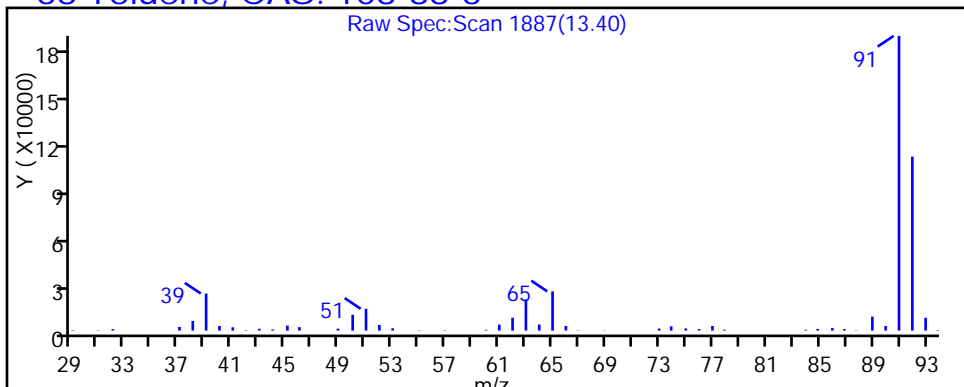
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

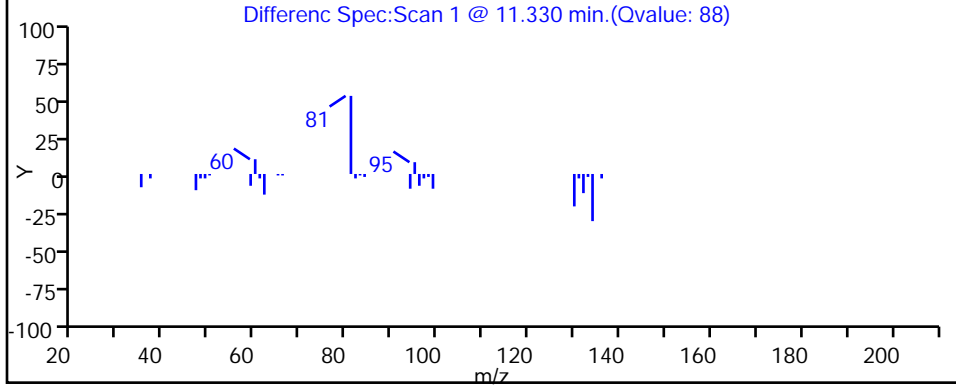
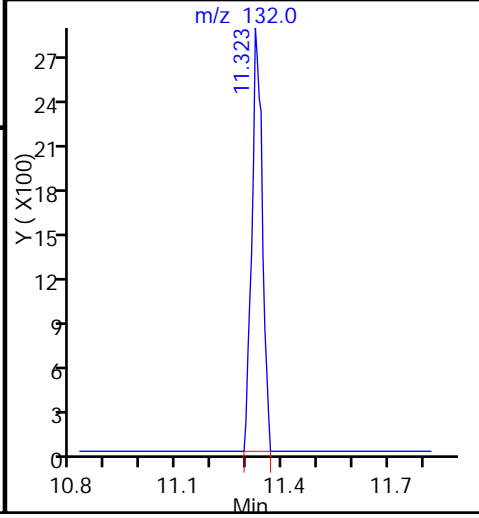
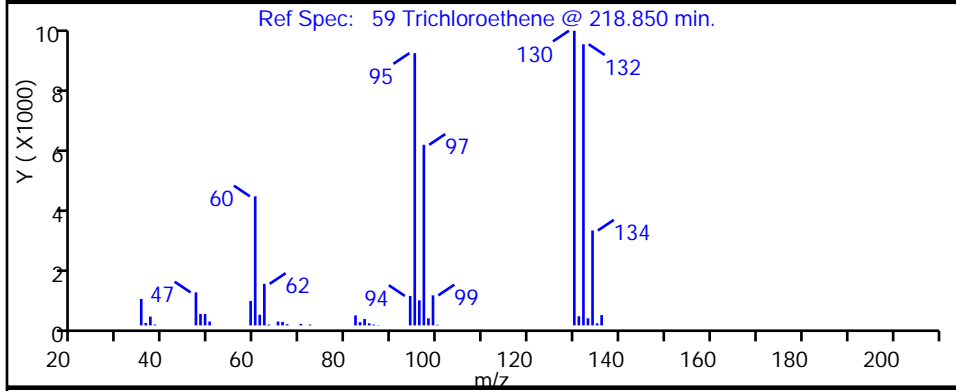
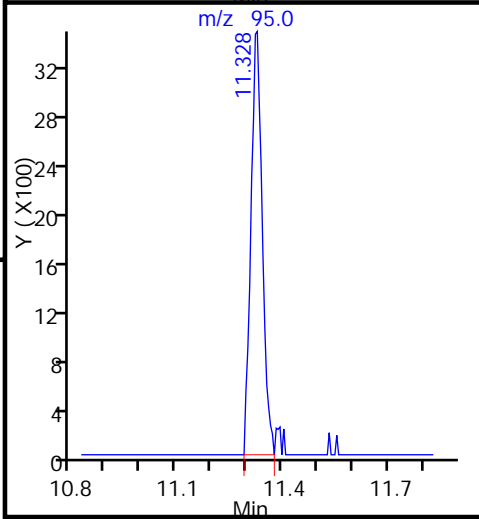
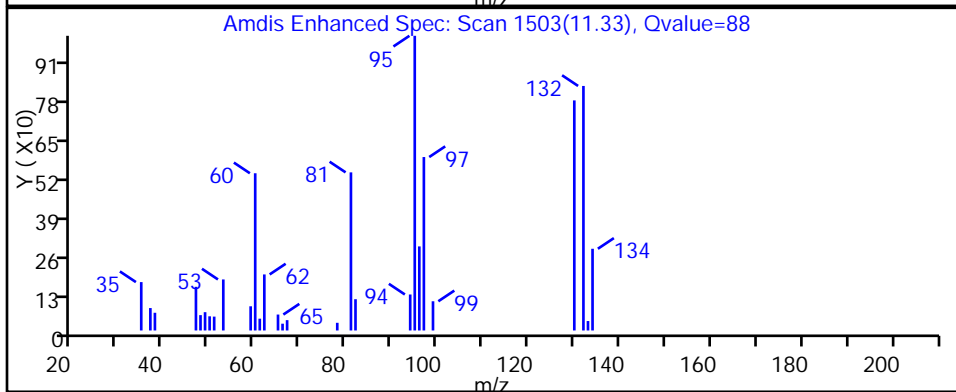
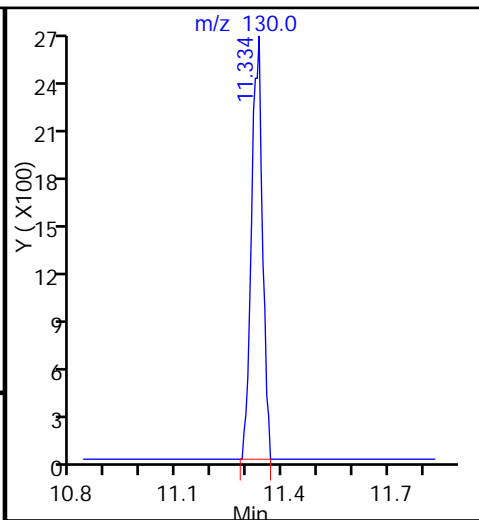
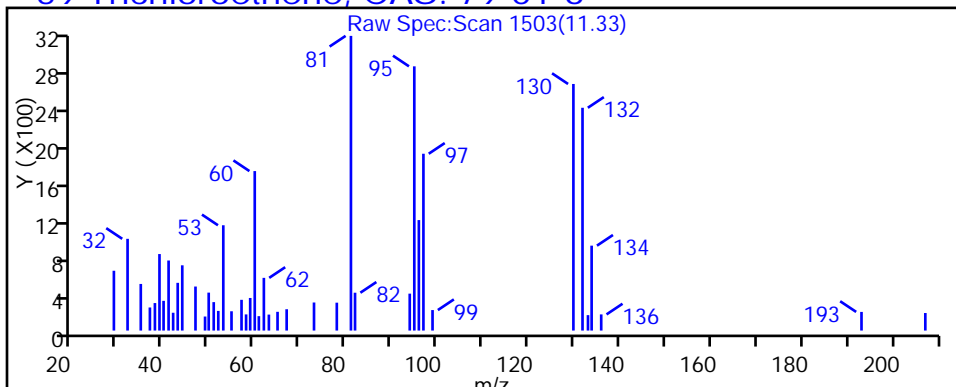
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

59 Trichloroethene, CAS: 79-01-6



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P112.D

Injection Date: 22-Sep-2016 00:42:30

Instrument ID: MG

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

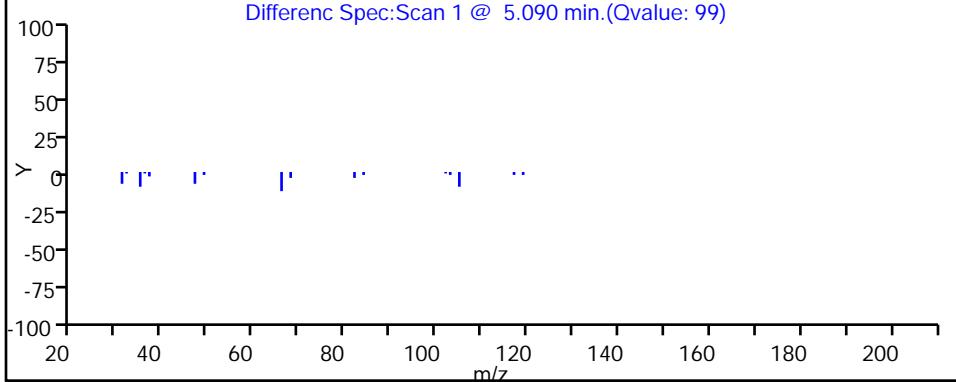
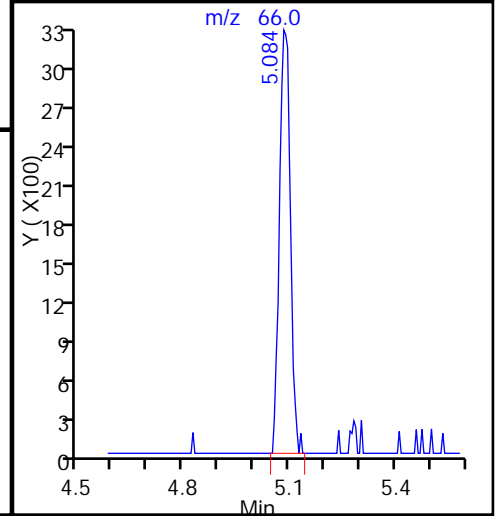
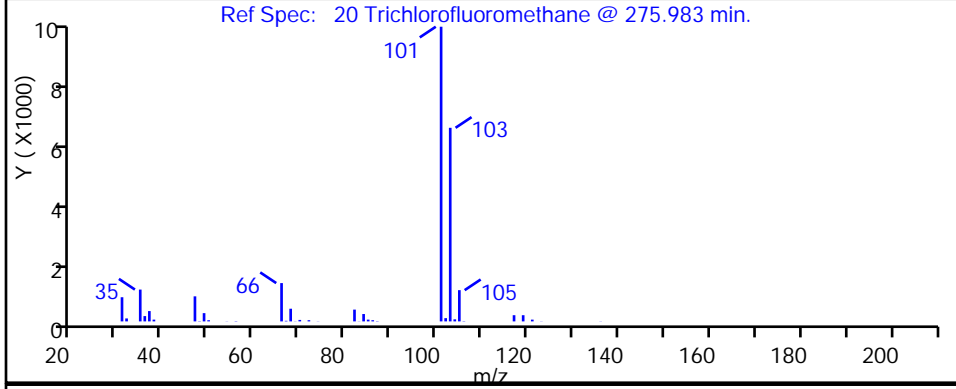
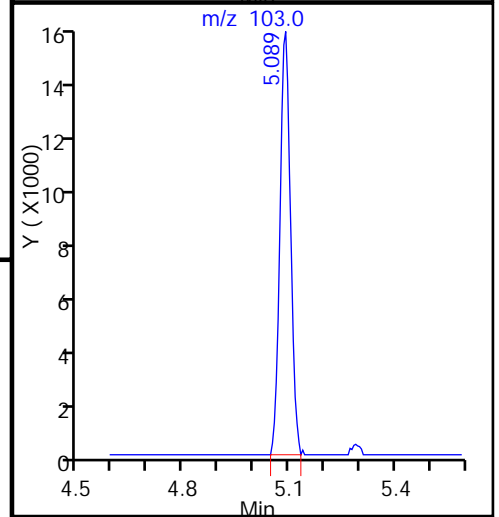
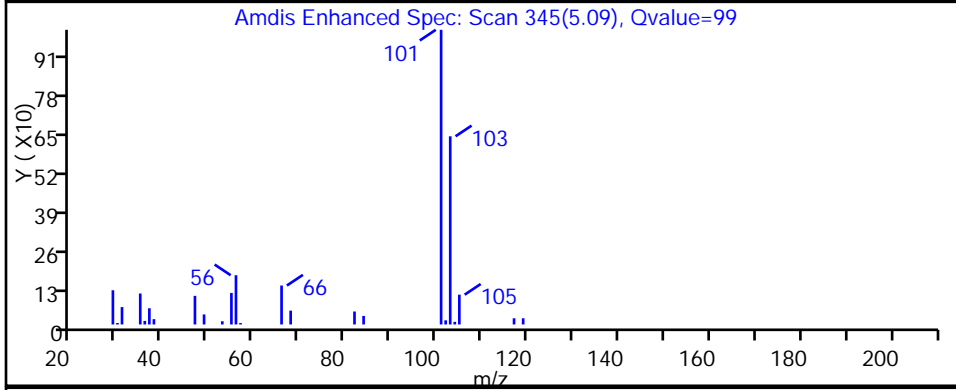
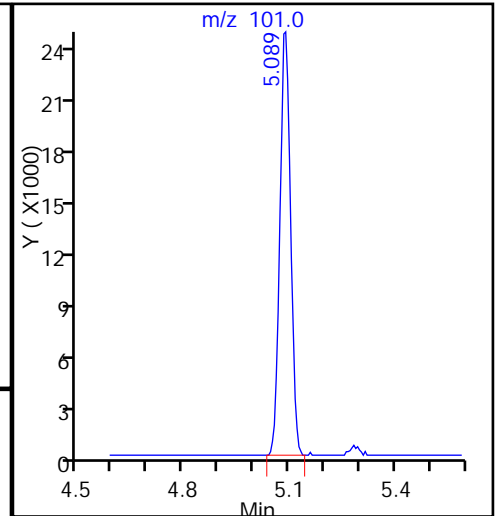
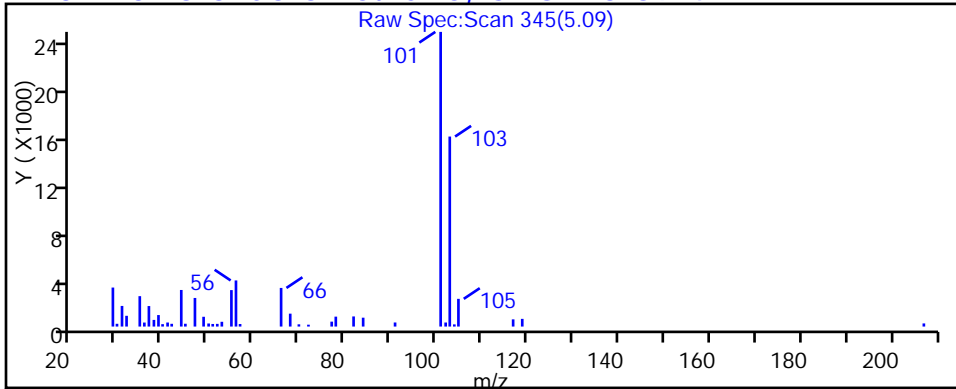
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-110 DL Lab Sample ID: 140-5852-12 DL
 Matrix: Air Lab File ID: JI22P202.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:57
 Sample wt/vol: 50 (mL) Date Analyzed: 09/23/2016 07:10
 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.: 6632 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	13	D	0.80
127-18-4	Tetrachloroethene	165.83	24	D	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-110 DL Lab Sample ID: 140-5852-12 DL
 Matrix: Air Lab File ID: JI22P202.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:57
 Sample wt/vol: 50 (mL) Date Analyzed: 09/23/2016 07:10
 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.: 6632 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	76	D	4.8
127-18-4	Tetrachloroethene	165.83	170	D	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P202.D
 Lims ID: 140-5852-A-12
 Client ID: VP-110
 Sample Type: Client
 Inject. Date: 23-Sep-2016 07:10:30 ALS Bottle#: 3 Worklist Smp#: 24
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-024
 Misc. Info.: 140-5852-a-12
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: tajh

Date: 23-Sep-2016 09:38:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.326	9.335	-0.009	96	218143	4.00	
* 2 1,4-Difluorobenzene	114	11.489	11.497	-0.008	97	906557	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.174	16.177	-0.003	92	827422	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.804	17.802	0.002	85	548023	4.49	
8 Dichlorodifluoromethane	85	3.990	3.998	-0.008	99	12886	0.0537	
17 Ethanol	31	5.060	5.074	-0.014	94	13391	1.59	
20 Trichlorofluoromethane	101	5.593	5.596	-0.003	95	6678	0.0301	
28 2-Methyl-2-propanol	59	6.437	6.430	0.007	94	6419	0.0565	
31 Methylene Chloride	84	6.696	6.709	-0.013	95	20616	0.3439	
39 2-Butanone (MEK)	72	8.546	8.555	-0.009	96	8777	0.4192	
40 Hexane	56	8.562	8.571	-0.009	47	3310	0.0582	
44 Chloroform	83	9.331	9.345	-0.014	38	16082	0.1101	
51 Benzene	78	10.961	10.975	-0.014	88	4334	0.0274	
65 4-Methyl-2-pentanone (MIBK	43	13.350	13.348	0.002	95	7356	0.0687	
68 Toluene	91	14.221	14.225	-0.003	91	25799	0.1464	
76 Tetrachloroethene	129	15.351	15.354	-0.003	90	201414	2.44	
79 Ethylbenzene	91	16.502	16.505	-0.003	97	8333	0.0415	
81 m-Xylene & p-Xylene	91	16.658	16.667	-0.009	97	25821	0.1656	
85 o-Xylene	91	17.185	17.189	-0.004	97	11272	0.0673	
92 1,3,5-Trimethylbenzene	120	18.390	18.501	-0.111	83	3185	0.0336	
96 1,2,4-Trimethylbenzene	105	18.928	18.926	0.002	98	16845	0.1049	
98 1,3-Dichlorobenzene	146	19.283	19.201	0.082	96	88762	1.08	
100 1,4-Dichlorobenzene	146	19.283	19.287	-0.004	90	88762	1.26	

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\J122P202.D

Injection Date: 23-Sep-2016 07:10:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Worklist Smp#: 24

Client ID: VP-110

Purge Vol: 500.000 mL

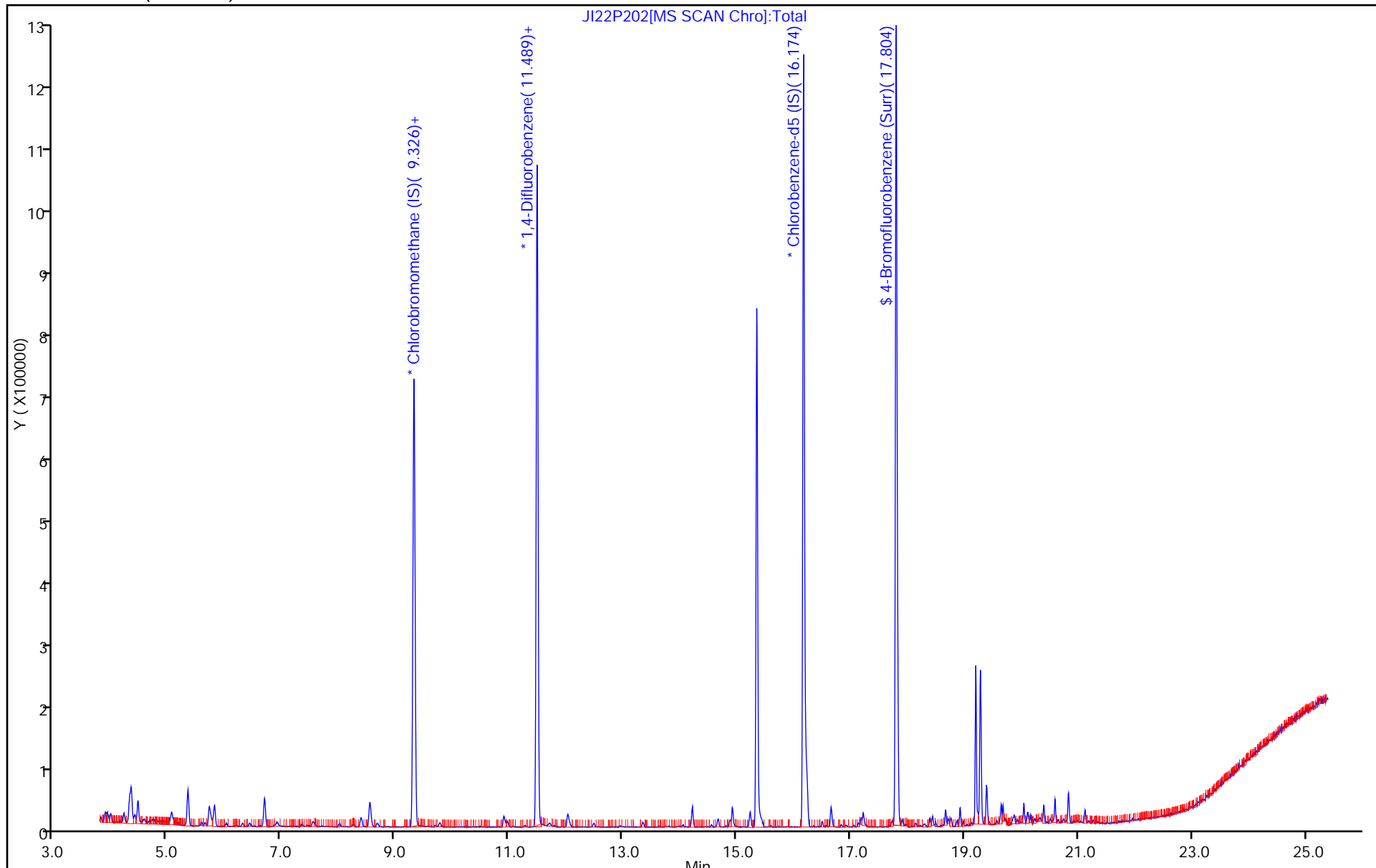
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P202.D
 Lims ID: 140-5852-A-12
 Client ID: VP-110
 Sample Type: Client
 Inject. Date: 23-Sep-2016 07:10:30 ALS Bottle#: 3 Worklist Smp#: 24
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-024
 Misc. Info.: 140-5852-a-12
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: tajh Date: 23-Sep-2016 09:38:13

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.49	112.15

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JI22P202.D

Injection Date: 23-Sep-2016 07:10:30

Instrument ID: MJ

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

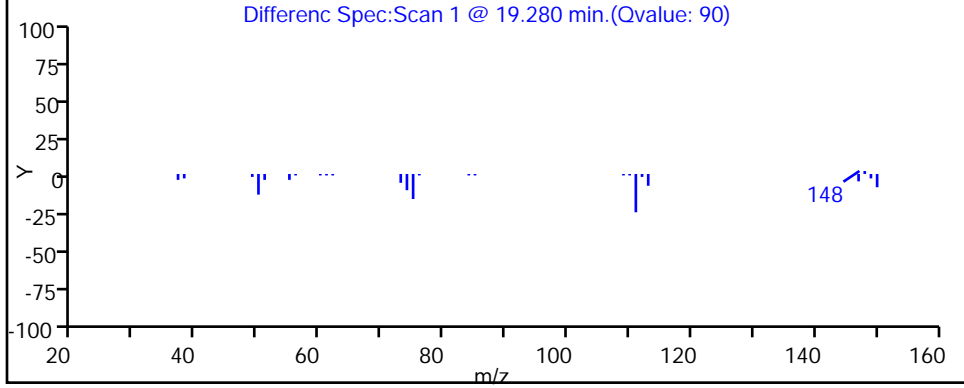
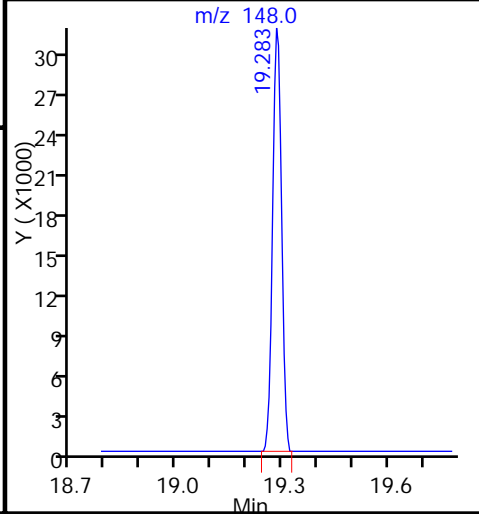
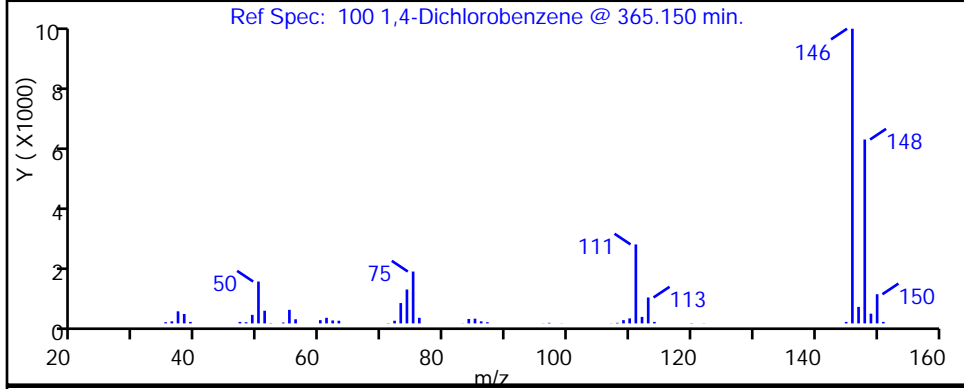
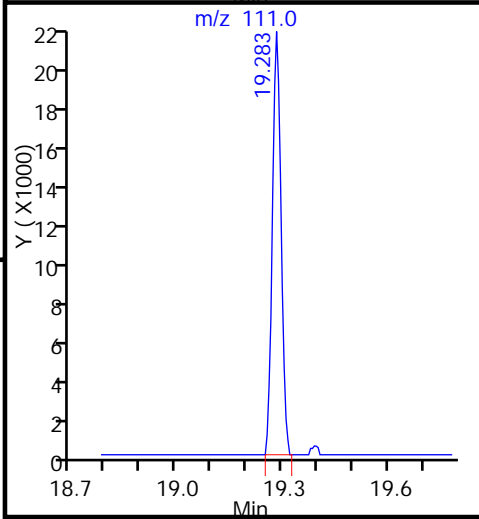
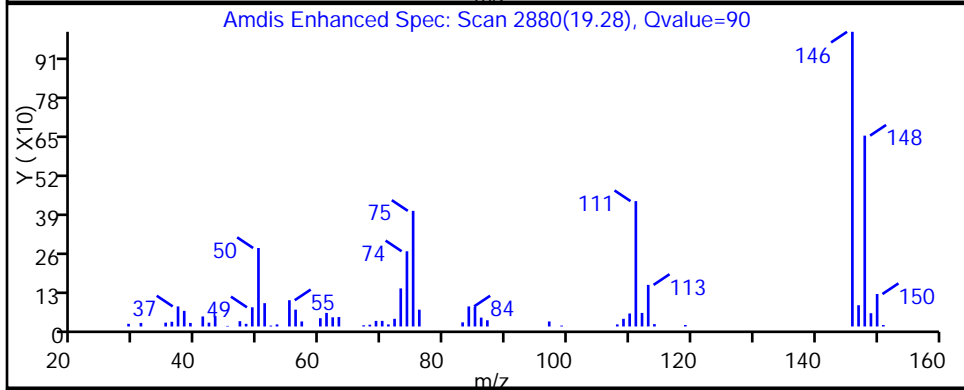
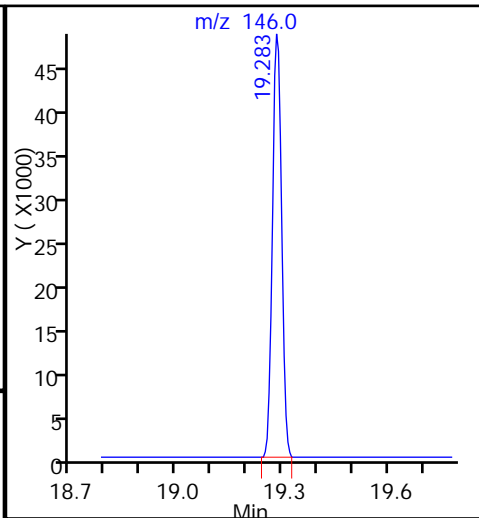
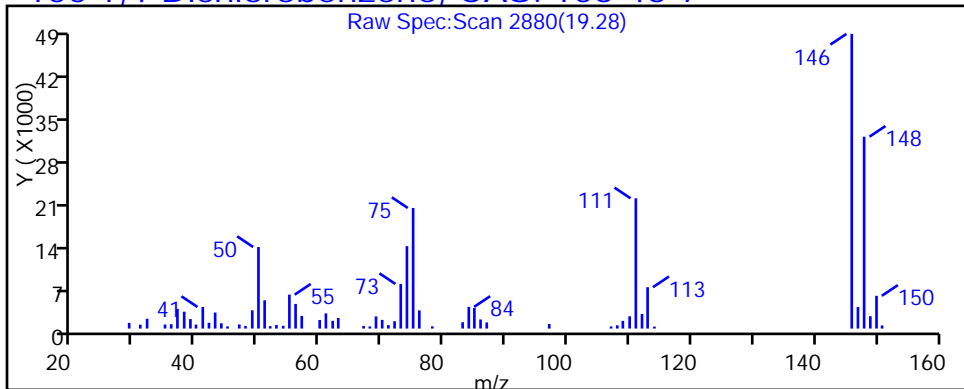
Method: MJ_TO15

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\20160920-3446.b\JI22P202.D

Injection Date: 23-Sep-2016 07:10:30

Instrument ID: MJ

Lims ID: 140-5852-A-12

Lab Sample ID: 140-5852-12

Client ID: VP-110

Operator ID: 7126

ALS Bottle#: 3 Worklist Smp#: 24

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

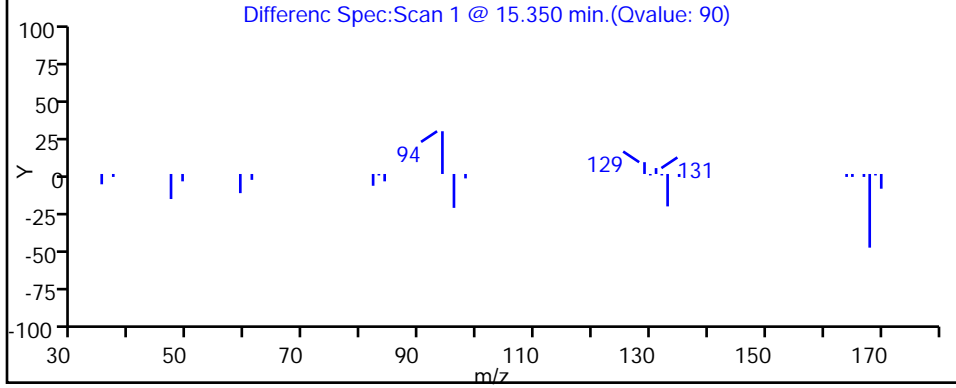
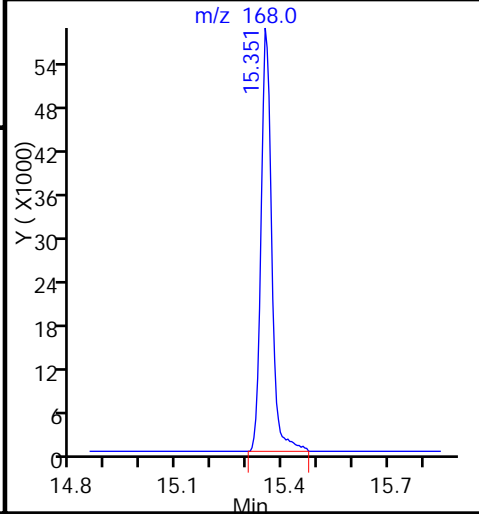
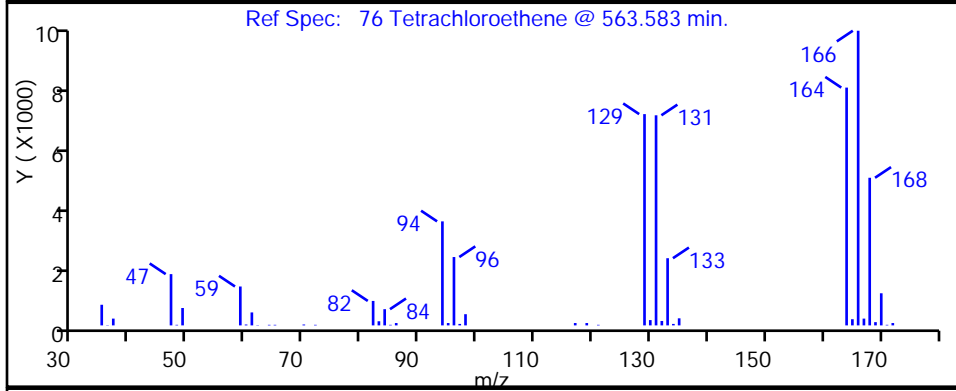
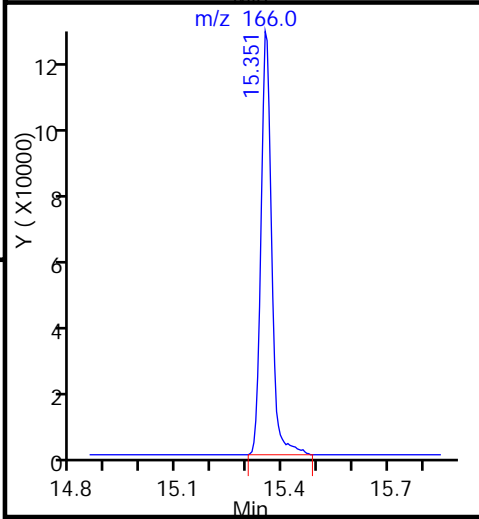
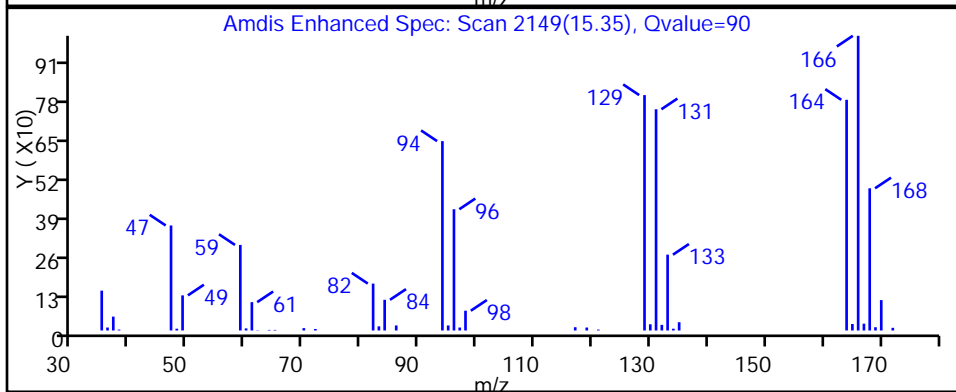
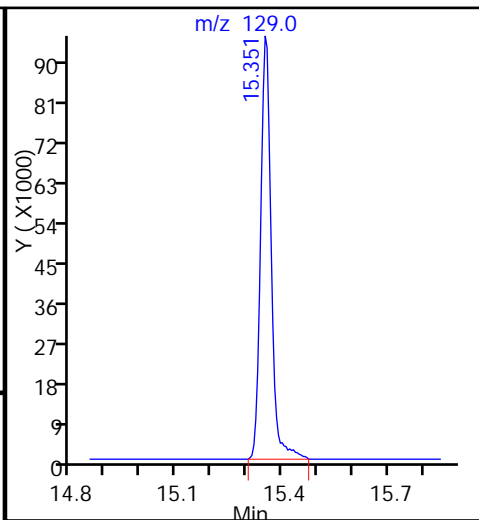
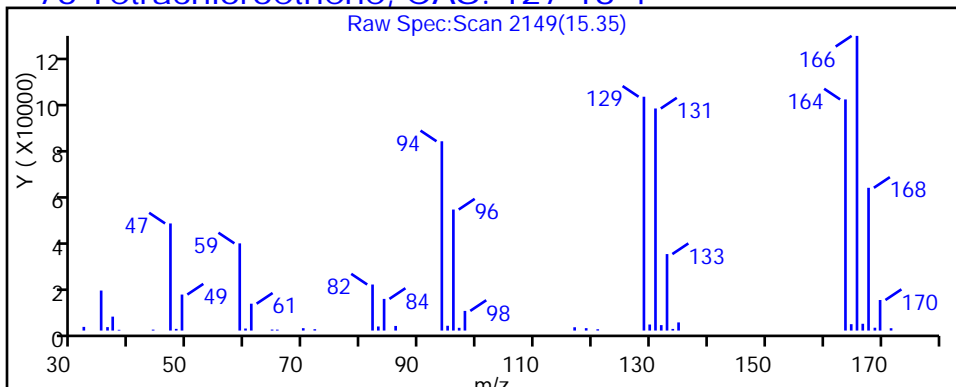
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-125 Lab Sample ID: 140-5852-13
 Matrix: Air Lab File ID: GI21P113.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:05
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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	0.085		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	1.7		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	0.34		0.080	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080	
106-46-7	1,4-Dichlorobenzene	147.00	2.9		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	1.1		0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.6		0.20	
71-43-2	Benzene	78.11	0.47		0.080	
100-44-7	Benzyl chloride	126.58	ND		0.16	
75-27-4	Bromodichloromethane	163.83	0.37		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	8.2		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-125 Lab Sample ID: 140-5852-13
 Matrix: Air Lab File ID: GI21P113.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:05
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	
124-48-1	Dibromochloromethane	208.29	0.16		0.080	
75-71-8	Dichlorodifluoromethane	120.91	0.55		0.080	
64-17-5	Ethanol	46.07	ND	*	2.0	
100-41-4	Ethylbenzene	106.17	0.71		0.080	
87-68-3	Hexachlorobutadiene	260.76	ND		0.080	
110-54-3	Hexane	86.17	0.27		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	0.47		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	2.6		0.080	
95-47-6	o-Xylene	106.17	0.95		0.080	
100-42-5	Styrene	104.15	0.83		0.080	
75-65-0	t-Butyl alcohol	74.12	ND		0.32	
127-18-4	Tetrachloroethene	165.83	2.6		0.080	
108-88-3	Toluene	92.14	1.9		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	0.30		0.080	
75-01-4	Vinyl chloride	62.50	ND		0.040	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-125 Lab Sample ID: 140-5852-13
 Matrix: Air Lab File ID: GI21P113.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:05
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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	0.35		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	8.5		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	1.7		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	17		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	3.3		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	11		0.82
71-43-2	Benzene	78.11	1.5		0.26
100-44-7	Benzyl chloride	126.58	ND		0.83
75-27-4	Bromodichloromethane	163.83	2.5		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	40		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-125 Lab Sample ID: 140-5852-13
 Matrix: Air Lab File ID: GI21P113.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:05
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 01:31
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	1.4		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.7		0.40
64-17-5	Ethanol	46.07	ND	*	3.8
100-41-4	Ethylbenzene	106.17	3.1		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	0.96		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	11		0.35
95-47-6	o-Xylene	106.17	4.1		0.35
100-42-5	Styrene	104.15	3.5		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	18		0.54
108-88-3	Toluene	92.14	7.1		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	1.7		0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D
 Lims ID: 140-5852-A-13
 Client ID: VP-125
 Sample Type: Client
 Inject. Date: 22-Sep-2016 01:31:30 ALS Bottle#: 13 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-017
 Misc. Info.: 140-5852-a-13
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:38:50 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 12:40:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.449	8.454	-0.005	90	249256	4.00	
* 2 1,4-Difluorobenzene	114	10.611	10.617	-0.006	96	1234212	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.394	15.394	0.000	92	1155780	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	93	877009	4.35	
8 Dichlorodifluoromethane	85	3.757	3.758	-0.001	100	118054	0.5508	
9 Chloromethane	52	3.930	3.919	0.011	85	886	0.0365	7
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.930	0.000	93	1877	0.0140	
16 Chloroethane	64	4.566	4.566	0.000	17	611	0.0161	
20 Trichlorofluoromethane	101	5.095	5.095	0.000	99	60615	0.3010	
30 1,1,2-Trichloro-1,2,2-trif	101	5.914	5.909	0.005	90	8950	0.0727	
31 Methylene Chloride	84	6.055	6.055	-0.001	89	28321	0.4668	
36 Methyl tert-butyl ether	73	6.950	6.934	0.016	90	14205	0.0735	
37 1,1-Dichloroethane	63	7.208	7.203	0.005	99	12701	0.0853	
39 2-Butanone (MEK)	72	7.721	7.721	0.000	100	40480	1.11	
40 Hexane	56	7.775	7.775	0.000	86	17999	0.2733	
44 Chloroform	83	8.470	8.476	-0.006	96	1366507	8.21	
47 1,1,1-Trichloroethane	97	9.468	9.463	0.005	95	7109	0.0387	
49 Benzene	78	10.056	10.056	0.000	97	107593	0.4748	
50 Cyclohexane	69	10.056	10.067	-0.011	41	3615	0.0932	
52 Carbon tetrachloride	117	10.083	10.088	-0.005	82	6122	0.0343	
56 Isooctane	57	10.854	10.854	0.000	72	10814	0.0253	
59 Trichloroethene	130	11.334	11.334	0.000	88	3769	0.0330	
61 Dichlorobromomethane	83	11.555	11.555	0.000	98	65944	0.3746	
65 4-Methyl-2-pentanone (MIBK	43	12.515	12.520	-0.005	98	517676	2.61	
68 Toluene	91	13.404	13.405	0.000	93	474232	1.88	
74 Chlorodibromomethane	129	14.181	14.181	0.000	98	25118	0.1588	
76 Tetrachloroethene	129	14.558	14.564	-0.006	92	261892	2.59	
79 Ethylbenzene	91	15.739	15.739	0.000	99	237084	0.7081	
81 m-Xylene & p-Xylene	91	15.906	15.907	-0.001	98	685294	2.65	
83 Bromoform	173	16.338	16.338	0.000	94	4981	0.0289	
84 Styrene	104	16.376	16.370	0.005	97	141947	0.8287	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
85 o-Xylene	91	16.435	16.435	0.000	96	264249	0.9510	
92 1,3,5-Trimethylbenzene	120	17.821	17.821	0.000	91	59535	0.3366	
96 1,2,4-Trimethylbenzene	105	18.268	18.268	0.000	98	560612	1.73	
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	93	574978	2.85	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Worklist Smp#: 17

Client ID: VP-125

Purge Vol: 500.000 mL

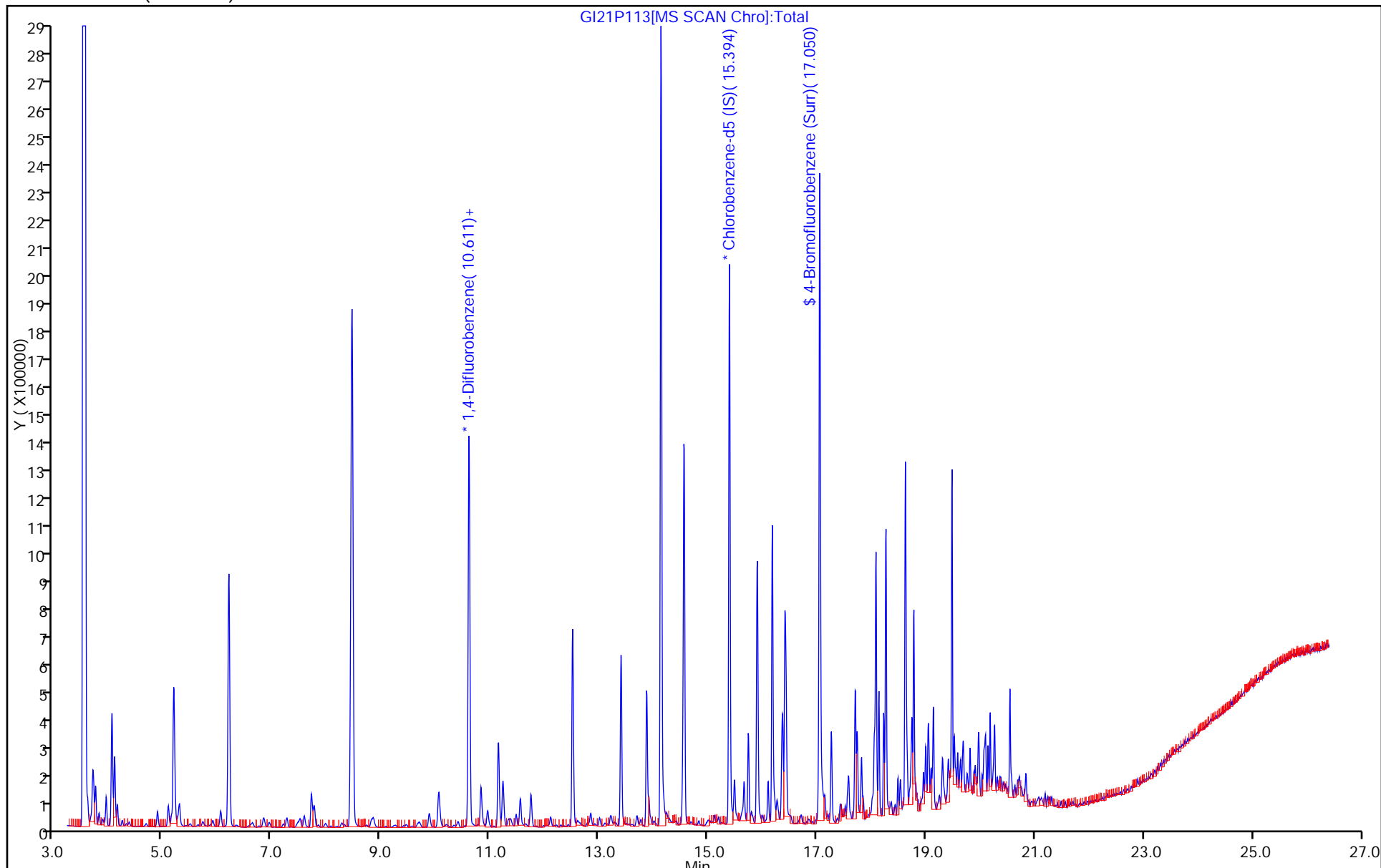
Dil. Factor: 1.0000

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\20160919-3444.b\GI21P113.D
 Lims ID: 140-5852-A-13
 Client ID: VP-125
 Sample Type: Client
 Inject. Date: 22-Sep-2016 01:31:30 ALS Bottle#: 13 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-017
 Misc. Info.: 140-5852-a-13
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:38:50 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 12:40:43

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.35	108.67

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

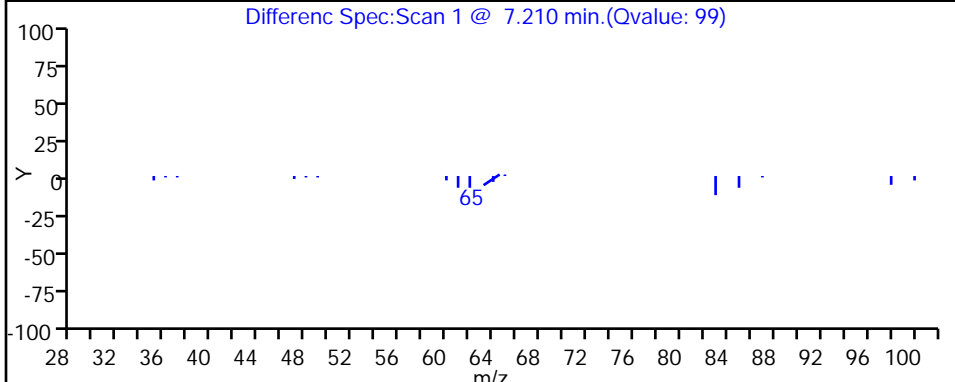
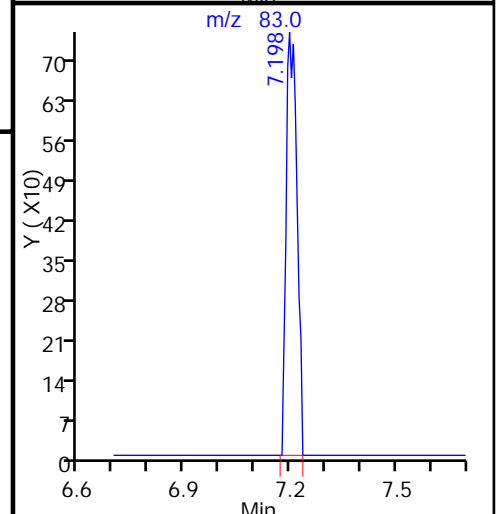
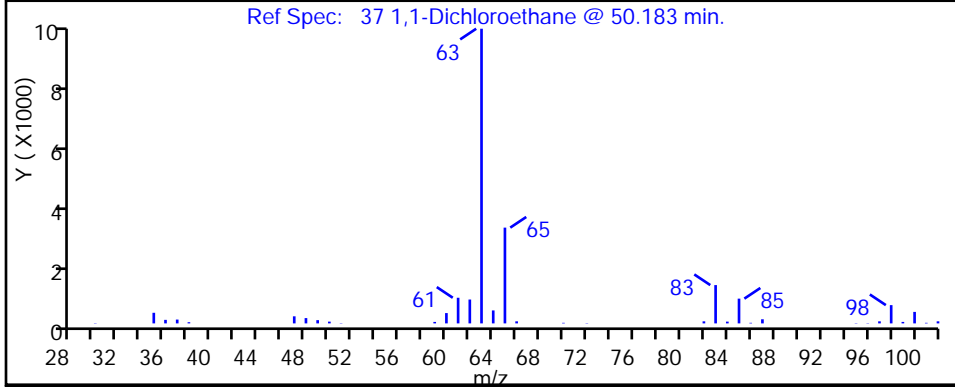
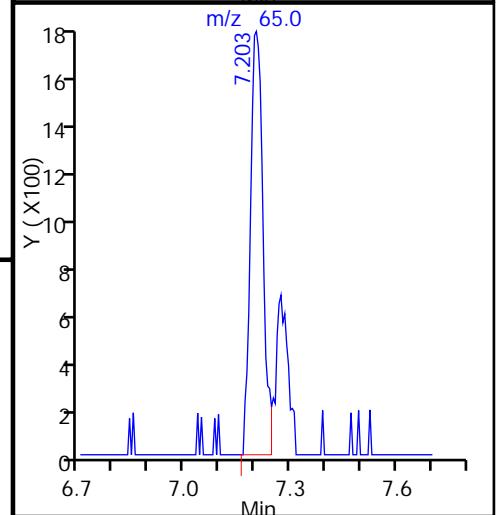
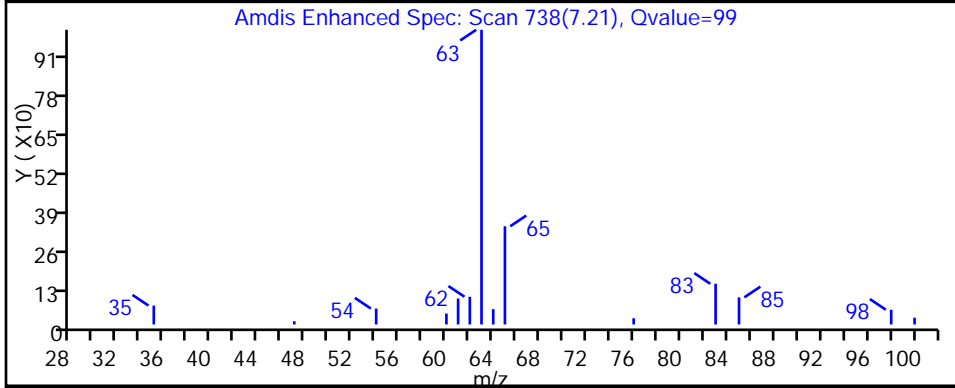
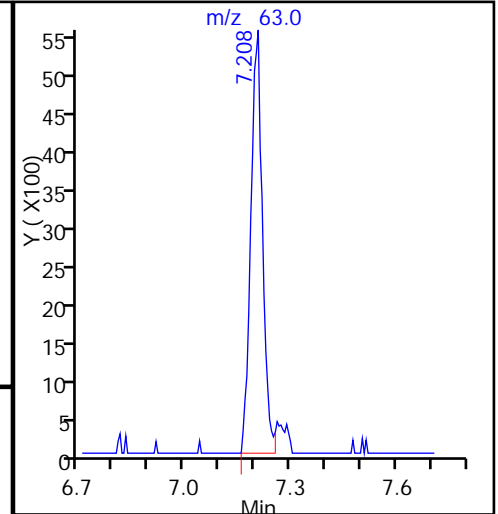
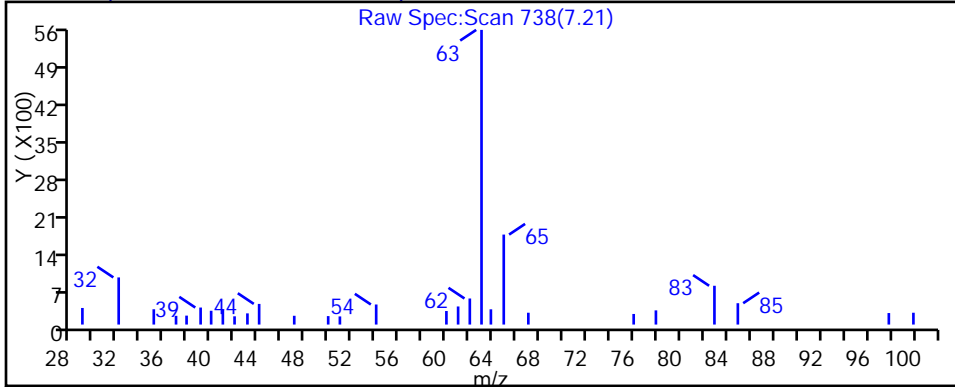
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

37 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

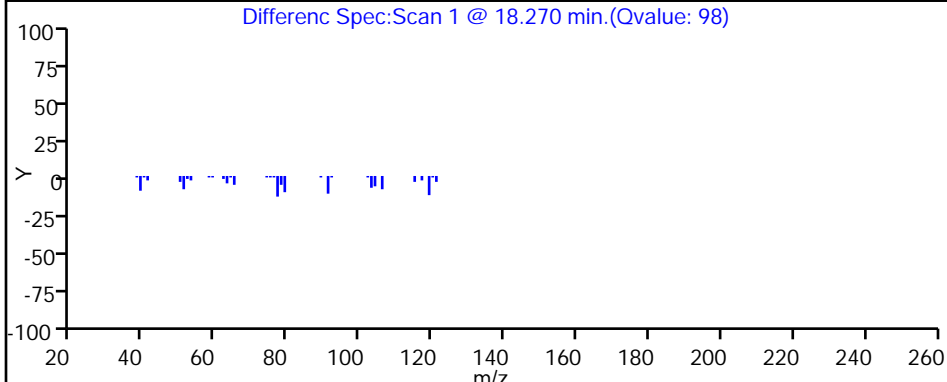
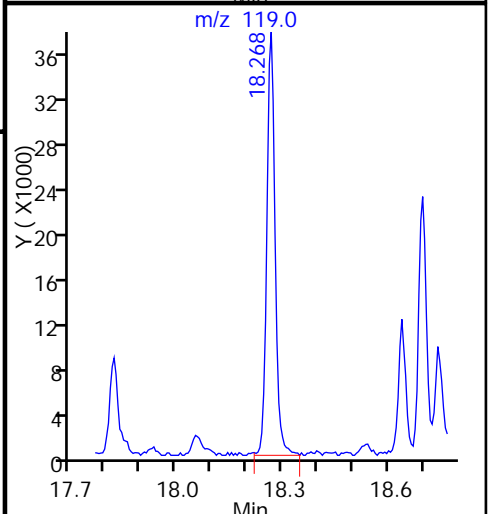
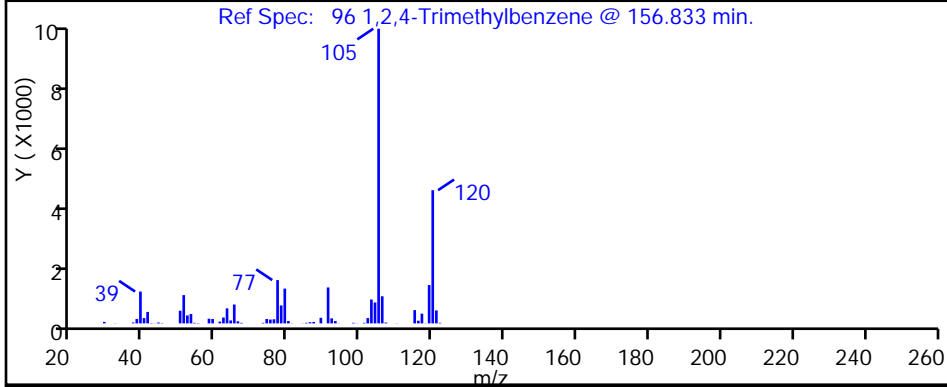
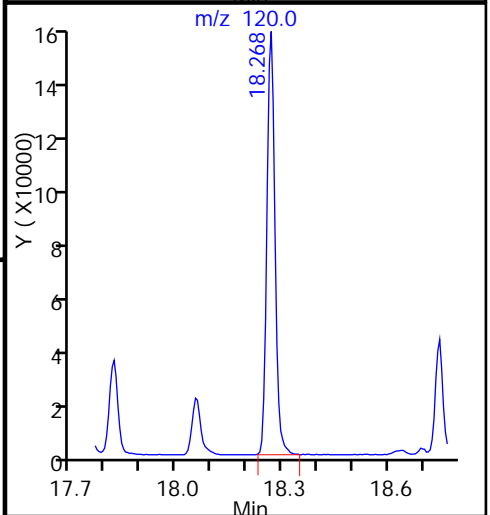
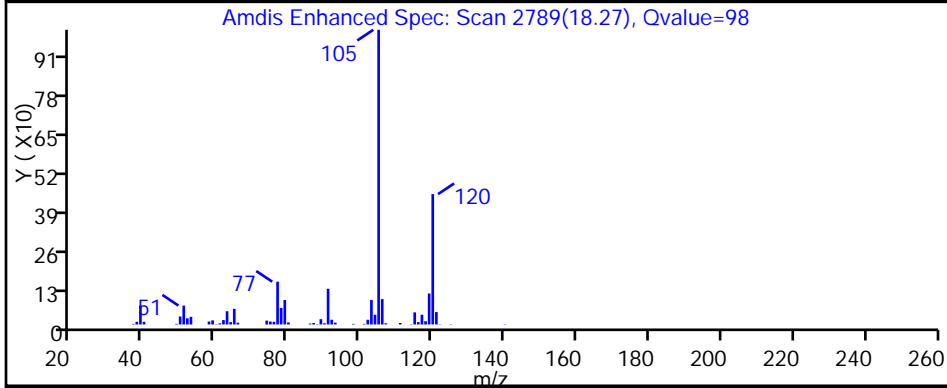
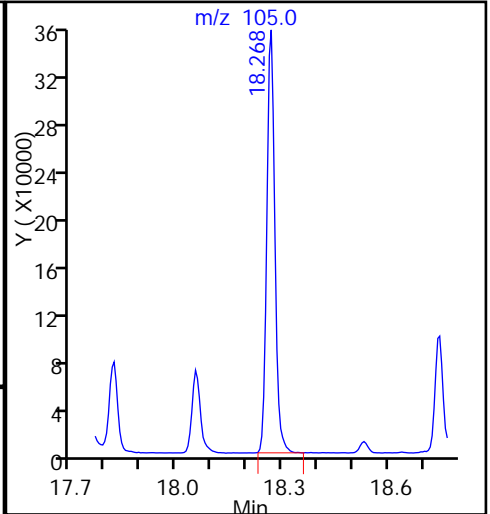
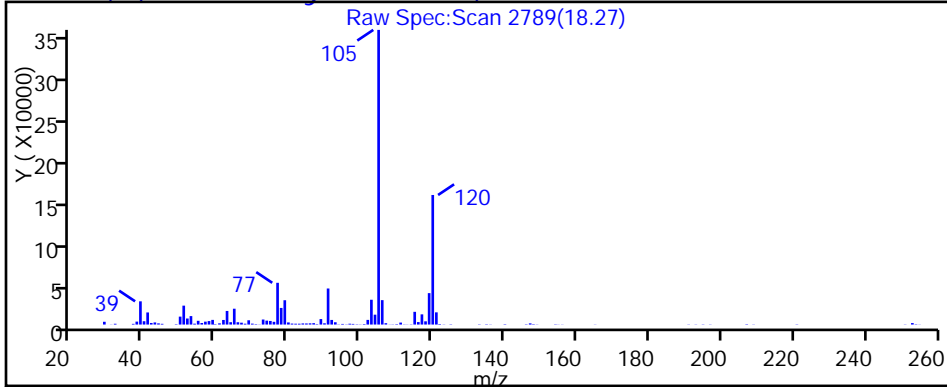
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

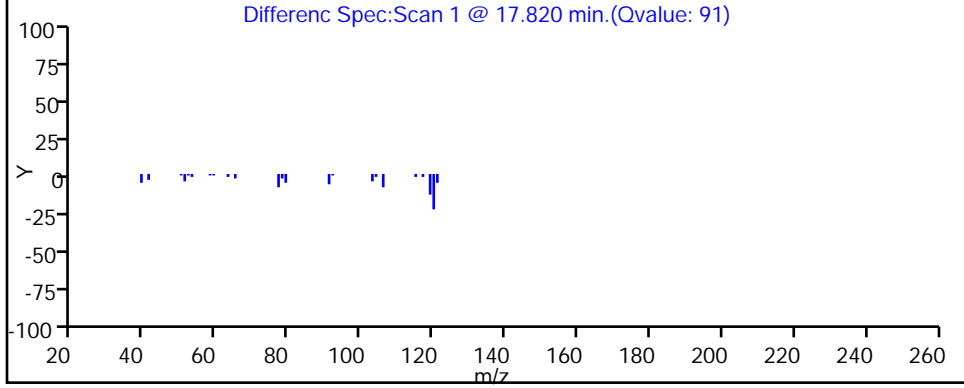
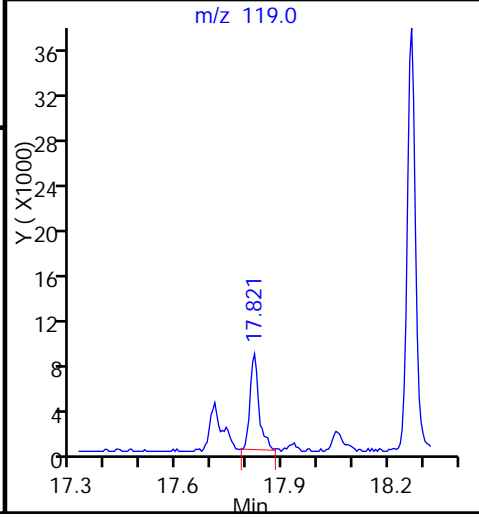
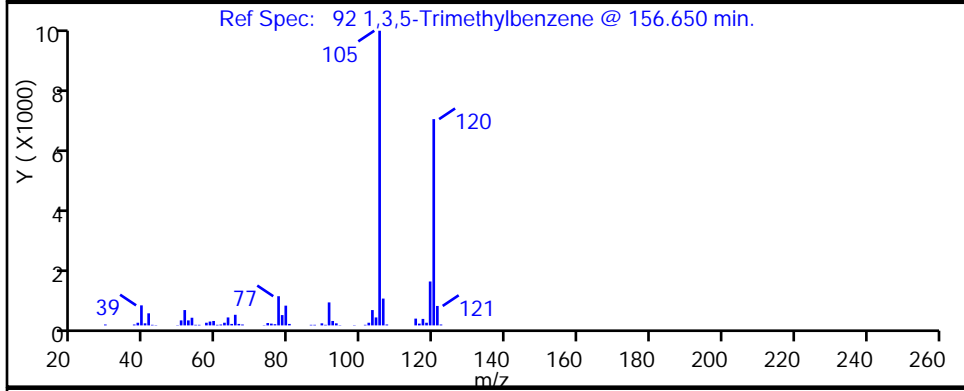
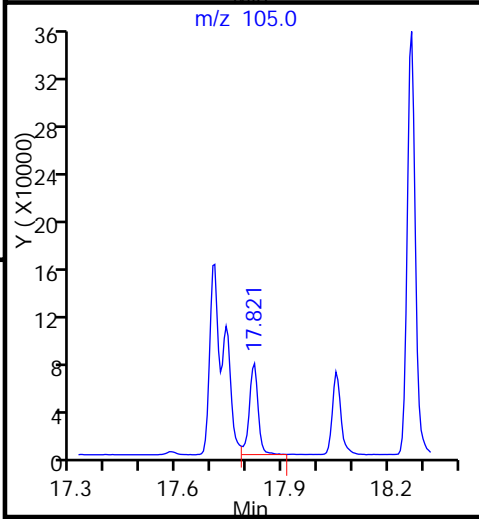
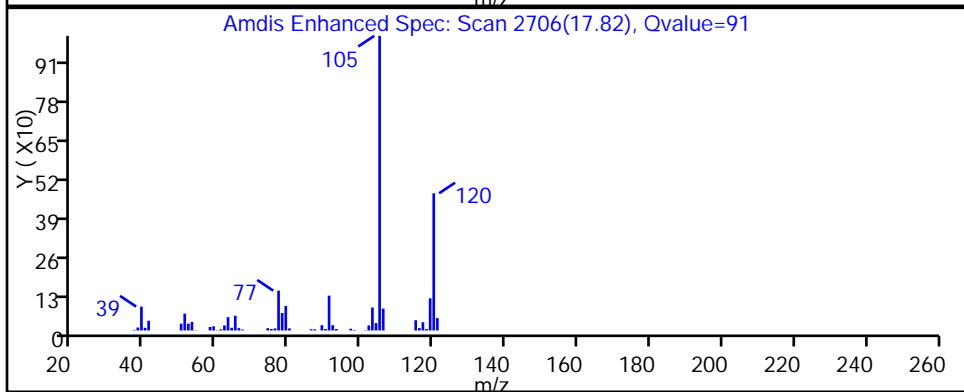
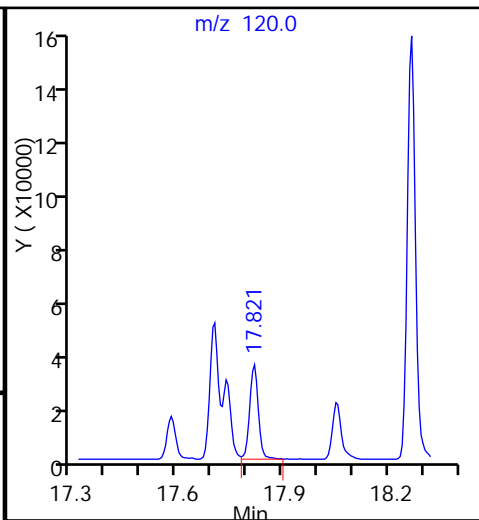
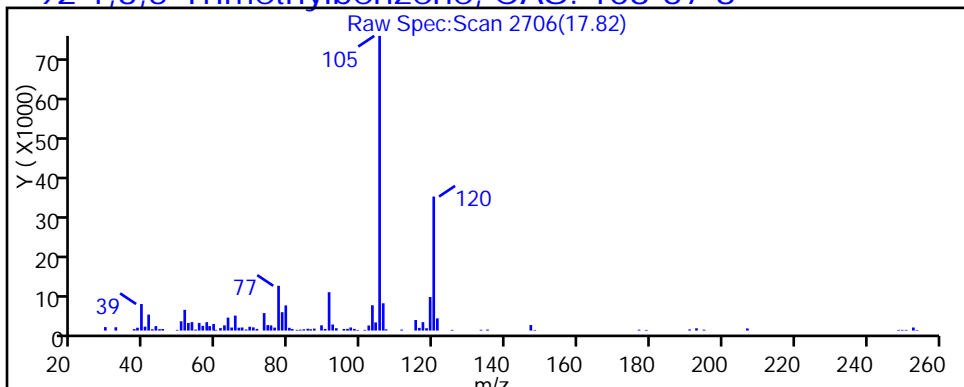
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

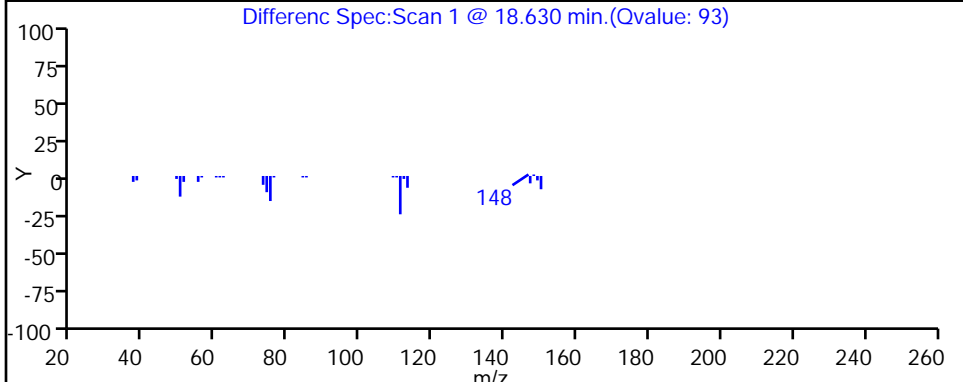
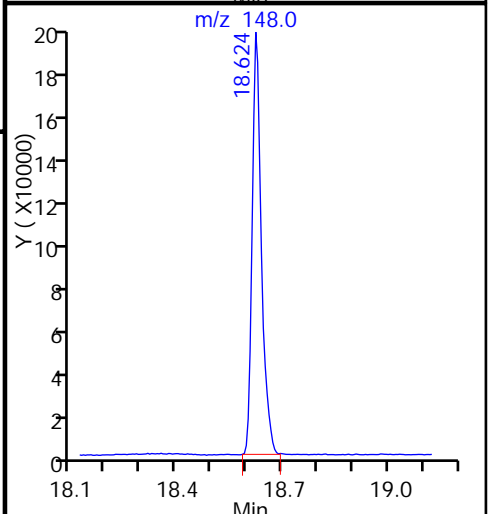
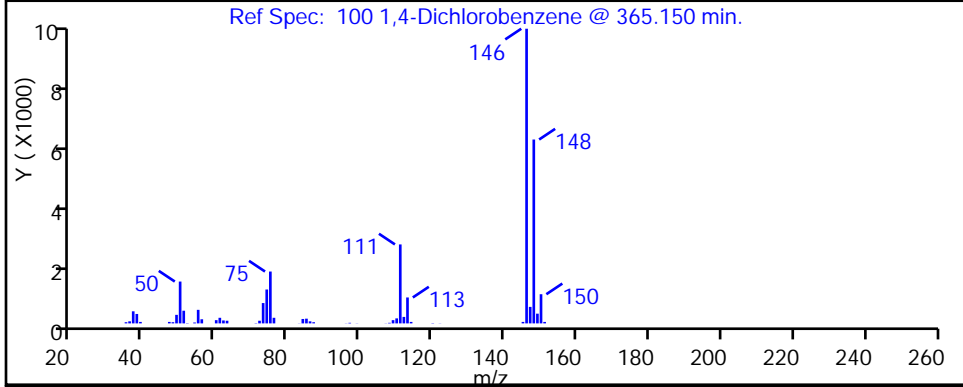
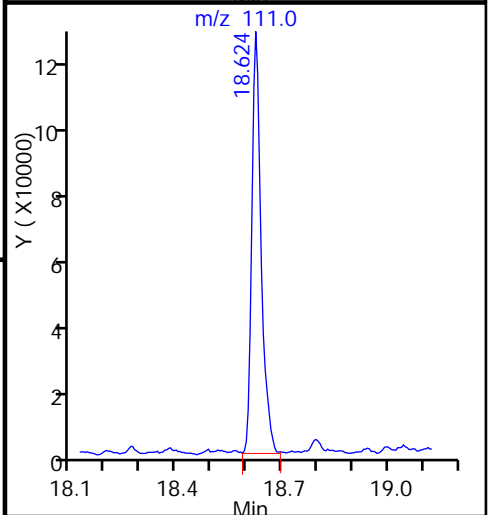
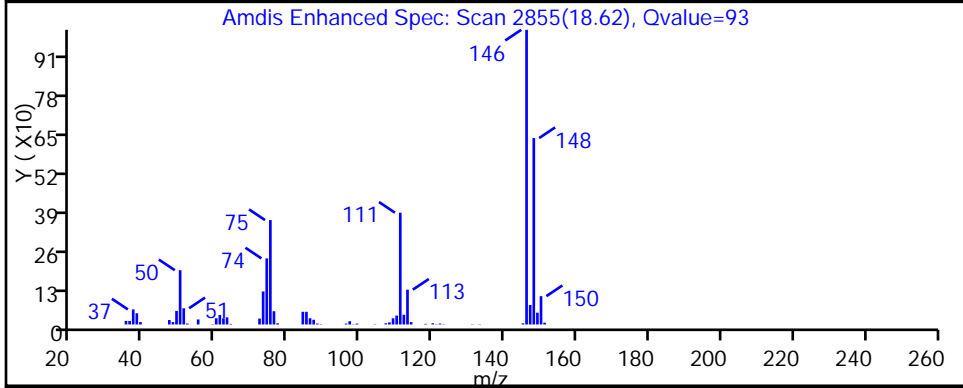
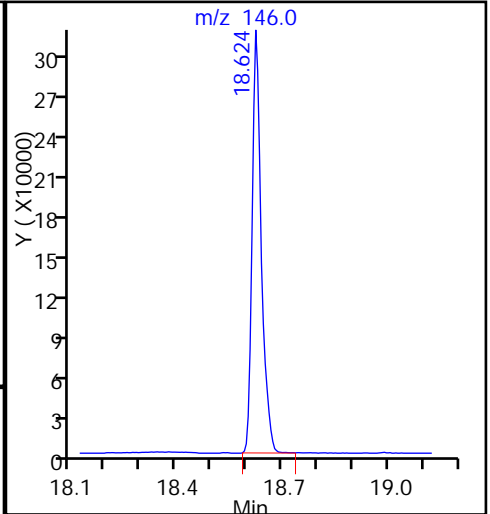
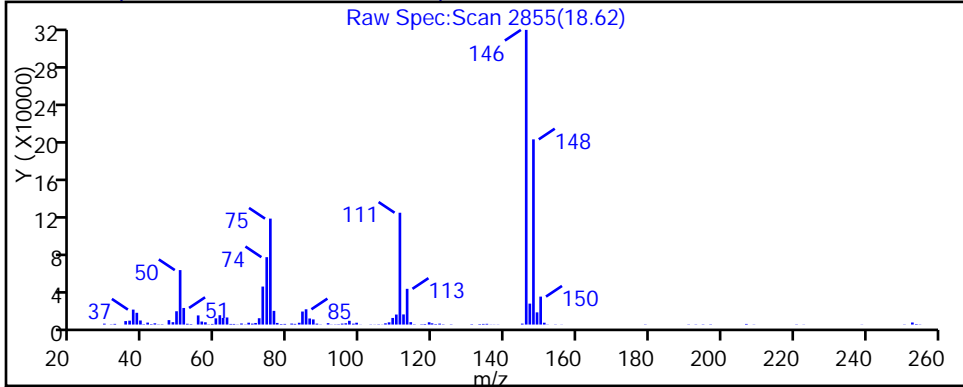
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

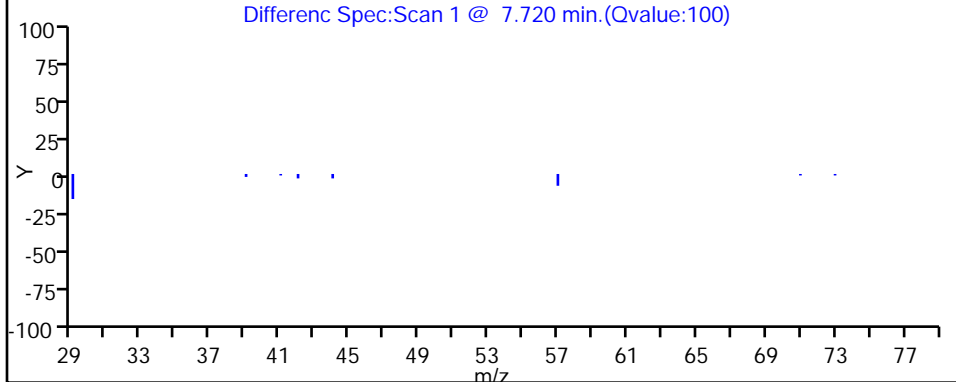
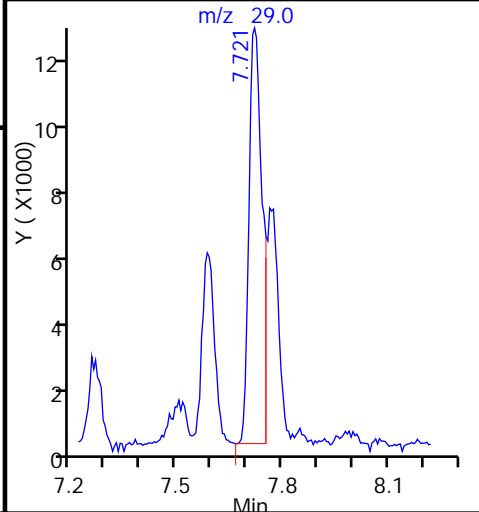
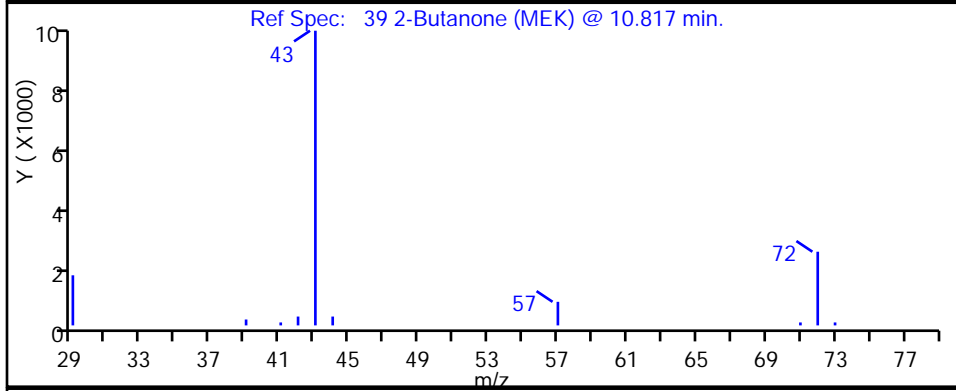
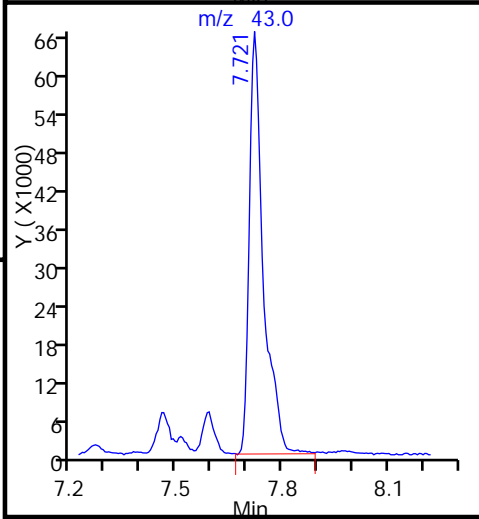
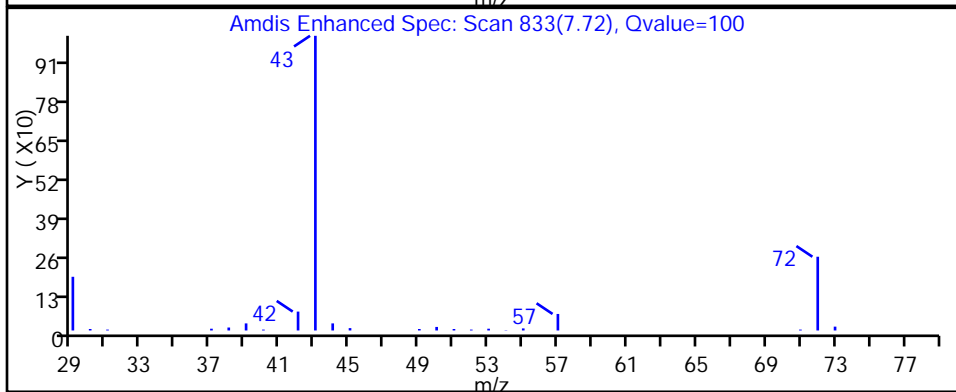
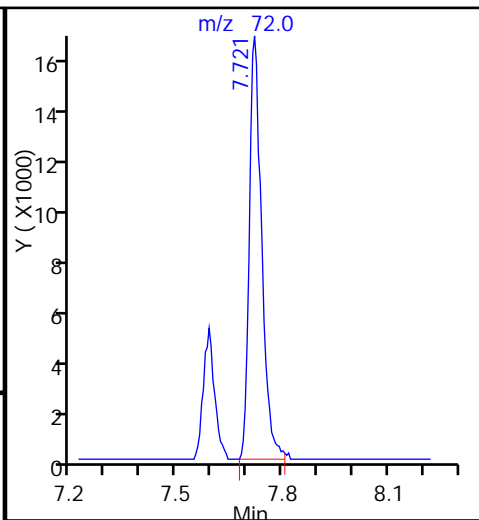
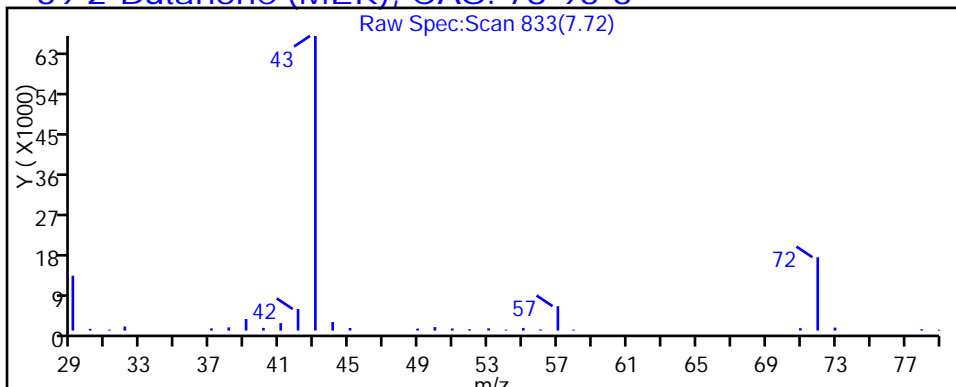
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

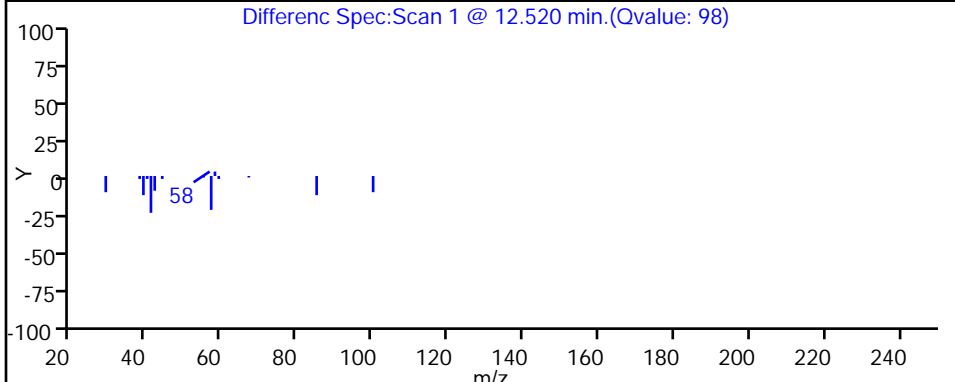
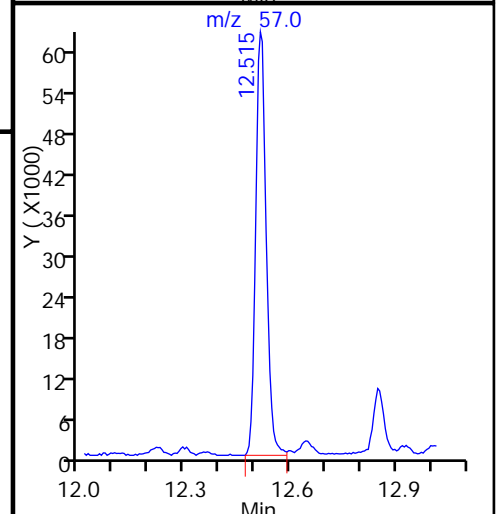
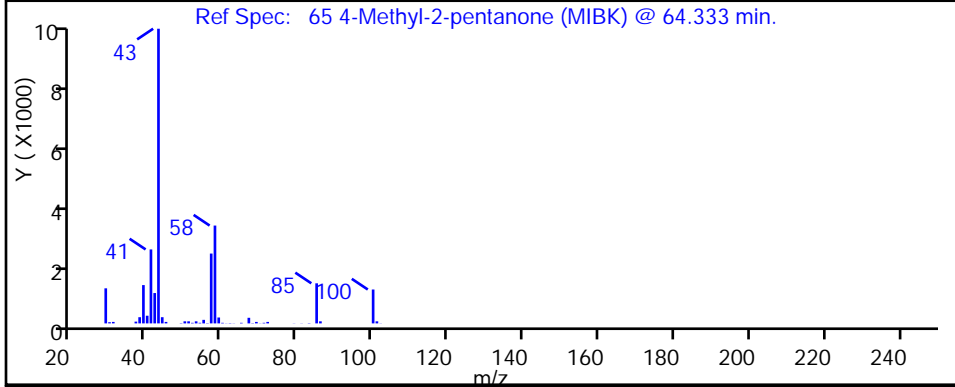
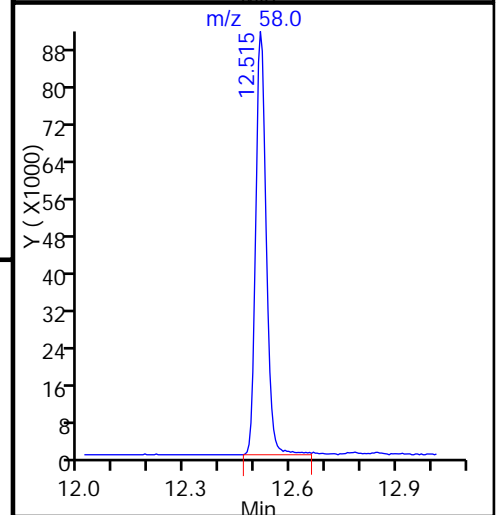
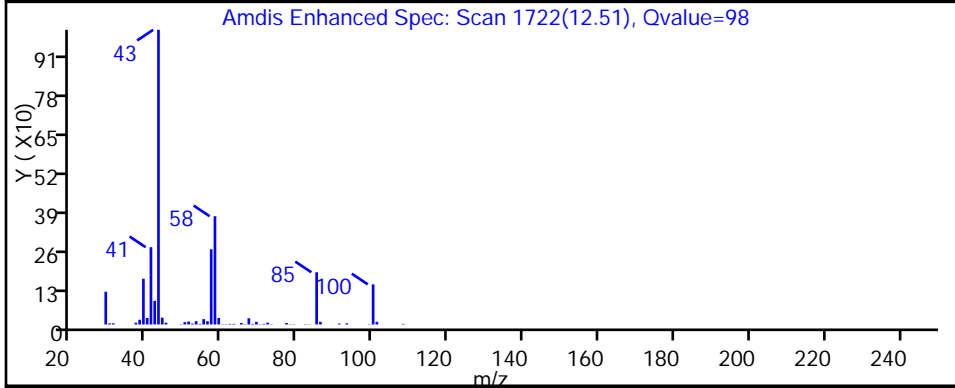
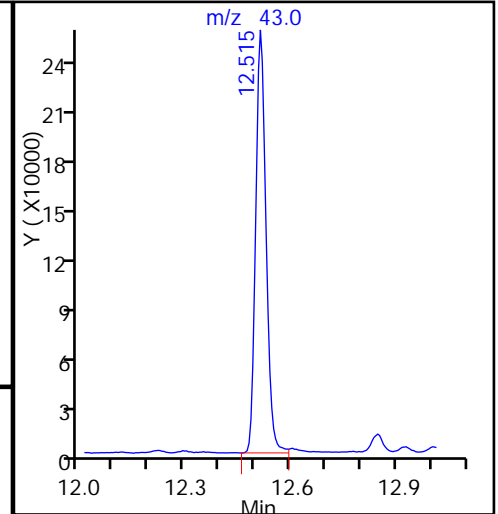
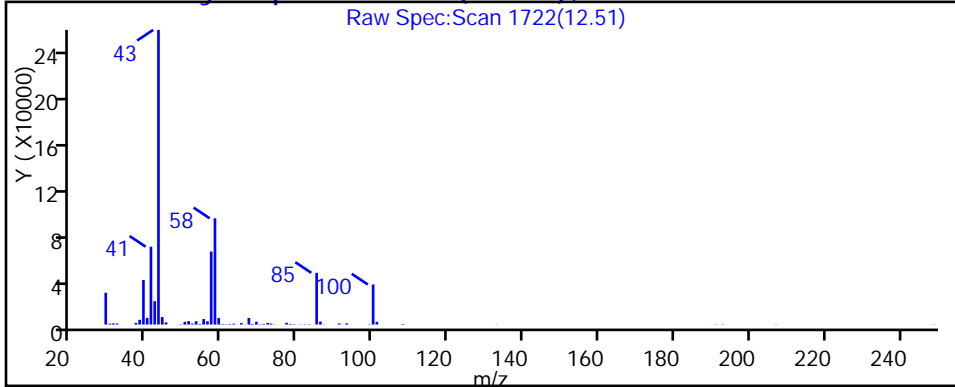
Method: MG_TO15

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

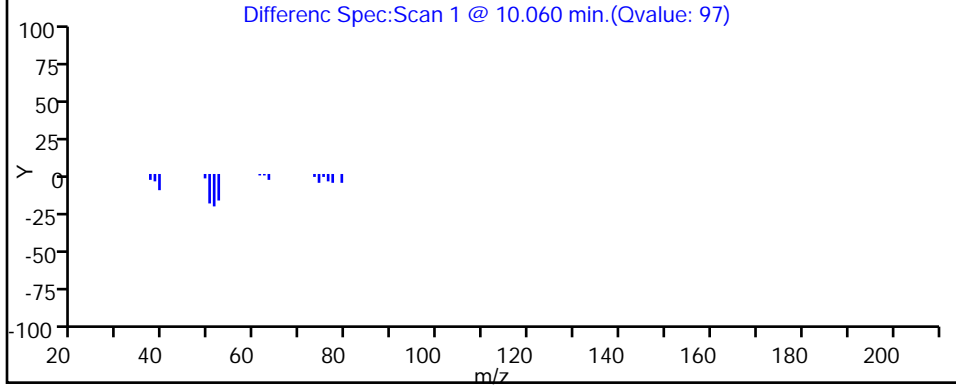
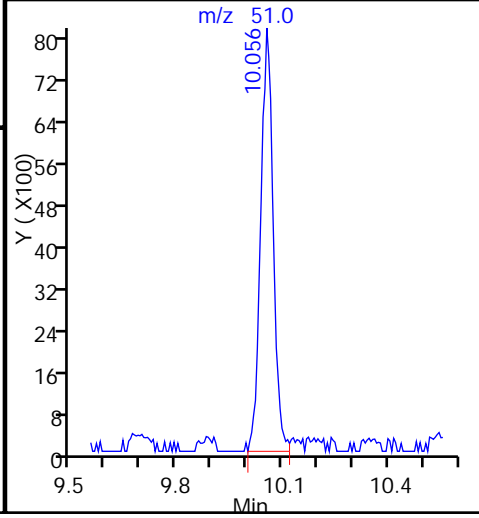
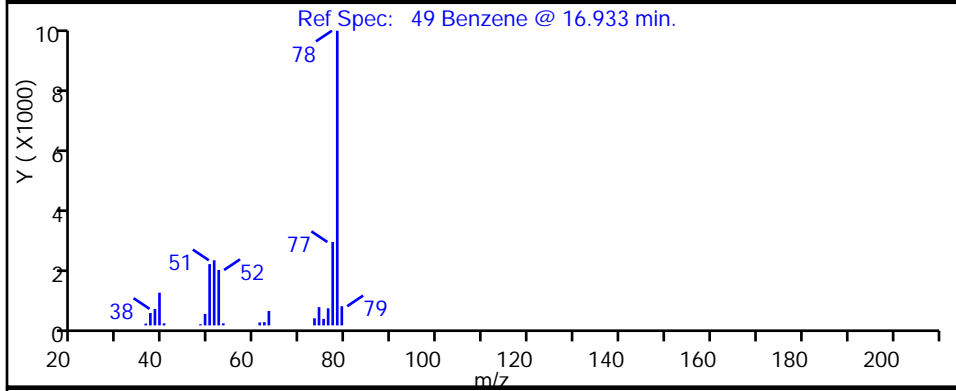
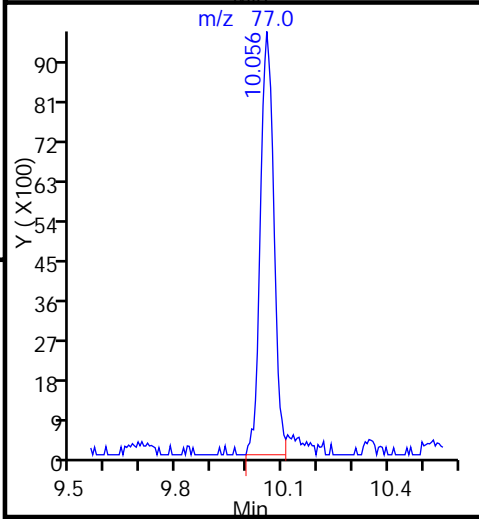
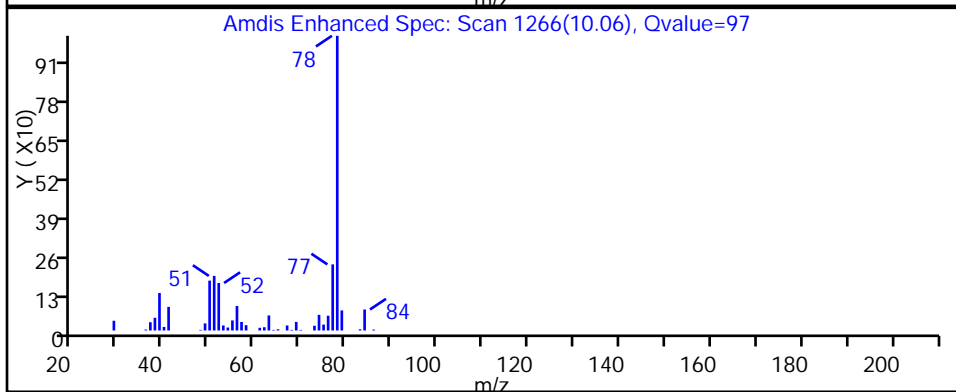
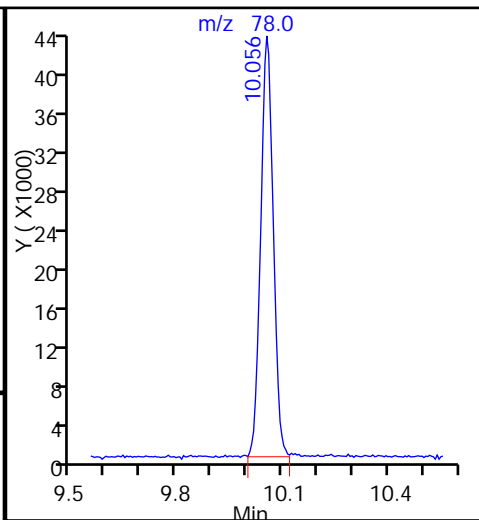
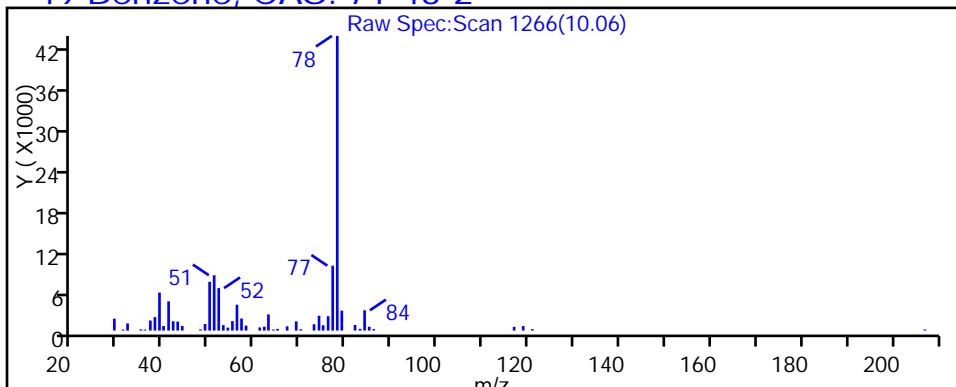
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

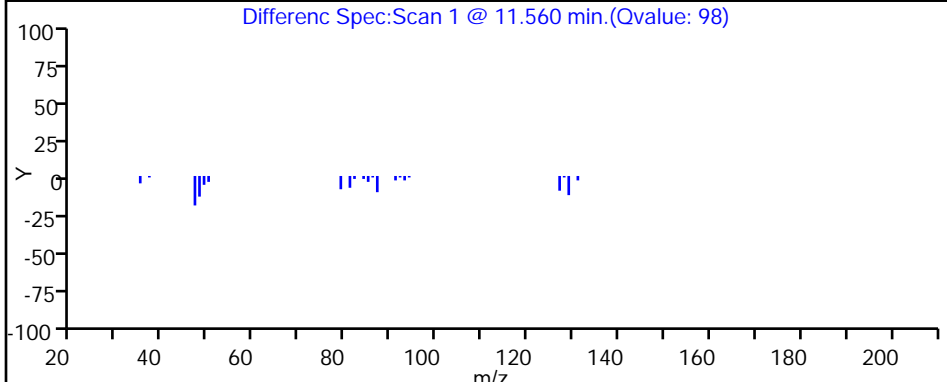
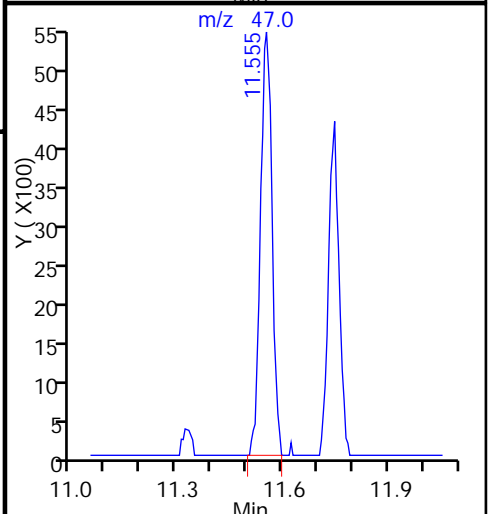
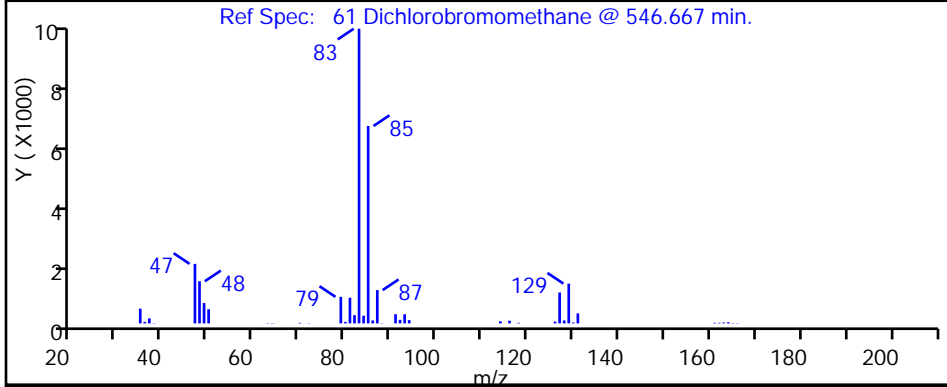
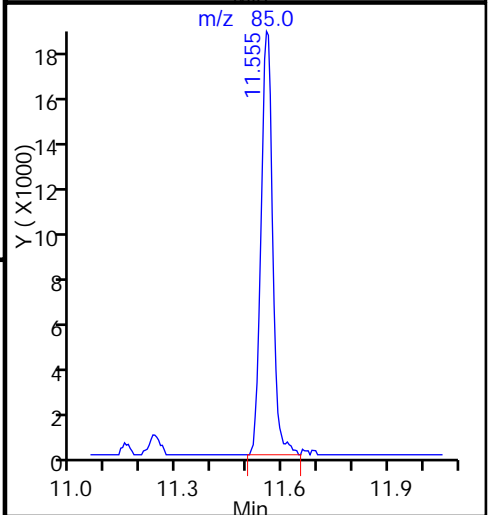
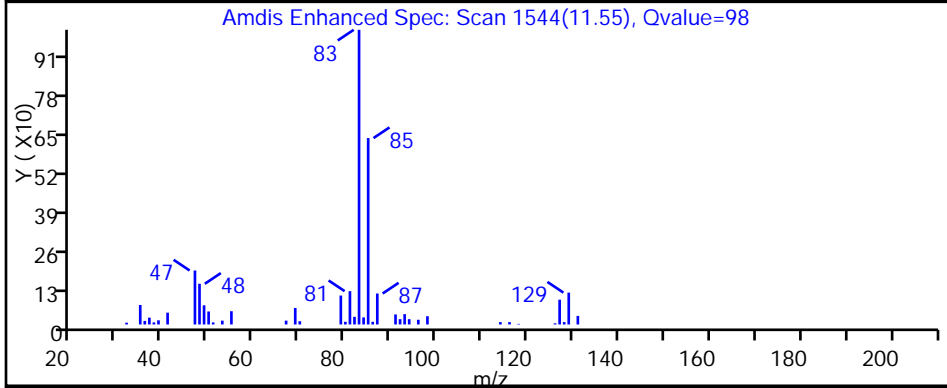
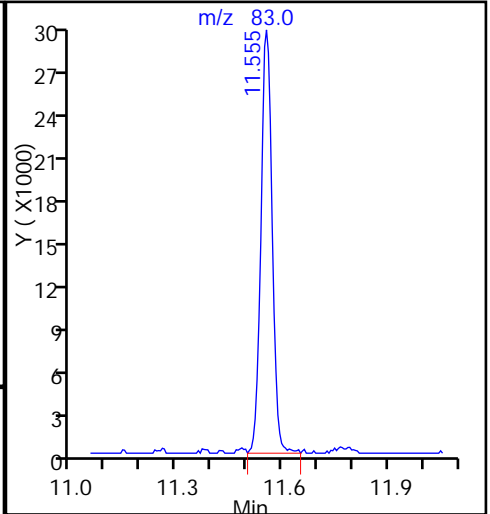
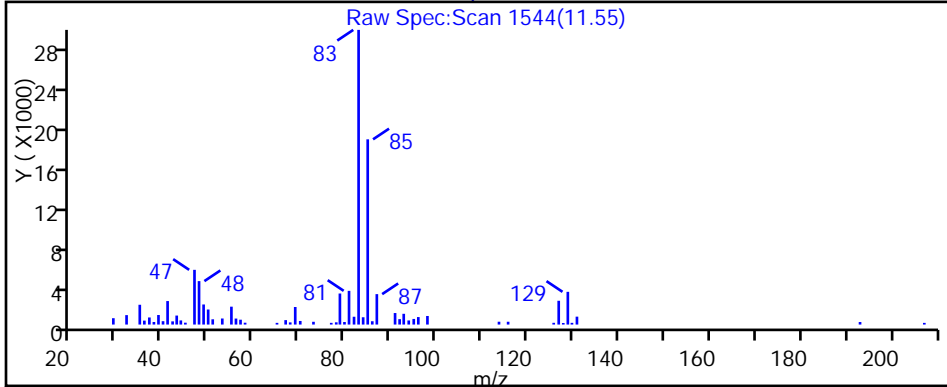
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

61 Dichlorobromomethane, CAS: 75-27-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

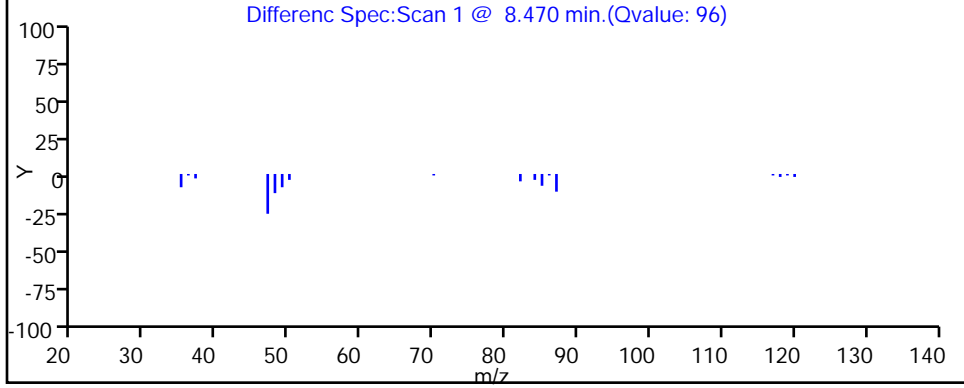
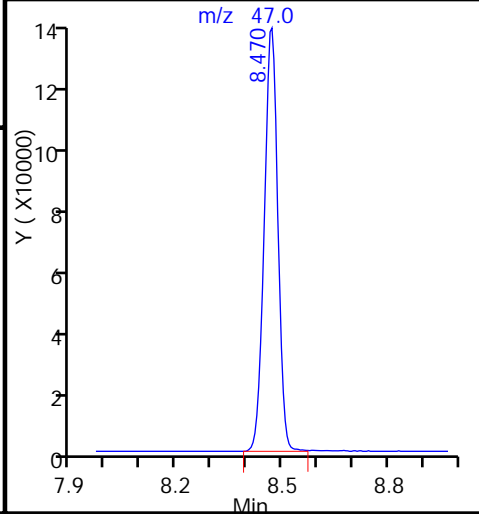
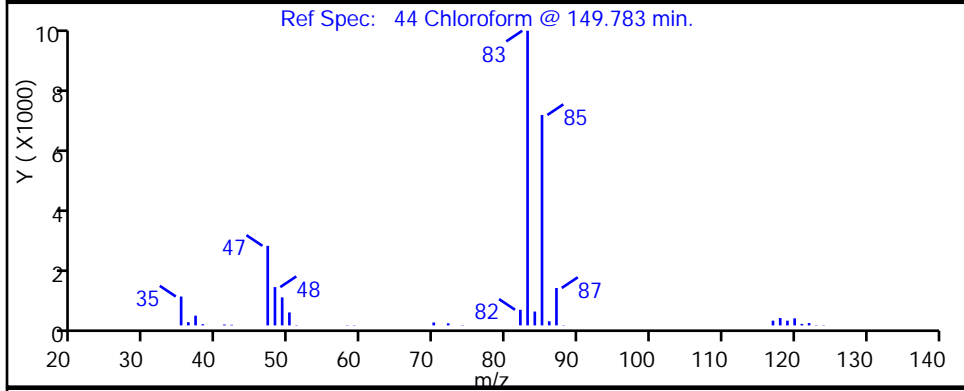
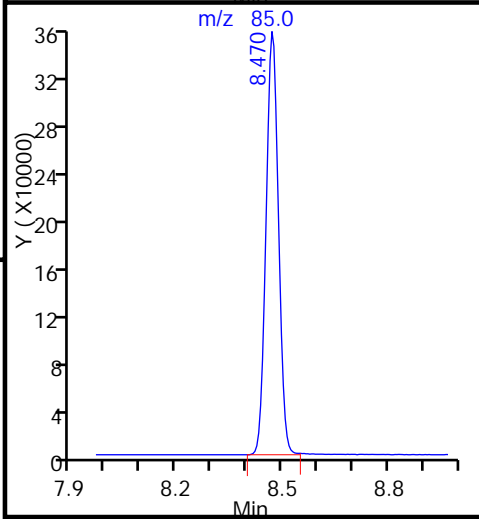
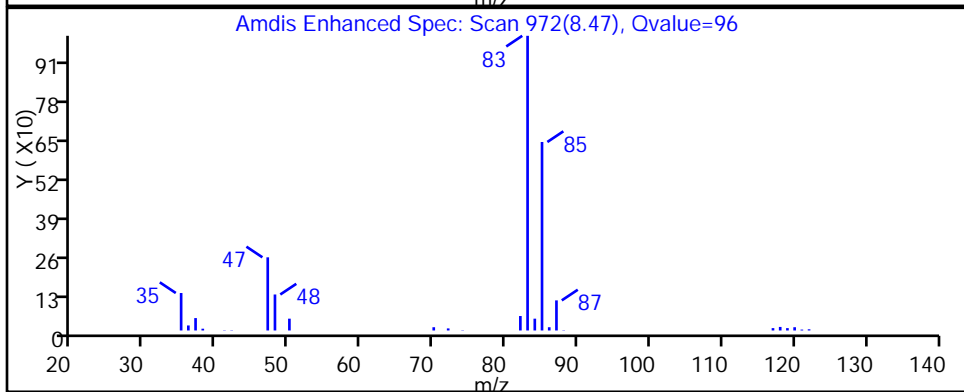
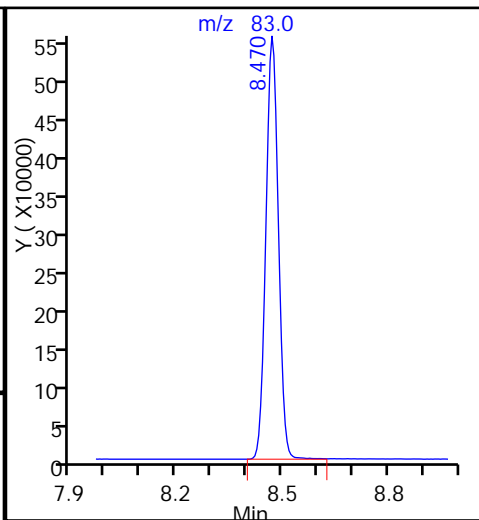
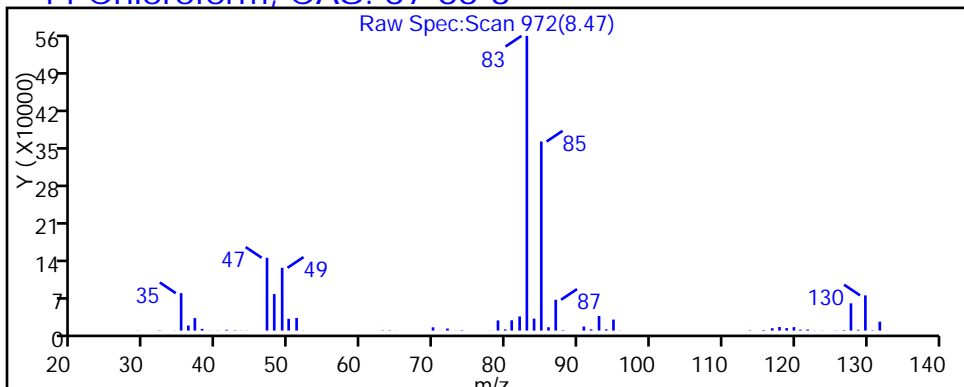
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

44 Chloroform, CAS: 67-66-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

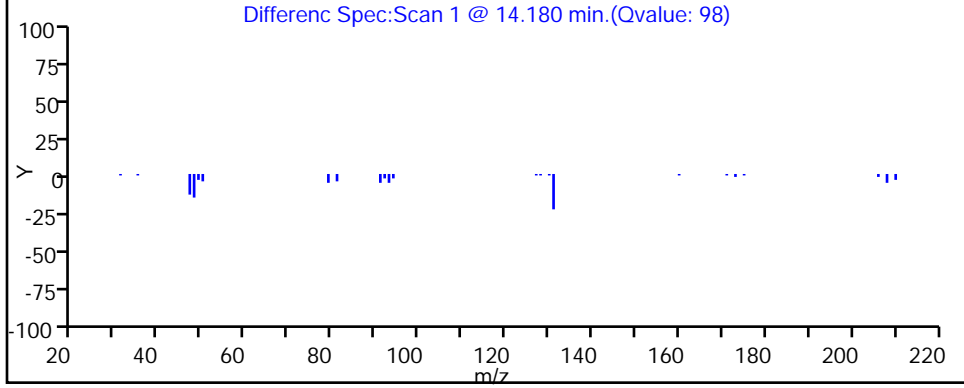
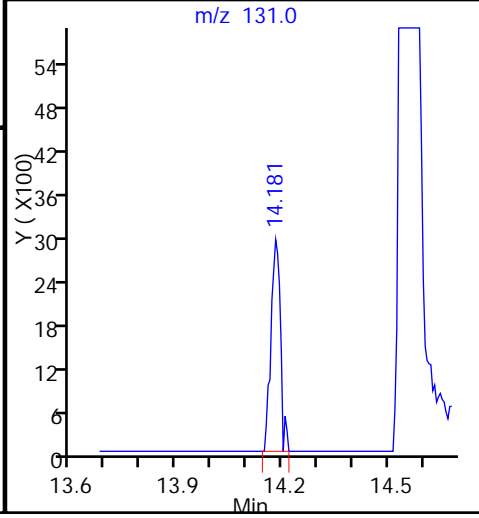
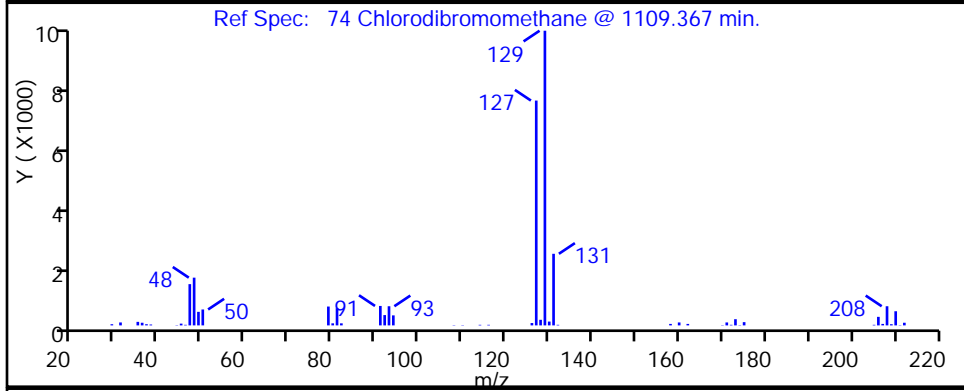
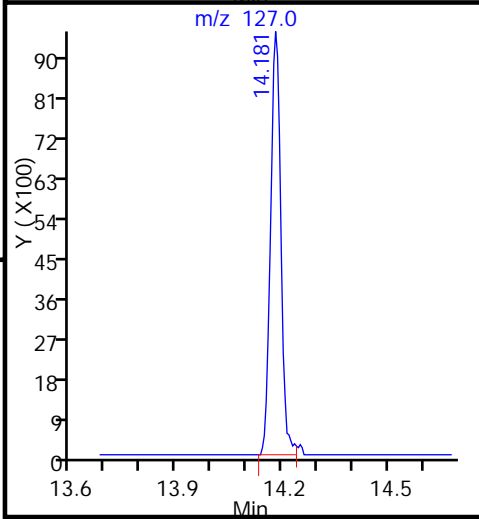
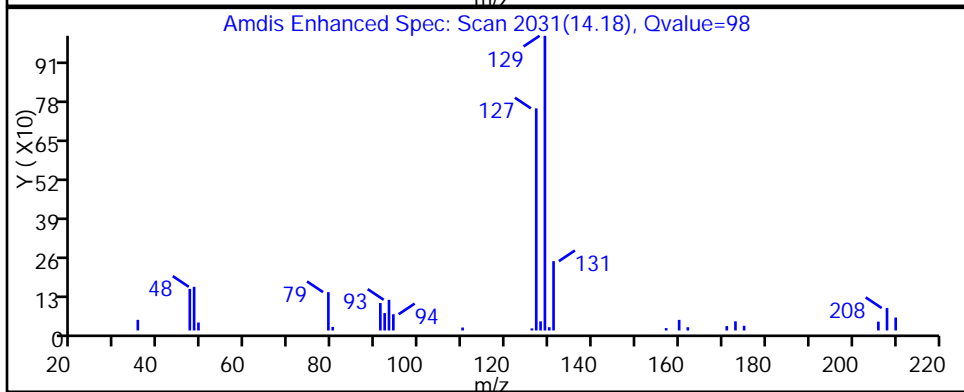
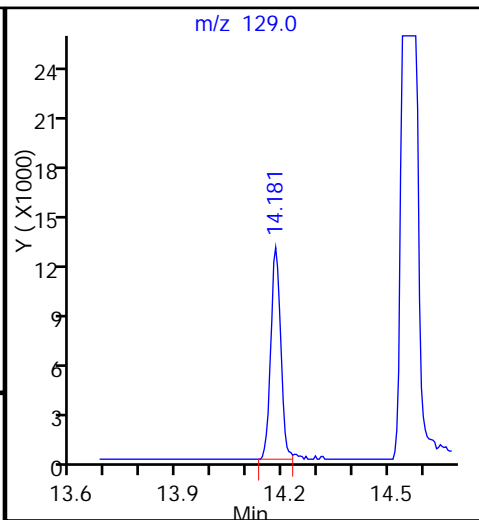
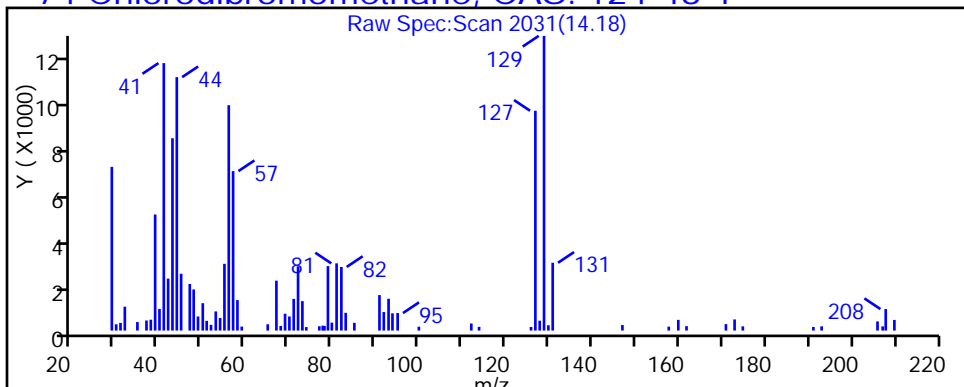
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

74 Chlorodibromomethane, CAS: 124-48-1



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

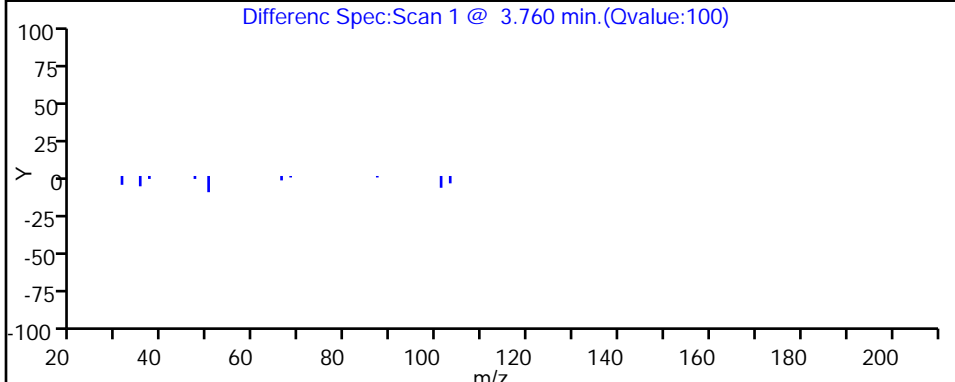
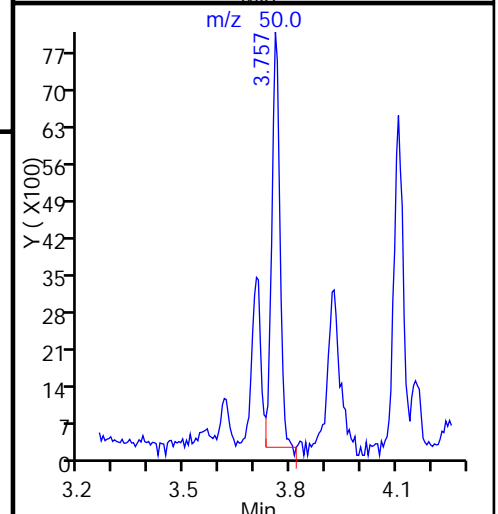
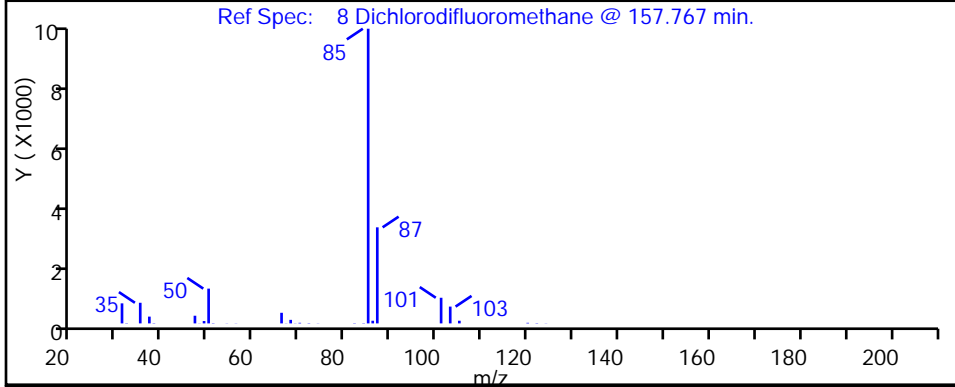
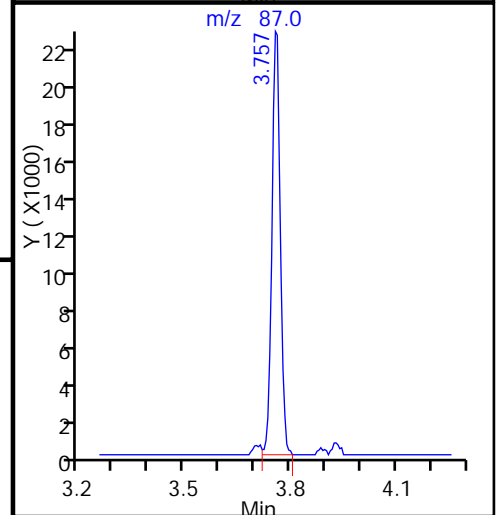
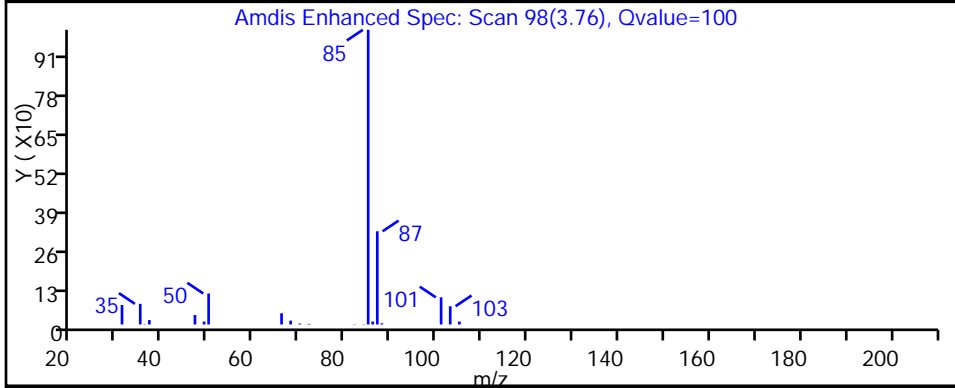
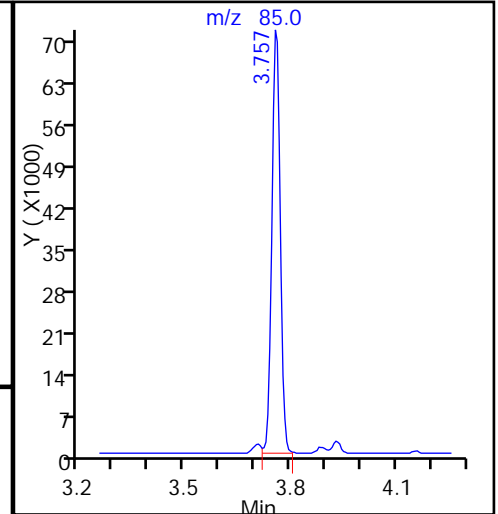
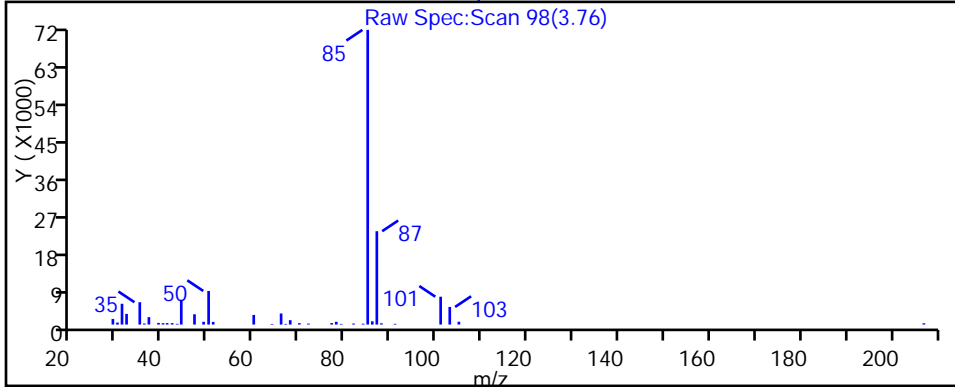
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

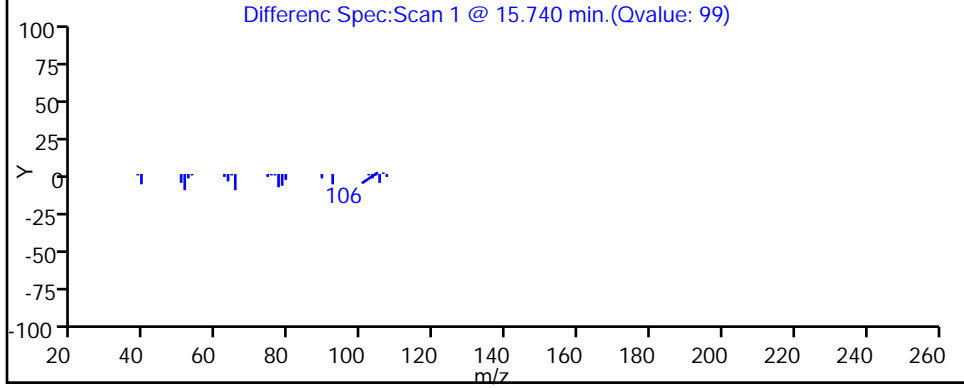
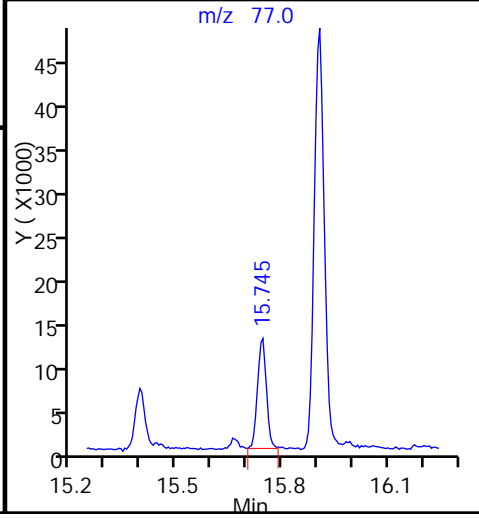
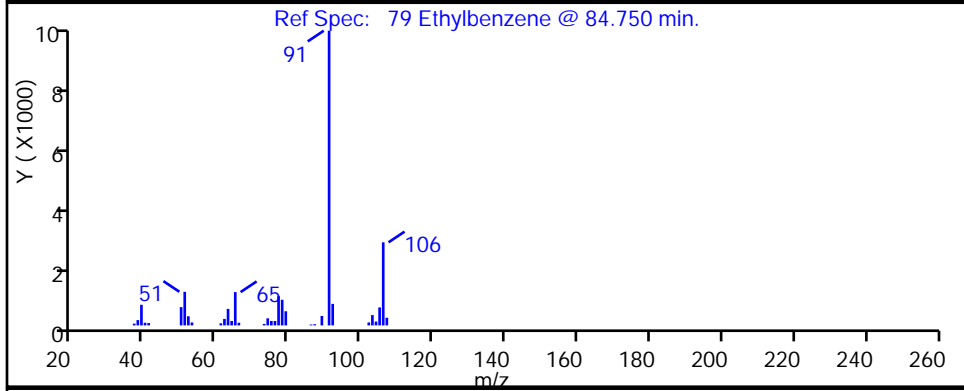
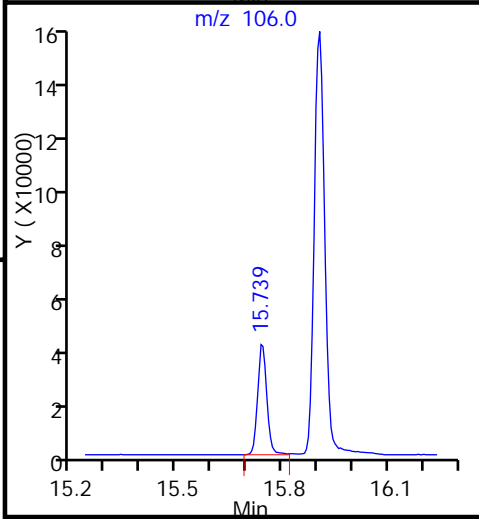
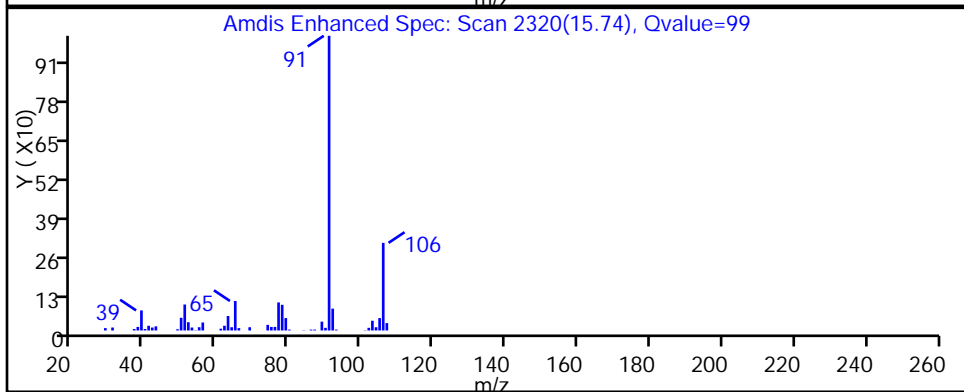
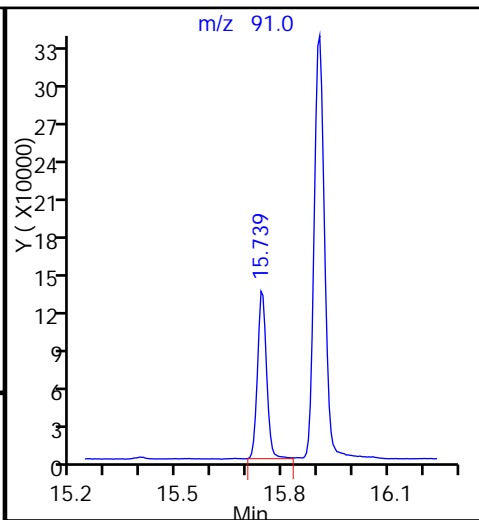
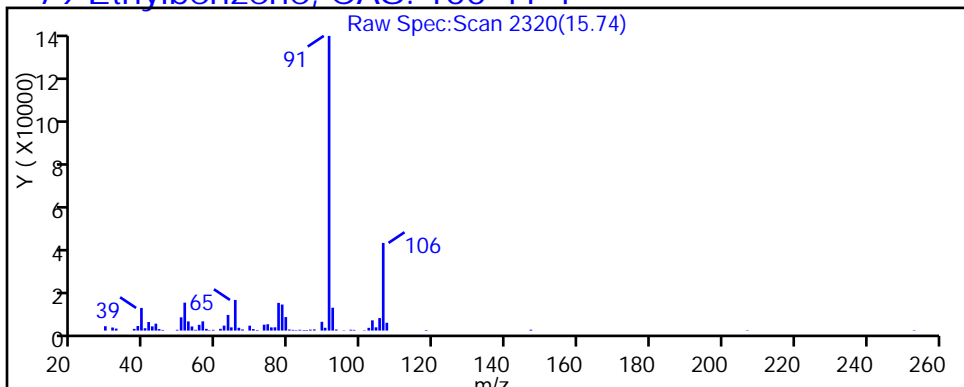
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

79 Ethylbenzene, CAS: 100-41-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

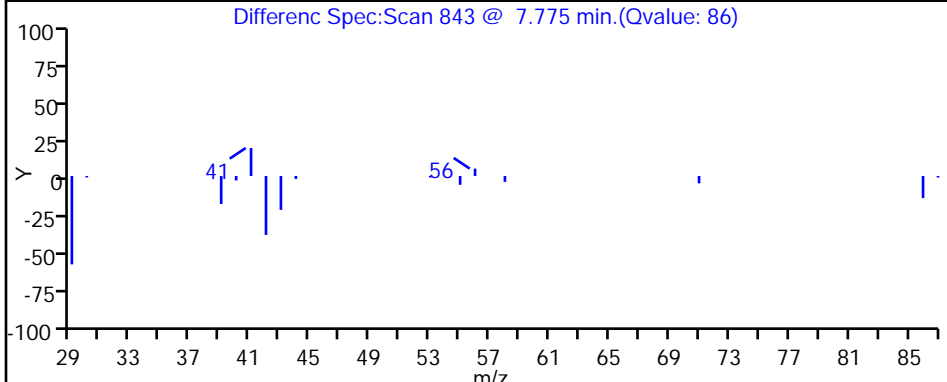
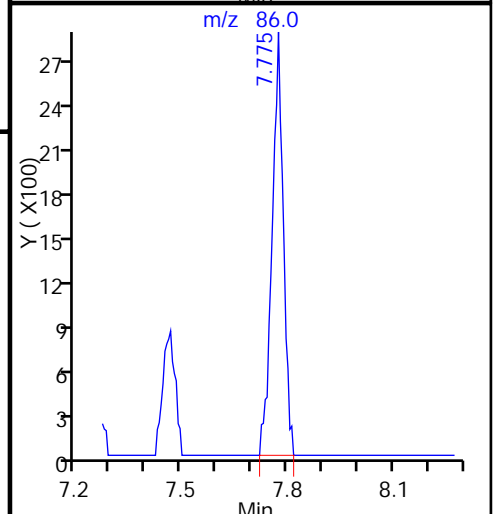
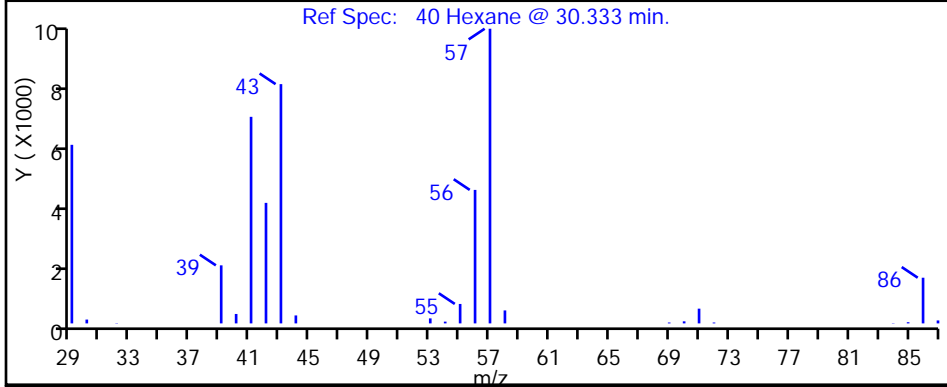
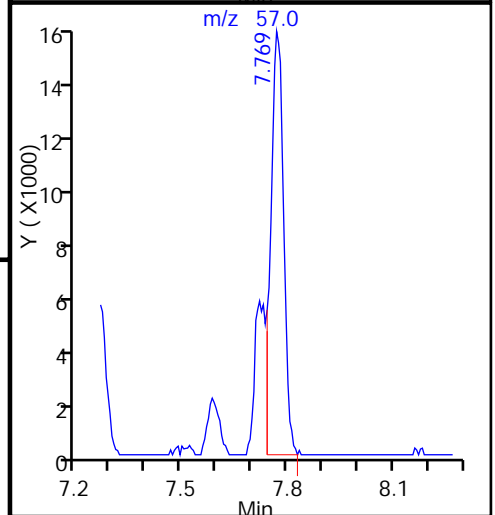
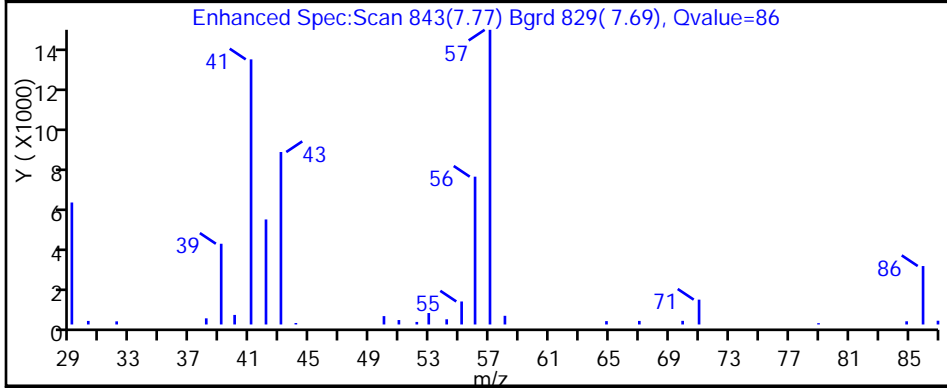
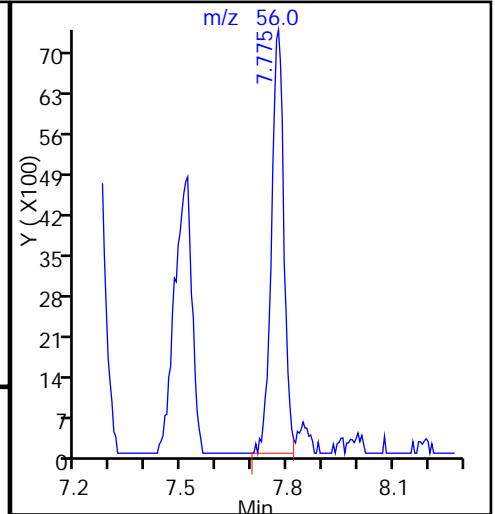
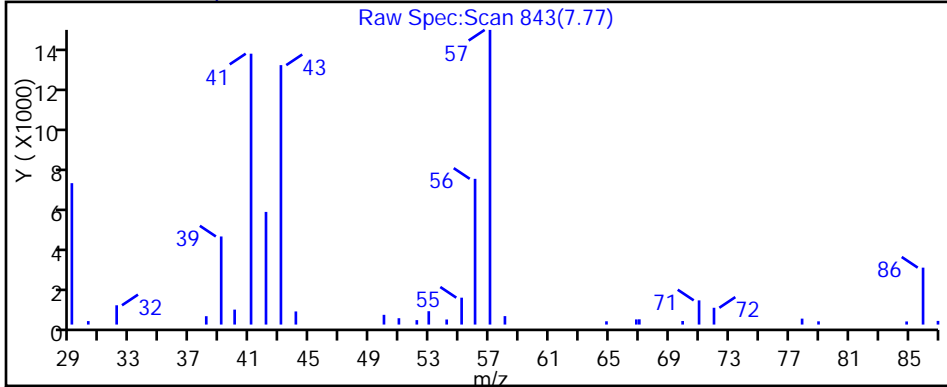
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

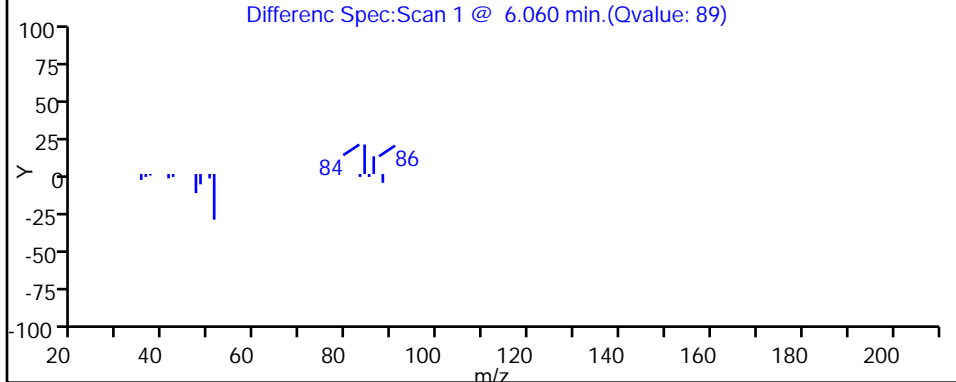
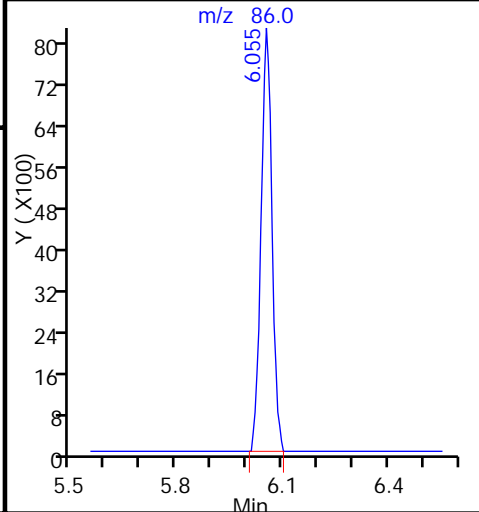
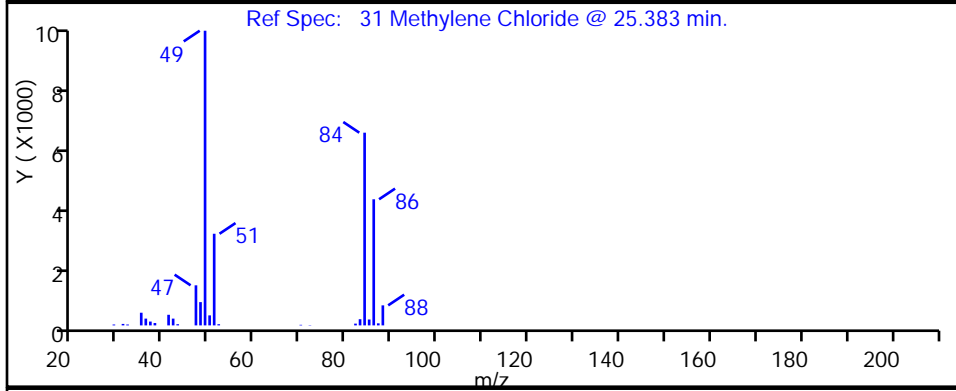
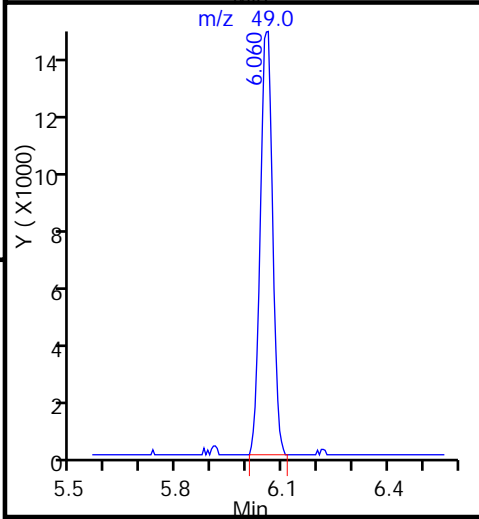
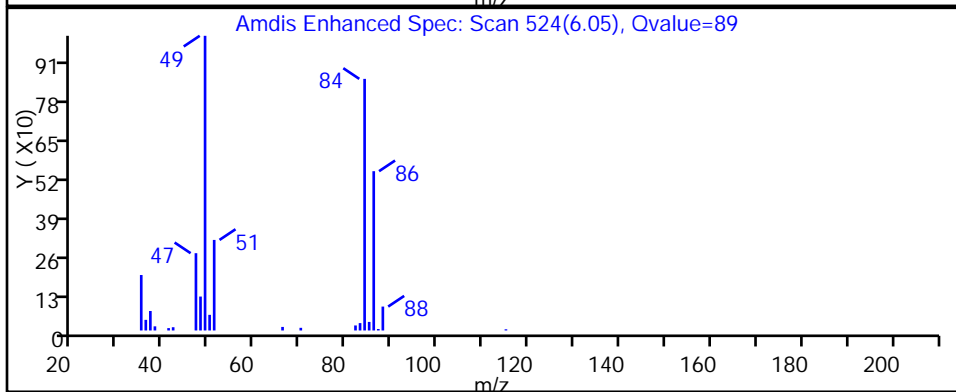
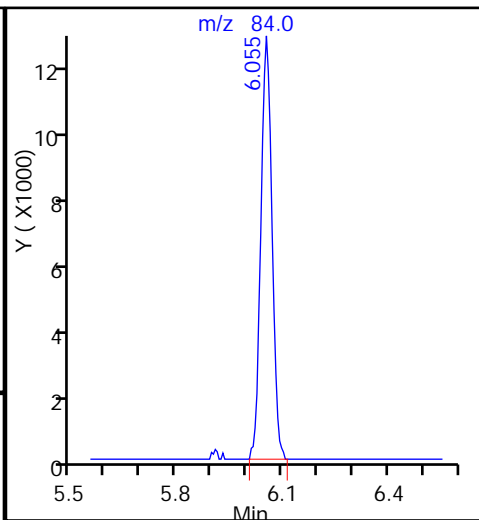
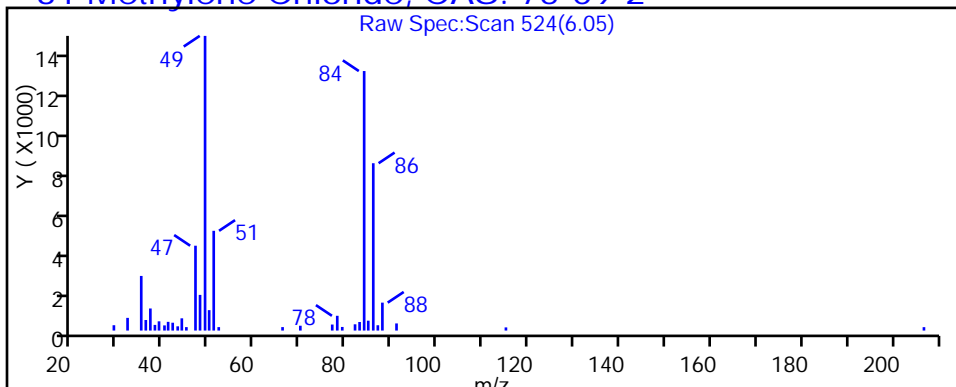
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

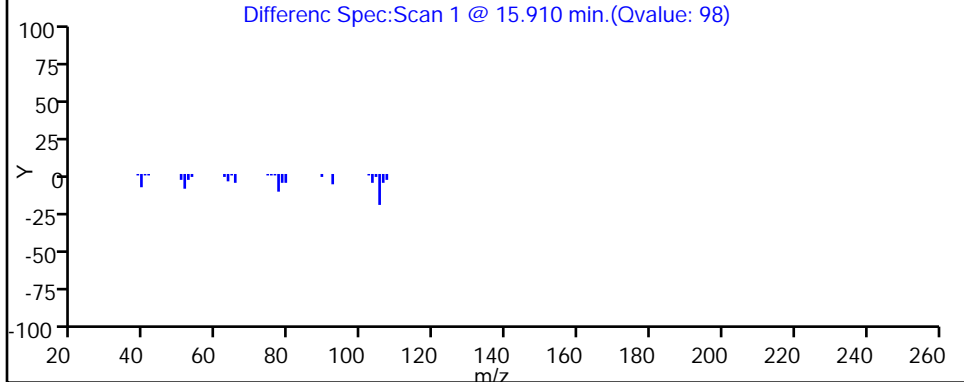
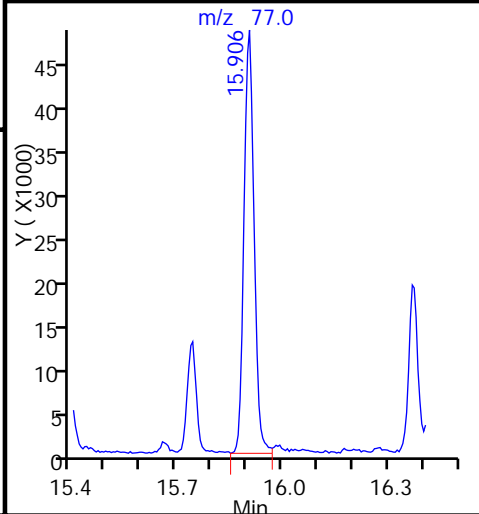
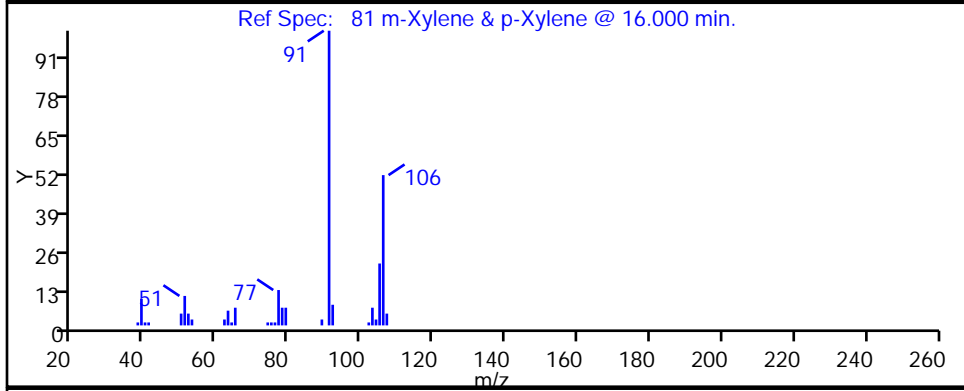
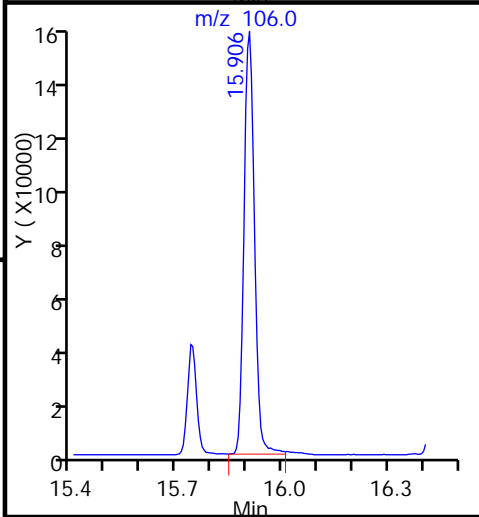
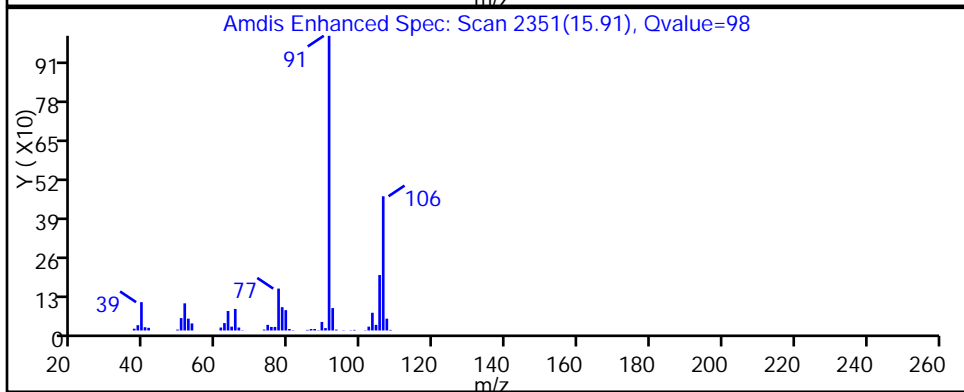
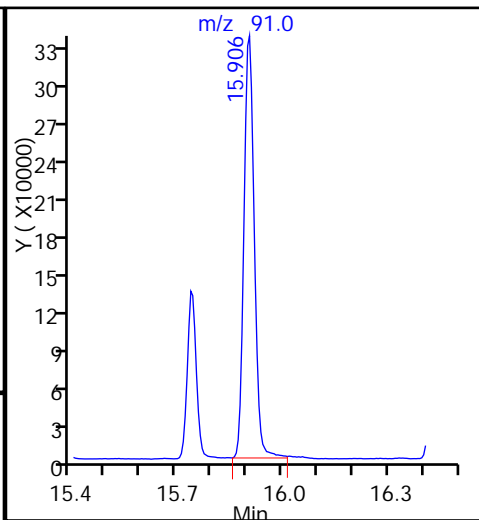
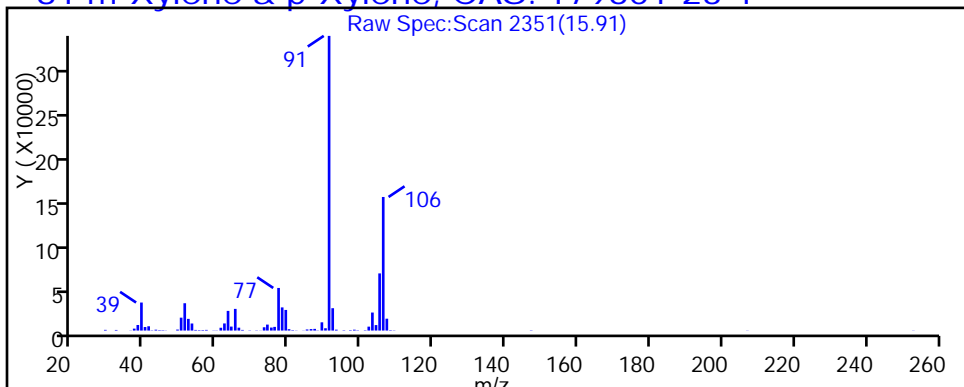
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

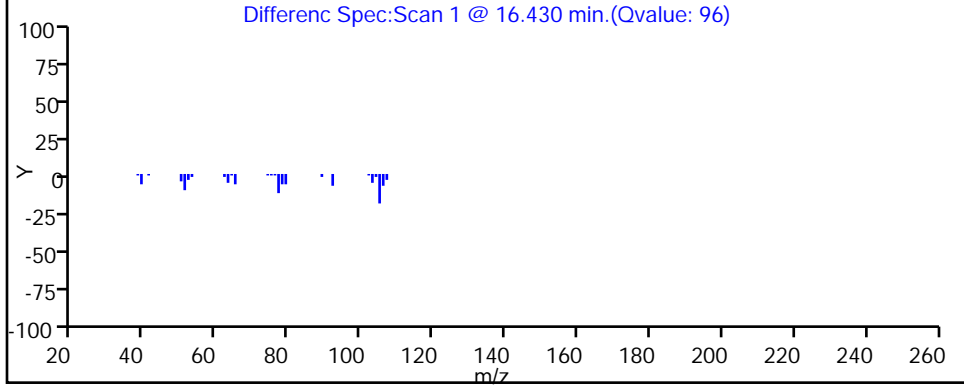
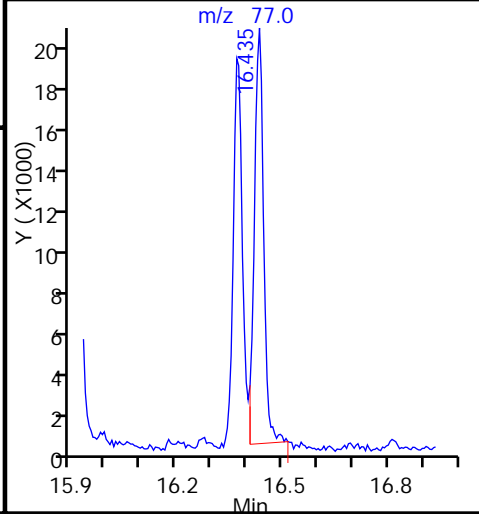
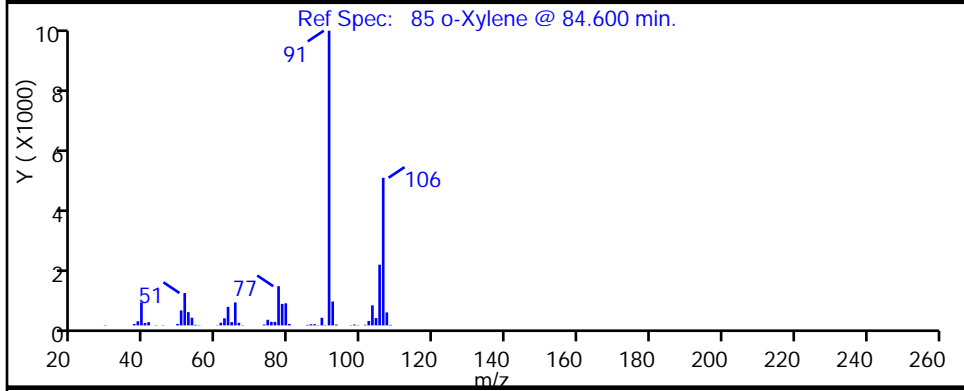
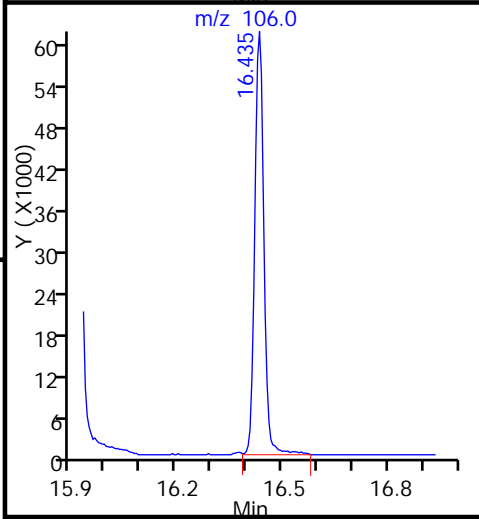
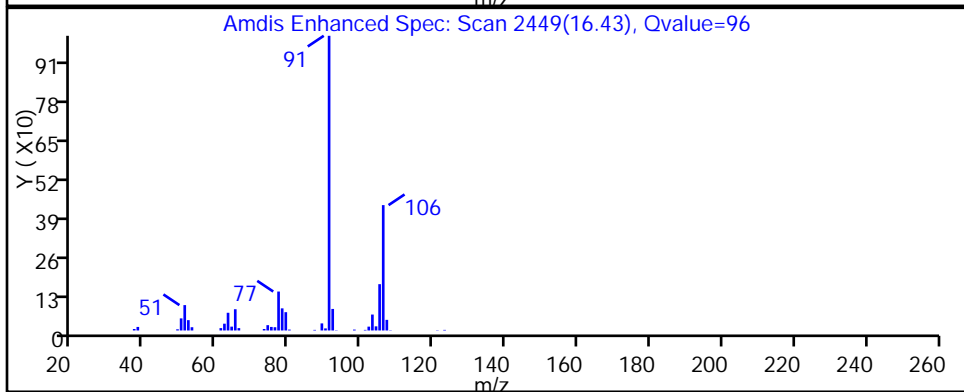
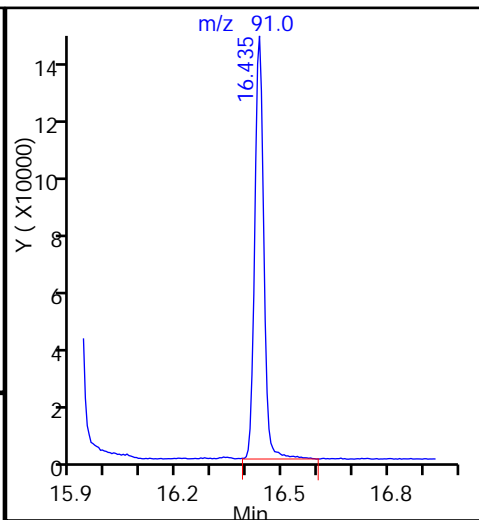
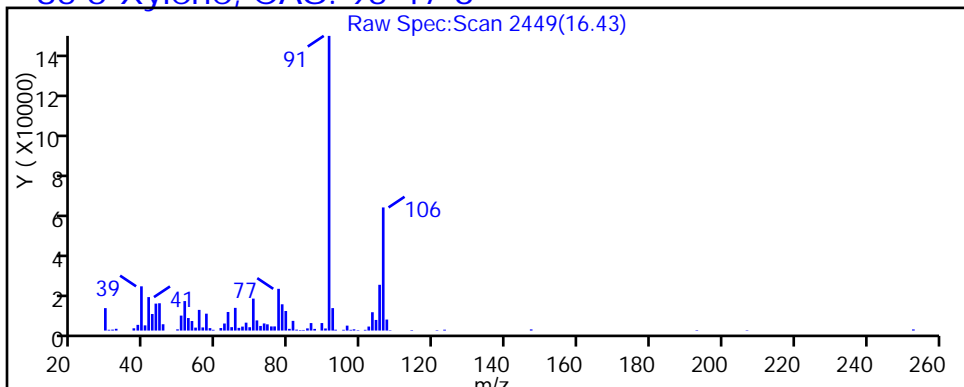
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

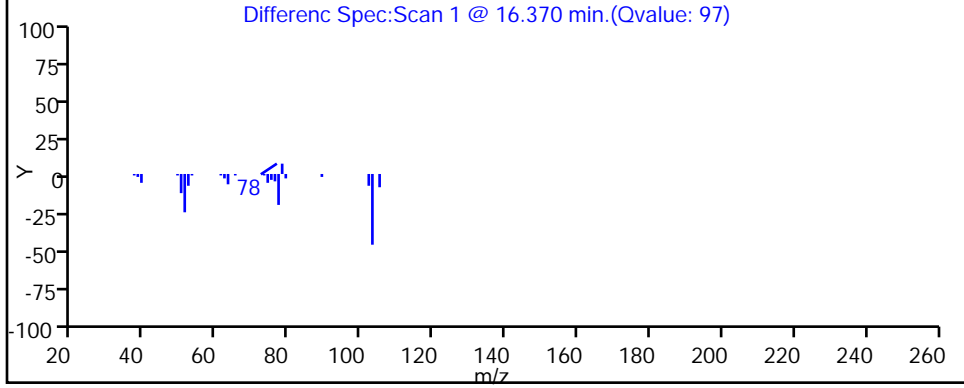
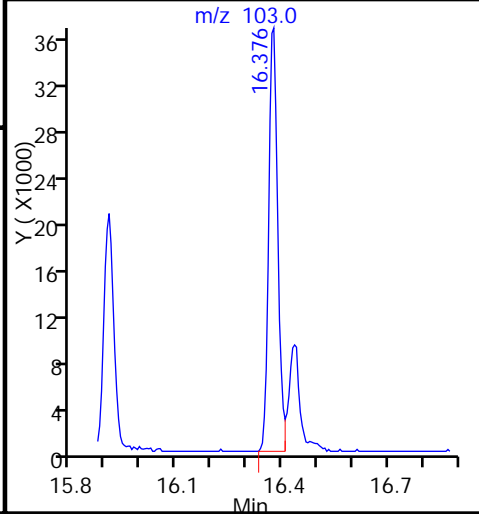
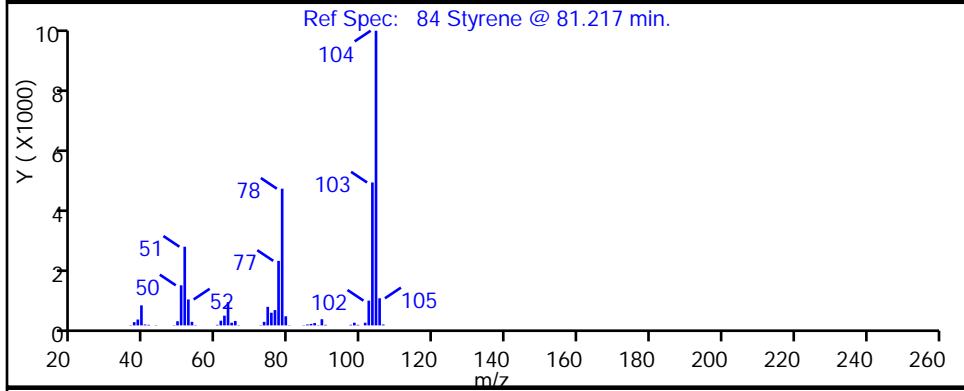
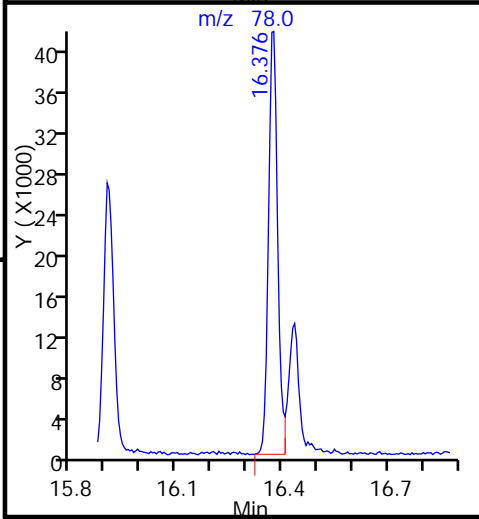
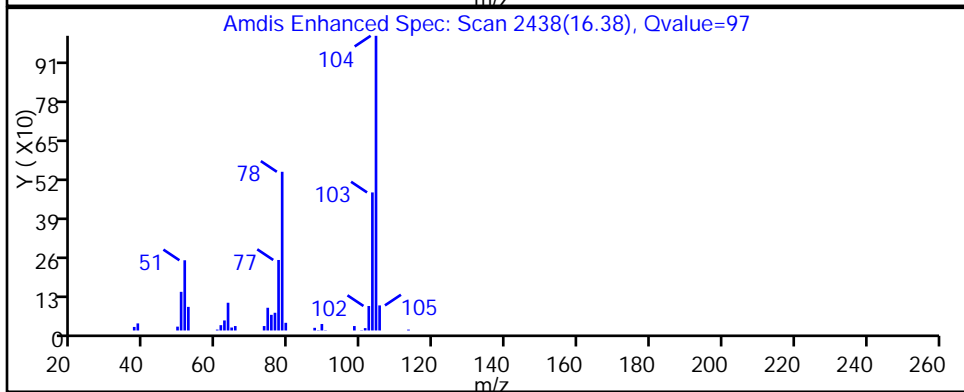
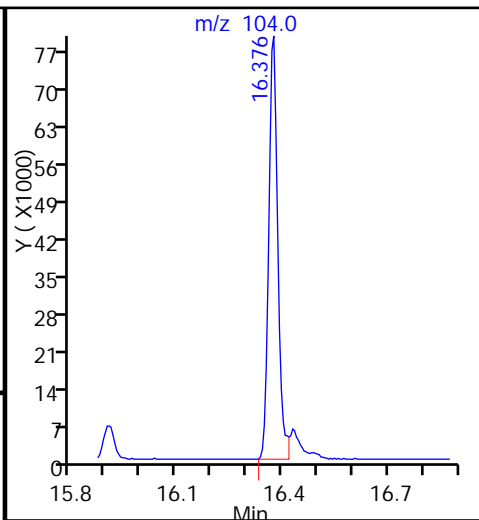
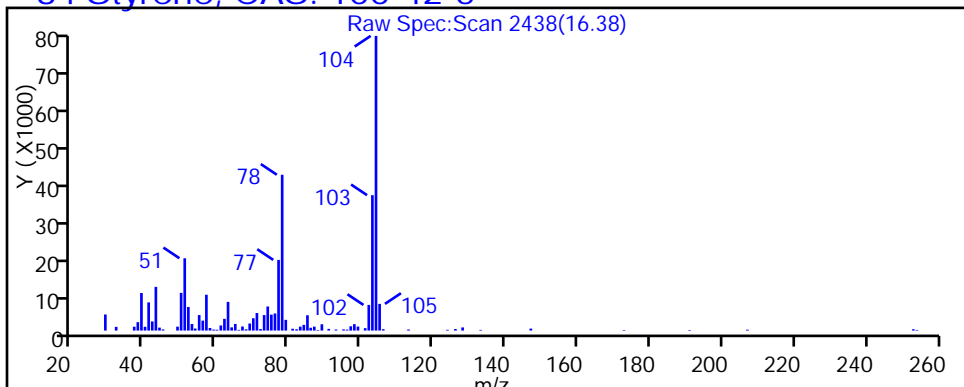
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

84 Styrene, CAS: 100-42-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

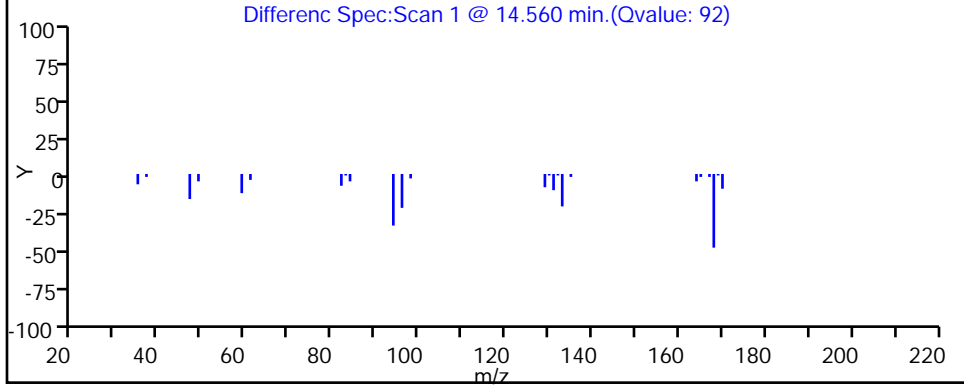
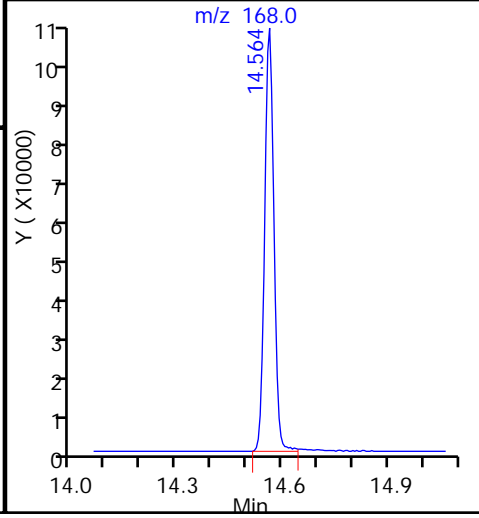
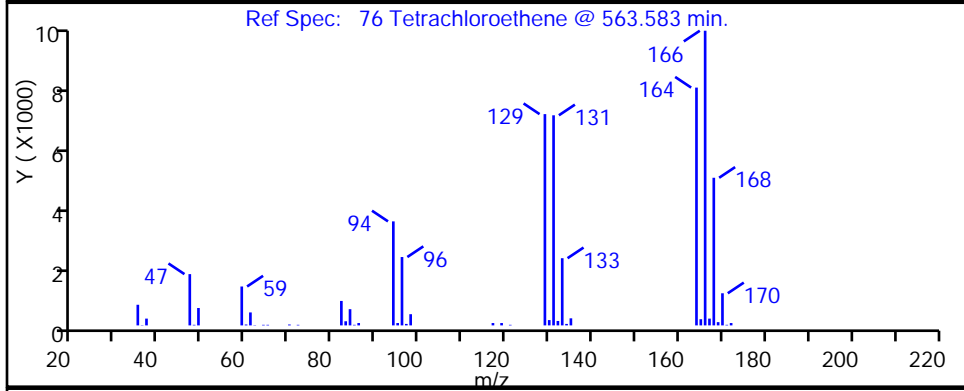
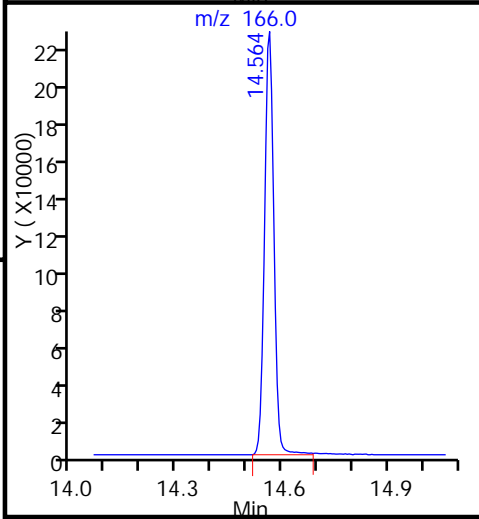
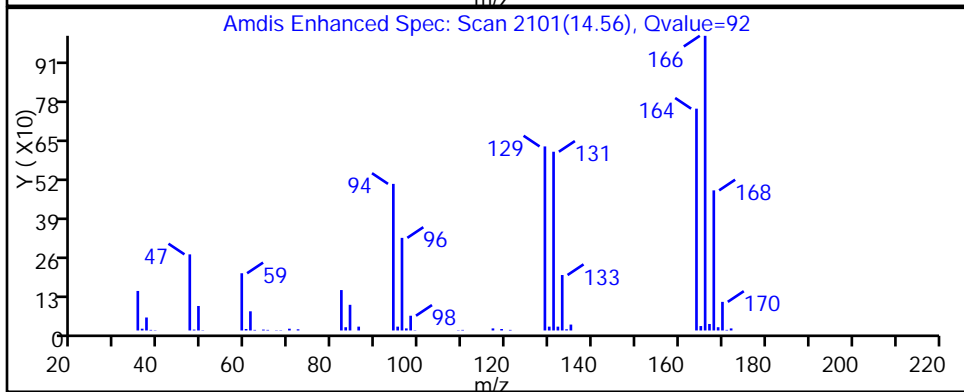
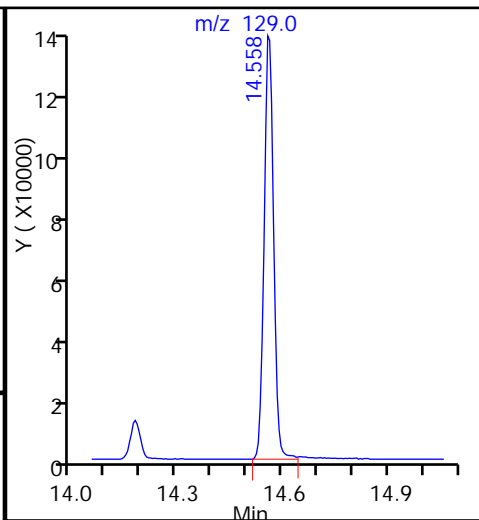
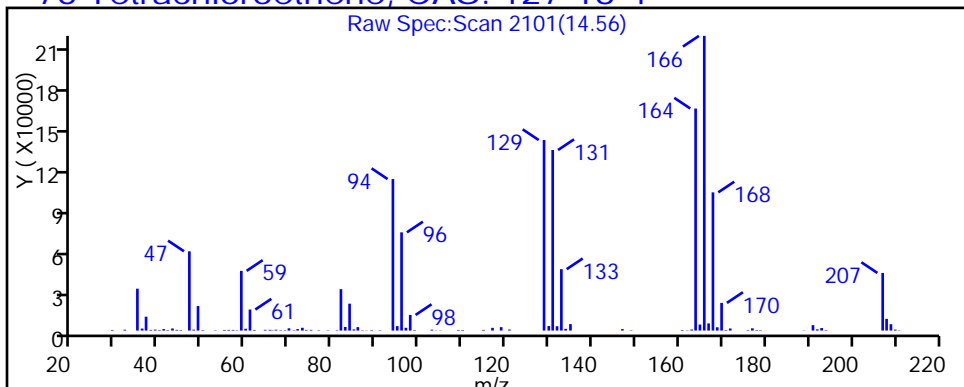
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

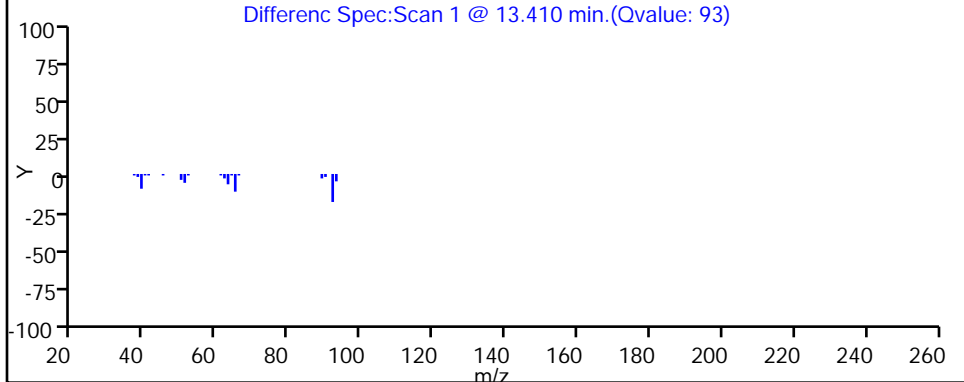
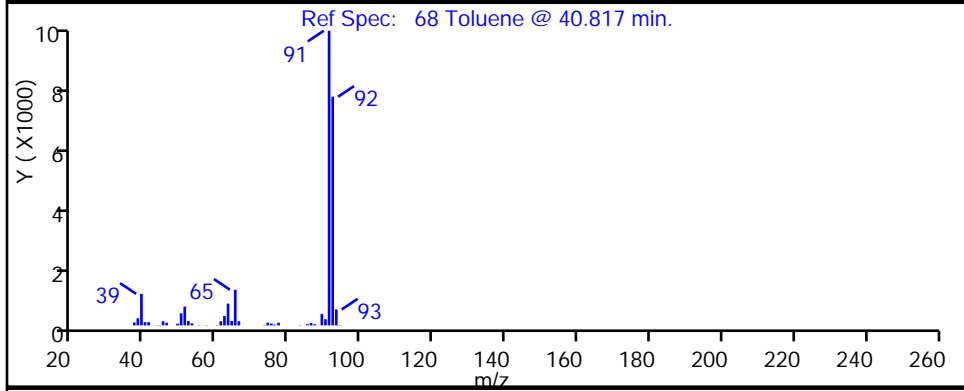
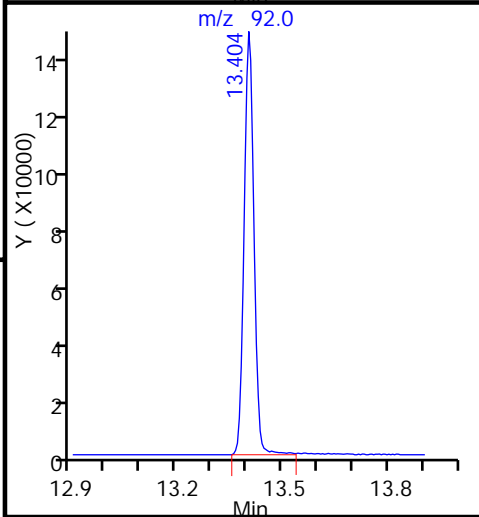
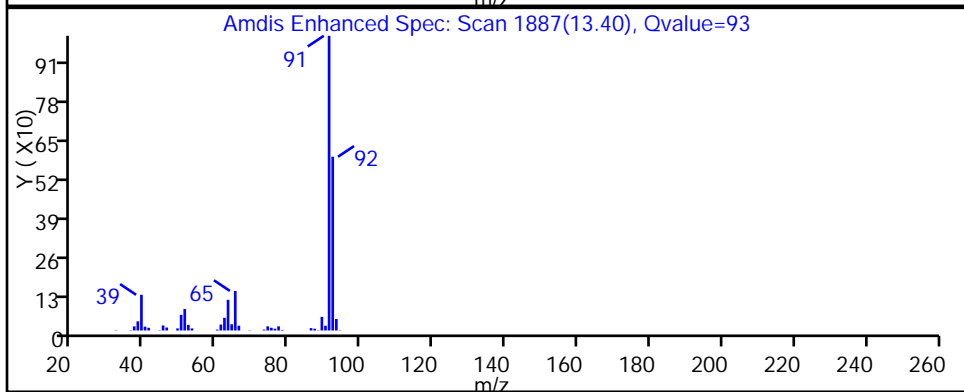
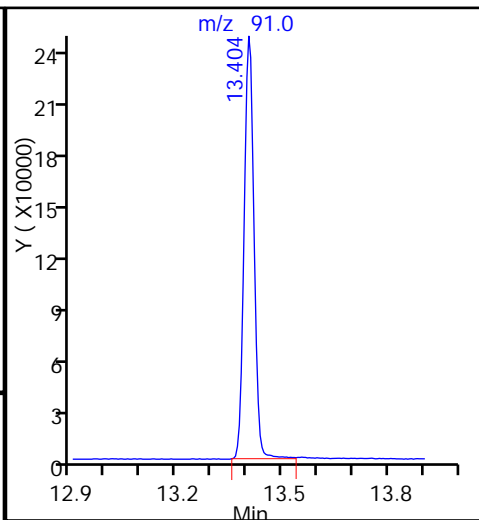
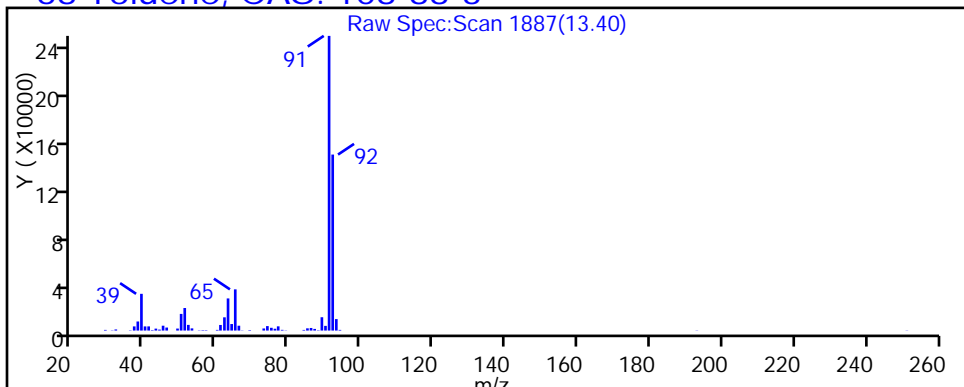
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P113.D

Injection Date: 22-Sep-2016 01:31:30

Instrument ID: MG

Lims ID: 140-5852-A-13

Lab Sample ID: 140-5852-13

Client ID: VP-125

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

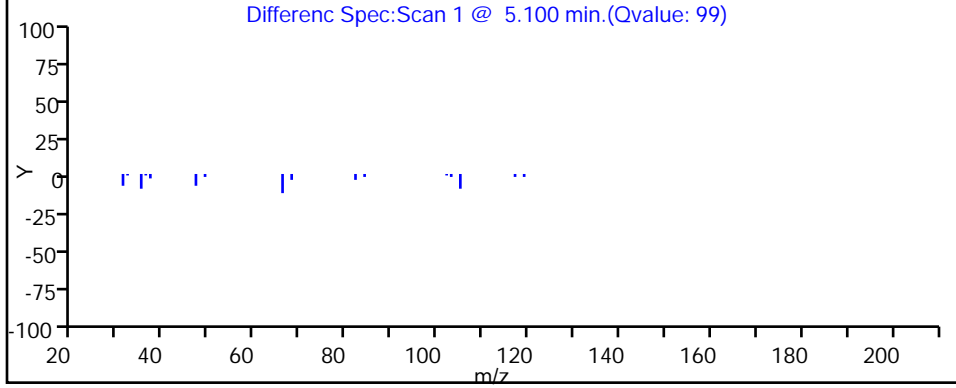
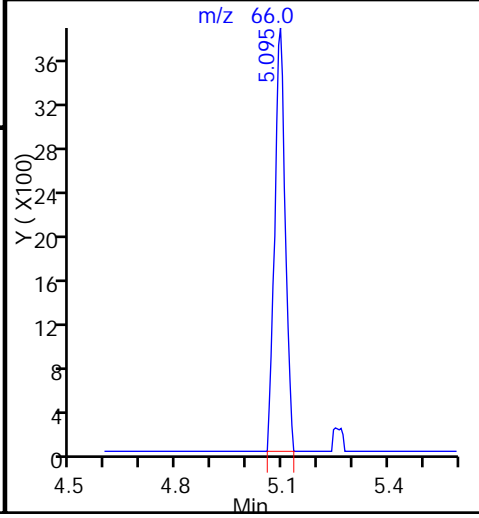
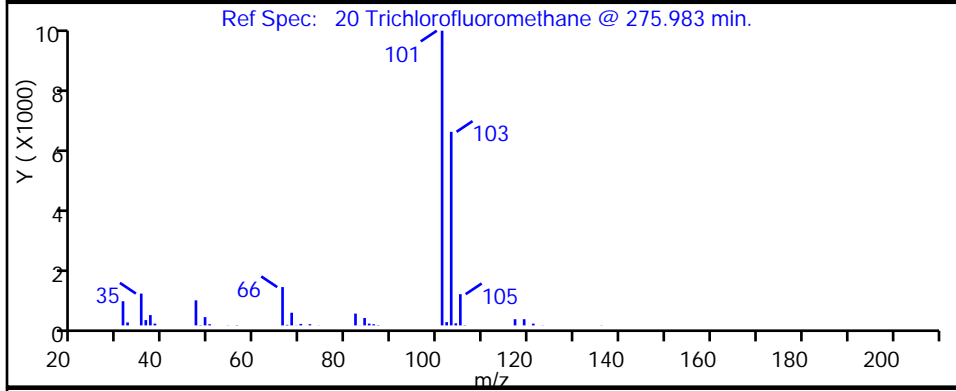
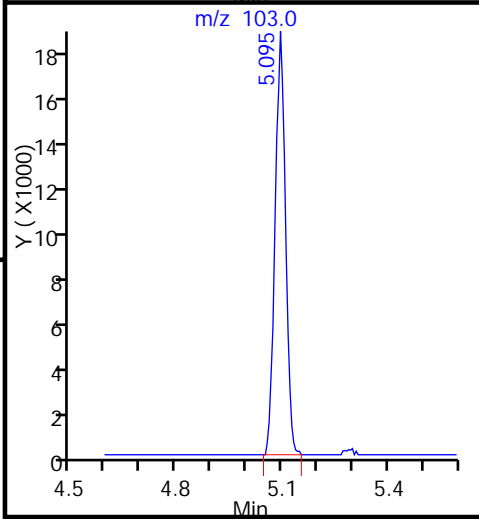
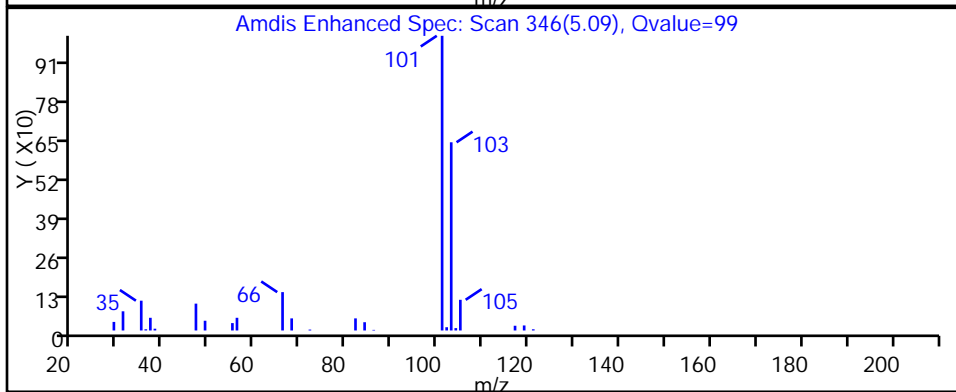
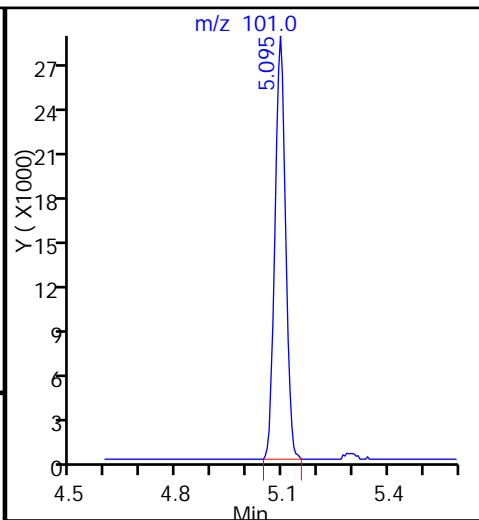
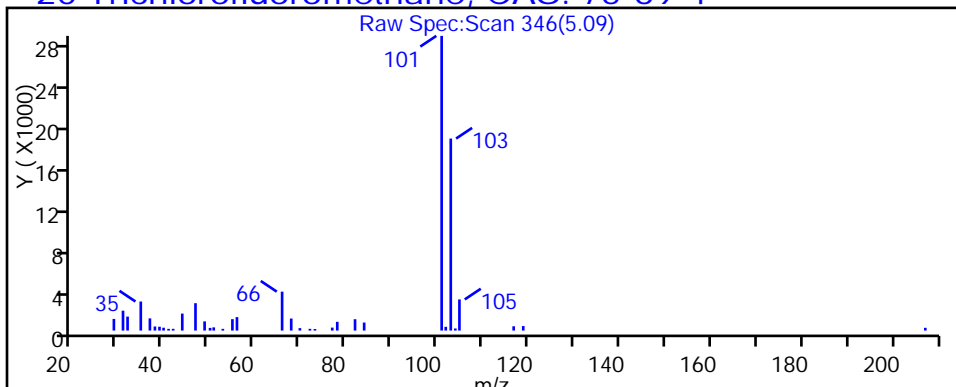
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: AMBIENT AIR Lab Sample ID: 140-5852-14
 Matrix: Air Lab File ID: GI21P114.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:42
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 03:11
 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.: 6625 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	1.1		0.20	
71-43-2	Benzene	78.11	0.18		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	0.092		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	0.44		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: AMBIENT AIR Lab Sample ID: 140-5852-14
 Matrix: Air Lab File ID: GI21P114.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:42
 Sample wt/vol: 500 (mL) Date Analyzed: 09/22/2016 03:11
 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.: 6625 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	0.60		0.080	
64-17-5	Ethanol	46.07	5.8	*	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	0.25		0.20	
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16	
75-09-2	Methylene Chloride	84.93	1.5		0.20	
179601-23-1	m-Xylene & p-Xylene	106.17	0.17		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	0.33		0.080	
108-88-3	Toluene	92.14	0.57		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	0.30		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: AMBIENT AIR Lab Sample ID: 140-5852-14
 Matrix: Air Lab File ID: GI21P114.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:42
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 03:11
 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.: 6625 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	4.6		0.82
71-43-2	Benzene	78.11	0.57		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	0.58		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	0.91		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: AMBIENT AIR Lab Sample ID: 140-5852-14
 Matrix: Air Lab File ID: GI21P114.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:42
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 03:11
 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.: 6625 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	3.0		0.40
64-17-5	Ethanol	46.07	11	*	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	0.87		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	5.1		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	0.73		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	2.3		0.54
108-88-3	Toluene	92.14	2.2		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	1.7		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\MG\20160919-3444.b\GI21P114.D
 Lims ID: 140-5852-A-14
 Client ID: AMBIENT AIR
 Sample Type: Client
 Inject. Date: 22-Sep-2016 03:11:30 ALS Bottle#: 14 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-019
 Misc. Info.: 140-5852-a-14
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:38:50 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh

Date: 22-Sep-2016 14:38:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.455	8.454	0.001	89	237986	4.00	
* 2 1,4-Difluorobenzene	114	10.611	10.617	-0.006	96	1202770	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.395	15.394	0.000	91	1026901	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	92	720663	4.02	
8 Dichlorodifluoromethane	85	3.758	3.758	0.000	100	123424	0.6031	
9 Chloromethane	52	3.920	3.919	0.001	99	10174	0.4390	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.930	0.000	36	2138	0.0167	
16 Chloroethane	64	4.561	4.566	-0.005	15	580	0.0160	
17 Ethanol	31	4.669	4.663	0.006	98	196848	5.77	
20 Trichlorofluoromethane	101	5.095	5.095	0.000	99	58257	0.3030	
30 1,1,2-Trichloro-1,2,2-trif	101	5.909	5.909	0.000	90	8857	0.0754	
31 Methylene Chloride	84	6.055	6.055	0.000	90	85743	1.48	
39 2-Butanone (MEK)	72	7.732	7.721	0.011	98	11952	0.2604	
40 Hexane	56	7.775	7.775	0.000	91	15519	0.2468	
44 Chloroform	83	8.471	8.476	-0.005	87	5543	0.0349	
49 Benzene	78	10.056	10.056	0.000	98	39711	0.1798	
50 Cyclohexane	69	10.072	10.067	0.005	48	1693	0.0448	
52 Carbon tetrachloride	117	10.094	10.088	0.006	97	15921	0.0915	
56 Isooctane	57	10.854	10.854	0.000	92	50994	0.1225	
65 4-Methyl-2-pentanone (MIBK	43	12.520	12.520	0.000	98	220663	1.12	
68 Toluene	91	13.405	13.405	0.001	93	128784	0.5738	
76 Tetrachloroethene	129	14.559	14.564	-0.005	90	29852	0.3328	
79 Ethylbenzene	91	15.740	15.739	0.001	99	15644	0.0526	
81 m-Xylene & p-Xylene	91	15.907	15.907	0.000	98	38699	0.1682	
85 o-Xylene	91	16.435	16.435	0.000	97	16234	0.0658	
96 1,2,4-Trimethylbenzene	105	18.263	18.268	-0.005	98	17423	0.0604	
100 1,4-Dichlorobenzene	146	18.625	18.624	0.001	94	6286	0.0351	

Reagents:

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Worklist Smp#: 19

Client ID: AMBIENT AIR

Purge Vol: 500.000 mL

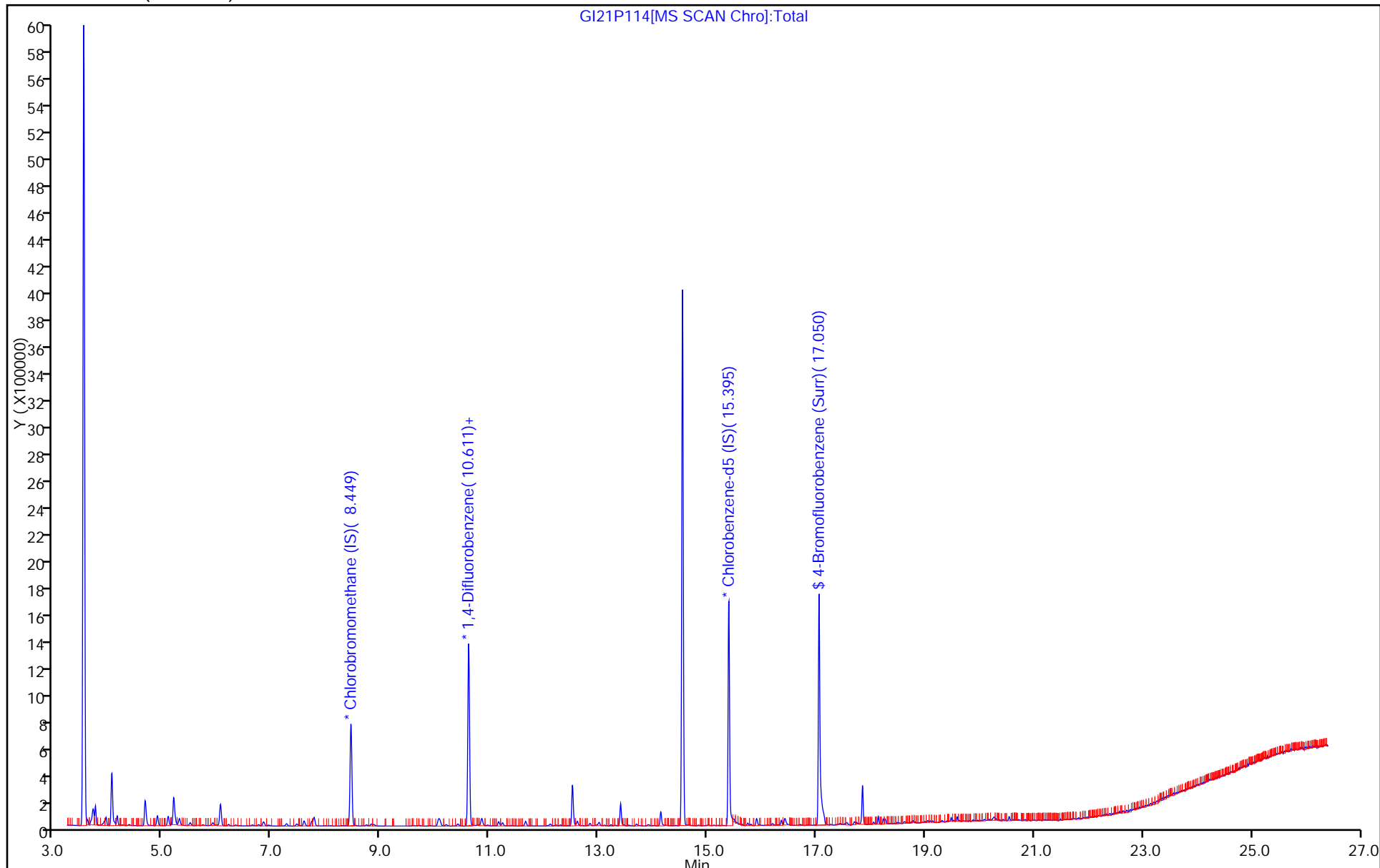
Dil. Factor: 1.0000

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\20160919-3444.b\GI21P114.D
 Lims ID: 140-5852-A-14
 Client ID: AMBIENT AIR
 Sample Type: Client
 Inject. Date: 22-Sep-2016 03:11:30 ALS Bottle#: 14 Worklist Smp#: 19
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-019
 Misc. Info.: 140-5852-a-14
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:38:50 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 22-Sep-2016 14:38:28

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.02	100.51

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

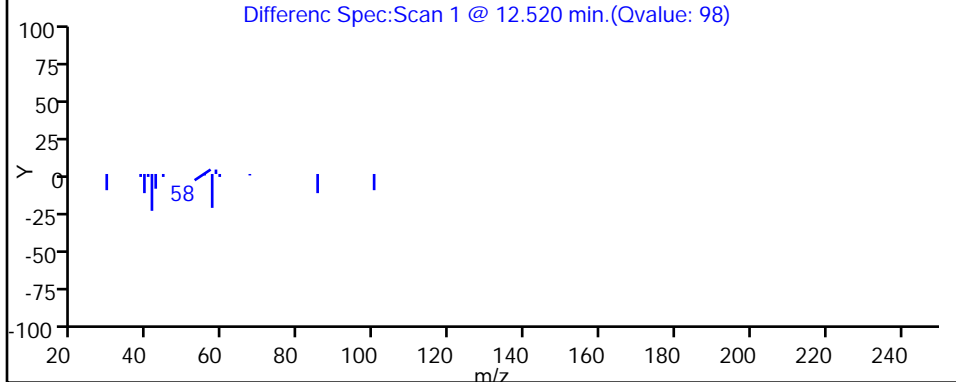
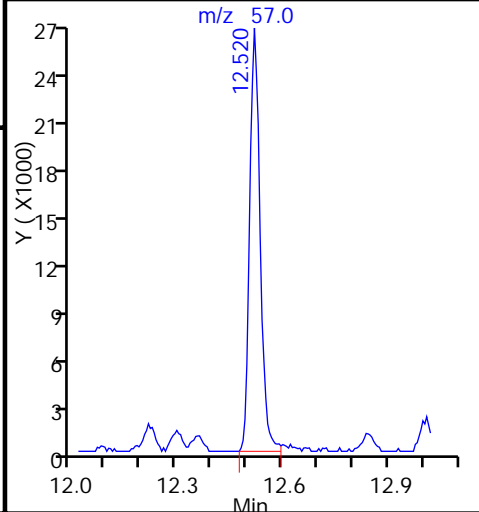
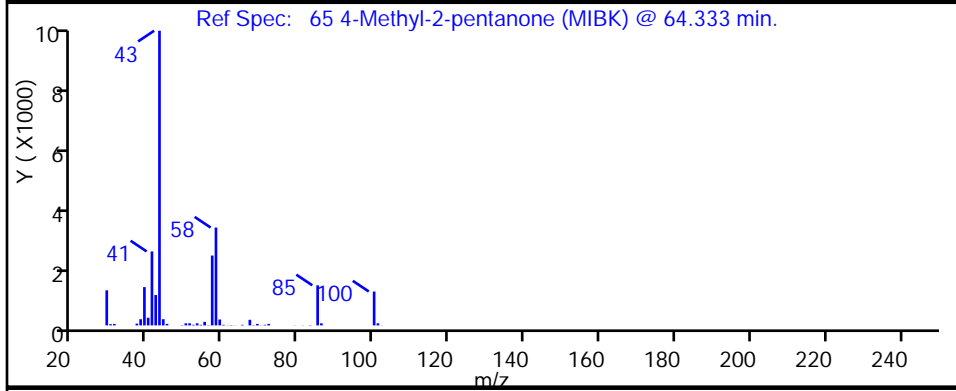
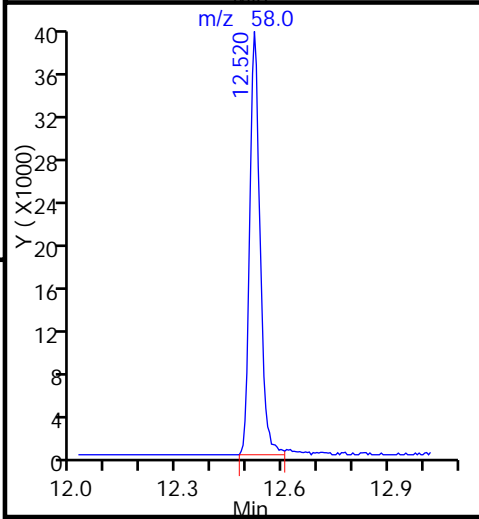
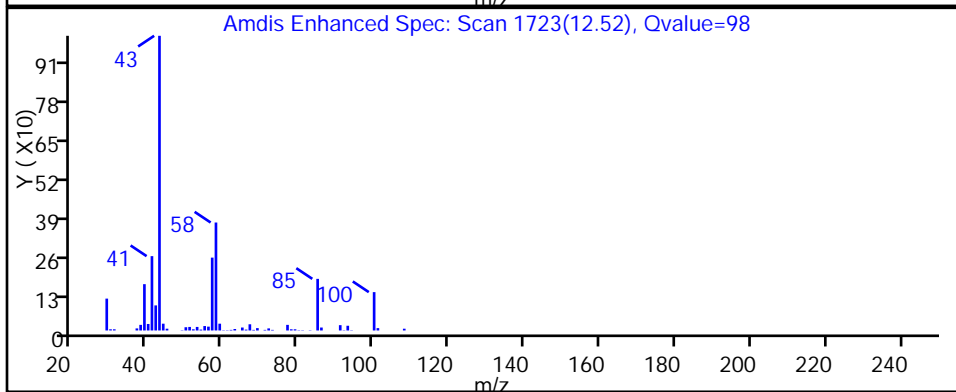
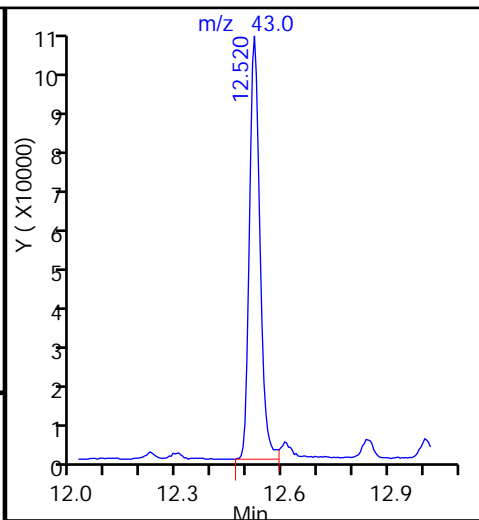
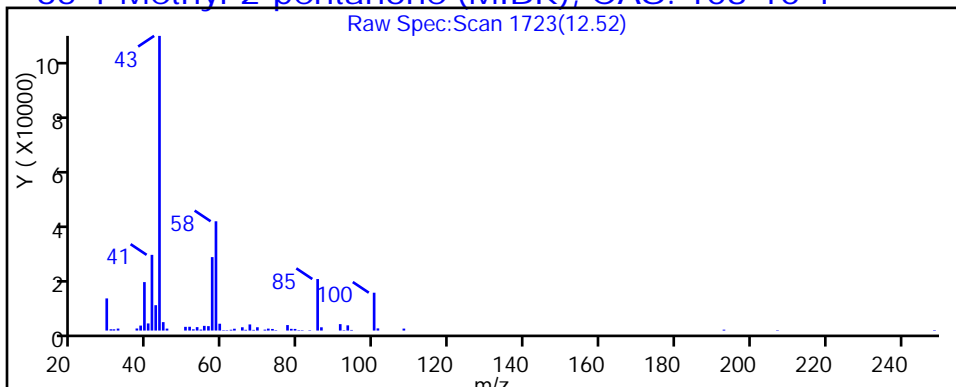
Method: MG_TO15

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

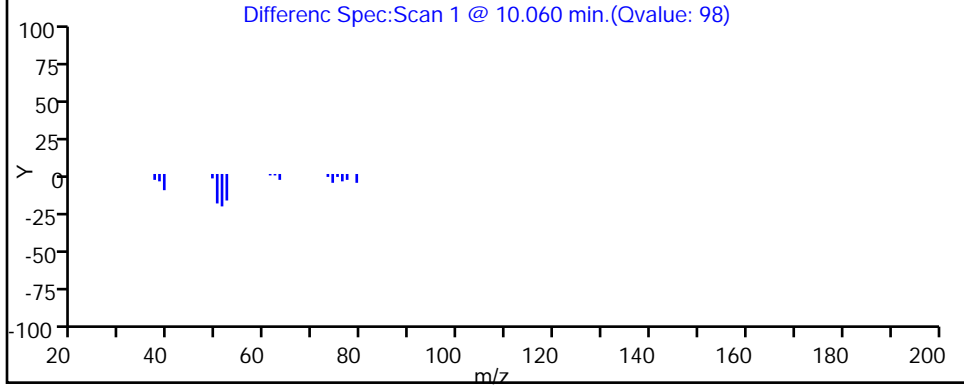
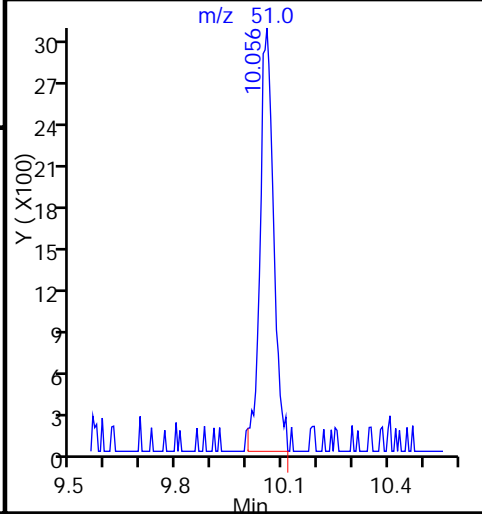
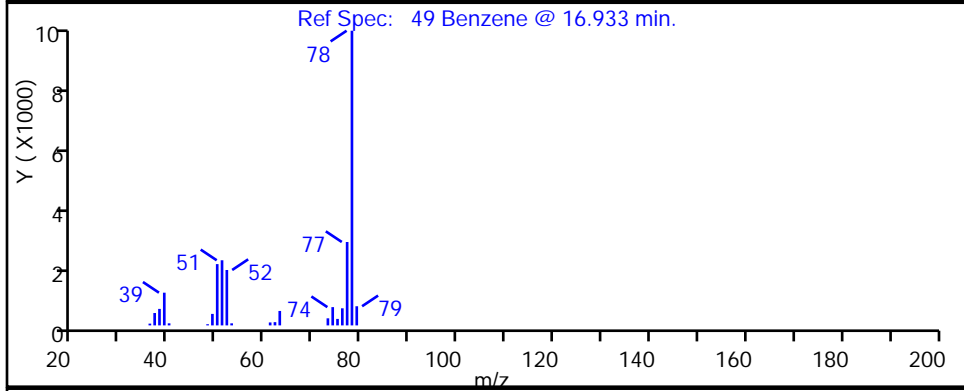
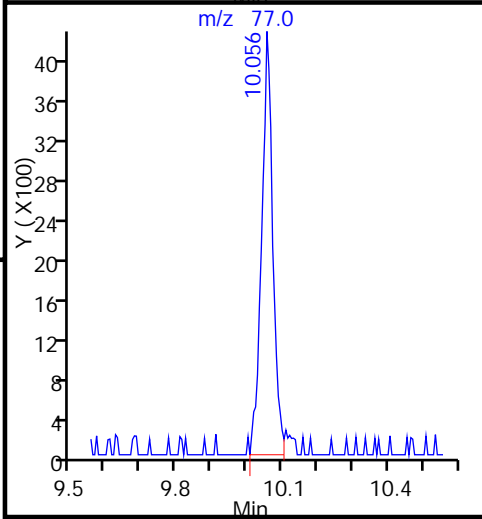
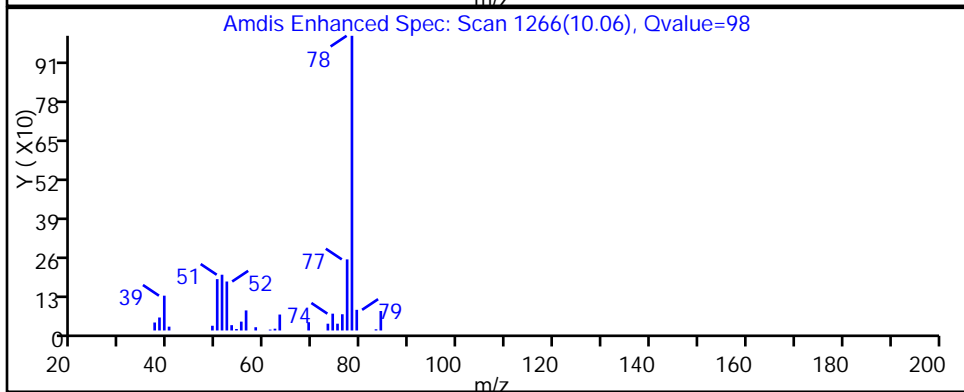
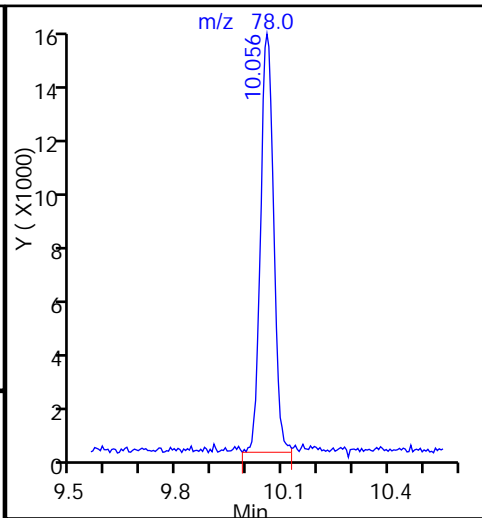
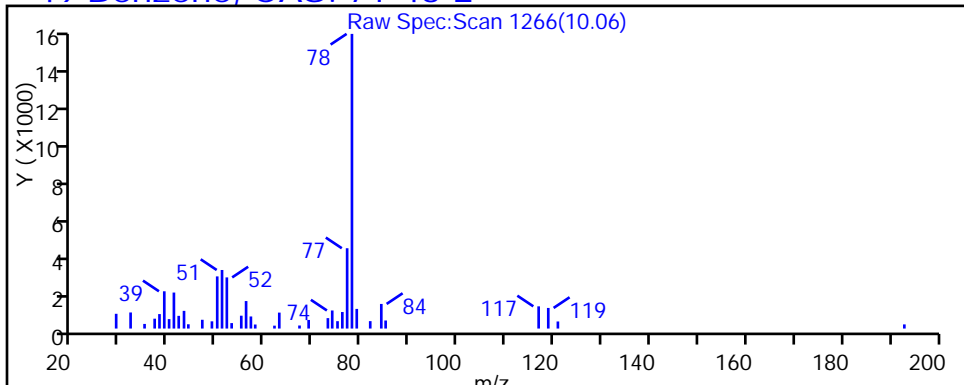
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

49 Benzene, CAS: 71-43-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

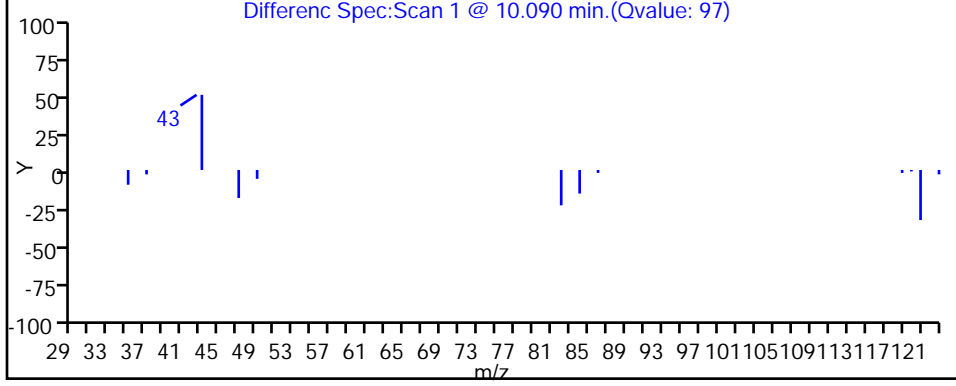
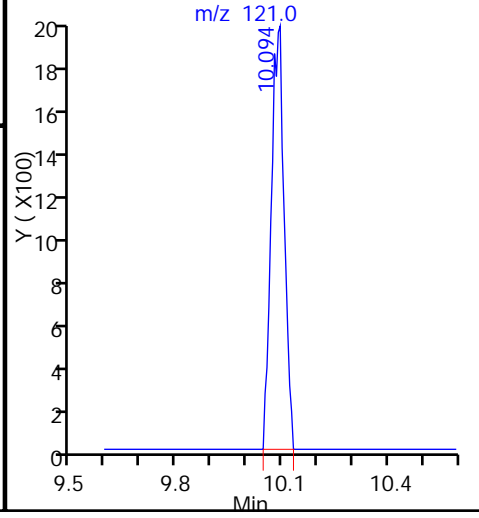
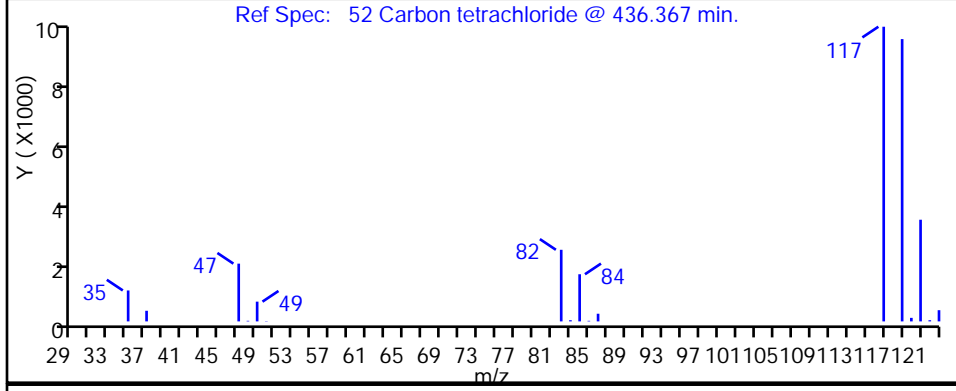
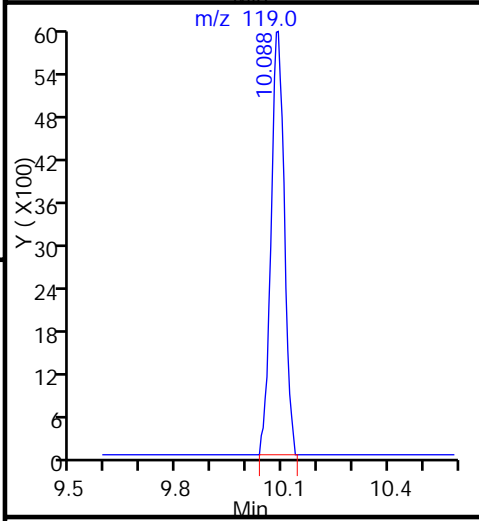
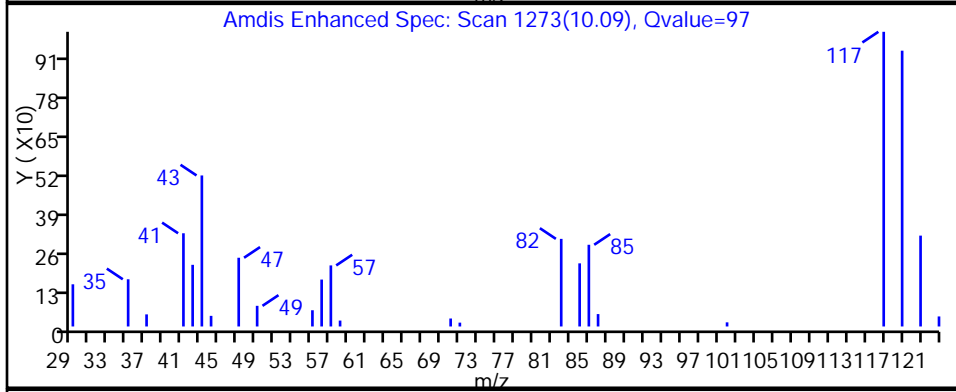
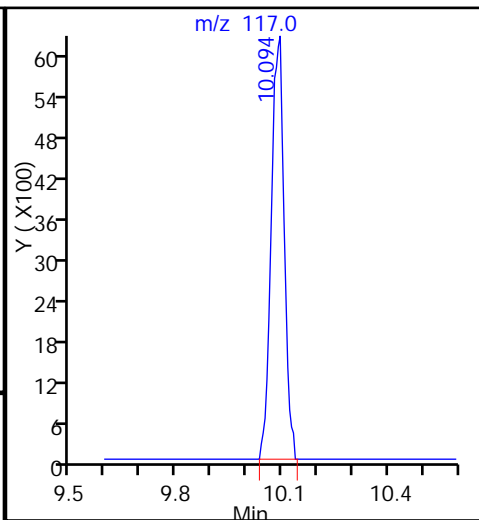
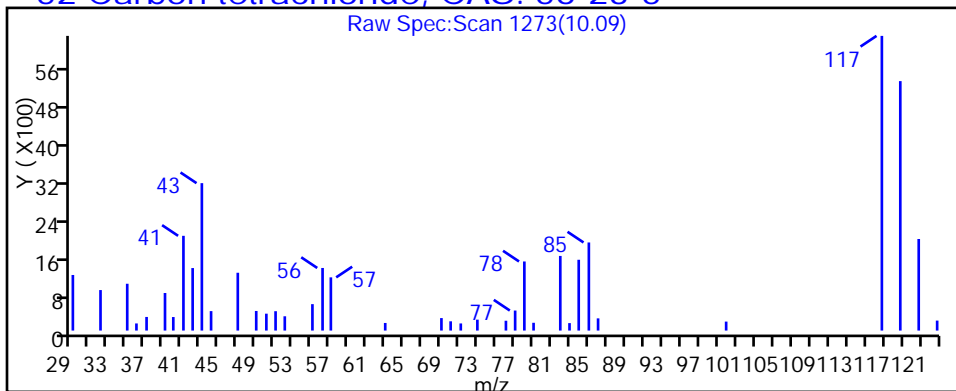
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

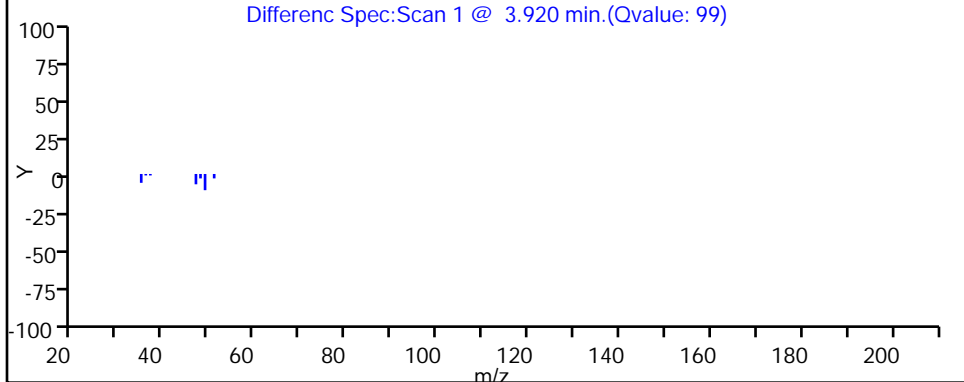
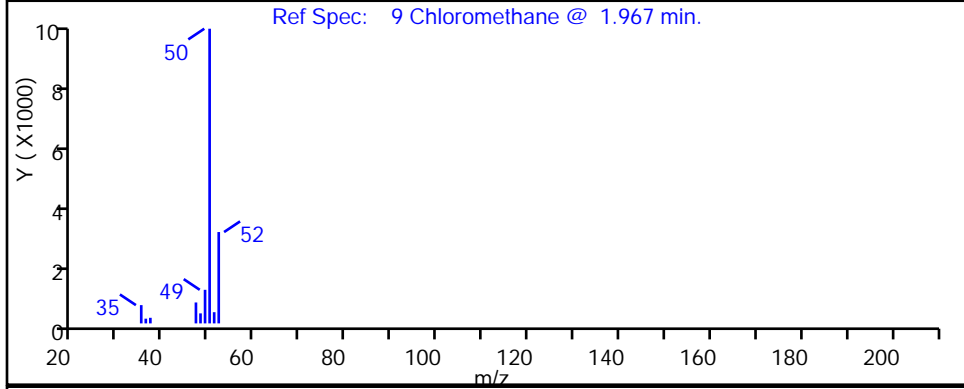
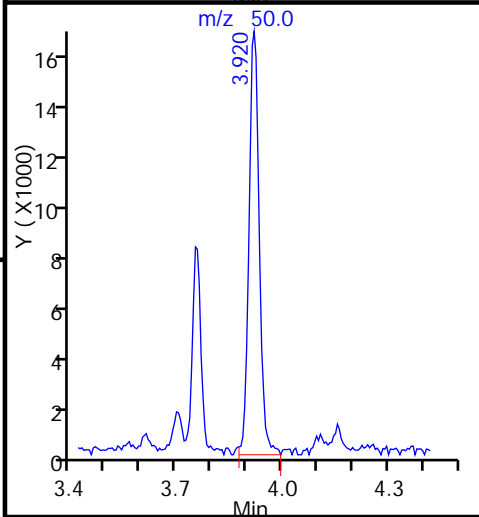
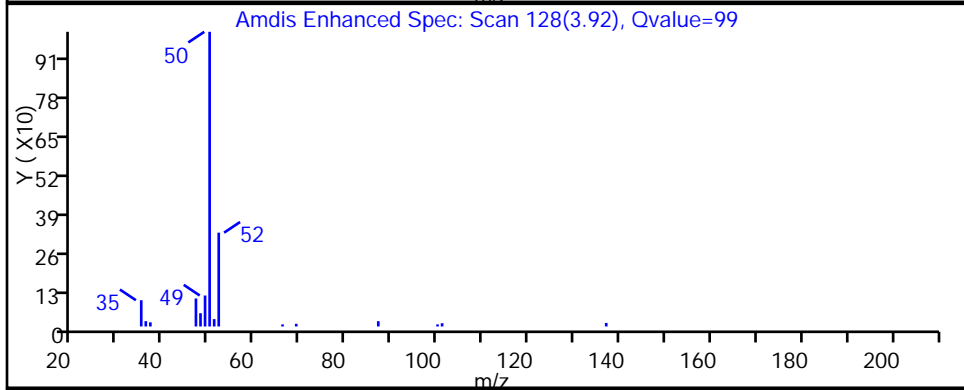
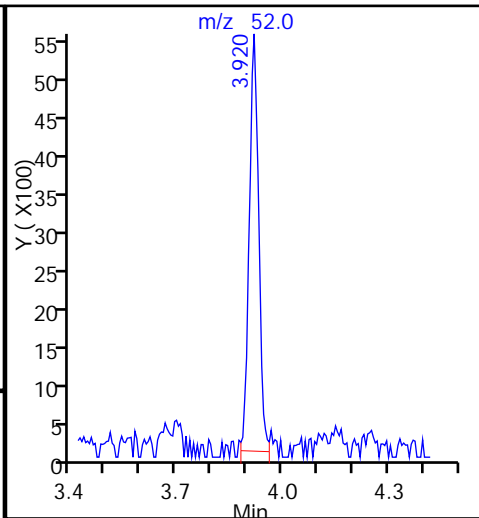
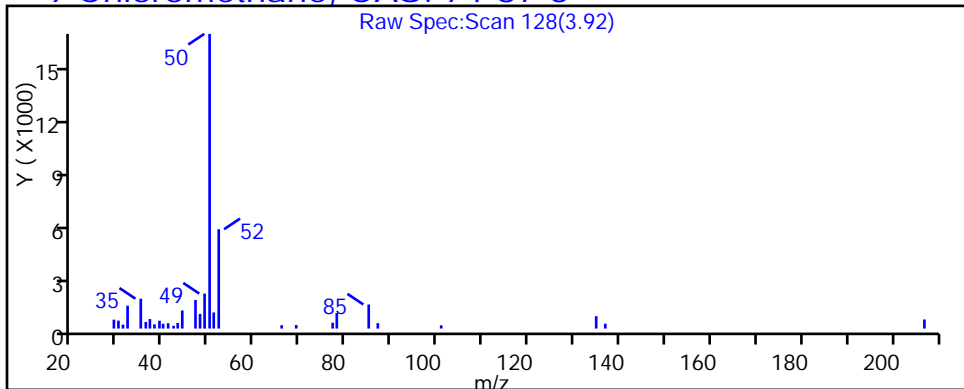
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

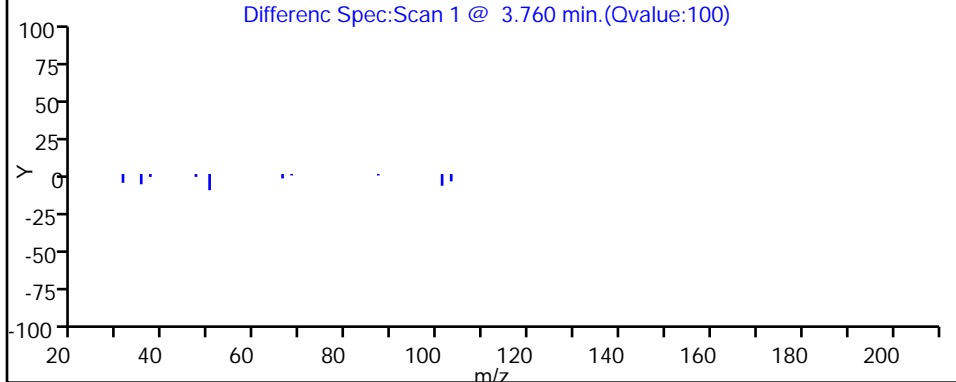
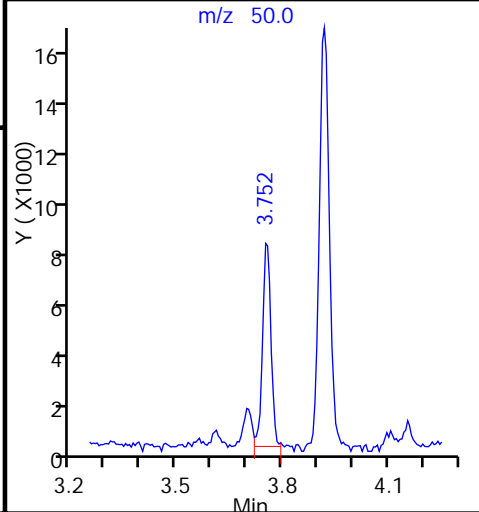
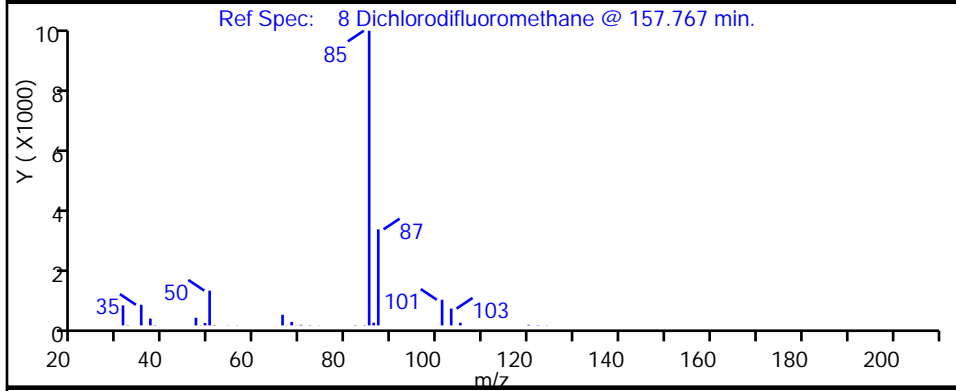
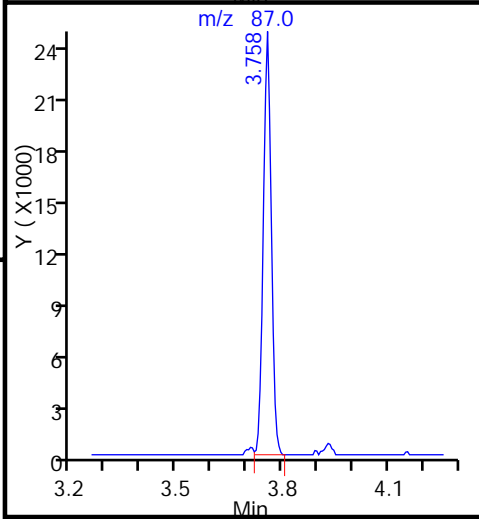
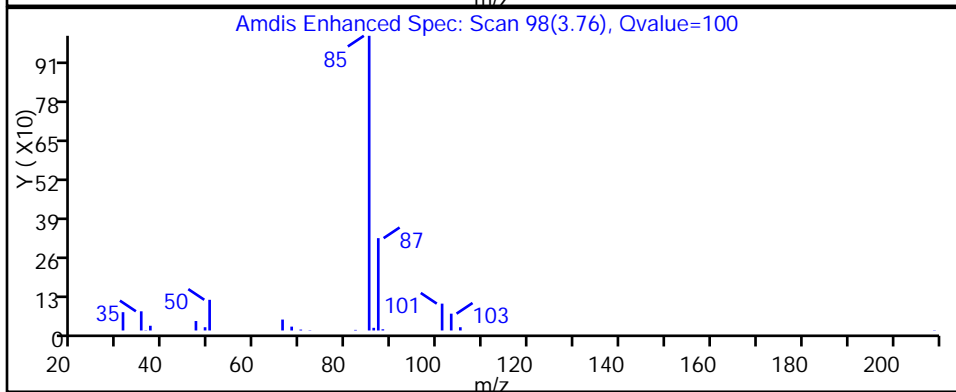
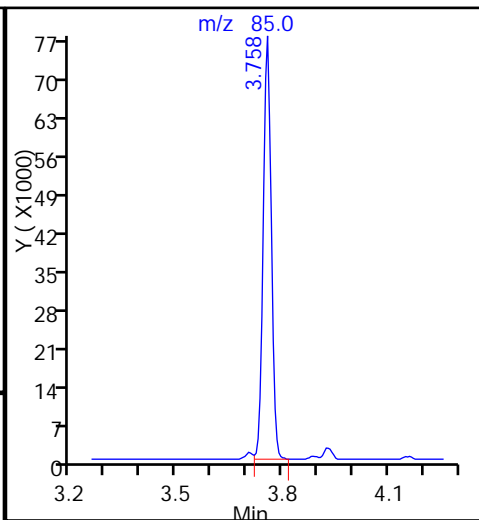
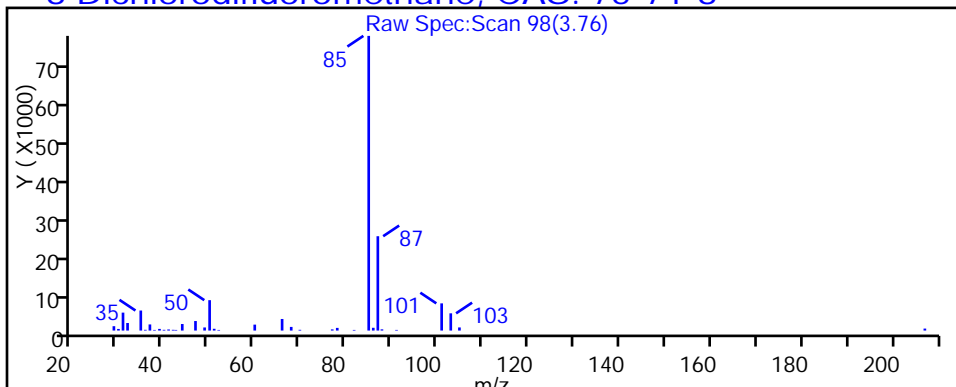
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

8 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

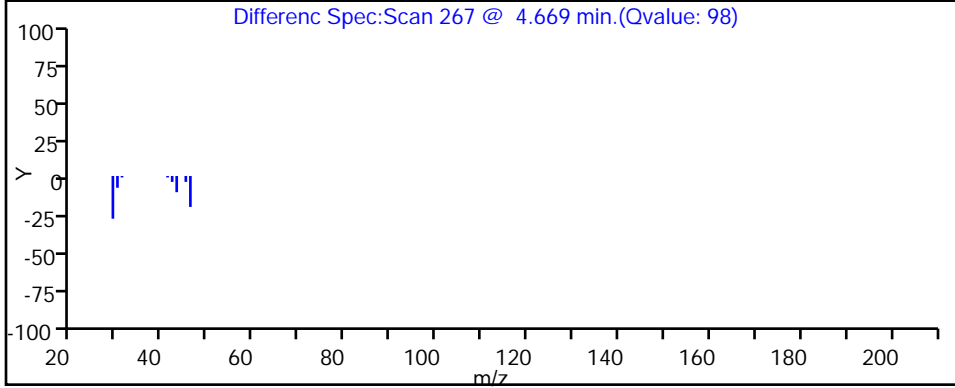
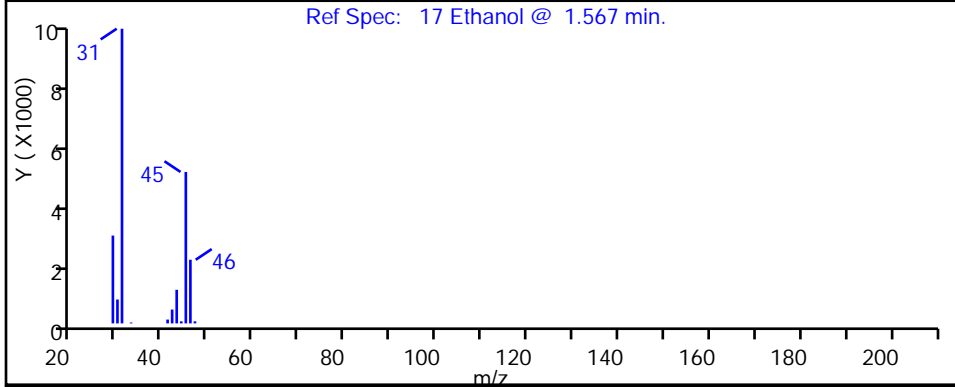
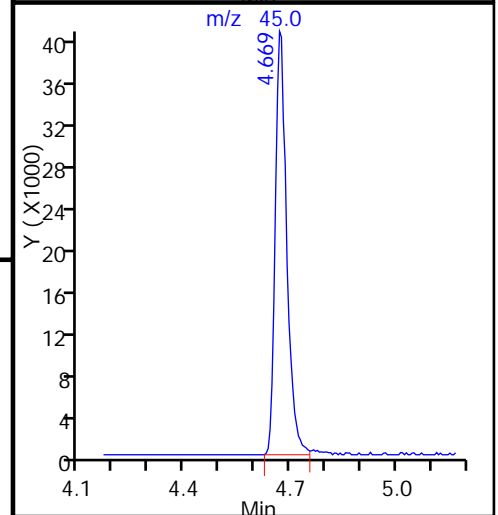
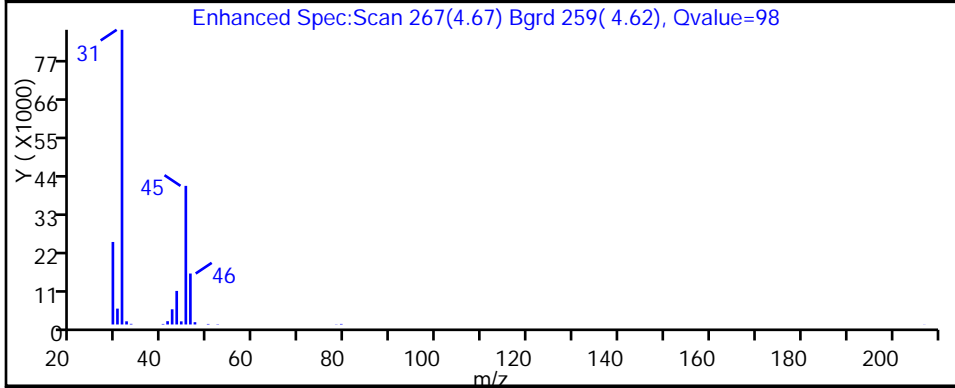
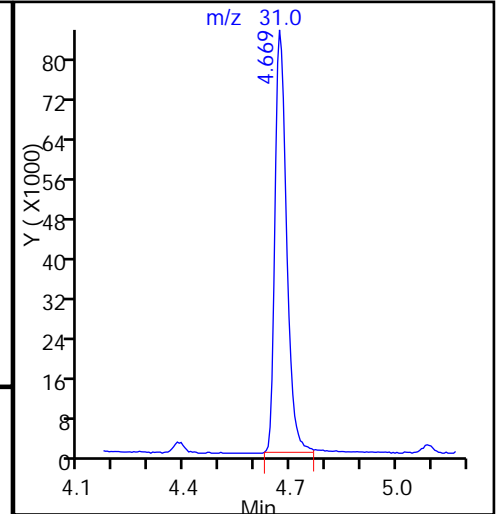
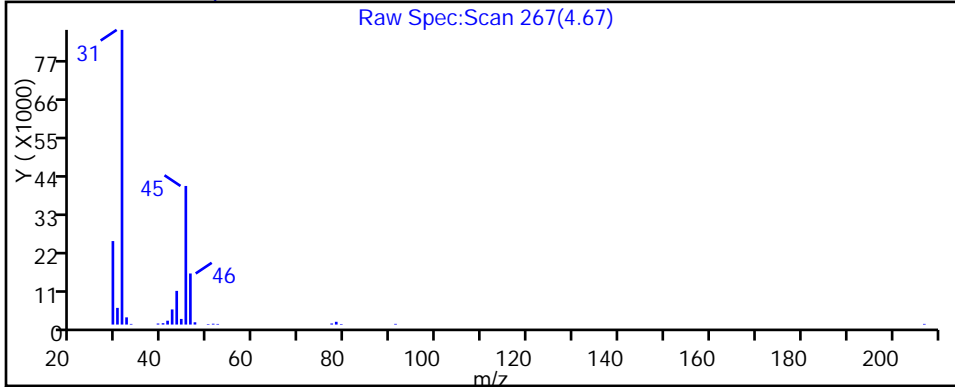
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

17 Ethanol, CAS: 64-17-5



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

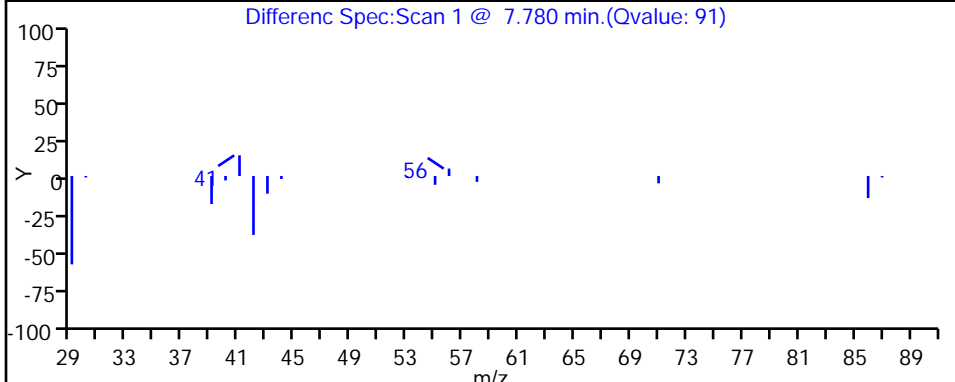
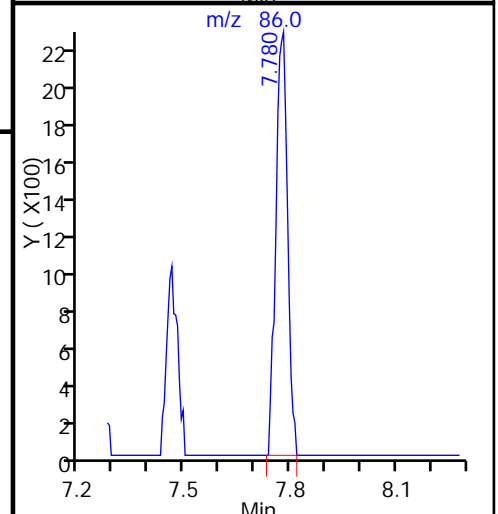
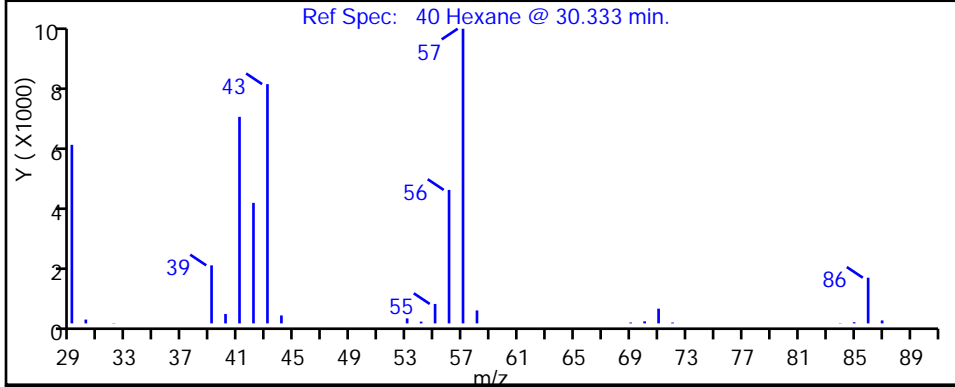
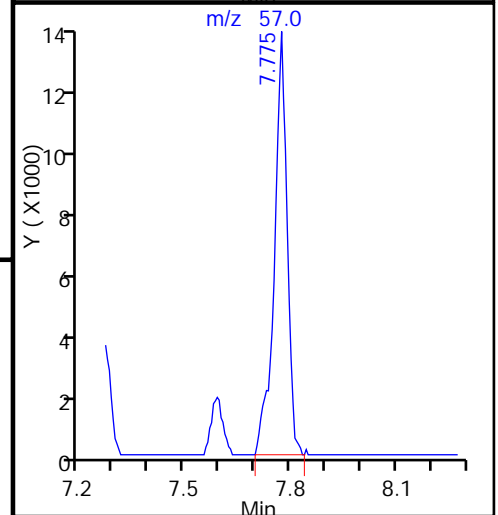
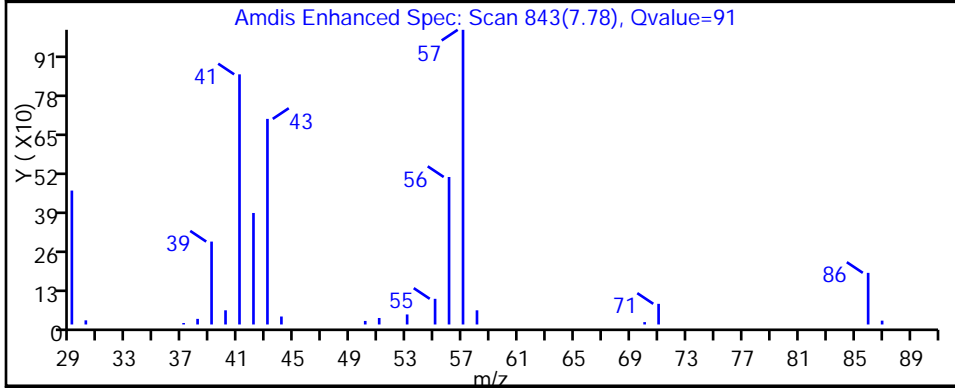
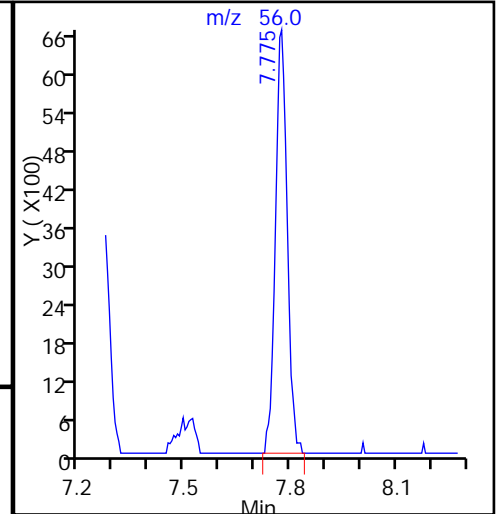
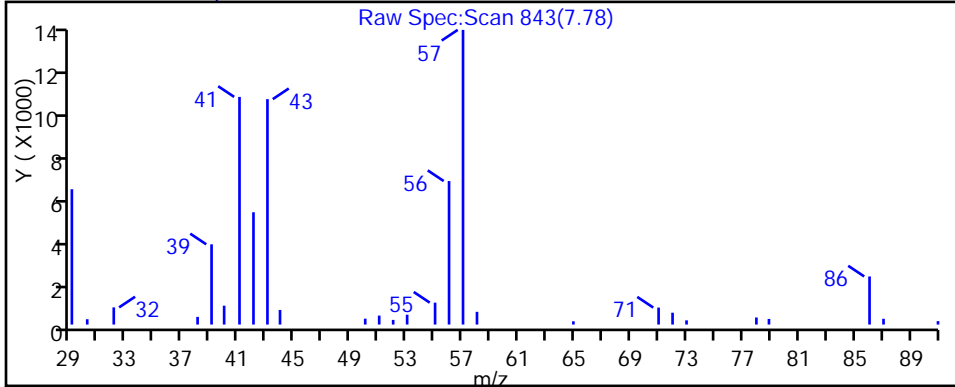
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

40 Hexane, CAS: 110-54-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

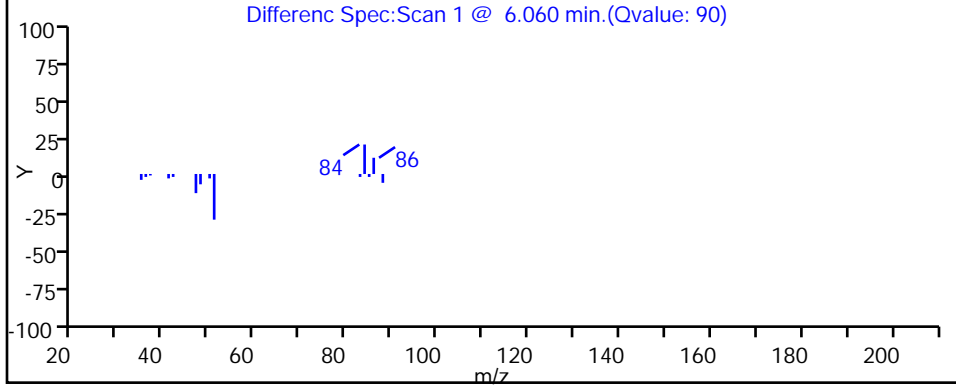
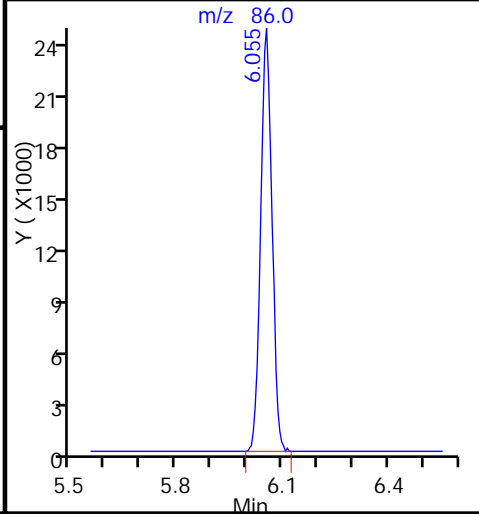
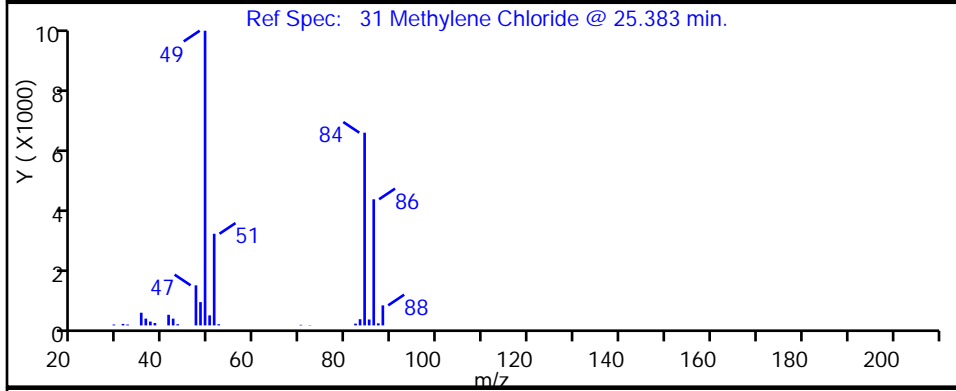
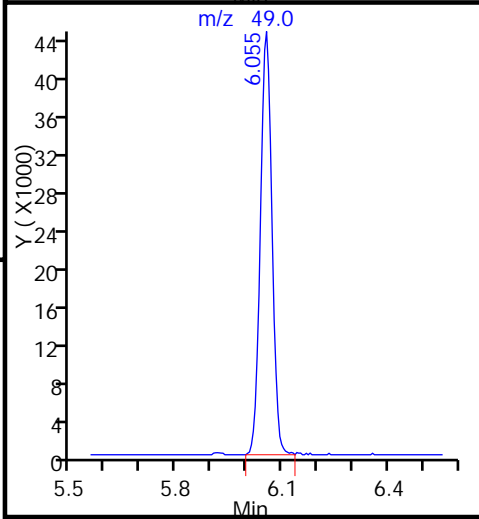
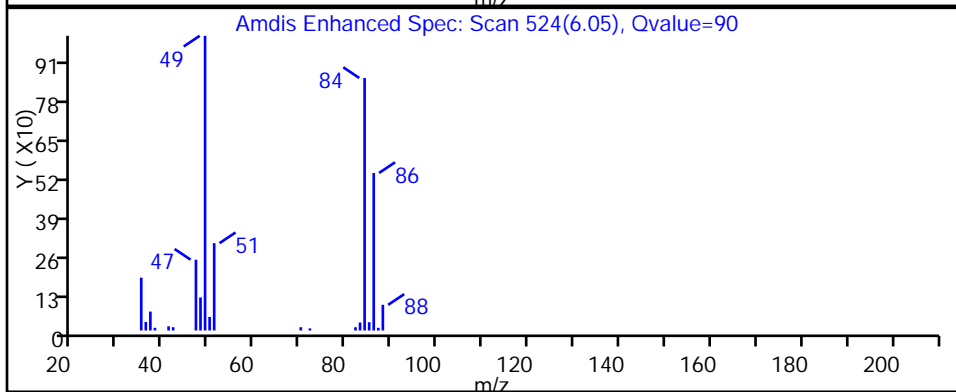
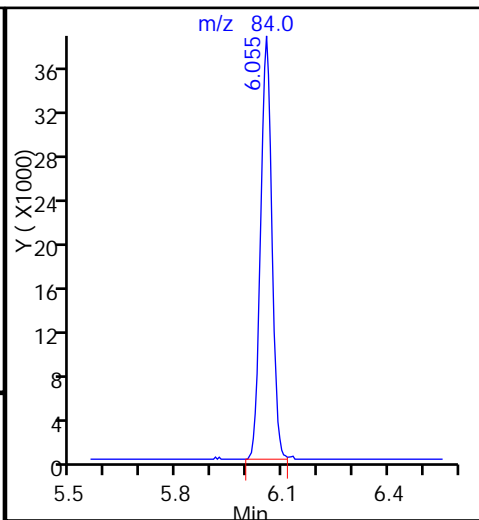
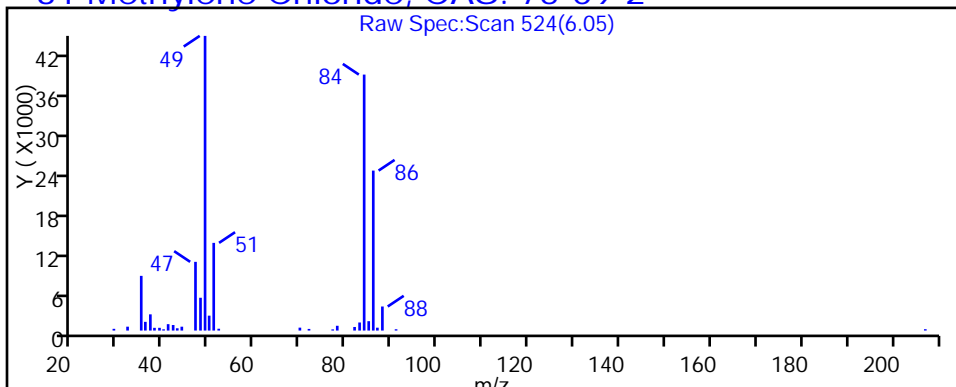
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

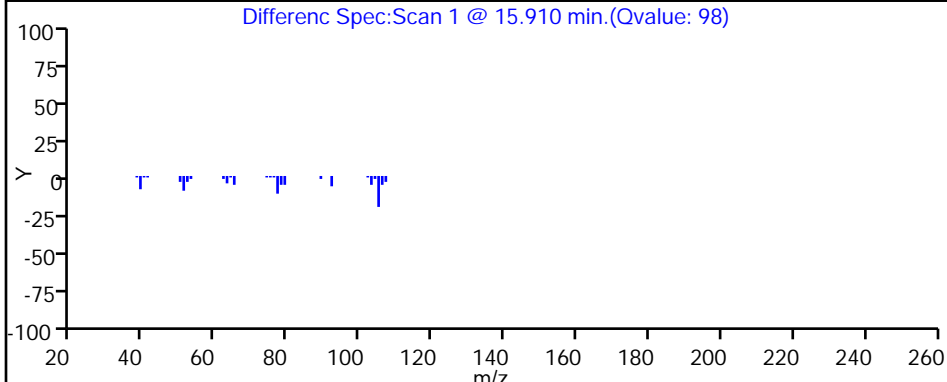
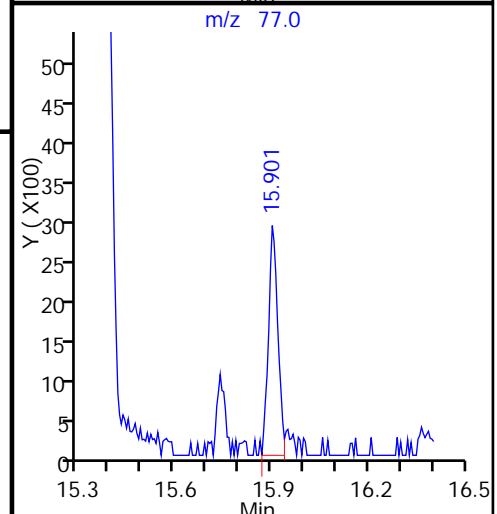
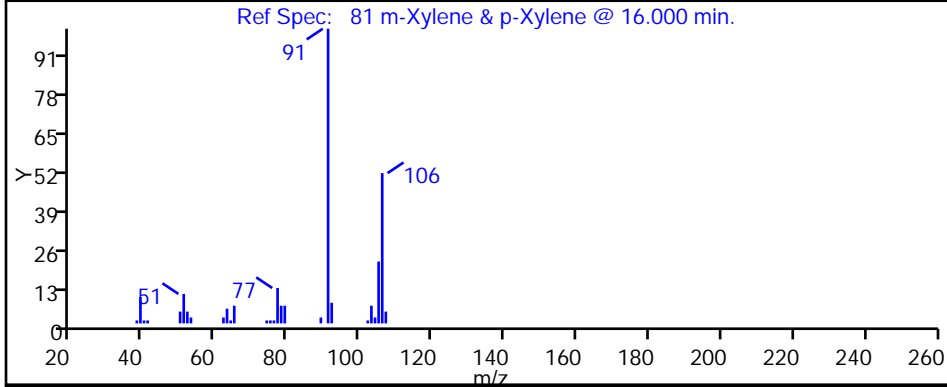
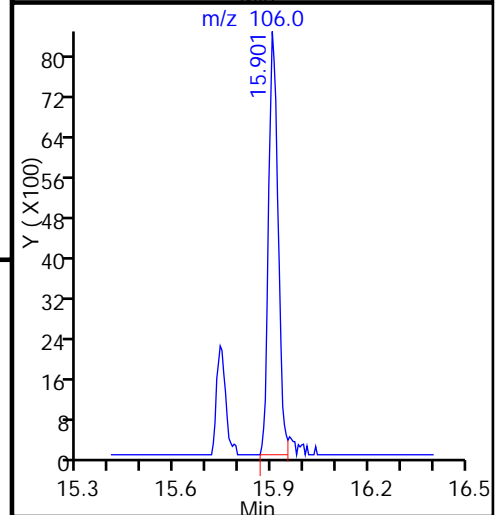
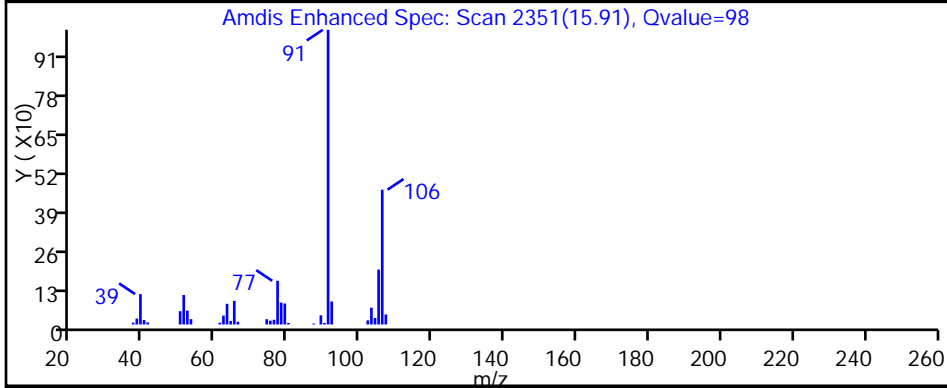
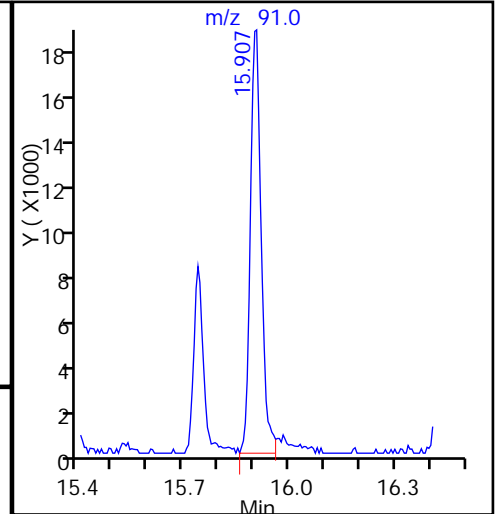
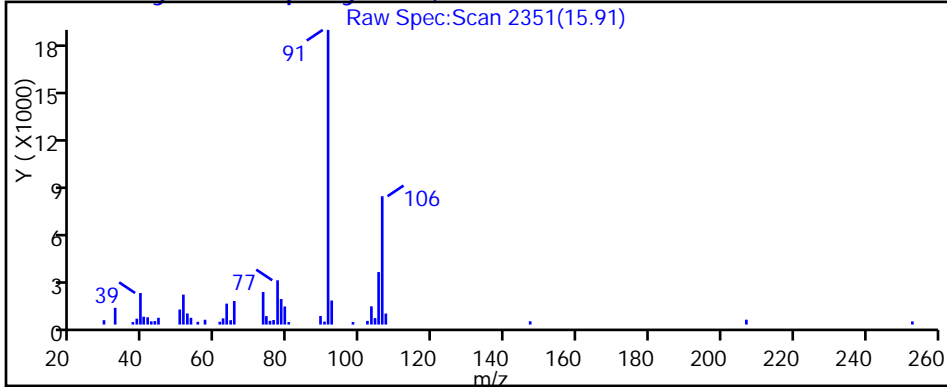
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

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



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

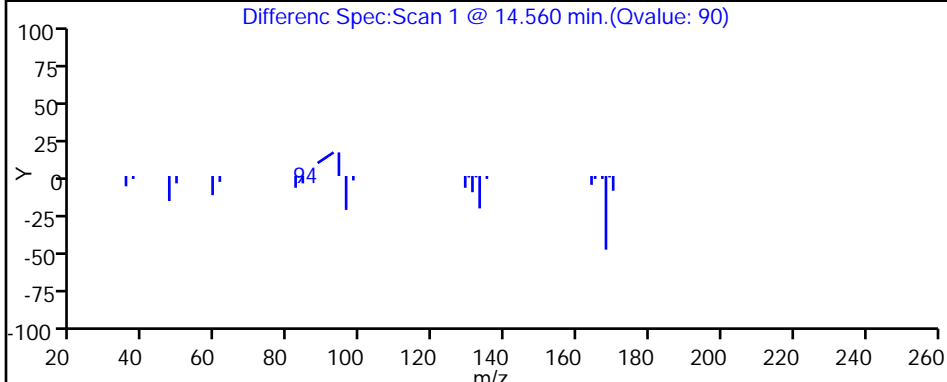
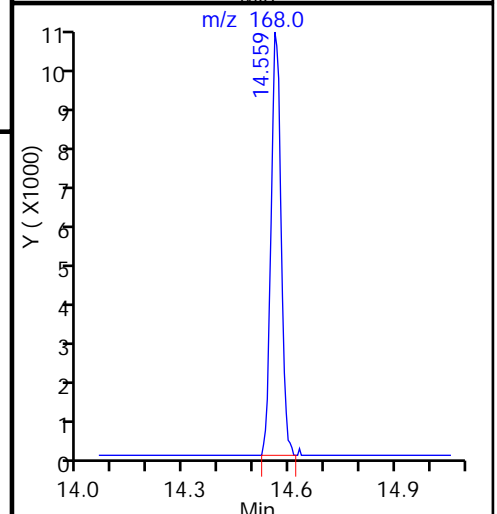
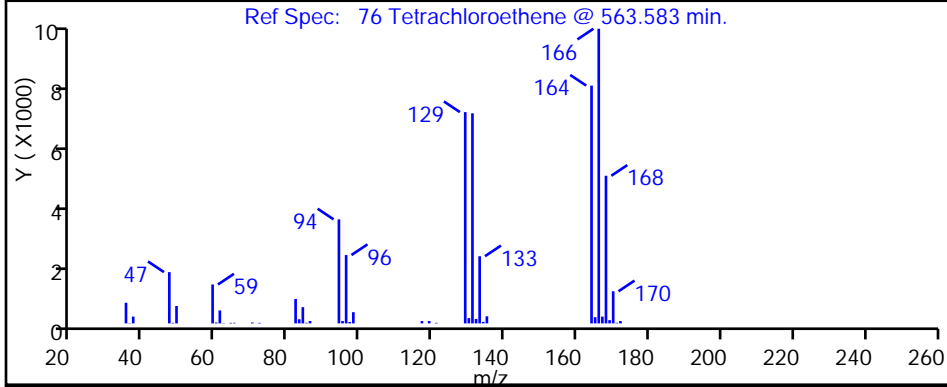
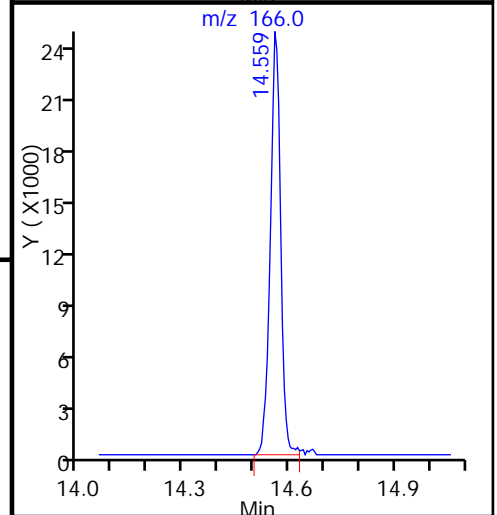
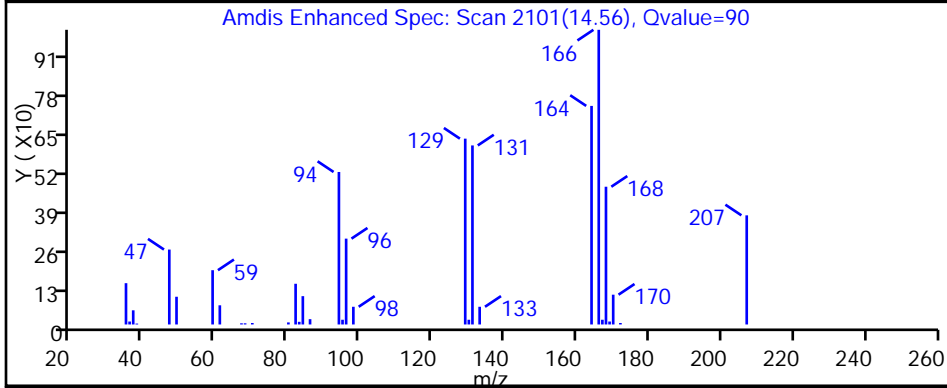
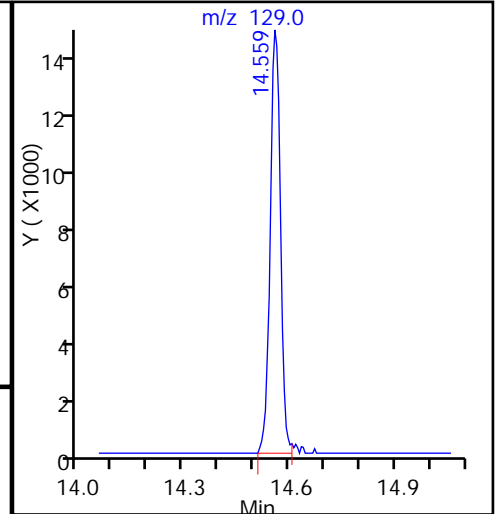
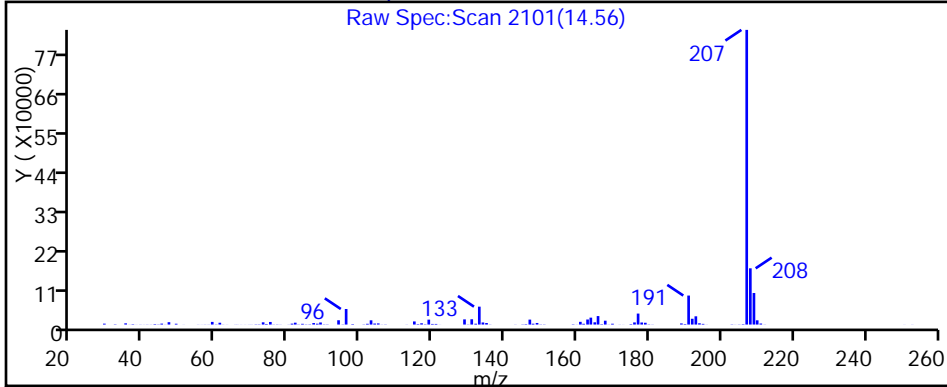
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

76 Tetrachloroethene, CAS: 127-18-4



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

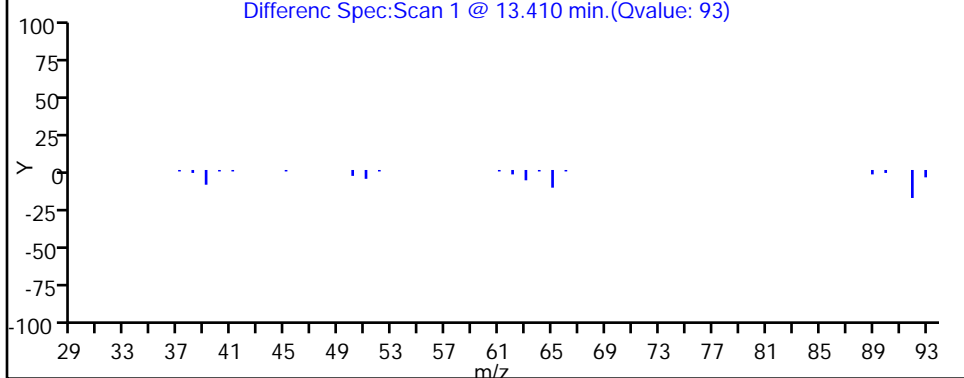
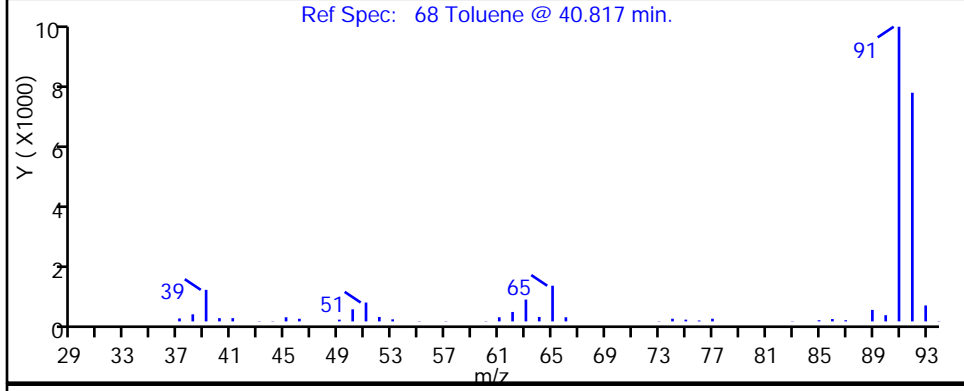
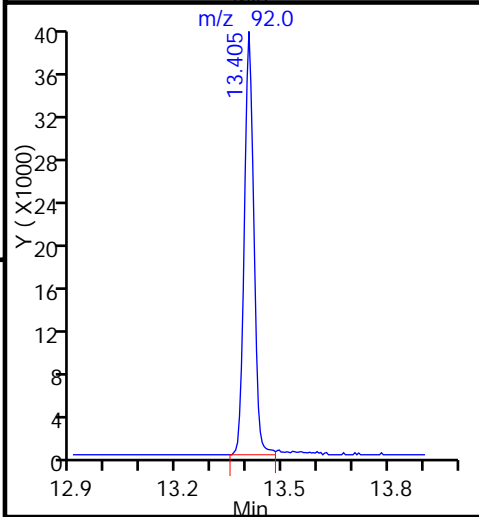
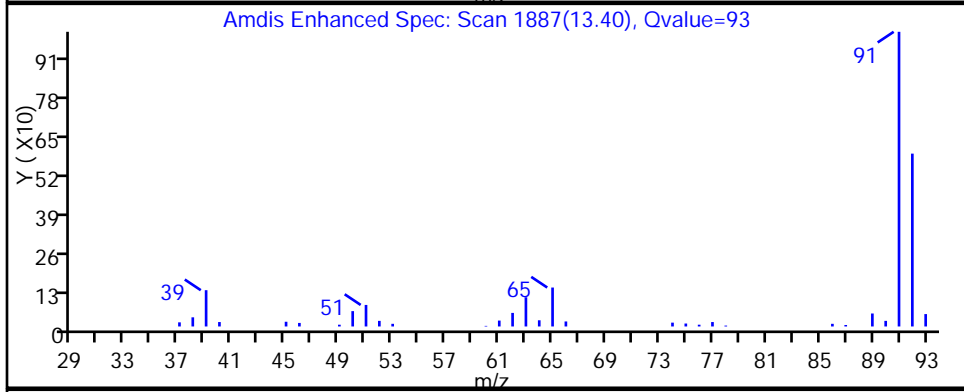
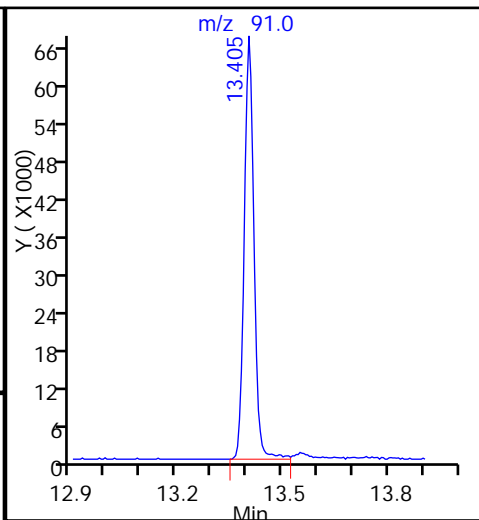
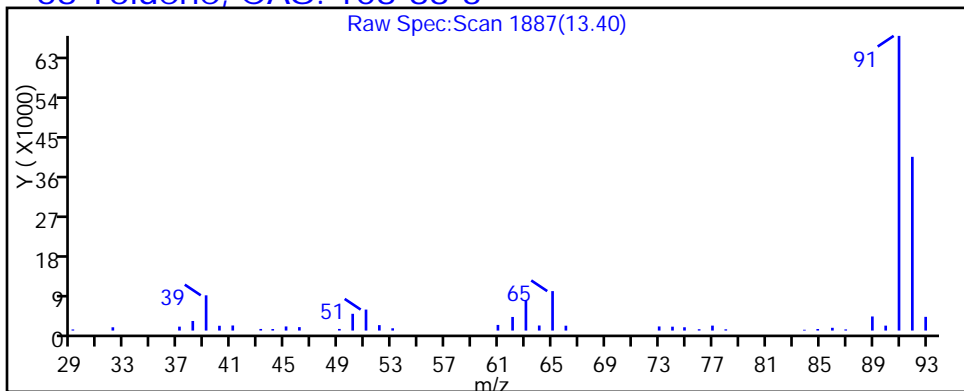
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GI21P114.D

Injection Date: 22-Sep-2016 03:11:30

Instrument ID: MG

Lims ID: 140-5852-A-14

Lab Sample ID: 140-5852-14

Client ID: AMBIENT AIR

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 19

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

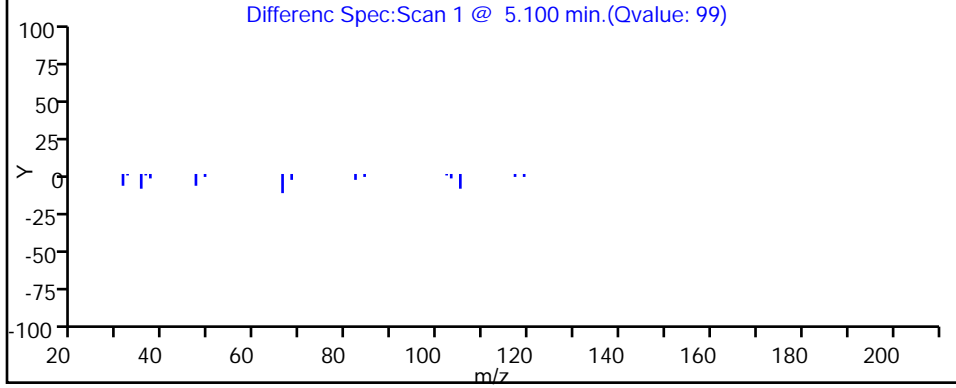
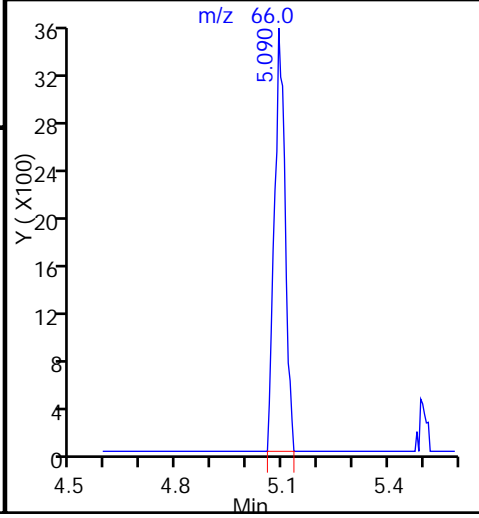
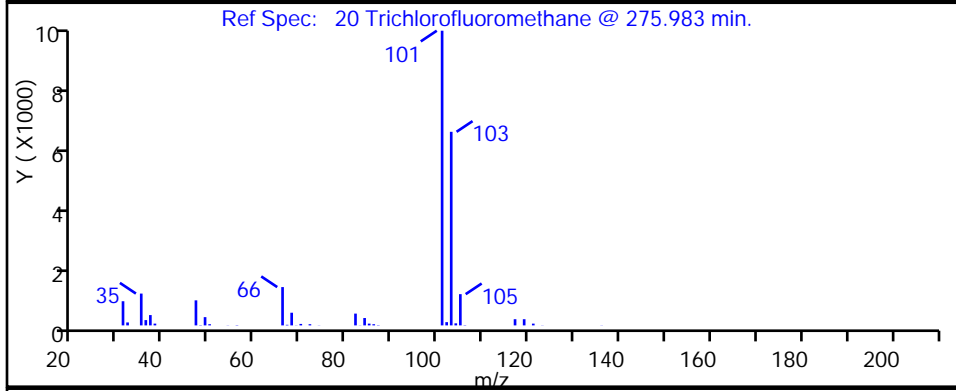
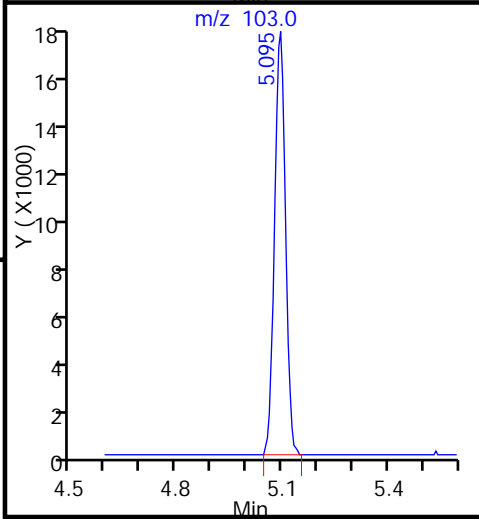
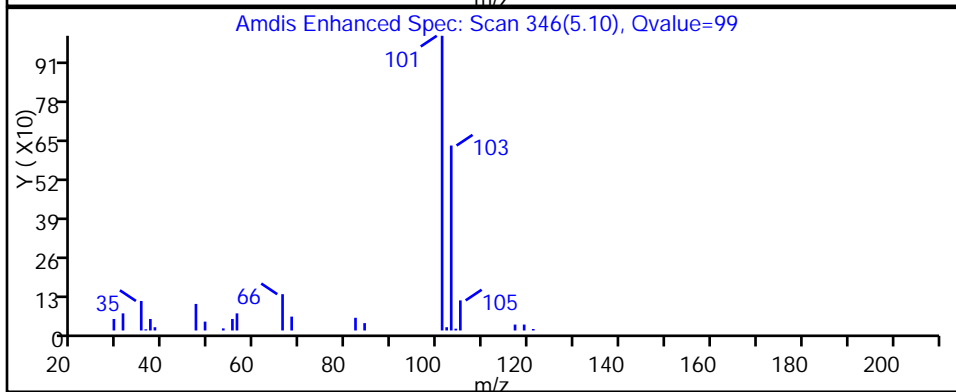
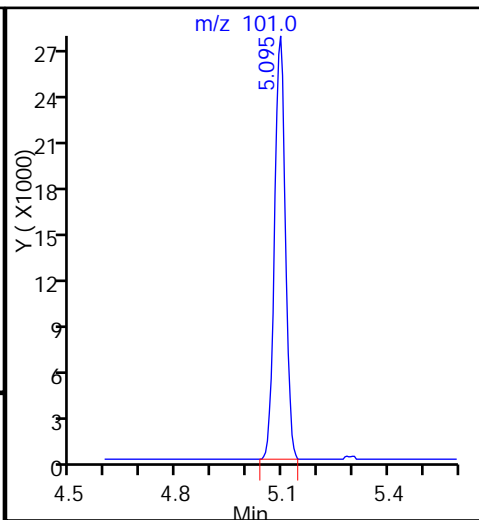
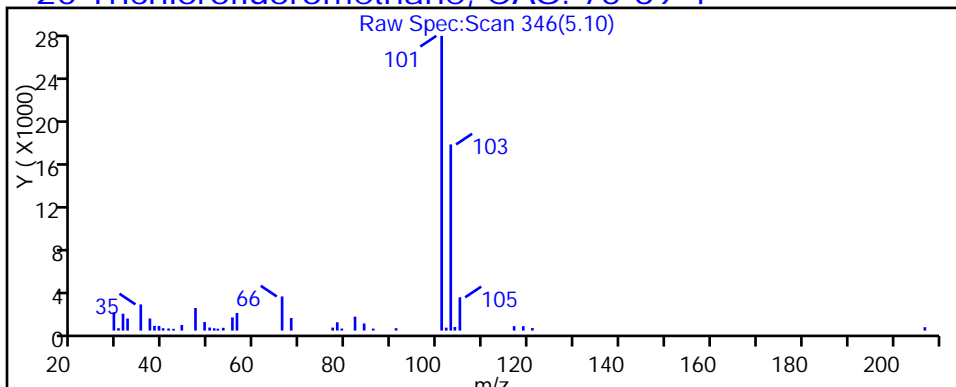
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

20 Trichlorofluoromethane, CAS: 75-69-4



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1 Analy Batch No.: 5925

SDG No.: _____

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

Calibration Start Date: 07/20/2016 14:35 Calibration End Date: 07/20/2016 20:22 Calibration ID: 721

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-5925/2	GG20ICL1.D
Level 2	IC 140-5925/3	GG20ICL2.D
Level 3	IC 140-5925/4	GG20ICL3.D
Level 4	IC 140-5925/5	GG20ICL4.D
Level 5	IC 140-5925/6	GG20ICL5.D
Level 6	ICIS 140-5925/7	GG20ICL6.D
Level 7	IC 140-5925/8	GG20ICL7.D
Level 8	IC 140-5925/9	GG20ICL8.D
Level 9	IC 140-5925/10	GG20ICL9.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	0.4176 0.3715	0.3314 0.3158	0.2752 0.3389	0.2816 0.3059	0.3534	Ave	0.3324				13.5		30.0				
Propene	1.9018 1.3612	1.6567 1.2036	1.6806 1.2095	1.3925 1.1119	1.3024	Ave	1.4245				18.6		30.0				
Dichlorodifluoromethane	4.0679 3.5253	3.6296 3.1789	3.5575 3.2621	3.3450 3.0355	3.3547	Ave	3.4396				8.8		30.0				
Chloromethane	++++ 0.4044	0.4314 0.3689	0.4505 0.3690	0.3908 0.3259	0.3753	Ave	0.3895				10.1		30.0				
1,2-Dichlorotetrafluoroethane	2.4258 2.1948	2.2175 2.0397	2.2075 2.1131	2.0987 2.0292	2.0970	Ave	2.1581				5.6		30.0				
Acetaldehyde	++++ 0.5796	++++ 0.4680	++++ 0.4427	1.0795 ++++	0.6495	Ave	0.6438				40.0	*	30.0				
Vinyl chloride	1.5206 1.2776	1.2740 1.2203	1.3485 1.1967	1.2046 1.0598	1.2243	Ave	1.2585				10.0		30.0				
1,3-Butadiene	1.2974 1.0489	1.0617 1.0024	1.0853 0.9757	0.9723 0.8721	0.9924	Ave	1.0342				11.3		30.0				
Butane	2.6625 2.2597	2.2558 2.1541	2.4672 2.0816	2.2794 1.8242	2.1462	Ave	2.2368				10.6		30.0				
Bromomethane	1.3106 1.0597	1.1154 1.0397	1.0725 1.0420	0.9964 0.9496	1.0166	Ave	1.0670				9.6		30.0				
Chloroethane	0.7275 0.6086	0.6032 0.6136	0.6314 0.5986	0.5778 0.5436	0.5878	Ave	0.6102				8.3		30.0				
Ethanol	++++ 0.5761	++++ 0.5603	0.6964 0.5058	0.5994 0.4913	0.5869	Ave	0.5737				11.8		30.0				
Vinyl bromide	1.2086 1.0161	1.0451 1.0267	1.0333 1.0162	0.9776 0.9332	0.9847	Ave	1.0268				7.4		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
CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1 Analy Batch No.: 5925
 SDG No.: _____
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 07/20/2016 14:35 Calibration End Date: 07/20/2016 20:22 Calibration ID: 721

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	1.8562 1.4717	1.5492 1.5440	1.5973 1.4483	1.4121 1.2609	1.4527	Ave		1.5103			10.7		30.0				
Acrolein	++++ 0.3099	++++ 0.3033	0.4666 0.2763	0.3756 0.2502	0.3560	LinF		0.2587						0.9920		0.9900	
Trichlorofluoromethane	3.7804 3.2737	3.2330 3.1786	3.3182 3.1339	3.0837 2.9455	3.1391	Ave		3.2318			7.2		30.0				
Acetonitrile	++++ 0.4866	0.6128 0.5158	0.5802 0.4494	0.5092 0.4484	0.5064	Ave		0.5136			11.3		30.0				
Acetone	++++ 0.5322	++++ 0.4690	++++ 0.4236	0.8796 0.4264	0.6092	Ave		0.5566			31.1	*	30.0				
Isopropyl alcohol	1.9972 1.7874	1.7803 1.8183	1.8708 1.5904	1.7726 1.5335	1.8433	Ave		1.7771			7.9		30.0				
Pentane	0.2192 0.1876	0.1849 0.1924	0.1863 0.1846	0.1876 0.1618	0.1866	Ave		0.1879			7.8		30.0				
Ethyl ether	1.3881 1.2487	1.2528 1.4318	1.1904 1.2184	1.2581 1.1807	1.3081	Ave		1.2752			6.7		30.0				
1,1-Dichloroethene	1.2070 0.9536	0.9879 0.9949	1.0087 0.9359	0.8875 0.8797	0.9263	Ave		0.9757			10.0		30.0				
Acrylonitrile	0.8198 0.6105	0.6678 0.6996	0.6558 0.5960	0.6070 0.6028	0.6284	Ave		0.6542			10.9		30.0				
t-Butyl alcohol	1.9088 1.7837	1.7108 1.8163	1.8433 1.4381	1.7437 1.6532	1.8283	Ave		1.7474			7.9		30.0				
1,1,2-Trichlorotrifluoroethane	2.3070 1.9812	1.9444 2.0228	1.9867 1.9189	1.8393 1.8662	1.9127	Ave		1.9755			7.0		30.0				
Methylene Chloride	++++ 0.9231	++++ 0.9538	1.2994 0.8944	0.9736 0.8450	0.9255	Ave		0.9736			15.4		30.0				
3-Chloropropene	1.8681 1.3955	1.8157 1.3215	1.3157 1.2967	1.3322 1.1171	1.3275	Ave		1.4211			17.6		30.0				
Carbon disulfide	3.4656 3.4017	3.1082 3.0673	3.0217 3.2077	2.9856 2.9316	3.2357	Ave		3.1584			5.8		30.0				
trans-1,2-Dichloroethene	1.2769 1.2358	1.1873 1.1271	1.2174 1.1341	1.1330 1.0853	1.1667	Ave		1.1737			5.2		30.0				
2-Methylpentane	3.6371 3.1924	2.9202 2.8568	3.0981 2.8539	2.9140 2.6417	3.0595	Ave		3.0193			9.3		30.0				
Methyl tert-butyl ether	3.0459 3.2543	3.0206 3.0849	2.8762 2.9711	3.2007 3.1976	3.2723	Ave		3.1026			4.4		30.0				
1,1-Dichloroethane	2.7908 2.4400	2.4190 2.2440	2.4363 2.2501	2.3103 2.2508	2.3616	Ave		2.3892			7.2		30.0				
Vinyl acetate	3.2076 3.8168	3.3105 3.5951	3.0796 3.5582	3.6186 3.5879	3.8022	Ave		3.5085			7.3		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.: 140-5852-1 Analy Batch No.: 5925
 SDG No.: _____
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 07/20/2016 14:35 Calibration End Date: 07/20/2016 20:22 Calibration ID: 721

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	++++	++++	0.8579	0.7586	0.6034	Lin1	0.0636	0.5273						0.9970		0.9900	
	0.5856	0.5150	0.5053	0.5481													
Hexane	1.3236	1.1242	1.0332	1.0176	1.0435	Ave		1.0571			10.7		30.0				
	1.0709	0.9679	0.9843	0.9484													
Isopropyl ether	4.4971	4.5987	4.3829	4.9179	4.8377	Ave		4.5999			4.6		30.0				
	4.8101	4.5038	4.3067	4.5444													
cis-1,2-Dichloroethene	1.4002	1.2083	1.2772	1.1954	1.2090	Ave		1.2372			5.7		30.0				
	1.2766	1.1882	1.1904	1.1896													
Ethyl acetate	2.7241	2.5922	2.5262	3.0035	3.1280	Ave		2.8862			8.0		30.0				
	3.1329	2.9287	2.8410	3.0992													
Chloroform	3.0248	2.7773	2.6719	2.6051	2.6486	Ave		2.6717			6.0		30.0				
	2.7275	2.5389	2.5163	2.5351													
Tert-butyl ethyl ether	3.2929	3.5952	3.3458	3.8535	3.8823	Ave		3.6534			6.2		30.0				
	3.8929	3.6795	3.5484	3.7899													
Tetrahydrofuran	1.6108	1.6045	1.3847	1.6202	1.6201	Ave		1.5604			5.5		30.0				
	1.6329	1.5190	1.4660	1.5852													
1,1,1-Trichloroethane	3.2767	2.9523	2.9284	2.8902	2.9315	Ave		2.9470			4.9		30.0				
	3.0505	2.8050	2.8299	2.8586													
1,2-Dichloroethane	0.4504	0.3890	0.4369	0.3751	0.3760	Ave		0.3971			7.9		30.0				
	0.4252	0.3700	0.3802	0.3714													
1-Butanol	++++	0.1155	0.1400	0.1200	0.1188	Ave		0.1182			12.3		30.0				
	0.1369	0.1121	0.0975	0.1052													
Benzene	0.8697	0.7384	0.8106	0.7129	0.7132	Ave		0.7345			10.7		30.0				
	0.7924	0.6785	0.6816	0.6130													
Cyclohexane	++++	0.1437	0.1539	0.1215	0.1198	Ave		0.1257			14.3		30.0				
	0.1381	0.1147	0.1141	0.0997													
Carbon tetrachloride	0.6350	0.5186	0.5522	0.5659	0.4787	Ave		0.5786			10.3		30.0				
	0.6757	0.5861	0.6117	0.5838													
2,3-Dimethylpentane	++++	0.1795	0.2092	0.1672	0.1654	Ave		0.1739			10.7		30.0				
	0.1919	0.1598	0.1648	0.1533													
Thiophene	0.5028	0.4257	0.4773	0.3987	0.3962	Ave		0.4257			10.1		30.0				
	0.4542	0.3897	0.4041	0.3822													
Tert-amyl methyl ether	++++	0.6078	0.7163	0.6946	0.6737	Ave		0.6756			6.6		30.0				
	0.7508	0.6556	0.6454	0.6605													
2,2,4-Trimethylpentane	1.7666	1.3656	1.6012	1.3040	1.2845	Ave		1.3841			14.3		30.0				
	1.4893	1.2311	1.2595	1.1554													
Heptane	0.3572	0.2733	0.3167	0.2535	0.2575	Ave		0.2770			14.2		30.0				
	0.2968	0.2459	0.2561	0.2358													
1,2-Dichloropropane	0.3755	0.2798	0.3290	0.2836	0.2851	Ave		0.2975			12.2		30.0				
	0.3168	0.2721	0.2733	0.2624													

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.: 140-5852-1 Analy Batch No.: 5925
 SDG No.: _____
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 07/20/2016 14:35 Calibration End Date: 07/20/2016 20:22 Calibration ID: 721

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	0.4750 0.3874	0.3763 0.3326	0.4323 0.3434	0.3262 0.3305	0.3271	Ave	0.3701				14.4		30.0				
Dibromomethane	0.4034 0.3383	0.3155 0.2839	0.3568 0.2916	0.2910 0.2776	0.2901	Ave	0.3165				13.3		30.0				
Bromodichloromethane	0.6258 0.6381	0.5199 0.5551	0.6151 0.5684	0.5295 0.5395	0.5434	Ave	0.5705				7.8		30.0				
1,4-Dioxane	0.1071 0.1215	0.0957 0.1018	0.1108 0.0983	0.1039 0.0964	0.1038	Ave	0.1044				7.8		30.0				
Methyl methacrylate	0.3261 0.4401	0.3260 0.3867	0.3739 0.3856	0.6251 0.3969	0.3945	Ave	0.4061				22.0		30.0				
Methylcyclohexane	++++ 0.6290	0.5956 0.5254	0.6820 0.5324	0.5427 0.4909	0.5477	Ave	0.5682				11.0		30.0				
4-Methyl-2-pentanone (MIBK)	0.8339 0.7201	0.7096 0.6048	1.3212 0.6271	0.7336 0.6278	0.7820	Lin1	0.0257	0.6334						0.9930		0.9900	
cis-1,3-Dichloropropene	0.4556 0.4795	0.4206 0.4160	0.4602 0.4280	0.3995 0.4145	0.4217	Ave	0.4329				6.0		30.0				
trans-1,3-Dichloropropene	0.3919 0.4364	0.3907 0.4025	0.4072 0.4159	0.3880 0.4213	0.4136	Ave	0.4075				3.9		30.0				
Toluene Range	++++ 2.3056	++++ 1.9961	++++ 2.0204	1.9927 1.9892	2.0422	Ave	2.0577				6.0		30.0				
Toluene	0.9278 0.9238	0.8626 0.8343	0.9087 0.8392	0.8548 0.8403	0.8772	Ave	0.8743				4.2		30.0				
1,1,2-Trichloroethane	0.2811 0.2682	0.2542 0.2443	0.2689 0.2438	0.2451 0.2426	0.2539	Ave	0.2558				5.4		30.0				
2-Methylthiophene	0.7431 0.7591	0.7199 0.7059	0.7476 0.7259	0.6901 0.7253	0.7391	Ave	0.7284				3.0		30.0				
3-Methylthiophene	0.7505 0.7723	0.6755 0.6891	0.7186 0.7171	0.6719 0.7166	0.7129	Ave	0.7138				4.6		30.0				
2-Hexanone	++++ 0.3141	0.2521 0.2711	0.2760 0.2794	0.2870 0.2952	0.2949	Ave	0.2837				6.6		30.0				
C8 Range	++++ 3.4189	++++ 2.8452	++++ 2.8230	3.4694 2.5862	3.0118	Ave	3.0258				11.6		30.0				
Octane	0.3733 0.3244	0.3086 0.2836	0.3568 0.2833	0.2916 0.2697	0.2937	Ave	0.3095				11.4		30.0				
Dibromochloromethane	0.4930 0.6097	0.4441 0.5869	0.5221 0.6014	0.5093 0.6091	0.5525	Ave	0.5476				10.8		30.0				
1,2-Dibromoethane	0.4693 0.5263	0.4072 0.4777	0.4918 0.4940	0.4665 0.5021	0.4868	Ave	0.4802				6.8		30.0				
Tetrachloroethene	0.4071 0.3571	0.3499 0.3196	0.3921 0.3331	0.3230 0.3355	0.3275	Ave	0.3494				8.9		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.: 140-5852-1

Analy Batch No.: 5925

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2016 14:35

Calibration End Date: 07/20/2016 20:22

Calibration ID: 721

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	0.7417 0.7232	0.6915 0.6703	0.7191 0.6813	0.6619 0.6896	0.6823	Ave		0.6957			3.8		30.0				
2,3-Dimethylheptane	1.2726 1.0846	1.0563 0.9485	1.1751 0.9199	1.0154 0.8291	1.0072	Ave		1.0343			12.9		30.0				
Ethylbenzene	1.2055 1.2320	1.0840 1.1239	1.1606 1.1299	1.1580 1.1504	1.1842	Ave		1.1587			3.8		30.0				
2-Ethylthiophene	0.9316 0.9684	0.8379 0.8851	0.9112 0.8962	0.8678 0.9275	0.9194	Ave		0.9050			4.3		30.0				
m-Xylene & p-Xylene	0.9207 0.9598	0.8465 0.8817	0.9090 0.8590	0.8842 0.8849	0.9204	Ave		0.8963			3.9		30.0				
Bromoform	++++ 0.6523	0.3529 0.6710	0.4855 0.7217	0.4740 0.8409	0.5757	Ave		0.5968			26.2		30.0				
Nonane	0.7249 0.6759	0.6310 0.5854	0.7228 0.5482	0.6202 0.4829	0.6317	Ave		0.6248			12.6		30.0				
Styrene	0.5093 0.6620	0.5535 0.6159	0.5802 0.6128	0.5438 0.6422	0.6157	Ave		0.5928			8.4		30.0				
o-Xylene	1.0587 1.0217	0.9572 0.9179	0.9560 0.9069	0.9299 0.9281	0.9785	Ave		0.9617			5.3		30.0				
1,1,2,2-Tetrachloroethane	0.6523 0.7122	0.6377 0.6389	0.6673 0.6243	0.6559 0.6192	0.6850	Ave		0.6548			4.6		30.0				
1,2,3-Trichloropropane	0.1922 0.2191	0.1892 0.1991	0.2065 0.1977	0.2073 0.2103	0.2112	Ave		0.2036			4.8		30.0				
Isopropylbenzene	1.4614 1.4060	1.3224 1.2815	1.3560 1.2619	1.3243 1.3222	1.3497	Ave		1.3428			4.5		30.0				
Propylbenzene	0.3461 0.3747	0.3341 0.3439	0.3512 0.3401	0.3453 0.3628	0.3613	Ave		0.3511			3.7		30.0				
2-Chlorotoluene	0.3366 0.3437	0.3136 0.3182	0.3319 0.3191	0.3146 0.3341	0.3282	Ave		0.3267			3.3		30.0				
4-Ethyltoluene	1.2466 1.3806	1.2010 1.2828	1.2758 1.2664	1.2451 1.3490	1.3128	Ave		1.2845			4.3		30.0				
1,3,5-Trimethylbenzene	0.6124 0.6480	0.5917 0.5884	0.6318 0.5764	0.6087 0.6284	0.6228	Ave		0.6121			3.8		30.0				
Alpha Methyl Styrene	0.3662 0.5549	0.4035 0.5283	0.4070 0.5262	0.4441 0.5705	0.5163	Ave		0.4797			15.6		30.0				
Decane	0.8274 0.8333	0.7524 0.7290	0.8405 0.6869	0.7696 0.6662	0.7843	Ave		0.7655			8.3		30.0				
tert-Butylbenzene	1.1853 1.2571	1.1305 1.1511	1.1987 1.1243	1.1845 1.2497	1.2234	Ave		1.1894			4.1		30.0				
1,2,4-Trimethylbenzene	1.1108 1.2166	1.0560 1.0958	1.1344 1.0759	1.1141 1.1565	1.1606	Ave		1.1245			4.3		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.: 140-5852-1

Analy Batch No.: 5925

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2016 14:35

Calibration End Date: 07/20/2016 20:22

Calibration ID: 721

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	1.6429	1.5639	1.6822	1.6145	1.6773	Ave		1.6285			4.2		30.0				
	1.7364	1.5725	1.5386	+++++													
1,3-Dichlorobenzene	0.6765	0.6327	0.6862	0.6299	0.7142	Ave		0.7289			13.3		30.0				
	0.7717	0.7290	0.7726	0.9476													
Benzyl chloride	0.7603	0.7638	0.7063	0.7379	0.9119	Ave		0.8643			14.3		30.0				
	0.9945	0.9134	0.9467	1.0434													
1,4-Dichlorobenzene	0.6459	0.6127	0.6499	0.6112	0.6967	Ave		0.6970			11.3		30.0				
	0.7505	0.7087	0.7428	0.8548													
4-Isopropyltoluene	1.2649	1.2683	1.3698	1.3241	1.3875	Ave		1.3391			4.9		30.0				
	1.4498	1.3103	1.2768	1.4000													
1,2,3-Trimethylbenzene	0.8804	0.8384	0.8913	0.8678	0.9011	Ave		0.8746			3.9		30.0				
	0.9359	0.8449	0.8269	0.8847													
Butylcyclohexane	0.9563	0.8657	0.9551	0.8442	0.8682	Ave		0.8593			8.5		30.0				
	0.9136	0.7994	0.7674	0.7643													
1,2-Dichlorobenzene	0.6588	0.6277	0.6743	0.6320	0.7090	Ave		0.7092			11.6		30.0				
	0.7505	0.7027	0.7291	0.8988													
Indane	0.9680	0.9192	1.0010	0.9476	1.0305	Ave		1.0021			6.2		30.0				
	1.0796	0.9844	0.9759	1.1123													
Indene	0.5695	0.6069	0.6656	0.6609	0.7472	Ave		0.7075			12.4		30.0				
	0.7969	0.7457	0.7418	0.8331													
Butylbenzene	1.1243	1.0927	1.2116	1.1787	1.2901	Ave		1.2012			7.0		30.0				
	1.3635	1.1916	1.1438	1.2151													
Undecane	0.8031	0.7883	0.8546	0.8125	0.8786	Ave		0.8072			8.6		30.0				
	0.9273	0.7411	0.7319	0.7280													
1,2-Dimethyl-4-Ethylbenzene	0.8739	0.8610	0.9433	0.9342	1.0185	Ave		0.9574			7.7		30.0				
	1.0763	0.9414	0.9268	1.0413													
1,2-Dibromo-3-Chloropropane	0.1783	0.1906	0.2449	0.2412	0.3210	Ave		0.2733			24.8		30.0				
	0.3426	0.3279	0.3394	+++++													
1,2,4,5-Tetramethylbenzene	1.0955	1.0574	1.1326	1.1334	1.2498	Ave		1.1610			7.4		30.0				
	1.3016	1.1032	1.1193	1.2562													
1,2,3,5-Tetramethylbenzene	0.6856	0.6642	0.7120	0.6935	0.7657	Ave		0.7132			6.5		30.0				
	0.7923	0.6718	0.6771	0.7564													
1,2,3,4-Tetramethylbenzene	0.9112	0.8782	0.9517	0.9110	1.0335	Ave		0.9520			8.0		30.0				
	1.0789	0.8751	0.8984	1.0300													
Dodecane	0.6773	0.6538	0.7791	0.5943	0.7685	Ave		0.6564			18.8		30.0				
	0.8283	0.4968	0.4692	0.6402													
1,2,4-Trichlorobenzene	0.2733	0.3050	0.3447	0.2940	0.4490	Ave		0.3964			26.7		30.0				
	0.5215	0.4401	0.5438	+++++													
Naphthalene	0.6518	0.7006	0.8244	0.7401	1.0340	Ave		0.9366			23.1		30.0				
	1.1684	0.9879	1.0580	1.2641													

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.: 140-5852-1 Analy Batch No.: 5925
 SDG No.: _____
 Instrument ID: MG GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 07/20/2016 14:35 Calibration End Date: 07/20/2016 20:22 Calibration ID: 721

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	+++++	0.3528	0.3835	0.3363	0.4970	Ave		0.4909			26.7		30.0				
	0.5837	0.4916	0.5651	0.7172													
Hexachlorobutadiene	0.7109	0.6191	0.6932	0.5881	0.7201	Ave		0.7262			19.9		30.0				
	0.7850	0.5998	0.7538	1.0662													
1,2,3-Trichlorobenzene	0.3325	0.3491	0.4014	0.3206	0.4693	Ave		0.4483			27.1		30.0				
	0.5481	0.4290	0.4822	0.7020													
2-Methylnaphthalene	0.0751	0.0728	0.0974	0.0494	0.0927	Ave		0.0869			34.9		50.0				
	0.1278	0.0695	0.0585	0.1386													
1-Methylnaphthalene	0.0908	0.0843	0.1173	0.0489	0.0963	Ave		0.0864			33.5		50.0				
	0.1245	0.0603	0.0464	0.1088													
4-Bromofluorobenzene (Surr)	0.6829	0.6883	0.6876	0.6850	0.7027	Ave		0.6982			1.8		30.0				
	0.7120	0.7011	0.7138	0.7107													

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.: 140-5852-1 Analy Batch No.: 5925

SDG No.: _____

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

Calibration Start Date: 07/20/2016 14:35 Calibration End Date: 07/20/2016 20:22 Calibration ID: 721

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-5925/2	GG20ICL1.D
Level 2	IC 140-5925/3	GG20ICL2.D
Level 3	IC 140-5925/4	GG20ICL3.D
Level 4	IC 140-5925/5	GG20ICL4.D
Level 5	IC 140-5925/6	GG20ICL5.D
Level 6	ICIS 140-5925/7	GG20ICL6.D
Level 7	IC 140-5925/8	GG20ICL7.D
Level 8	IC 140-5925/9	GG20ICL8.D
Level 9	IC 140-5925/10	GG20ICL9.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	1547 75728	2694 140925	4318 294779	11690 572180	39289	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Propene	CBM	Ave	7045 277489	13468 537146	26368 1052036	57800 2080056	144801	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	15069 718672	29507 1418649	55817 2837454	138848 5678698	372975	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	++++ 82440	3507 164623	7069 320957	16220 609751	41724	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichlorotetrafluoroethane	CBM	Ave	8986 447434	18027 910251	34635 1838047	87116 3796193	233143	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	++++ 590744	++++ 1044207	++++ 1925305	224034 ++++	361069	++++ 9.99	++++ 20.0	++++ 40.0	2.00 ++++	5.01
Vinyl chloride	CBM	Ave	5633 260455	10357 544569	21158 1040943	50003 1982700	136120	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	4806 213821	8631 447350	17029 848637	40358 1631451	110336	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butane	CBM	Ave	9863 460671	18339 961293	38711 1810606	94615 3412597	238615	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	4855 216035	9068 463986	16828 906390	41360 1776563	113027	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	2695 124069	4904 273844	9907 520661	23985 1017022	65347	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	++++ 587204	++++ 1250268	54635 2199820	124400 4595132	326275	++++ 9.99	++++ 20.0	0.793 40.0	2.00 80.0	5.01
Vinyl bromide	CBM	Ave	4477 207147	8496 458193	16212 883890	40581 1745819	109477	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	6876 300017	12594 689050	25061 1259754	58613 2358887	161516	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.: 140-5852-1

Analy Batch No.: 5925

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2016 14:35

Calibration End Date: 07/20/2016 20:22

Calibration ID: 721

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	LinF	++++ 63175	++++ 135357	7321 240321	15589 468106	39576	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Trichlorofluoromethane	CBM	Ave	14004 667379	26283 1418491	52062 2725911	128002 5510367	349002	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	++++ 99206	4982 230175	9104 390880	21135 838856	56302	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	++++ 325482	++++ 628006	++++ 1105348	++++ 2393008	109538 203195	++++ 5.99	++++ 12.0	++++ 24.0	1.20 48.0	3.01
Isopropyl alcohol	CBM	Ave	22197 1093196	43421 2434453	88063 4150358	220750 8606848	614867	0.118 5.99	0.235 12.0	0.476 24.0	1.20 48.0	3.01
Pentane	CBM	Ave	812 38243	1503 85847	2923 160577	7785 302707	20748	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	5142 254567	10185 638944	18677 1059778	52222 2208901	145434	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	4471 194396	8031 443982	15826 814101	36839 1645708	102984	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	3037 124462	5429 312198	10289 518387	25197 1127607	69861	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
t-Butyl alcohol	CBM	Ave	7071 363626	13908 810529	28922 1250840	72380 3092811	203267	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,2-Trichlorotrifluoroethane	CBM	Ave	8546 403883	15807 902704	31171 1669094	76349 3491297	212654	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	++++ 188182	++++ 425652	20388 777986	40414 1580832	102893	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	6920 284484	14761 589745	20643 1127926	55298 2089875	147592	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	12838 693483	25268 1368836	47411 2790120	123930 5484341	359745	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	4730 251928	9652 502964	19101 986464	47030 2030259	129717	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	13473 650811	23740 1274908	48610 2482383	120956 4941904	340158	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	11283 663433	24556 1376698	45127 2584305	132856 5982006	363810	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	10338 497421	19665 1001436	38225 1957183	95899 4210745	262566	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	11882 778099	26913 1604346	48319 3094950	150204 6712117	422728	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Butanone	CBM	Linl	++++ 119374	++++ 229829	13460 439503	31487 1025422	67091	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	4903 218307	9139 431943	16211 856144	42238 1774228	116017	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.: 140-5852-1

Analy Batch No.: 5925

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2016 14:35

Calibration End Date: 07/20/2016 20:22

Calibration ID: 721

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	16659 980591	37385 2009900	68768 3746031	204136 8501575	537857	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	5187 260240	9823 530257	20039 1035396	49621 2225389	134412	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	10091 638678	21073 1306969	39636 2471172	124671 5797784	347773	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	11205 556042	22578 1133039	41922 2188702	108133 4742496	294470	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tert-butyl ethyl ether	CBM	Ave	12198 793620	29227 1642030	52496 3086444	159955 7089983	431629	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	5967 332891	13044 677897	21726 1275131	67253 2965552	180124	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	12138 621890	24001 1251755	45947 2461478	119970 5347673	325924	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFBZ	Ave	6849 393288	14976 809613	28027 1583306	76599 3499068	210827	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1-Butanol	DFBZ	Ave	++++ 126607	4445 245344	8982 406109	24496 991421	66599	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzene	DFBZ	Ave	13226 732930	28428 1484756	52001 2838374	145581 5775788	399902	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Cyclohexane	DFBZ	Ave	++++ 127761	5532 251038	9873 475270	24808 939796	67178	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFBZ	Ave	9657 624993	19965 1282659	35421 2547091	115559 5501066	268449	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFBZ	Ave	++++ 177513	6909 349602	13420 686138	34150 1444072	92759	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Thiophene	DFBZ	Ave	7646 420121	16390 852768	30615 1682868	81409 3601663	222144	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tert-amyl methyl ether	DFBZ	Ave	++++ 694426	23398 1434776	45948 2687722	141838 6223941	377757	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFBZ	Ave	26865 1377507	52574 2694094	102712 5244819	266288 10887075	720267	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Heptane	DFBZ	Ave	5432 274520	10522 538079	20319 1066635	51772 2221989	144372	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFBZ	Ave	5710 293000	10773 595427	21105 1138252	57902 2472759	159885	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Trichloroethene	DFBZ	Ave	7224 358275	14488 727892	27731 1429915	66604 3113764	183406	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dibromomethane	DFBZ	Ave	6134 312941	12148 621397	22886 1214275	59418 2615273	162667	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Bromodichloromethane	DFBZ	Ave	9516 590155	20014 1214803	39458 2366858	108128 5083580	304736	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.: 140-5852-1

Analy Batch No.: 5925

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2016 14:35

Calibration End Date: 07/20/2016 20:22

Calibration ID: 721

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	
1,4-Dioxane	DFBZ	Ave	1628 112404	3686 222885	7108 409399	21217 908509	58194	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methyl methacrylate	DFBZ	Ave	4959 407019	12550 846160	23982 1605533	127638 3739985	221214	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methylcyclohexane	DFBZ	Ave	++++ 581742	22930 1149693	43751 2217029	110813 4625071	307120	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFBZ	Lin1	12681 666019	27317 1323566	84756 2611294	149808 5915451	438520	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFBZ	Ave	6929 443518	16193 910486	29520 1782292	81576 3905805	236450	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	5941 402450	14284 849574	25766 1677211	75230 3770631	218178	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Toluene Range	DFBZ	Ave	++++ 2132546	++++ 4368368	++++ 8413253	406910 18742881	1145129	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Toluene	CBZd 5	Ave	14065 852047	31541 1761024	57498 3384555	165721 7519659	462787	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	4261 247379	9296 515736	17015 983320	47519 2170821	133925	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZd 5	Ave	11265 700124	26322 1490032	47302 2927517	133790 6490287	389913	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZd 5	Ave	11377 712290	24697 1454544	45467 2892255	130260 6413165	376064	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Hexanone	CBZd 5	Ave	++++ 289691	9218 572249	17461 1126926	55647 2641649	155597	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
C8 Range	DFBZ	Ave	++++ 3162250	++++ 6226546	++++ 11755297	708459 24368798	1688858	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Octane	CBZd 5	Ave	5659 299170	11283 598665	22579 1142582	56540 2413902	154948	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZd 5	Ave	7473 562305	16239 1238836	33035 2425380	98747 5451229	291449	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dibromoethane	CBZd 5	Ave	7114 485372	14887 1008425	31118 1992293	90434 4493523	256814	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZd 5	Ave	6171 329333	12793 674647	24811 1343401	62615 3002504	172789	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chlorobenzene	CBZd 5	Ave	11244 666986	25284 1414763	45504 2747935	128321 6171401	359928	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZd 5	Ave	19292 1000338	38621 2001984	74353 3710240	196860 7419854	531352	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethylbenzene	CBZd 5	Ave	18275 1136311	39636 2372349	73440 4557088	224500 10294945	624704	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZd 5	Ave	14123 893182	30635 1868171	57658 3614530	168245 8300460	485035	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.: 140-5852-1

Analy Batch No.: 5925

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2016 14:35

Calibration End Date: 07/20/2016 20:22

Calibration ID: 721

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	27916 1770385	61905 3722315	115035 6929038	342866 15838618	971074	0.0784 3.99	0.157 8.00	0.317 16.0	0.800 32.0	2.00
Bromoform	CBZd 5	Ave	++++ 601639	12903 1416425	30723 2910893	91899 7524757	303734	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Nonane	CBZd 5	Ave	10989 623372	23073 1235680	45737 2210826	120238 4321223	333247	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Styrene	CBZd 5	Ave	7721 610607	20239 1300041	36710 2471335	105426 5746685	324812	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
o-Xylene	CBZd 5	Ave	16050 942362	34999 1937561	60491 3657474	180292 8305827	516225	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	9889 656848	23315 1348615	42226 2517756	127160 5541318	361387	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	2914 202045	6919 420291	13068 797241	40193 1881891	111415	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZd 5	Ave	22155 1296789	48351 2704962	85804 5089295	256740 11832651	712035	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Propylbenzene	CBZd 5	Ave	5247 345580	12215 725883	22225 1371697	66953 3246664	190613	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZd 5	Ave	5103 317015	11465 671656	21002 1286773	60992 2989697	173151	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZd 5	Ave	18898 1273340	43914 2707804	80730 5107728	241403 12071934	692578	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	9284 597652	21634 1241970	39980 2324615	118008 5623085	328580	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZd 5	Ave	5552 511817	14755 1115202	25754 2122184	86107 5105195	272377	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Decane	CBZd 5	Ave	12543 768564	27512 1538826	53182 2770165	149202 5961718	413745	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZd 5	Ave	17969 1159460	41335 2429755	75848 4534578	229646 11183849	645407	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	16840 1122054	38609 2312993	71780 4339254	216004 10349390	612274	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZd 5	Ave	24906 1601492	57180 3319123	106444 6205351	313009 ++++	884851	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 ++++	1.00
1,3-Dichlorobenzene	CBZd 5	Ave	10256 711708	23134 1538740	43420 3115909	122127 8479970	376750	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzyl chloride	CBZd 5	Ave	11526 917217	27926 1927976	44693 3818134	143068 9337492	481091	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZd 5	Ave	9791 692146	22401 1495925	41125 2995986	118493 7649318	367560	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZd 5	Ave	19176 1337200	46373 2765837	86672 5149340	256709 12528309	731974	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.: 140-5852-1

Analy Batch No.: 5925

SDG No.: _____

Instrument ID: MG

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2016 14:35

Calibration End Date: 07/20/2016 20:22

Calibration ID: 721

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	13347 863187	30656 1783307	56396 3334853	168236 7917381	475356	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZd 5	Ave	14497 842624	31653 1687274	60434 3094954	163667 6839303	458033	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZd 5	Ave	9987 692181	22949 1483244	42668 2940684	122531 8043047	374034	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Indane	CBZd 5	Ave	14675 995741	33608 2077957	63339 3935778	183718 9954063	543635	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Indene	CBZd 5	Ave	8633 734983	22189 1574119	42119 2991580	128140 7455713	394183	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butylbenzene	CBZd 5	Ave	17044 1257550	39952 2515175	76663 4612993	228522 10873634	680564	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Undecane	CBZd 5	Ave	12174 855225	28821 1564414	54075 2951690	157514 6514704	463504	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	13248 992689	31480 1987013	59691 3737734	181126 9318425	537320	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	2703 315944	6970 692179	15497 1368982	46771 ++++	169349	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 ++++	1.00
1,2,4,5-Tetramethylbenzene	CBZd 5	Ave	16608 1200509	38662 2328684	71665 4514417	219745 11241452	659341	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	10394 730752	24284 1418105	45051 2730948	134443 6768797	403928	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	13813 995050	32110 1847176	60221 3623503	176627 9217215	545244	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dodecane	CBZd 5	Ave	10268 763908	23904 1048634	49301 1892159	115217 5728932	405424	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	4143 480973	11153 928916	21812 2193038	56997 ++++	236858	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 ++++	1.00
Naphthalene	CBZd 5	Ave	9881 1077641	25617 2085327	52166 4267074	143483 11312702	545497	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZd 5	Ave	++++ 538371	12900 1037580	24268 2279072	65199 6418518	262210	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Hexachlorobutadiene	CBZd 5	Ave	10777 724015	22637 1266018	43865 3039984	114011 9541683	379882	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	5041 505500	12765 905583	25402 1944963	62151 6282415	247563	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZd 5	Ave	3556 368362	8318 458682	19263 737024	29920 3876064	152873	0.122 6.24	0.245 12.5	0.496 25.0	1.25 50.0	3.13
1-Methylnaphthalene	CBZd 5	Ave	4302 358836	9634 397822	23188 584180	29603 3041176	158788	0.122 6.24	0.245 12.5	0.496 25.0	1.25 50.0	3.13
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	1056433 1315155	1284073 1479778	1096848 1439373	1328113 1590043	1480535	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.: 140-5852-1 Analy Batch No.: 5925

SDG No.: _____

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

Calibration Start Date: 07/20/2016 14:35 Calibration End Date: 07/20/2016 20:22 Calibration ID: 721

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
LinF = Linear ISTD forced zero

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL1.D
 Lims ID: IC L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 20-Jul-2016 14:35:30 ALS Bottle#: 7 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044591
 Misc. Info.: 140-0003204-002
 Operator ID: 403648 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Jul-2016 15:55:58 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: barlozhetskayaa

Date: 20-Jul-2016 16:02:06

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	8.492	8.501	-0.009	98	377997	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.660	10.669	-0.009	96	1551742	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.437	15.441	-0.004	90	1546908	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.093	17.096	-0.003	93	1056433	4.00	3.91	
6 Chlorodifluoromethane	67	3.698	3.701	-0.003	97	1547	0.0392	0.0493	
7 Propene	41	3.709	3.710	-0.001	98	7045	0.0392	0.0523	
8 Dichlorodifluoromethane	85	3.758	3.758	0.000	99	15069	0.0392	0.0464	
9 Chloromethane	52	3.925	3.922	0.003	67	2728	0.0392	0.0741	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.932	-0.002	89	8986	0.0392	0.0441	
11 Acetaldehyde	44	4.060	4.060	0.000	85	29847	0.1960	0.4906	
12 Vinyl chloride	62	4.081	4.080	0.001	97	5633	0.0392	0.0474	
13 Butadiene	54	4.162	4.160	0.002	64	4806	0.0392	0.0492	
14 Butane	43	4.162	4.161	0.001	87	9863	0.0392	0.0467	
15 Bromomethane	94	4.448	4.450	-0.002	97	4855	0.0392	0.0482	
16 Chloroethane	64	4.577	4.580	-0.003	88	2695	0.0392	0.0467	
17 Ethanol	31	4.674	4.674	0.000	96	25720	0.1960	0.4744	
18 Vinyl bromide	106	4.852	4.856	-0.004	96	4477	0.0392	0.0461	
19 2-Methylbutane	43	4.906	4.907	-0.001	94	6876	0.0392	0.0482	
21 Acrolein	56	5.111	5.107	0.004	43	4626	0.0392	0.1892	
20 Trichlorofluoromethane	101	5.100	5.108	-0.008	99	14004	0.0392	0.0459	
22 Acetonitrile	40	5.170	5.168	0.002	90	2542	0.0392	0.0524	
23 Acetone	58	5.213	5.209	0.004	100	14846	0.1176	0.2822	
25 Isopropyl alcohol	45	5.300	5.304	-0.004	93	22197	0.1176	0.1322	
24 Pentane	72	5.316	5.314	0.002	96	812	0.0392	0.0457	
26 Ethyl ether	31	5.472	5.462	0.010	88	5142	0.0392	0.0427	
27 1,1-Dichloroethene	96	5.753	5.761	-0.008	94	4471	0.0392	0.0485	
28 Acrylonitrile	53	5.844	5.849	-0.005	96	3037	0.0392	0.0491	
29 2-Methyl-2-propanol	59	5.871	5.860	0.011	96	7071	0.0392	0.0428	
30 1,1,2-Trichloro-1,2,2-trif	101	5.931	5.934	-0.003	94	8546	0.0392	0.0458	
31 Methylene Chloride	84	6.076	6.083	-0.007	96	8972	0.0392	0.0975	

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	6.092	6.097	-0.005	96	6920	0.0392	0.0515	
33 Carbon disulfide	76	6.227	6.231	-0.004	99	12838	0.0392	0.0430	
34 trans-1,2-Dichloroethene	96	6.837	6.847	-0.010	95	4730	0.0392	0.0426	
35 2-Methylpentane	43	6.869	6.874	-0.005	95	13473	0.0392	0.0472	
36 Methyl tert-butyl ether	73	6.982	6.967	0.015	94	11283	0.0392	0.0385	
37 1,1-Dichloroethane	63	7.236	7.243	-0.007	99	10338	0.0392	0.0458	
38 Vinyl acetate	43	7.349	7.349	0.000	99	11882	0.0392	0.0358	
40 Hexane	56	7.807	7.810	-0.003	88	4903	0.0392	0.0491	
41 Isopropyl ether	45	7.964	7.959	0.005	96	16659	0.0392	0.0383	
42 cis-1,2-Dichloroethene	96	8.179	8.188	-0.009	96	5187	0.0392	0.0444	
43 Ethyl acetate	43	8.390	8.372	0.018	97	10091	0.0392	0.0370	
44 Chloroform	83	8.514	8.521	-0.007	89	11205	0.0392	0.0444	
45 Tert-butyl ethyl ether	59	8.621	8.612	0.009	96	12198	0.0392	0.0353	
46 Tetrahydrofuran	42	8.918	8.898	0.020	89	5967	0.0392	0.0405	
47 1,1,1-Trichloroethane	97	9.511	9.518	-0.007	98	12138	0.0392	0.0436	
48 1,2-Dichloroethane	62	9.608	9.613	-0.005	96	6849	0.0392	0.0445	
49 Benzene	78	10.115	10.112	0.003	96	13226	0.0392	0.0464	
50 Cyclohexane	69	10.115	10.116	-0.001	82	2788	0.0392	0.0572	
52 Carbon tetrachloride	117	10.131	10.140	-0.009	96	9657	0.0392	0.0430	
53 2,3-Dimethylpentane	71	10.245	10.251	-0.006	89	3636	0.0392	0.0539	
54 Thiophene	84	10.379	10.384	-0.005	96	7646	0.0392	0.0463	
55 Tert-amyl methyl ether	73	10.606	10.600	0.006	85	6285	0.0392	0.0240	
56 Isooctane	57	10.897	10.901	-0.004	96	26865	0.0392	0.0500	
57 n-Heptane	71	11.280	11.285	-0.005	95	5432	0.0392	0.0506	
58 1,2-Dichloropropane	63	11.334	11.337	-0.003	90	5710	0.0392	0.0495	
59 Trichloroethene	130	11.382	11.383	-0.001	92	7224	0.0392	0.0503	
60 Dibromomethane	93	11.458	11.454	0.004	92	6134	0.0392	0.0500	
61 Dichlorobromomethane	83	11.603	11.608	-0.005	98	9516	0.0392	0.0430	
62 1,4-Dioxane	88	11.641	11.625	0.016	68	1628	0.0392	0.0402	
63 Methyl methacrylate	41	11.727	11.721	0.006	93	4959	0.0392	0.0315	
64 Methylcyclohexane	83	12.159	12.165	-0.006	90	11895	0.0392	0.0540	
65 4-Methyl-2-pentanone (MIBK)	43	12.585	12.574	0.011	97	12681	0.0392	0.0110	
66 cis-1,3-Dichloropropene	75	12.623	12.626	-0.003	98	6929	0.0392	0.0413	
67 trans-1,3-Dichloropropene	75	13.329	13.329	0.000	94	5941	0.0392	0.0377	
68 Toluene	91	13.453	13.456	-0.003	92	14065	0.0392	0.0416	
69 1,1,2-Trichloroethane	83	13.523	13.524	-0.001	94	4261	0.0392	0.0431	
70 2-Methylthiophene	97	13.604	13.606	-0.002	96	11265	0.0392	0.0400	
71 3-Methylthiophene	97	13.809	13.811	-0.002	97	11377	0.0392	0.0412	
72 2-Hexanone	58	13.949	13.929	0.020	88	2961	0.0392	0.0270	
73 n-Octane	85	14.170	14.176	-0.006	98	5659	0.0392	0.0473	
74 Chlorodibromomethane	129	14.230	14.231	-0.001	97	7473	0.0392	0.0353	
75 Ethylene Dibromide	107	14.515	14.518	-0.003	96	7114	0.0392	0.0383	
76 Tetrachloroethene	129	14.607	14.610	-0.003	95	6171	0.0392	0.0457	
77 Chlorobenzene	112	15.486	15.489	-0.003	95	11244	0.0392	0.0418	
78 2,3-Dimethylheptane	43	15.534	15.537	-0.003	95	19292	0.0392	0.0482	
79 Ethylbenzene	91	15.783	15.787	-0.004	99	18275	0.0392	0.0408	
80 2-Ethylthiophene	97	15.885	15.888	-0.003	99	14123	0.0392	0.0404	
81 m-Xylene & p-Xylene	91	15.950	15.953	-0.003	99	27916	0.0784	0.0805	
83 Bromoform	173	16.386	16.385	0.001	93	5219	0.0392	0.0226	
82 n-Nonane	57	16.397	16.399	-0.002	94	10989	0.0392	0.0455	
84 Styrene	104	16.419	16.421	-0.002	97	7721	0.0392	0.0337	
85 o-Xylene	91	16.478	16.481	-0.003	97	16050	0.0392	0.0432	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
86 1,1,2,2-Tetrachloroethane	83	16.796	16.800	-0.004	97	9889	0.0392	0.0391	
87 1,2,3-Trichloropropane	110	16.958	16.957	0.001	96	2914	0.0392	0.0370	
88 Isopropylbenzene	105	17.071	17.074	-0.003	95	22155	0.0392	0.0427	
89 N-Propylbenzene	120	17.621	17.626	-0.005	99	5247	0.0392	0.0386	
90 2-Chlorotoluene	126	17.664	17.664	0.000	97	5103	0.0392	0.0404	
91 4-Ethyltoluene	105	17.778	17.783	-0.005	98	18898	0.0392	0.0380	
92 1,3,5-Trimethylbenzene	120	17.859	17.862	-0.003	91	9284	0.0392	0.0392	
93 Alpha Methyl Styrene	118	18.096	18.096	0.000	86	5552	0.0392	0.0299	
94 n-Decane	57	18.177	18.175	0.002	87	12543	0.0392	0.0424	
95 tert-Butylbenzene	119	18.290	18.293	-0.003	91	17969	0.0392	0.0391	
96 1,2,4-Trimethylbenzene	105	18.306	18.309	-0.003	97	16840	0.0392	0.0387	
97 sec-Butylbenzene	105	18.565	18.569	-0.004	98	24906	0.0392	0.0395	
98 1,3-Dichlorobenzene	146	18.576	18.576	0.000	57	10256	0.0392	0.0364	
99 Benzyl chloride	91	18.657	18.654	0.003	96	11526	0.0392	0.0345	
100 1,4-Dichlorobenzene	146	18.667	18.666	0.001	92	9791	0.0392	0.0363	
101 4-Isopropyltoluene	119	18.738	18.738	0.000	96	19176	0.0392	0.0370	
102 1,2,3-Trimethylbenzene	105	18.786	18.785	0.001	97	13347	0.0392	0.0395	
103 Butylcyclohexane	83	18.851	18.850	0.001	88	14497	0.0392	0.0436	
104 1,2-Dichlorobenzene	146	19.029	19.031	-0.002	77	9987	0.0392	0.0364	
105 2,3-Dihydroindene	117	19.029	19.031	-0.002	92	14675	0.0392	0.0379	
106 Indene	116	19.164	19.164	0.000	85	8633	0.0392	0.0316	
107 n-Butylbenzene	91	19.180	19.180	0.000	98	17044	0.0392	0.0367	
108 Undecane	57	19.509	19.511	-0.002	92	12174	0.0392	0.0390	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.557	19.555	0.002	97	13248	0.0392	0.0358	
110 1,2-Dibromo-3-Chloropropan	157	19.633	19.637	-0.004	89	2703	0.0392	0.0256	
111 1,2,4,5-Tetramethylbenzene	119	19.945	19.945	0.000	97	16608	0.0392	0.0370	
112 1,2,3,5-Tetramethylbenzene	119	19.994	19.999	-0.005	94	10394	0.0392	0.0377	
113 1,2,3,4-Tetramethylbenzene	119	20.393	20.394	-0.001	96	13813	0.0392	0.0375	
114 Dodecane	57	20.571	20.573	-0.002	91	10268	0.0392	0.0405	
115 1,2,4-Trichlorobenzene	180	20.744	20.742	0.002	91	4143	0.0392	0.0270	
116 Naphthalene	128	20.878	20.874	0.004	98	9881	0.0392	0.0273	
117 Benzo(b)thiophene	134	20.975	20.975	0.000	97	4684	0.0392	0.0247	
118 Hexachlorobutadiene	225	21.094	21.095	-0.001	94	10777	0.0392	0.0384	
119 1,2,3-Trichlorobenzene	180	21.148	21.151	-0.003	93	5041	0.0392	0.0291	
120 2-Methylnaphthalene	142	21.941	21.937	0.004	98	3556	0.1225	0.1058	
121 1-Methylnaphthalene	142	22.113	22.113	0.000	96	4302	0.1225	0.1288	
A 124 Toluene Range	1	13.448	(13.413-13.483)		0	35987	0.0392	0.0451	
A 125 C8 Range	1	14.166	(14.140-14.210)		0	61599	0.0392	0.0525	
S 126 Xylenes, Total	100				0		0.1176	0.1237	
S 127 1,2-Dichloroethene, Total	1				0		0.0784	0.0870	

Reagents:

40L12DNP_00005

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL1.D

Injection Date: 20-Jul-2016 14:35:30

Instrument ID: MG

Operator ID: 403648

Lims ID: IC L1

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

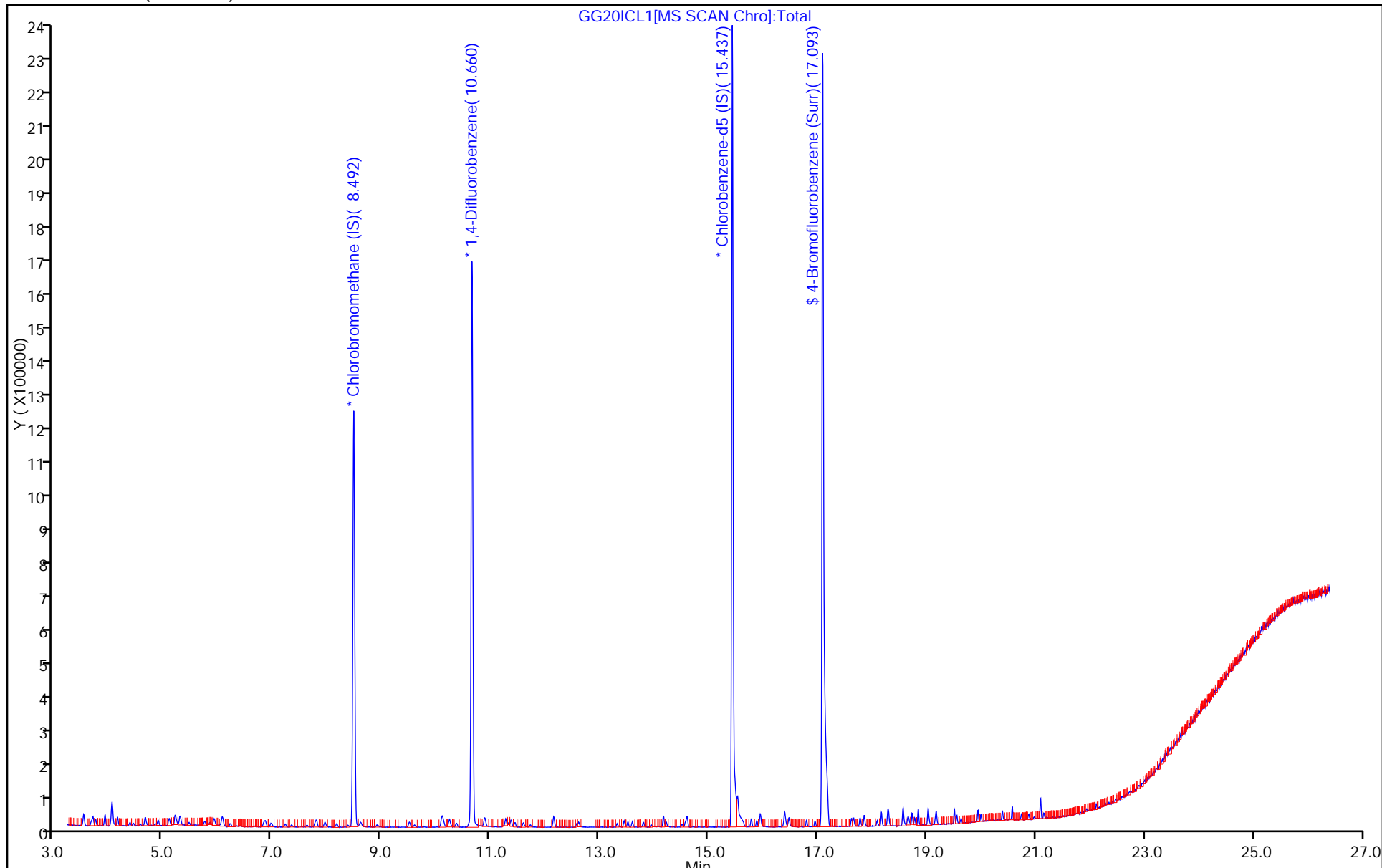
Dil. Factor: 1.0000

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\20160719-3204.b\GG20ICL1.D

Injection Date: 20-Jul-2016 14:35:30

Instrument ID: MG

Lims ID: IC L1

Client ID:

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

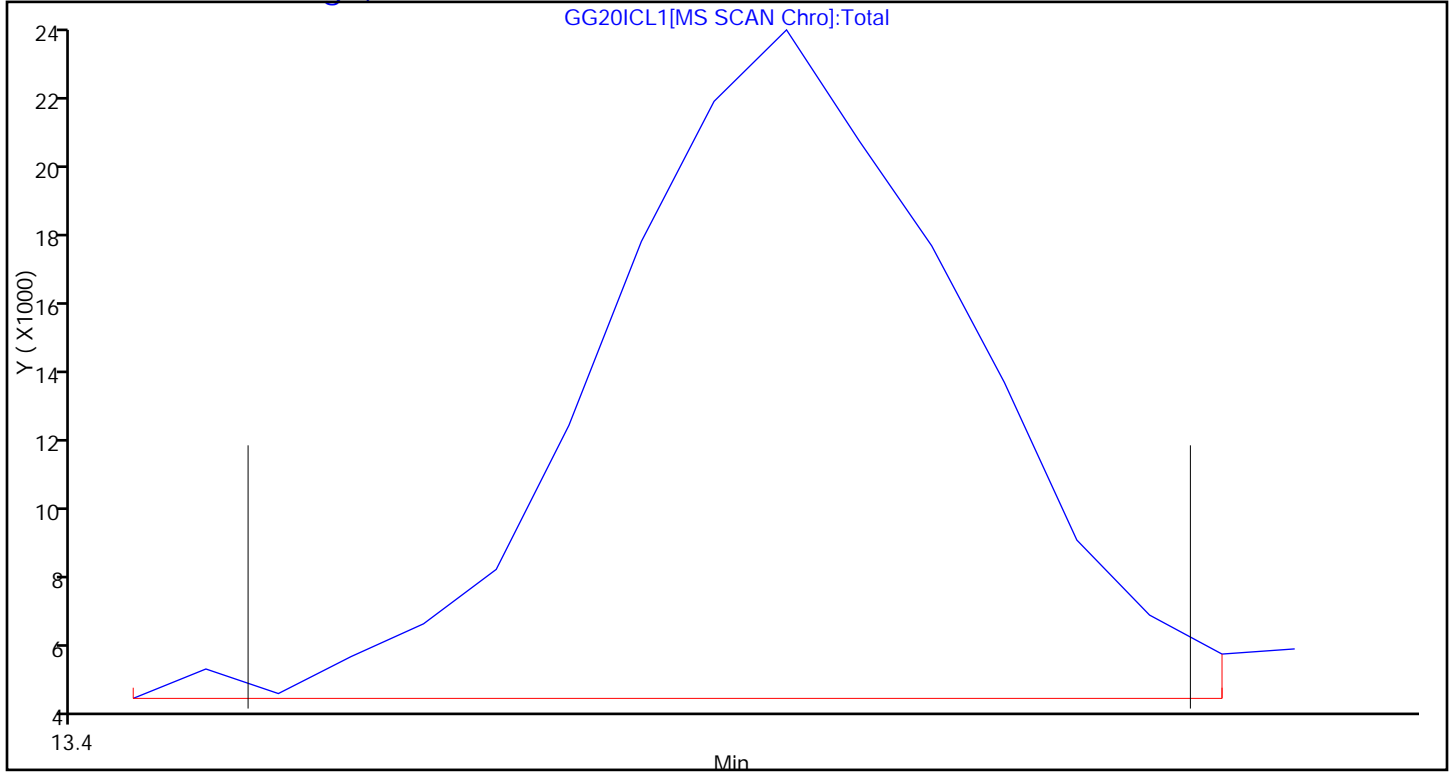
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL1.D

Injection Date: 20-Jul-2016 14:35:30

Instrument ID: MG

Lims ID: IC L1

Client ID:

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

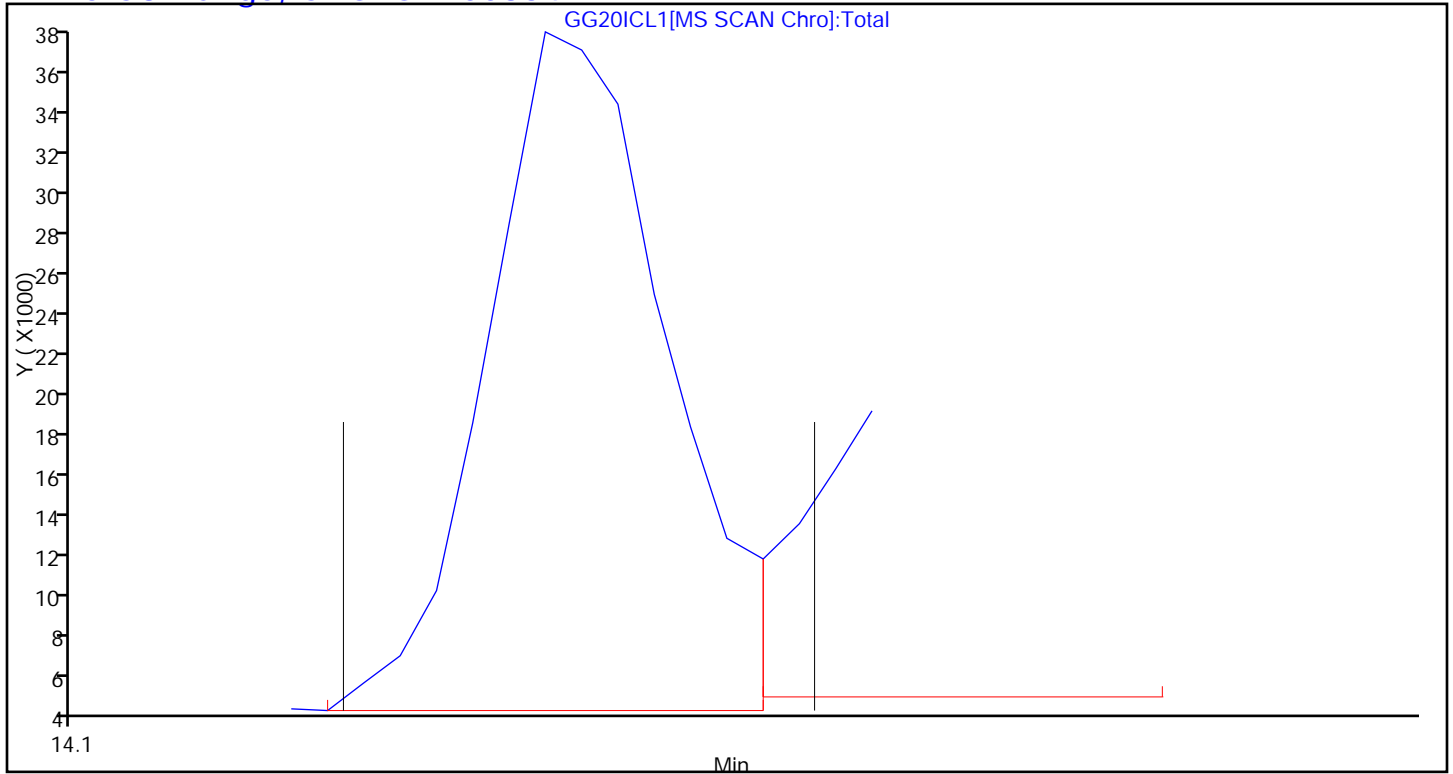
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL2.D
 Lims ID: IC L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 20-Jul-2016 15:19:30 ALS Bottle#: 7 Worklist Smp#: 3
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044591
 Misc. Info.: 140-0003204-003
 Operator ID: 403648 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Jul-2016 15:56:09 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: barlozhetskayaa

Date: 20-Jul-2016 16:09:36

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	8.492	8.501	-0.009	98	414772	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.660	10.669	-0.009	96	1964233	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.437	15.441	-0.004	89	1865471	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.093	17.096	-0.003	94	1284073	4.00	3.94	
6 Chlorodifluoromethane	67	3.698	3.701	-0.003	99	2694	0.0784	0.0782	
7 Propene	41	3.709	3.710	-0.001	97	13468	0.0784	0.0912	
8 Dichlorodifluoromethane	85	3.758	3.758	0.000	100	29507	0.0784	0.0827	
9 Chloromethane	52	3.925	3.922	0.003	59	3507	0.0784	0.0868	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.932	-0.002	90	18027	0.0784	0.0806	
11 Acetaldehyde	44	4.054	4.060	-0.006	96	61008	0.3920	0.9138	
12 Vinyl chloride	62	4.081	4.080	0.001	99	10357	0.0784	0.0794	
13 Butadiene	54	4.157	4.160	-0.003	64	8631	0.0784	0.0805	
14 Butane	43	4.157	4.161	-0.004	86	18339	0.0784	0.0791	
15 Bromomethane	94	4.448	4.450	-0.002	98	9068	0.0784	0.0820	
16 Chloroethane	64	4.572	4.580	-0.008	85	4904	0.0784	0.0775	
17 Ethanol	31	4.658	4.674	-0.016	97	53507	0.3920	0.8994	
18 Vinyl bromide	106	4.852	4.856	-0.004	98	8496	0.0784	0.0798	
19 2-Methylbutane	43	4.906	4.907	-0.001	91	12594	0.0784	0.0804	
21 Acrolein	56	5.106	5.107	-0.001	47	8549	0.0784	0.3187	
20 Trichlorofluoromethane	101	5.100	5.108	-0.008	99	26283	0.0784	0.0784	
22 Acetonitrile	40	5.170	5.168	0.002	97	4982	0.0784	0.0935	
23 Acetone	58	5.208	5.209	-0.001	99	30628	0.2352	0.5306	
25 Isopropyl alcohol	45	5.289	5.304	-0.015	96	43421	0.2352	0.2356	
24 Pentane	72	5.311	5.314	-0.003	97	1503	0.0784	0.0771	
26 Ethyl ether	31	5.462	5.462	0.000	89	10185	0.0784	0.0770	
27 1,1-Dichloroethene	96	5.753	5.761	-0.008	95	8031	0.0784	0.0794	
28 Acrylonitrile	53	5.839	5.849	-0.010	59	5429	0.0784	0.0800	
29 2-Methyl-2-propanol	59	5.850	5.860	-0.010	97	13908	0.0784	0.0768	
30 1,1,2-Trichloro-1,2,2-trif	101	5.931	5.934	-0.003	93	15807	0.0784	0.0772	
31 Methylene Chloride	84	6.082	6.083	-0.001	94	12742	0.0784	0.1262	

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	6.092	6.097	-0.005	96	14761	0.0784	0.1002	
33 Carbon disulfide	76	6.227	6.231	-0.004	100	25268	0.0784	0.0772	
34 trans-1,2-Dichloroethene	96	6.842	6.847	-0.005	96	9652	0.0784	0.0793	
35 2-Methylpentane	43	6.869	6.874	-0.005	95	23740	0.0784	0.0758	
36 Methyl tert-butyl ether	73	6.971	6.967	0.004	94	24556	0.0784	0.0763	
37 1,1-Dichloroethane	63	7.236	7.243	-0.007	100	19665	0.0784	0.0794	
38 Vinyl acetate	43	7.349	7.349	0.000	100	26913	0.0784	0.0740	
39 2-Butanone (MEK)	72	7.769	7.765	0.004	98	6295	0.0784	-0.005416	
40 Hexane	56	7.807	7.810	-0.003	91	9139	0.0784	0.0834	
41 Isopropyl ether	45	7.958	7.959	-0.001	96	37385	0.0784	0.0784	
42 cis-1,2-Dichloroethene	96	8.179	8.188	-0.009	98	9823	0.0784	0.0766	
43 Ethyl acetate	43	8.373	8.372	0.001	97	21073	0.0784	0.0704	
44 Chloroform	83	8.508	8.521	-0.013	95	22578	0.0784	0.0815	
45 Tert-butyl ethyl ether	59	8.616	8.612	0.004	97	29227	0.0784	0.0772	
46 Tetrahydrofuran	42	8.907	8.898	0.009	92	13044	0.0784	0.0806	
47 1,1,1-Trichloroethane	97	9.511	9.518	-0.007	96	24001	0.0784	0.0785	
48 1,2-Dichloroethane	62	9.603	9.613	-0.010	98	14976	0.0784	0.0768	
51 n-Butanol	31	10.115	10.104	0.011	72	4445	0.0784	0.0766	
49 Benzene	78	10.104	10.112	-0.008	97	28428	0.0784	0.0788	
50 Cyclohexane	69	10.115	10.116	-0.001	86	5532	0.0784	0.0896	
52 Carbon tetrachloride	117	10.137	10.140	-0.003	98	19965	0.0784	0.0703	
53 2,3-Dimethylpentane	71	10.250	10.251	-0.001	91	6909	0.0784	0.0809	
54 Thiophene	84	10.379	10.384	-0.005	96	16390	0.0784	0.0784	
55 Tert-amyl methyl ether	73	10.606	10.600	0.006	93	23398	0.0784	0.0705	
56 Isooctane	57	10.897	10.901	-0.004	97	52574	0.0784	0.0773	
57 n-Heptane	71	11.280	11.285	-0.005	95	10522	0.0784	0.0774	
58 1,2-Dichloropropane	63	11.334	11.337	-0.003	88	10773	0.0784	0.0737	
59 Trichloroethene	130	11.377	11.383	-0.006	96	14488	0.0784	0.0797	
60 Dibromomethane	93	11.447	11.454	-0.007	94	12148	0.0784	0.0782	
61 Dichlorobromomethane	83	11.603	11.608	-0.005	97	20014	0.0784	0.0714	
62 1,4-Dioxane	88	11.625	11.625	0.000	87	3686	0.0784	0.0719	
63 Methyl methacrylate	41	11.722	11.721	0.001	93	12550	0.0784	0.0629	
64 Methylcyclohexane	83	12.159	12.165	-0.006	90	22930	0.0784	0.0822	
65 4-Methyl-2-pentanone (MIBK)	43	12.579	12.574	0.005	97	27317	0.0784	0.0472	
66 cis-1,3-Dichloropropene	75	12.623	12.626	-0.003	98	16193	0.0784	0.0762	
67 trans-1,3-Dichloropropene	75	13.324	13.329	-0.005	95	14284	0.0784	0.0752	
68 Toluene	91	13.453	13.456	-0.003	93	31541	0.0784	0.0774	
69 1,1,2-Trichloroethane	83	13.518	13.524	-0.006	99	9296	0.0784	0.0779	
70 2-Methylthiophene	97	13.599	13.606	-0.007	98	26322	0.0784	0.0775	
71 3-Methylthiophene	97	13.804	13.811	-0.007	98	24697	0.0784	0.0742	
72 2-Hexanone	58	13.933	13.929	0.004	90	9218	0.0784	0.0697	
73 n-Octane	85	14.170	14.176	-0.006	97	11283	0.0784	0.0782	
74 Chlorodibromomethane	129	14.224	14.231	-0.007	97	16239	0.0784	0.0636	
75 Ethylene Dibromide	107	14.515	14.518	-0.003	98	14887	0.0784	0.0665	
76 Tetrachloroethene	129	14.607	14.610	-0.003	95	12793	0.0784	0.0785	
77 Chlorobenzene	112	15.486	15.489	-0.003	94	25284	0.0784	0.0779	
78 2,3-Dimethylheptane	43	15.534	15.537	-0.003	94	38621	0.0784	0.0801	
79 Ethylbenzene	91	15.782	15.787	-0.005	99	39636	0.0784	0.0733	
80 2-Ethylthiophene	97	15.885	15.888	-0.003	98	30635	0.0784	0.0726	
81 m-Xylene & p-Xylene	91	15.950	15.953	-0.003	99	61905	0.1568	0.1481	
83 Bromoform	173	16.381	16.385	-0.004	95	12903	0.0784	0.0464	
82 n-Nonane	57	16.397	16.399	-0.002	94	23073	0.0784	0.0792	

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	16.419	16.421	-0.002	98	20239	0.0784	0.0732	
85 o-Xylene	91	16.478	16.481	-0.003	98	34999	0.0784	0.0780	
86 1,1,2,2-Tetrachloroethane	83	16.796	16.800	-0.004	98	23315	0.0784	0.0764	
87 1,2,3-Trichloropropane	110	16.953	16.957	-0.004	94	6919	0.0784	0.0729	
88 Isopropylbenzene	105	17.071	17.074	-0.003	96	48351	0.0784	0.0772	
89 N-Propylbenzene	120	17.621	17.626	-0.005	99	12215	0.0784	0.0746	
90 2-Chlorotoluene	126	17.659	17.664	-0.005	97	11465	0.0784	0.0753	
91 4-Ethyltoluene	105	17.783	17.783	0.000	98	43914	0.0784	0.0733	
92 1,3,5-Trimethylbenzene	120	17.859	17.862	-0.003	93	21634	0.0784	0.0758	
93 Alpha Methyl Styrene	118	18.096	18.096	0.000	89	14755	0.0784	0.0660	
94 n-Decane	57	18.171	18.175	-0.004	89	27512	0.0784	0.0771	
95 tert-Butylbenzene	119	18.290	18.293	-0.003	92	41335	0.0784	0.0745	
96 1,2,4-Trimethylbenzene	105	18.306	18.309	-0.003	95	38609	0.0784	0.0736	
97 sec-Butylbenzene	105	18.565	18.569	-0.004	98	57180	0.0784	0.0753	
98 1,3-Dichlorobenzene	146	18.576	18.576	0.000	97	23134	0.0784	0.0681	
99 Benzyl chloride	91	18.651	18.654	-0.003	97	27926	0.0784	0.0693	
100 1,4-Dichlorobenzene	146	18.667	18.666	0.001	93	22401	0.0784	0.0689	
101 4-Isopropyltoluene	119	18.732	18.738	-0.006	97	46373	0.0784	0.0743	
102 1,2,3-Trimethylbenzene	105	18.781	18.785	-0.004	98	30656	0.0784	0.0752	
103 Butylcyclohexane	83	18.845	18.850	-0.005	90	31653	0.0784	0.0790	
104 1,2-Dichlorobenzene	146	19.029	19.031	-0.002	77	22949	0.0784	0.0694	
105 2,3-Dihydroindene	117	19.029	19.031	-0.002	93	33608	0.0784	0.0719	
106 Indene	116	19.164	19.164	0.000	90	22189	0.0784	0.0672	
107 n-Butylbenzene	91	19.180	19.180	0.000	99	39952	0.0784	0.0713	
108 Undecane	57	19.509	19.511	-0.002	93	28821	0.0784	0.0766	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.552	19.555	-0.003	98	31480	0.0784	0.0705	
110 1,2-Dibromo-3-Chloropropan	157	19.633	19.637	-0.004	89	6970	0.0784	0.0547	
111 1,2,4,5-Tetramethylbenzene	119	19.940	19.945	-0.005	97	38662	0.0784	0.0714	
112 1,2,3,5-Tetramethylbenzene	119	19.994	19.999	-0.005	95	24284	0.0784	0.0730	
113 1,2,3,4-Tetramethylbenzene	119	20.393	20.394	-0.001	97	32110	0.0784	0.0723	
114 Dodecane	57	20.571	20.573	-0.002	91	23904	0.0784	0.0781	
115 1,2,4-Trichlorobenzene	180	20.743	20.742	0.001	94	11153	0.0784	0.0603	
116 Naphthalene	128	20.873	20.874	-0.001	99	25617	0.0784	0.0586	
117 Benzo(b)thiophene	134	20.975	20.975	0.000	99	12900	0.0784	0.0563	
118 Hexachlorobutadiene	225	21.094	21.095	-0.001	94	22637	0.0784	0.0668	
119 1,2,3-Trichlorobenzene	180	21.148	21.151	-0.003	94	12765	0.0784	0.0611	
120 2-Methylnaphthalene	142	21.935	21.937	-0.002	98	8318	0.2450	0.2053	
121 1-Methylnaphthalene	142	22.113	22.113	0.000	97	9634	0.2450	0.2391	
A 124 Toluene Range	1	13.448	(13.413-13.483)		0	76086	0.0784	0.0753	
A 125 C8 Range	1	14.166	(14.140-14.210)		0	132739	0.0784	0.0893	
S 126 Xylenes, Total	100				0		0.2352	0.2261	
S 127 1,2-Dichloroethene, Total	1				0		0.1568	0.1559	

Reagents:

40L12DNP_00005

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL2.D

Injection Date: 20-Jul-2016 15:19:30

Instrument ID: MG

Operator ID: 403648

Lims ID: IC L2

Worklist Smp#: 3

Client ID:

Purge Vol: 500.000 mL

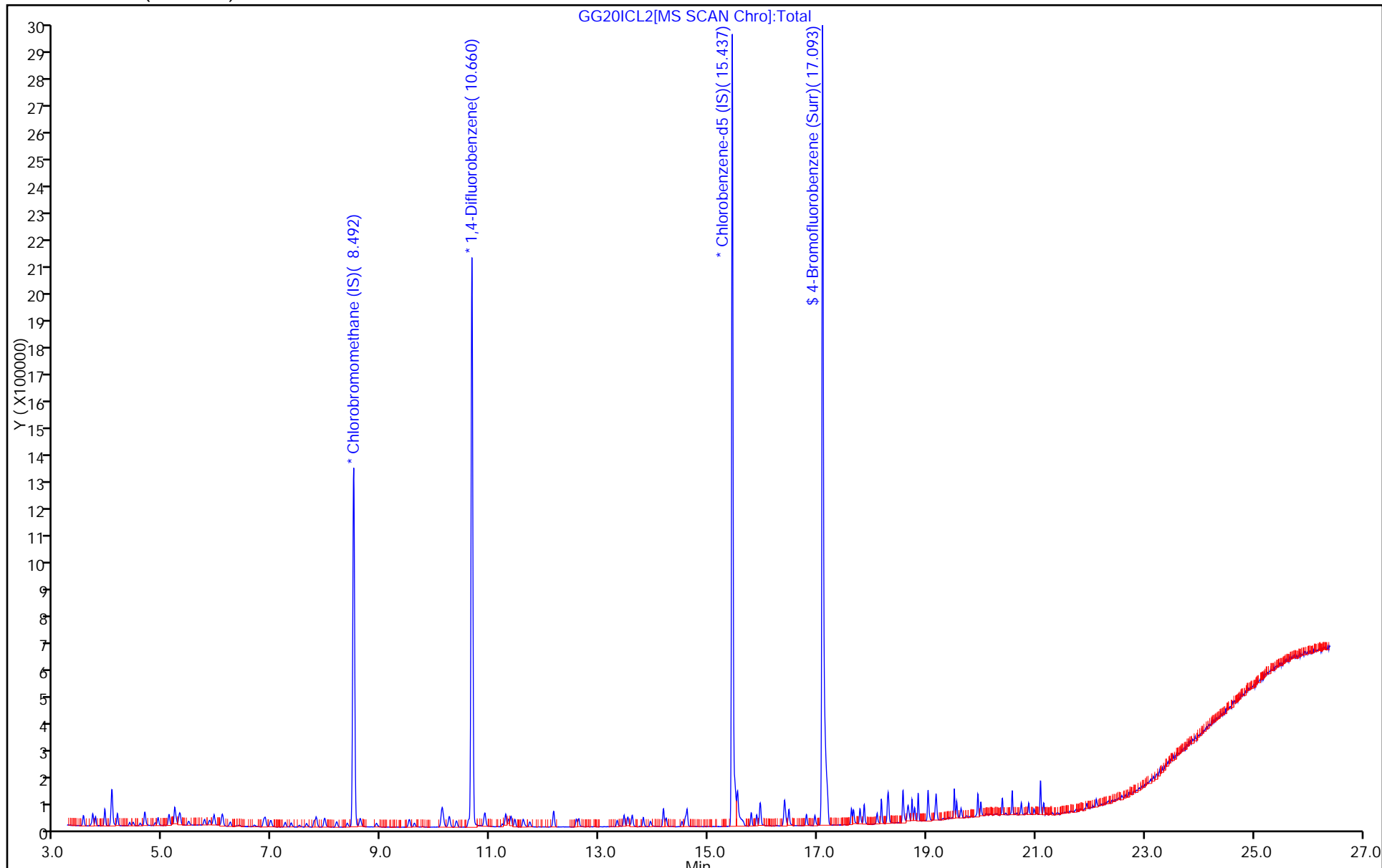
Dil. Factor: 1.0000

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\20160719-3204.b\GG20ICL2.D

Injection Date: 20-Jul-2016 15:19:30

Instrument ID: MG

Lims ID: IC L2

Client ID:

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

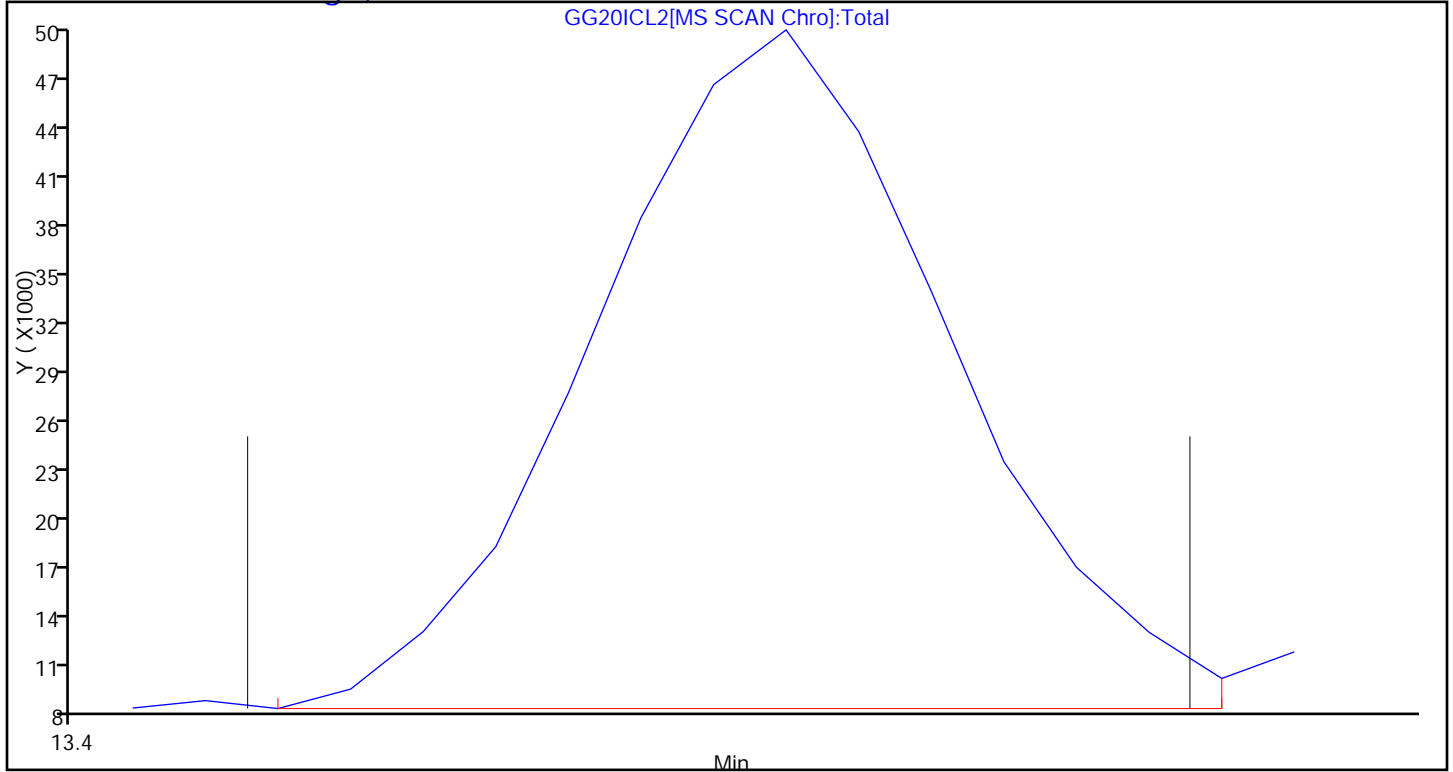
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL2.D

Injection Date: 20-Jul-2016 15:19:30

Instrument ID: MG

Lims ID: IC L2

Client ID:

Operator ID: 403648

ALS Bottle#: 7

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

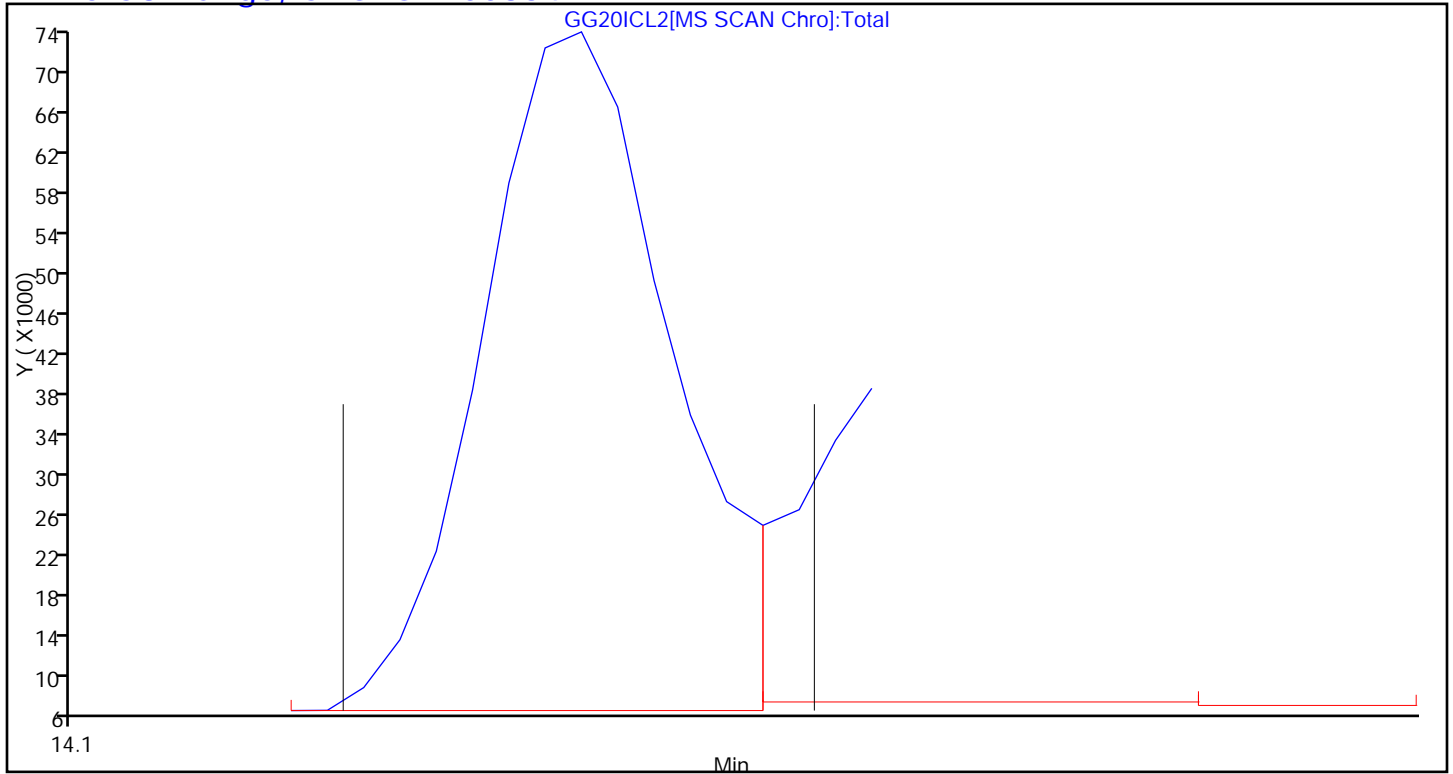
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL3.D
 Lims ID: IC L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 20-Jul-2016 16:03:30 ALS Bottle#: 8 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044592
 Misc. Info.: 140-0003204-004
 Operator ID: 403648 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Jul-2016 15:56:18 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: barlozhetskayaa

Date: 20-Jul-2016 17:19:25

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	8.497	8.501	-0.004	98	395547	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.665	10.669	-0.004	96	1617193	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.437	15.441	-0.004	89	1595187	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.093	17.096	-0.003	93	1096848	4.00	3.94	
6 Chlorodifluoromethane	67	3.704	3.701	0.003	98	4318	0.1587	0.1314	
7 Propene	41	3.709	3.710	-0.001	98	26368	0.1587	0.1872	
8 Dichlorodifluoromethane	85	3.758	3.758	0.000	100	55817	0.1587	0.1641	
9 Chloromethane	52	3.919	3.922	-0.003	76	7069	0.1587	0.1835	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.932	-0.002	91	34635	0.1587	0.1623	
11 Acetaldehyde	44	4.059	4.060	-0.001	91	119764	0.7933	1.88	
12 Vinyl chloride	62	4.081	4.080	0.001	99	21158	0.1587	0.1700	
13 Butadiene	54	4.162	4.160	0.002	64	17029	0.1587	0.1665	
14 Butane	43	4.162	4.161	0.001	87	38711	0.1587	0.1750	
15 Bromomethane	94	4.448	4.450	-0.002	96	16828	0.1587	0.1595	
16 Chloroethane	64	4.577	4.580	-0.003	86	9907	0.1587	0.1642	
17 Ethanol	31	4.663	4.674	-0.011	97	54635	0.7933	0.9630	
18 Vinyl bromide	106	4.858	4.856	0.002	96	16212	0.1587	0.1597	
19 2-Methylbutane	43	4.906	4.907	-0.001	94	25061	0.1587	0.1678	
21 Acrolein	56	5.111	5.107	0.004	35	7321	0.1587	0.2862	
20 Trichlorofluoromethane	101	5.106	5.108	-0.002	99	52062	0.1587	0.1629	
22 Acetonitrile	40	5.165	5.168	-0.003	92	9104	0.1587	0.1793	
23 Acetone	58	5.208	5.209	-0.001	99	69755	0.4760	1.27	
25 Isopropyl alcohol	45	5.294	5.304	-0.010	93	88063	0.4760	0.5011	
24 Pentane	72	5.305	5.314	-0.009	96	2923	0.1587	0.1573	
26 Ethyl ether	31	5.462	5.462	0.000	89	18677	0.1587	0.1481	
27 1,1-Dichloroethene	96	5.758	5.761	-0.003	95	15826	0.1587	0.1640	
28 Acrylonitrile	53	5.850	5.849	0.001	50	10289	0.1587	0.1591	
29 2-Methyl-2-propanol	59	5.850	5.860	-0.010	96	28922	0.1587	0.1674	
30 1,1,2-Trichloro-1,2,2-trif	101	5.931	5.934	-0.003	93	31171	0.1587	0.1596	
31 Methylene Chloride	84	6.076	6.083	-0.007	97	20388	0.1587	0.2118	

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	6.098	6.097	0.001	95	20643	0.1587	0.1469	
33 Carbon disulfide	76	6.227	6.231	-0.004	99	47411	0.1587	0.1518	
34 trans-1,2-Dichloroethene	96	6.842	6.847	-0.005	96	19101	0.1587	0.1646	
35 2-Methylpentane	43	6.869	6.874	-0.005	95	48610	0.1587	0.1628	
36 Methyl tert-butyl ether	73	6.971	6.967	0.004	95	45127	0.1587	0.1471	
37 1,1-Dichloroethane	63	7.241	7.243	-0.002	100	38225	0.1587	0.1618	
38 Vinyl acetate	43	7.349	7.349	0.000	100	48319	0.1587	0.1393	
39 2-Butanone (MEK)	72	7.764	7.765	-0.001	97	13460	0.1587	0.1376	
40 Hexane	56	7.807	7.810	-0.003	83	16211	0.1587	0.1551	
41 Isopropyl ether	45	7.958	7.959	-0.001	96	68768	0.1587	0.1512	
42 cis-1,2-Dichloroethene	96	8.185	8.188	-0.003	96	20039	0.1587	0.1638	
43 Ethyl acetate	43	8.373	8.372	0.001	98	39636	0.1587	0.1389	
44 Chloroform	83	8.514	8.521	-0.007	96	41922	0.1587	0.1587	
45 Tert-butyl ethyl ether	59	8.611	8.612	-0.001	97	52496	0.1587	0.1453	
46 Tetrahydrofuran	42	8.902	8.898	0.004	92	21726	0.1587	0.1408	
47 1,1,1-Trichloroethane	97	9.517	9.518	-0.001	97	45947	0.1587	0.1577	
48 1,2-Dichloroethane	62	9.608	9.613	-0.005	98	28027	0.1587	0.1746	
51 n-Butanol	31	10.110	10.104	0.006	65	8982	0.1587	0.1879	
49 Benzene	78	10.110	10.112	-0.002	98	52001	0.1587	0.1751	
50 Cyclohexane	69	10.115	10.116	-0.001	92	9873	0.1587	0.1943	
52 Carbon tetrachloride	117	10.137	10.140	-0.003	97	35421	0.1587	0.1514	
53 2,3-Dimethylpentane	71	10.245	10.251	-0.006	92	13420	0.1587	0.1909	
54 Thiophene	84	10.379	10.384	-0.005	96	30615	0.1587	0.1779	
55 Tert-amyl methyl ether	73	10.600	10.600	0.000	94	45948	0.1587	0.1682	
56 Isooctane	57	10.897	10.901	-0.004	96	102712	0.1587	0.1835	
57 n-Heptane	71	11.280	11.285	-0.005	95	20319	0.1587	0.1814	
58 1,2-Dichloropropane	63	11.334	11.337	-0.003	89	21105	0.1587	0.1755	
59 Trichloroethene	130	11.377	11.383	-0.006	95	27731	0.1587	0.1853	
60 Dibromomethane	93	11.452	11.454	-0.002	94	22886	0.1587	0.1789	
61 Dichlorobromomethane	83	11.603	11.608	-0.005	97	39458	0.1587	0.1711	
62 1,4-Dioxane	88	11.630	11.625	0.005	96	7108	0.1587	0.1684	
63 Methyl methacrylate	41	11.717	11.721	-0.004	94	23982	0.1587	0.1461	
64 Methylcyclohexane	83	12.164	12.165	-0.001	91	43751	0.1587	0.1905	
65 4-Methyl-2-pentanone (MIBK)	43	12.574	12.574	0.000	99	84756	0.1587	0.2904	
66 cis-1,3-Dichloropropene	75	12.623	12.626	-0.003	98	29520	0.1587	0.1687	
67 trans-1,3-Dichloropropene	75	13.324	13.329	-0.005	95	25766	0.1587	0.1586	
68 Toluene	91	13.453	13.456	-0.003	93	57498	0.1587	0.1649	
69 1,1,2-Trichloroethane	83	13.518	13.524	-0.006	99	17015	0.1587	0.1668	
70 2-Methylthiophene	97	13.604	13.606	-0.002	98	47302	0.1587	0.1628	
71 3-Methylthiophene	97	13.809	13.811	-0.002	99	45467	0.1587	0.1597	
72 2-Hexanone	58	13.933	13.929	0.004	90	17461	0.1587	0.1543	
73 n-Octane	85	14.176	14.176	0.000	97	22579	0.1587	0.1830	
74 Chlorodibromomethane	129	14.230	14.231	-0.001	98	33035	0.1587	0.1513	
75 Ethylene Dibromide	107	14.515	14.518	-0.003	98	31118	0.1587	0.1625	
76 Tetrachloroethene	129	14.607	14.610	-0.003	94	24811	0.1587	0.1780	
77 Chlorobenzene	112	15.486	15.489	-0.003	94	45504	0.1587	0.1640	
78 2,3-Dimethylheptane	43	15.534	15.537	-0.003	95	74353	0.1587	0.1803	
79 Ethylbenzene	91	15.788	15.787	0.001	99	73440	0.1587	0.1589	
80 2-Ethylthiophene	97	15.885	15.888	-0.003	98	57658	0.1587	0.1598	
81 m-Xylene & p-Xylene	91	15.950	15.953	-0.003	99	115035	0.3173	0.3218	
83 Bromoform	173	16.381	16.385	-0.004	94	30723	0.1587	0.1291	
82 n-Nonane	57	16.397	16.399	-0.002	95	45737	0.1587	0.1836	

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	16.419	16.421	-0.002	97	36710	0.1587	0.1553	
85 o-Xylene	91	16.478	16.481	-0.003	99	60491	0.1587	0.1577	
86 1,1,2,2-Tetrachloroethane	83	16.796	16.800	-0.004	99	42226	0.1587	0.1617	
87 1,2,3-Trichloropropane	110	16.953	16.957	-0.004	96	13068	0.1587	0.1609	
88 Isopropylbenzene	105	17.071	17.074	-0.003	97	85804	0.1587	0.1602	
89 N-Propylbenzene	120	17.621	17.626	-0.005	98	22225	0.1587	0.1587	
90 2-Chlorotoluene	126	17.659	17.664	-0.005	98	21002	0.1587	0.1612	
91 4-Ethyltoluene	105	17.783	17.783	0.000	99	80730	0.1587	0.1576	
92 1,3,5-Trimethylbenzene	120	17.859	17.862	-0.003	91	39980	0.1587	0.1638	
93 Alpha Methyl Styrene	118	18.096	18.096	0.000	84	25754	0.1587	0.1346	
94 n-Decane	57	18.171	18.175	-0.004	88	53182	0.1587	0.1742	
95 tert-Butylbenzene	119	18.290	18.293	-0.003	96	75848	0.1587	0.1599	
96 1,2,4-Trimethylbenzene	105	18.306	18.309	-0.003	96	71780	0.1587	0.1601	
97 sec-Butylbenzene	105	18.565	18.569	-0.004	98	106444	0.1587	0.1639	
98 1,3-Dichlorobenzene	146	18.576	18.576	0.000	98	43420	0.1587	0.1494	
99 Benzyl chloride	91	18.651	18.654	-0.003	97	44693	0.1587	0.1297	
100 1,4-Dichlorobenzene	146	18.667	18.666	0.001	91	41125	0.1587	0.1479	
101 4-Isopropyltoluene	119	18.738	18.738	0.000	97	86672	0.1587	0.1623	
102 1,2,3-Trimethylbenzene	105	18.781	18.785	-0.004	98	56396	0.1587	0.1617	
103 Butylcyclohexane	83	18.851	18.850	0.001	90	60434	0.1587	0.1763	
104 1,2-Dichlorobenzene	146	19.029	19.031	-0.002	89	42668	0.1587	0.1509	
105 2,3-Dihydroindene	117	19.029	19.031	-0.002	93	63339	0.1587	0.1585	
106 Indene	116	19.164	19.164	0.000	91	42119	0.1587	0.1493	
107 n-Butylbenzene	91	19.180	19.180	0.000	98	76663	0.1587	0.1600	
108 Undecane	57	19.509	19.511	-0.002	93	54075	0.1587	0.1680	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.557	19.555	0.002	98	59691	0.1587	0.1563	
110 1,2-Dibromo-3-Chloropropan	157	19.638	19.637	0.001	89	15497	0.1587	0.1422	
111 1,2,4,5-Tetramethylbenzene	119	19.945	19.945	0.000	96	71665	0.1587	0.1548	
112 1,2,3,5-Tetramethylbenzene	119	19.999	19.999	0.000	95	45051	0.1587	0.1584	
113 1,2,3,4-Tetramethylbenzene	119	20.393	20.394	-0.001	97	60221	0.1587	0.1586	
114 Dodecane	57	20.571	20.573	-0.002	92	49301	0.1587	0.1883	
115 1,2,4-Trichlorobenzene	180	20.743	20.742	0.001	94	21812	0.1587	0.1380	
116 Naphthalene	128	20.873	20.874	-0.001	99	52166	0.1587	0.1397	
117 Benzo(b)thiophene	134	20.975	20.975	0.000	99	24268	0.1587	0.1240	
118 Hexachlorobutadiene	225	21.094	21.095	-0.001	95	43865	0.1587	0.1515	
119 1,2,3-Trichlorobenzene	180	21.153	21.151	0.002	95	25402	0.1587	0.1421	
120 2-Methylnaphthalene	142	21.941	21.937	0.004	100	19263	0.4958	0.5560	
121 1-Methylnaphthalene	142	22.113	22.113	0.000	97	23188	0.4958	0.6730	
A 124 Toluene Range	1	13.448	(13.413-13.483)		0	144896	0.1587	0.1742	
A 125 C8 Range	1	14.169	(14.146-14.216)		0	257399	0.1587	0.2104	
S 126 Xylenes, Total	100				0		0.4760	0.4796	
S 127 1,2-Dichloroethene, Total	1				0		0.3173	0.3284	

Reagents:

40L3DNP_00006

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG2OICL3.D

Injection Date: 20-Jul-2016 16:03:30

Instrument ID: MG

Operator ID: 403648

Lims ID: IC L3

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

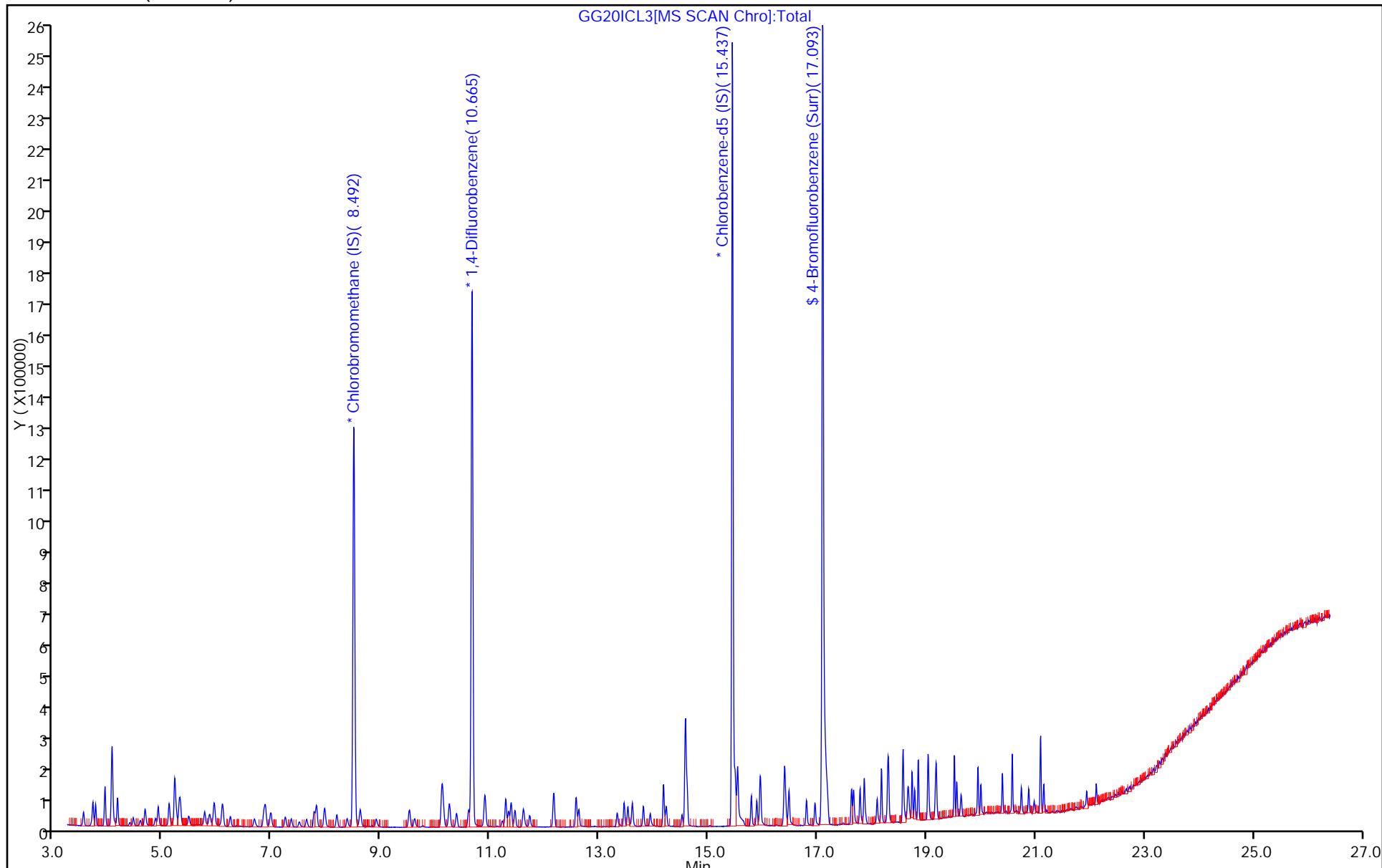
Dil. Factor: 1.0000

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\20160719-3204.b\GG20ICL3.D

Injection Date: 20-Jul-2016 16:03:30

Instrument ID: MG

Lims ID: IC L3

Client ID:

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

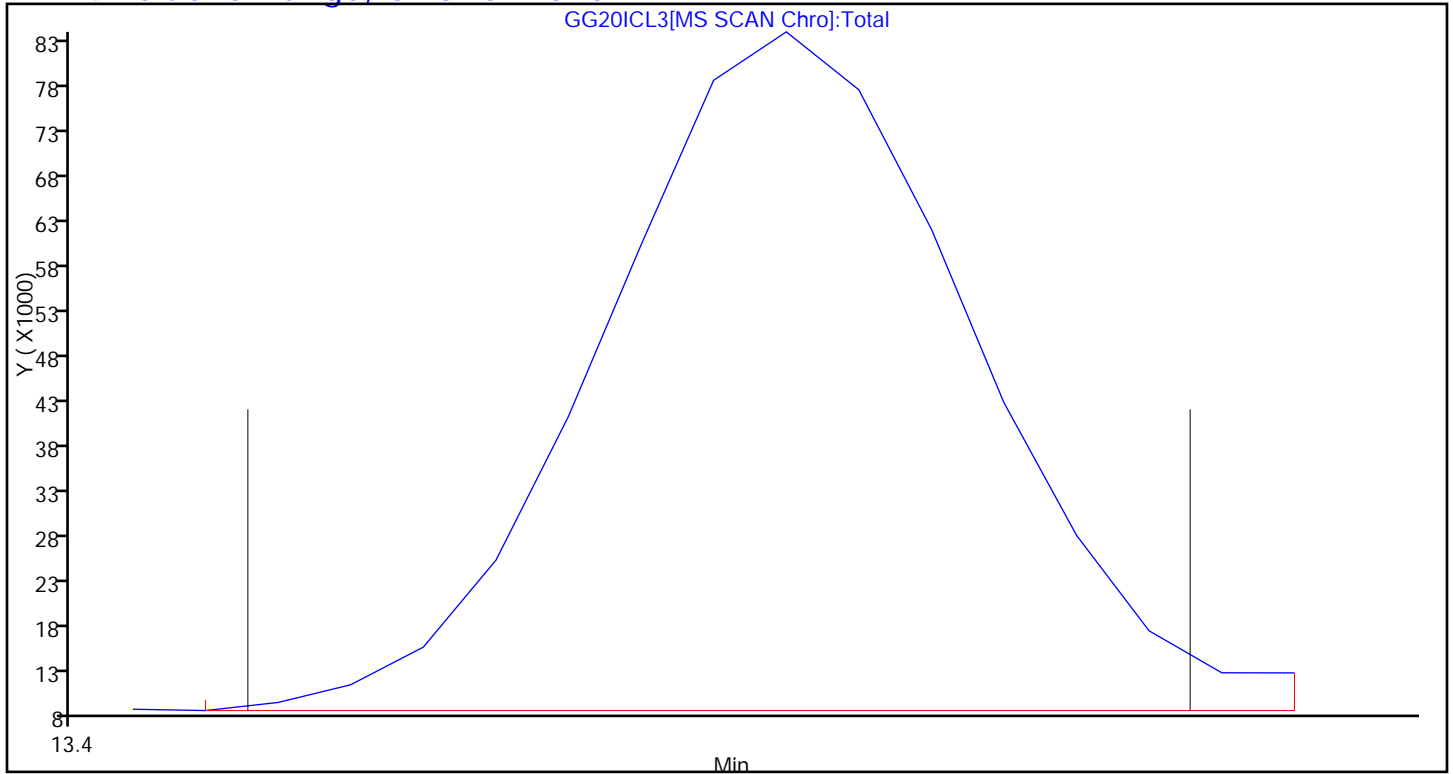
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL3.D

Injection Date: 20-Jul-2016 16:03:30

Instrument ID: MG

Lims ID: IC L3

Client ID:

Operator ID: 403648

ALS Bottle#: 8

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

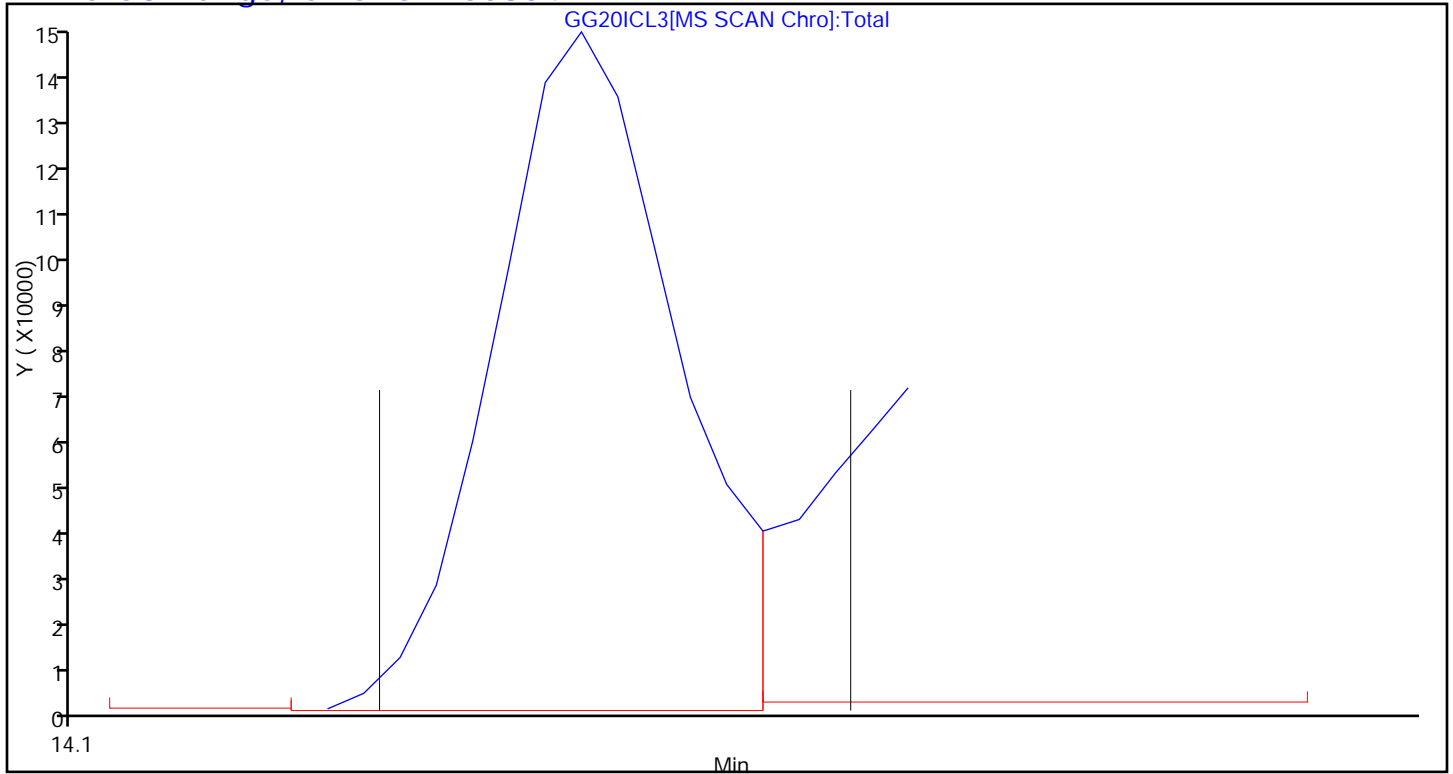
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL4.D
 Lims ID: IC L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 20-Jul-2016 16:46:30 ALS Bottle#: 9 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044590
 Misc. Info.: 140-0003204-005
 Operator ID: 403648 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Jul-2016 15:56:30 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: barlozhetskayaa

Date: 20-Jul-2016 18:05:15

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	8.492	8.501	-0.009	98	415089	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.665	10.669	-0.004	96	2042012	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.437	15.441	-0.004	89	1938753	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.093	17.096	-0.003	94	1328113	4.00	3.92	
6 Chlorodifluoromethane	67	3.698	3.701	-0.003	98	11690	0.4000	0.3389	
7 Propene	41	3.704	3.710	-0.006	99	57800	0.4000	0.3910	
8 Dichlorodifluoromethane	85	3.752	3.758	-0.006	100	138848	0.4000	0.3890	
9 Chloromethane	52	3.919	3.922	-0.003	99	16220	0.4000	0.4013	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.932	-0.002	91	87116	0.4000	0.3890	
11 Acetaldehyde	44	4.054	4.060	-0.006	91	224034	2.00	3.35	
12 Vinyl chloride	62	4.076	4.080	-0.004	99	50003	0.4000	0.3829	
13 Butadiene	54	4.157	4.160	-0.003	62	40358	0.4000	0.3760	
14 Butane	43	4.157	4.161	-0.004	87	94615	0.4000	0.4076	
15 Bromomethane	94	4.448	4.450	-0.002	97	41360	0.4000	0.3735	
16 Chloroethane	64	4.577	4.580	-0.003	87	23985	0.4000	0.3788	
17 Ethanol	31	4.663	4.674	-0.011	97	124400	2.00	2.09	
18 Vinyl bromide	106	4.852	4.856	-0.004	98	40581	0.4000	0.3808	
19 2-Methylbutane	43	4.901	4.907	-0.006	92	58613	0.4000	0.3740	
21 Acrolein	56	5.106	5.107	-0.001	34	15589	0.4000	0.5807	
20 Trichlorofluoromethane	101	5.106	5.108	-0.002	99	128002	0.4000	0.3817	
22 Acetonitrile	40	5.160	5.168	-0.008	94	21135	0.4000	0.3965	
23 Acetone	58	5.203	5.209	-0.006	99	109538	1.20	1.90	
25 Isopropyl alcohol	45	5.284	5.304	-0.020	94	220750	1.20	1.20	
24 Pentane	72	5.311	5.314	-0.003	96	7785	0.4000	0.3993	
26 Ethyl ether	31	5.456	5.462	-0.006	89	52222	0.4000	0.3946	
27 1,1-Dichloroethene	96	5.753	5.761	-0.008	94	36839	0.4000	0.3638	
28 Acrylonitrile	53	5.844	5.849	-0.005	55	25197	0.4000	0.3712	
29 2-Methyl-2-propanol	59	5.839	5.860	-0.021	95	72380	0.4000	0.3992	
30 1,1,2-Trichloro-1,2,2-trif	101	5.931	5.934	-0.003	93	76349	0.4000	0.3724	
31 Methylene Chloride	84	6.082	6.083	-0.001	96	40414	0.4000	0.4000	

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	6.087	6.097	-0.010	95	55298	0.4000	0.3750	
33 Carbon disulfide	76	6.227	6.231	-0.004	100	123930	0.4000	0.3781	
34 trans-1,2-Dichloroethene	96	6.842	6.847	-0.005	96	47030	0.4000	0.3861	
35 2-Methylpentane	43	6.869	6.874	-0.005	96	120956	0.4000	0.3860	
36 Methyl tert-butyl ether	73	6.961	6.967	-0.006	98	132856	0.4000	0.4126	
37 1,1-Dichloroethane	63	7.236	7.243	-0.007	99	95899	0.4000	0.3868	
38 Vinyl acetate	43	7.343	7.349	-0.006	100	150204	0.4000	0.4126	
39 2-Butanone (MEK)	72	7.759	7.765	-0.006	98	31487	0.4000	0.4549	
40 Hexane	56	7.807	7.810	-0.003	92	42238	0.4000	0.3851	
41 Isopropyl ether	45	7.953	7.959	-0.006	97	204136	0.4000	0.4276	
42 cis-1,2-Dichloroethene	96	8.179	8.188	-0.009	97	49621	0.4000	0.3865	
43 Ethyl acetate	43	8.363	8.372	-0.009	97	124671	0.4000	0.4163	
44 Chloroform	83	8.514	8.521	-0.007	96	108133	0.4000	0.3900	
45 Tert-butyl ethyl ether	59	8.605	8.612	-0.007	97	159955	0.4000	0.4219	
46 Tetrahydrofuran	42	8.896	8.898	-0.002	93	67253	0.4000	0.4153	
47 1,1,1-Trichloroethane	97	9.511	9.518	-0.007	95	119970	0.4000	0.3923	
48 1,2-Dichloroethane	62	9.608	9.613	-0.005	98	76599	0.4000	0.3778	
51 n-Butanol	31	10.088	10.104	-0.016	54	24496	0.4000	0.4058	
49 Benzene	78	10.104	10.112	-0.008	96	145581	0.4000	0.3883	
50 Cyclohexane	69	10.110	10.116	-0.006	81	24808	0.4000	0.3866	
52 Carbon tetrachloride	117	10.137	10.140	-0.003	98	115559	0.4000	0.3912	
53 2,3-Dimethylpentane	71	10.245	10.251	-0.006	91	34150	0.4000	0.3847	
54 Thiophene	84	10.379	10.384	-0.005	97	81409	0.4000	0.3746	
55 Tert-amyl methyl ether	73	10.595	10.600	-0.005	95	141838	0.4000	0.4113	
56 Isooctane	57	10.897	10.901	-0.004	95	266288	0.4000	0.3769	
57 n-Heptane	71	11.280	11.285	-0.005	95	51772	0.4000	0.3661	
58 1,2-Dichloropropane	63	11.334	11.337	-0.003	89	57902	0.4000	0.3812	
59 Trichloroethene	130	11.377	11.383	-0.006	95	66604	0.4000	0.3525	
60 Dibromomethane	93	11.447	11.454	-0.007	95	59418	0.4000	0.3678	
61 Dichlorobromomethane	83	11.603	11.608	-0.005	98	108128	0.4000	0.3712	
62 1,4-Dioxane	88	11.620	11.625	-0.005	97	21217	0.4000	0.3982	
63 Methyl methacrylate	41	11.711	11.721	-0.010	92	127638	0.4000	0.6157	
64 Methylcyclohexane	83	12.164	12.165	-0.001	91	110813	0.4000	0.3820	
65 4-Methyl-2-pentanone (MIBK)	43	12.569	12.574	-0.005	99	149808	0.4000	0.4227	
66 cis-1,3-Dichloropropene	75	12.623	12.626	-0.003	98	81576	0.4000	0.3692	
67 trans-1,3-Dichloropropene	75	13.324	13.329	-0.005	96	75230	0.4000	0.3809	
68 Toluene	91	13.453	13.456	-0.003	93	165721	0.4000	0.3911	
69 1,1,2-Trichloroethane	83	13.518	13.524	-0.006	99	47519	0.4000	0.3833	
70 2-Methylthiophene	97	13.604	13.606	-0.002	98	133790	0.4000	0.3789	
71 3-Methylthiophene	97	13.809	13.811	-0.002	100	130260	0.4000	0.3765	
72 2-Hexanone	58	13.922	13.929	-0.007	91	55647	0.4000	0.4046	
73 n-Octane	85	14.176	14.176	0.000	97	56540	0.4000	0.3770	
74 Chlorodibromomethane	129	14.224	14.231	-0.007	98	98747	0.4000	0.3721	
75 Ethylene Dibromide	107	14.515	14.518	-0.003	97	90434	0.4000	0.3886	
76 Tetrachloroethene	129	14.607	14.610	-0.003	94	62615	0.4000	0.3697	
77 Chlorobenzene	112	15.486	15.489	-0.003	92	128321	0.4000	0.3806	
78 2,3-Dimethylheptane	43	15.534	15.537	-0.003	94	196860	0.4000	0.3927	
79 Ethylbenzene	91	15.783	15.787	-0.004	99	224500	0.4000	0.3997	
80 2-Ethylthiophene	97	15.885	15.888	-0.003	99	168245	0.4000	0.3836	
81 m-Xylene & p-Xylene	91	15.950	15.953	-0.003	99	342866	0.8000	0.7893	
83 Bromoform	173	16.381	16.385	-0.004	96	91899	0.4000	0.3177	
82 n-Nonane	57	16.397	16.399	-0.002	95	120238	0.4000	0.3971	

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	16.419	16.421	-0.002	98	105426	0.4000	0.3669	
85 o-Xylene	91	16.478	16.481	-0.003	99	180292	0.4000	0.3868	
86 1,1,2,2-Tetrachloroethane	83	16.796	16.800	-0.004	99	127160	0.4000	0.4007	
87 1,2,3-Trichloropropane	110	16.953	16.957	-0.004	95	40193	0.4000	0.4072	
88 Isopropylbenzene	105	17.071	17.074	-0.003	97	256740	0.4000	0.3945	
89 N-Propylbenzene	120	17.621	17.626	-0.005	99	66953	0.4000	0.3935	
90 2-Chlorotoluene	126	17.659	17.664	-0.005	98	60992	0.4000	0.3852	
91 4-Ethyltoluene	105	17.778	17.783	-0.005	99	241403	0.4000	0.3878	
92 1,3,5-Trimethylbenzene	120	17.859	17.862	-0.003	92	118008	0.4000	0.3978	
93 Alpha Methyl Styrene	118	18.090	18.096	-0.006	87	86107	0.4000	0.3704	
94 n-Decane	57	18.171	18.175	-0.004	88	149202	0.4000	0.4021	
95 tert-Butylbenzene	119	18.290	18.293	-0.003	91	229646	0.4000	0.3983	
96 1,2,4-Trimethylbenzene	105	18.306	18.309	-0.003	96	216004	0.4000	0.3963	
97 sec-Butylbenzene	105	18.565	18.569	-0.004	98	313009	0.4000	0.3966	
98 1,3-Dichlorobenzene	146	18.570	18.576	-0.006	98	122127	0.4000	0.3457	
99 Benzyl chloride	91	18.651	18.654	-0.003	97	143068	0.4000	0.3415	
100 1,4-Dichlorobenzene	146	18.662	18.666	-0.004	94	118493	0.4000	0.3507	
101 4-Isopropyltoluene	119	18.732	18.738	-0.006	97	256709	0.4000	0.3955	
102 1,2,3-Trimethylbenzene	105	18.781	18.785	-0.004	98	168236	0.4000	0.3969	
103 Butylcyclohexane	83	18.845	18.850	-0.005	89	163667	0.4000	0.3929	
104 1,2-Dichlorobenzene	146	19.029	19.031	-0.002	77	122531	0.4000	0.3565	
105 2,3-Dihydroindene	117	19.029	19.031	-0.002	93	183718	0.4000	0.3783	
106 Indene	116	19.164	19.164	0.000	90	128140	0.4000	0.3737	
107 n-Butylbenzene	91	19.180	19.180	0.000	98	228522	0.4000	0.3925	
108 Undecane	57	19.509	19.511	-0.002	93	157514	0.4000	0.4026	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.552	19.555	-0.003	98	181126	0.4000	0.3903	
110 1,2-Dibromo-3-Chloropropan	157	19.638	19.637	0.001	93	46771	0.4000	0.3531	
111 1,2,4,5-Tetramethylbenzene	119	19.945	19.945	0.000	97	219745	0.4000	0.3905	
112 1,2,3,5-Tetramethylbenzene	119	19.999	19.999	0.000	95	134443	0.4000	0.3889	
113 1,2,3,4-Tetramethylbenzene	119	20.393	20.394	-0.001	97	176627	0.4000	0.3828	
114 Dodecane	57	20.571	20.573	-0.002	92	115217	0.4000	0.3622	
115 1,2,4-Trichlorobenzene	180	20.738	20.742	-0.004	94	56997	0.4000	0.2966	
116 Naphthalene	128	20.873	20.874	-0.001	99	143483	0.4000	0.3161	
117 Benzo(b)thiophene	134	20.975	20.975	0.000	99	65199	0.4000	0.2740	
118 Hexachlorobutadiene	225	21.094	21.095	-0.001	96	114011	0.4000	0.3239	
119 1,2,3-Trichlorobenzene	180	21.148	21.151	-0.003	95	62151	0.4000	0.2861	
120 2-Methylnaphthalene	142	21.935	21.937	-0.002	99	29920	1.25	0.7106	
121 1-Methylnaphthalene	142	22.113	22.113	0.000	99	29603	1.25	0.7070	
A 124 Toluene Range	1	13.448	(13.413-13.483)		0	406910	0.4000	0.3874	
A 125 C8 Range	1	14.169	(14.146-14.216)		0	708459	0.4000	0.4587	
S 126 Xylenes, Total	100				0		1.20	1.18	
S 127 1,2-Dichloroethene, Total	1				0		0.8000	0.7726	

Reagents:

40L4DNP_00005

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL4.D

Injection Date: 20-Jul-2016 16:46:30

Instrument ID: MG

Operator ID: 403648

Lims ID: IC L4

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

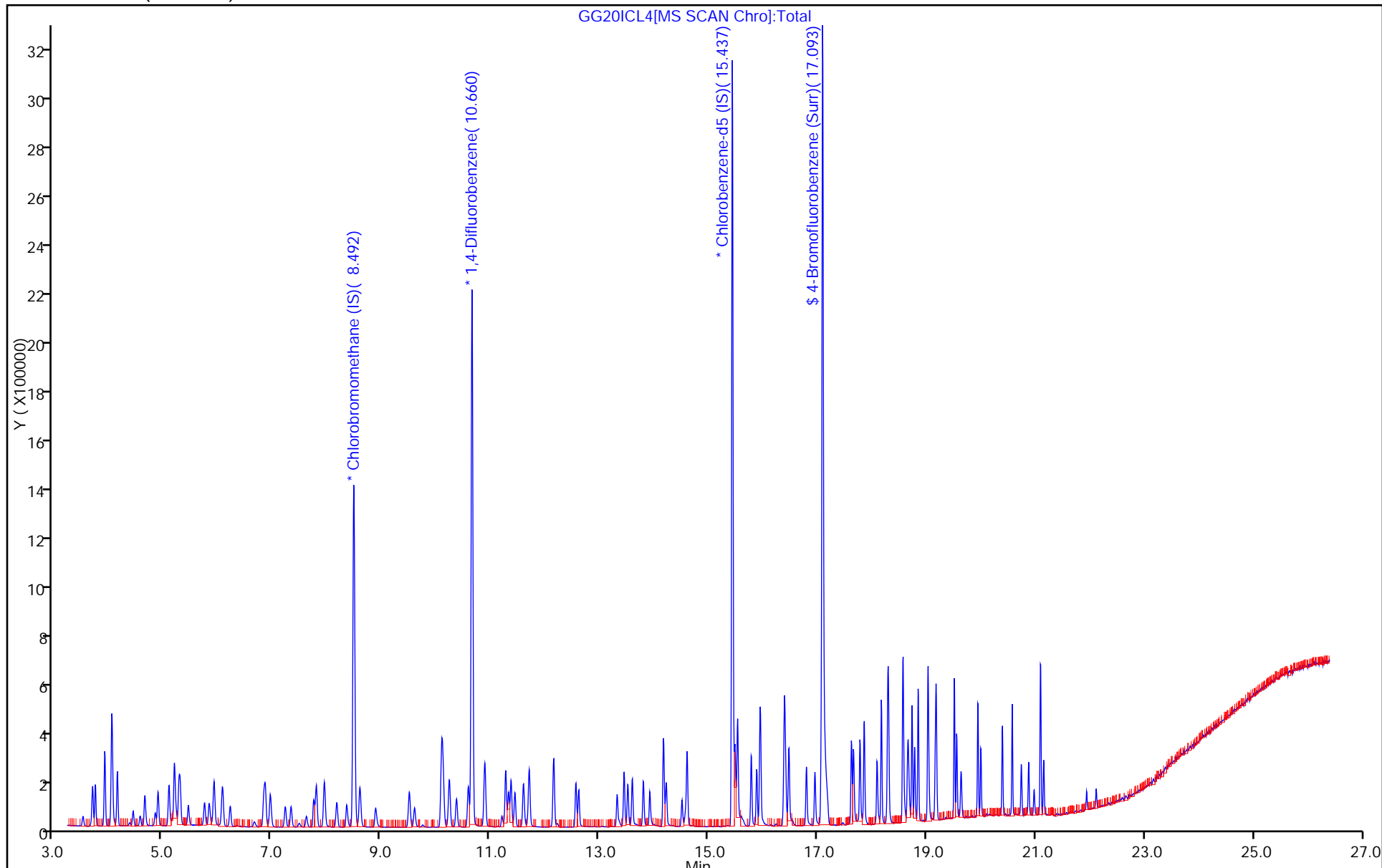
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL4.D

Injection Date: 20-Jul-2016 16:46:30

Instrument ID: MG

Lims ID: IC L4

Client ID:

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

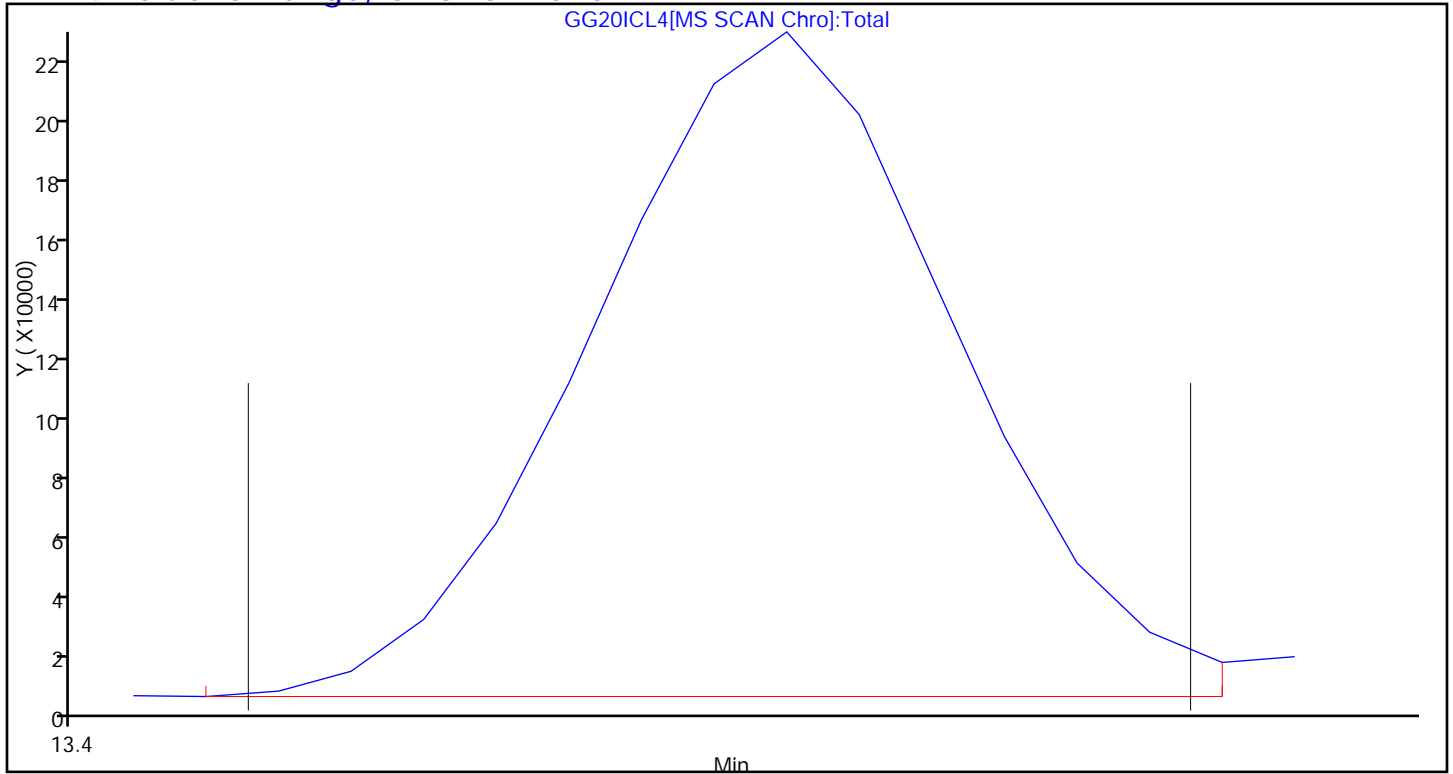
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL4.D

Injection Date: 20-Jul-2016 16:46:30

Instrument ID: MG

Lims ID: IC L4

Client ID:

Operator ID: 403648

ALS Bottle#: 9

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

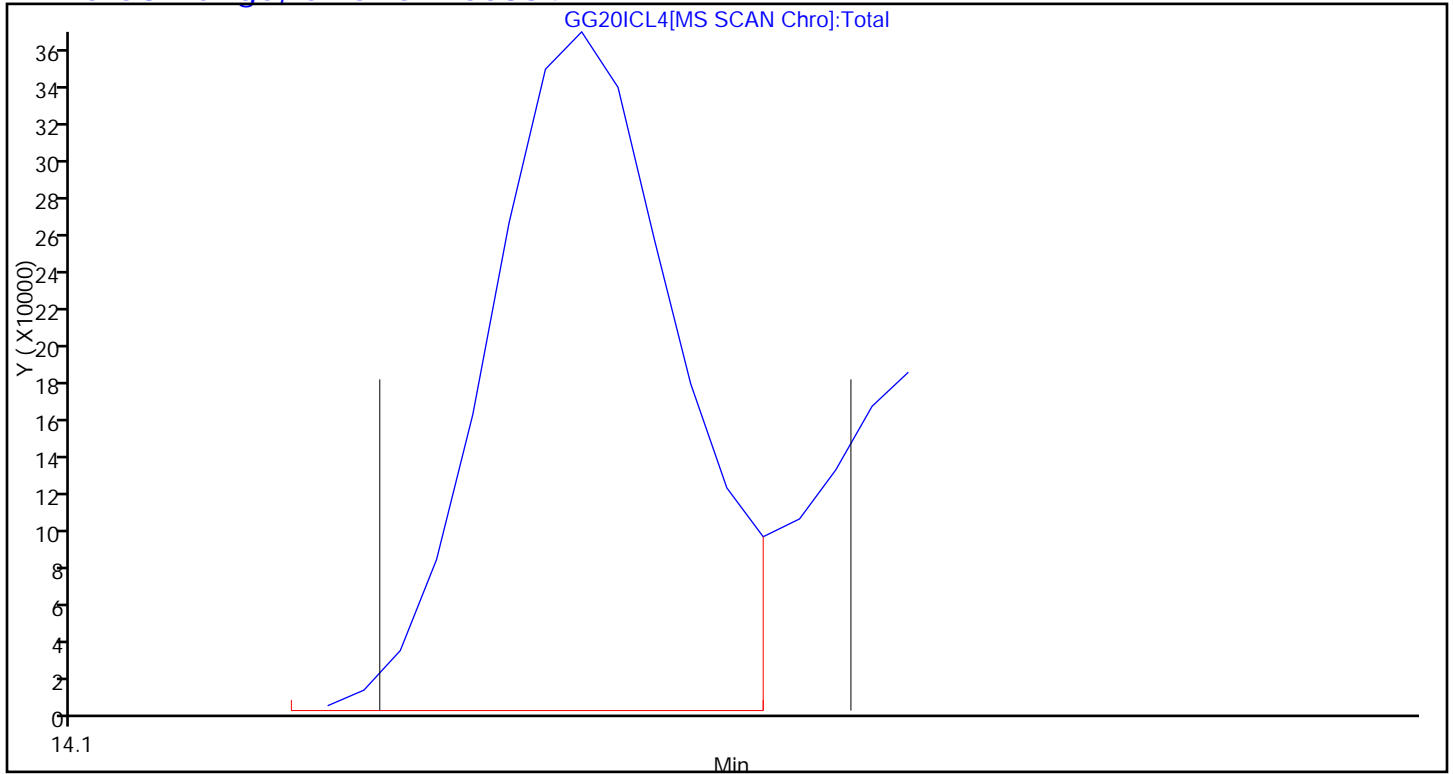
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL5.D
 Lims ID: IC L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 20-Jul-2016 17:27:30 ALS Bottle#: 10 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044585
 Misc. Info.: 140-0003204-006
 Operator ID: 403648 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5

Method: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Jul-2016 15:56:39 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: barlozhetskayaa

Date: 20-Jul-2016 18:28:11

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	8.498	8.501	-0.003	98	444009	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.665	10.669	-0.004	96	2239398	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.438	15.441	-0.003	89	2106816	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.093	17.096	-0.003	95	1480535	4.00	4.03	
6 Chlorodifluoromethane	67	3.698	3.701	-0.003	98	39289	1.00	1.06	
7 Propene	41	3.709	3.710	-0.001	98	144801	1.00	0.9158	
8 Dichlorodifluoromethane	85	3.758	3.758	0.000	100	372975	1.00	0.9769	
9 Chloromethane	52	3.919	3.922	-0.003	98	41724	1.00	0.9650	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.932	-0.002	91	233143	1.00	0.9732	
11 Acetaldehyde	44	4.060	4.060	0.000	91	361069	5.01	5.05	
12 Vinyl chloride	62	4.076	4.080	-0.004	99	136120	1.00	0.9744	
13 Butadiene	54	4.157	4.160	-0.003	67	110336	1.00	0.9611	
14 Butane	43	4.162	4.161	0.001	86	238615	1.00	0.9611	
15 Bromomethane	94	4.448	4.450	-0.002	98	113027	1.00	0.9543	
16 Chloroethane	64	4.577	4.580	-0.003	89	65347	1.00	0.9647	
17 Ethanol	31	4.664	4.674	-0.010	96	326275	5.01	5.12	
18 Vinyl bromide	106	4.852	4.856	-0.004	98	109477	1.00	0.9605	
19 2-Methylbutane	43	4.906	4.907	-0.001	93	161516	1.00	0.9635	
21 Acrolein	56	5.100	5.107	-0.007	96	39576	1.00	1.38	
20 Trichlorofluoromethane	101	5.106	5.108	-0.002	100	349002	1.00	0.9729	
22 Acetonitrile	40	5.160	5.168	-0.008	99	56302	1.00	0.9876	
23 Acetone	58	5.203	5.209	-0.006	99	203195	3.01	3.29	
25 Isopropyl alcohol	45	5.289	5.304	-0.015	97	614867	3.01	3.12	
24 Pentane	72	5.311	5.314	-0.003	98	20748	1.00	0.99	
26 Ethyl ether	31	5.456	5.462	-0.006	88	145434	1.00	1.03	
27 1,1-Dichloroethene	96	5.758	5.761	-0.003	95	102984	1.00	0.9509	
28 Acrylonitrile	53	5.839	5.849	-0.010	53	69861	1.00	0.9621	
29 2-Methyl-2-propanol	59	5.839	5.860	-0.021	95	203267	1.00	1.05	
30 1,1,2-Trichloro-1,2,2-trif	101	5.931	5.934	-0.003	93	212654	1.00	0.9698	
31 Methylene Chloride	84	6.076	6.083	-0.007	96	102893	1.00	0.9521	

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	6.093	6.097	-0.004	96	147592	1.00	0.9356	
33 Carbon disulfide	76	6.227	6.231	-0.004	100	359745	1.00	1.03	
34 trans-1,2-Dichloroethene	96	6.842	6.847	-0.005	96	129717	1.00	1.00	
35 2-Methylpentane	43	6.869	6.874	-0.005	96	340158	1.00	1.01	
36 Methyl tert-butyl ether	73	6.961	6.967	-0.006	97	363810	1.00	1.06	
37 1,1-Dichloroethane	63	7.241	7.243	-0.002	99	262566	1.00	0.99	
38 Vinyl acetate	43	7.344	7.349	-0.005	100	422728	1.00	1.09	
39 2-Butanone (MEK)	72	7.753	7.765	-0.012	98	67091	1.00	1.03	
40 Hexane	56	7.807	7.810	-0.003	93	116017	1.00	0.9888	
41 Isopropyl ether	45	7.953	7.959	-0.006	97	537857	1.00	1.05	
42 cis-1,2-Dichloroethene	96	8.179	8.188	-0.009	97	134412	1.00	0.9787	
43 Ethyl acetate	43	8.363	8.372	-0.009	97	347773	1.00	1.09	
44 Chloroform	83	8.514	8.521	-0.007	96	294470	1.00	0.99	
45 Tert-butyl ethyl ether	59	8.600	8.612	-0.012	97	431629	1.00	1.06	
46 Tetrahydrofuran	42	8.886	8.898	-0.012	93	180124	1.00	1.04	
47 1,1,1-Trichloroethane	97	9.511	9.518	-0.007	96	325924	1.00	1.00	
48 1,2-Dichloroethane	62	9.608	9.613	-0.005	98	210827	1.00	0.9483	
51 n-Butanol	31	10.083	10.104	-0.021	75	66599	1.00	1.01	
49 Benzene	78	10.104	10.112	-0.008	97	399902	1.00	0.9725	
50 Cyclohexane	69	10.110	10.116	-0.006	91	67178	1.00	0.9546	
52 Carbon tetrachloride	117	10.137	10.140	-0.003	97	268449	1.00	0.8287	
53 2,3-Dimethylpentane	71	10.250	10.251	-0.001	92	92759	1.00	0.9529	
54 Thiophene	84	10.379	10.384	-0.005	97	222144	1.00	0.9322	
55 Tert-amyl methyl ether	73	10.590	10.600	-0.010	94	377757	1.00	1.00	
56 Isooctane	57	10.897	10.901	-0.004	97	720267	1.00	0.9295	
57 n-Heptane	71	11.280	11.285	-0.005	96	144372	1.00	0.9310	
58 1,2-Dichloropropane	63	11.334	11.337	-0.003	89	159885	1.00	0.9599	
59 Trichloroethene	130	11.377	11.383	-0.006	95	183406	1.00	0.8852	
60 Dibromomethane	93	11.447	11.454	-0.007	94	162667	1.00	0.9181	
61 Dichlorobromomethane	83	11.604	11.608	-0.004	99	304736	1.00	0.9541	
62 1,4-Dioxane	88	11.614	11.625	-0.011	99	58194	1.00	1.00	
63 Methyl methacrylate	41	11.717	11.721	-0.004	94	221214	1.00	0.9730	
64 Methylcyclohexane	83	12.159	12.165	-0.006	90	307120	1.00	0.9655	
65 4-Methyl-2-pentanone (MIBK)	43	12.563	12.574	-0.011	99	438520	1.00	1.20	
66 cis-1,3-Dichloropropene	75	12.623	12.626	-0.003	97	236450	1.00	0.9757	
67 trans-1,3-Dichloropropene	75	13.324	13.329	-0.005	95	218178	1.00	1.02	
68 Toluene	91	13.453	13.456	-0.003	93	462787	1.00	1.00	
69 1,1,2-Trichloroethane	83	13.518	13.524	-0.006	99	133925	1.00	0.99	
70 2-Methylthiophene	97	13.604	13.606	-0.002	98	389913	1.00	1.02	
71 3-Methylthiophene	97	13.804	13.811	-0.007	99	376064	1.00	1.00	
72 2-Hexanone	58	13.917	13.929	-0.012	91	155597	1.00	1.04	
73 n-Octane	85	14.176	14.176	0.000	97	154948	1.00	0.9507	
74 Chlorodibromomethane	129	14.224	14.231	-0.007	98	291449	1.00	1.01	
75 Ethylene Dibromide	107	14.515	14.518	-0.003	98	256814	1.00	1.02	
76 Tetrachloroethene	129	14.607	14.610	-0.003	95	172789	1.00	0.9388	
77 Chlorobenzene	112	15.486	15.489	-0.003	92	359928	1.00	0.9823	
78 2,3-Dimethylheptane	43	15.535	15.537	-0.002	95	531352	1.00	0.9754	
79 Ethylbenzene	91	15.783	15.787	-0.004	99	624704	1.00	1.02	
80 2-Ethylthiophene	97	15.885	15.888	-0.003	99	485035	1.00	1.02	
81 m-Xylene & p-Xylene	91	15.950	15.953	-0.003	100	971074	2.00	2.06	
83 Bromoform	173	16.381	16.385	-0.004	97	303734	1.00	0.9663	
82 n-Nonane	57	16.397	16.399	-0.002	95	333247	1.00	1.01	

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	16.414	16.421	-0.007	99	324812	1.00	1.04	
85 o-Xylene	91	16.478	16.481	-0.003	99	516225	1.00	1.02	
86 1,1,2,2-Tetrachloroethane	83	16.796	16.800	-0.004	99	361387	1.00	1.05	
87 1,2,3-Trichloropropane	110	16.953	16.957	-0.004	96	111415	1.00	1.04	
88 Isopropylbenzene	105	17.071	17.074	-0.003	97	712035	1.00	1.01	
89 N-Propylbenzene	120	17.627	17.626	0.001	99	190613	1.00	1.03	
90 2-Chlorotoluene	126	17.659	17.664	-0.005	97	173151	1.00	1.01	
91 4-Ethyltoluene	105	17.778	17.783	-0.005	99	692578	1.00	1.02	
92 1,3,5-Trimethylbenzene	120	17.859	17.862	-0.003	92	328580	1.00	1.02	
93 Alpha Methyl Styrene	118	18.091	18.096	-0.005	88	272377	1.00	1.08	
94 n-Decane	57	18.171	18.175	-0.004	88	413745	1.00	1.03	
95 tert-Butylbenzene	119	18.290	18.293	-0.003	92	645407	1.00	1.03	
96 1,2,4-Trimethylbenzene	105	18.306	18.309	-0.003	97	612274	1.00	1.03	
97 sec-Butylbenzene	105	18.565	18.569	-0.004	99	884851	1.00	1.03	
98 1,3-Dichlorobenzene	146	18.570	18.576	-0.006	98	376750	1.00	0.9813	
99 Benzyl chloride	91	18.651	18.654	-0.003	97	481091	1.00	1.06	
100 1,4-Dichlorobenzene	146	18.662	18.666	-0.004	93	367560	1.00	1.00	
101 4-Isopropyltoluene	119	18.732	18.738	-0.006	96	731974	1.00	1.04	
102 1,2,3-Trimethylbenzene	105	18.781	18.785	-0.004	99	475356	1.00	1.03	
103 Butylcyclohexane	83	18.846	18.850	-0.004	89	458033	1.00	1.01	
104 1,2-Dichlorobenzene	146	19.029	19.031	-0.002	92	374034	1.00	1.00	
105 2,3-Dihydroindene	117	19.029	19.031	-0.002	94	543635	1.00	1.03	
106 Indene	116	19.164	19.164	0.000	91	394183	1.00	1.06	
107 n-Butylbenzene	91	19.174	19.180	-0.006	98	680564	1.00	1.08	
108 Undecane	57	19.509	19.511	-0.002	93	463504	1.00	1.09	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.552	19.555	-0.003	98	537320	1.00	1.07	
110 1,2-Dibromo-3-Chloropropan	157	19.633	19.637	-0.004	95	169349	1.00	1.18	
111 1,2,4,5-Tetramethylbenzene	119	19.946	19.945	0.001	97	659341	1.00	1.08	
112 1,2,3,5-Tetramethylbenzene	119	19.999	19.999	0.000	95	403928	1.00	1.08	
113 1,2,3,4-Tetramethylbenzene	119	20.393	20.394	-0.001	97	545244	1.00	1.09	
114 Dodecane	57	20.571	20.573	-0.002	92	405424	1.00	1.17	
115 1,2,4-Trichlorobenzene	180	20.738	20.742	-0.004	94	236858	1.00	1.13	
116 Naphthalene	128	20.873	20.874	-0.001	99	545497	1.00	1.11	
117 Benzo(b)thiophene	134	20.975	20.975	0.000	99	262210	1.00	1.01	
118 Hexachlorobutadiene	225	21.094	21.095	-0.001	96	379882	1.00	0.99	
119 1,2,3-Trichlorobenzene	180	21.153	21.151	0.002	95	247563	1.00	1.05	
120 2-Methylnaphthalene	142	21.935	21.937	-0.002	99	152873	3.13	3.34	
121 1-Methylnaphthalene	142	22.113	22.113	0.000	99	158788	3.13	3.49	
A 124 Toluene Range	1	13.448	(13.413-13.483)		0	1145129	1.00	0.99	
A 125 C8 Range	1	14.169	(14.146-14.216)		0	1688858	1.00	1.00	
S 126 Xylenes, Total	100				0		3.00	3.08	
S 127 1,2-Dichloroethene, Total	1				0		2.00	1.97	

Reagents:

40L5DNP_00005

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL5.D

Injection Date: 20-Jul-2016 17:27:30

Instrument ID: MG

Operator ID: 403648

Lims ID: IC L5

Worklist Smp#: 6

Client ID:

Purge Vol: 500.000 mL

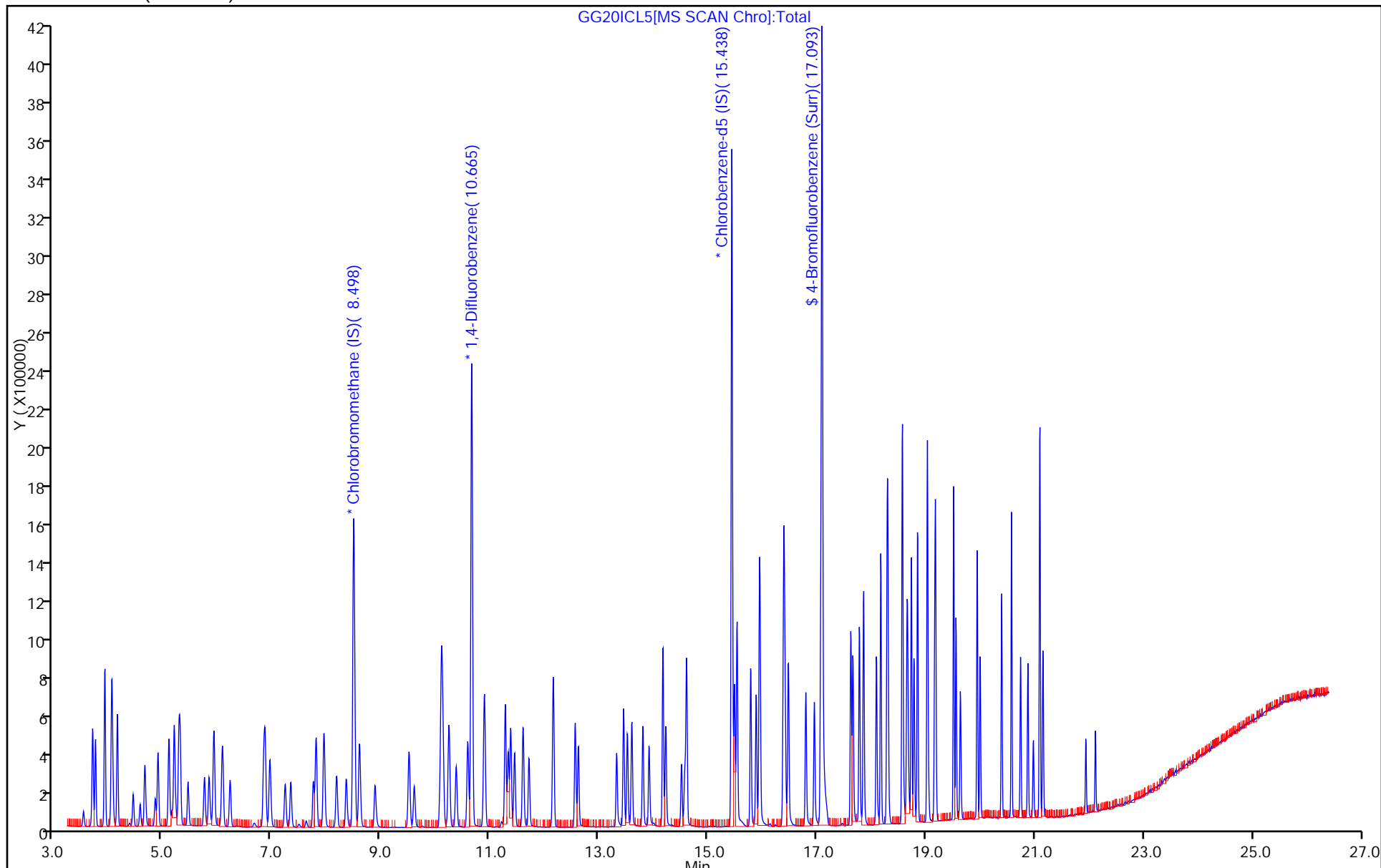
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL5.D

Injection Date: 20-Jul-2016 17:27:30

Instrument ID: MG

Lims ID: IC L5

Client ID:

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

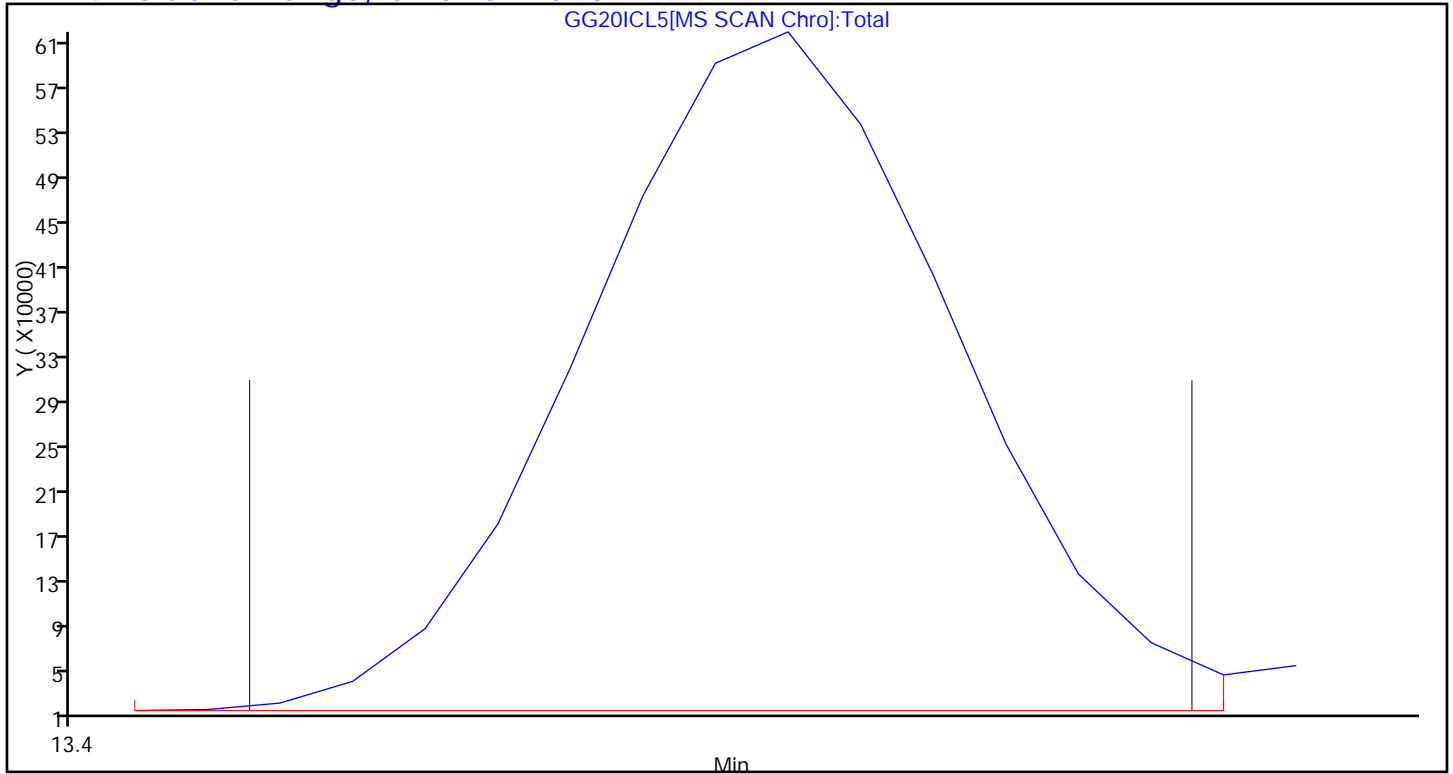
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL5.D

Injection Date: 20-Jul-2016 17:27:30

Instrument ID: MG

Lims ID: IC L5

Client ID:

Operator ID: 403648

ALS Bottle#: 10

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

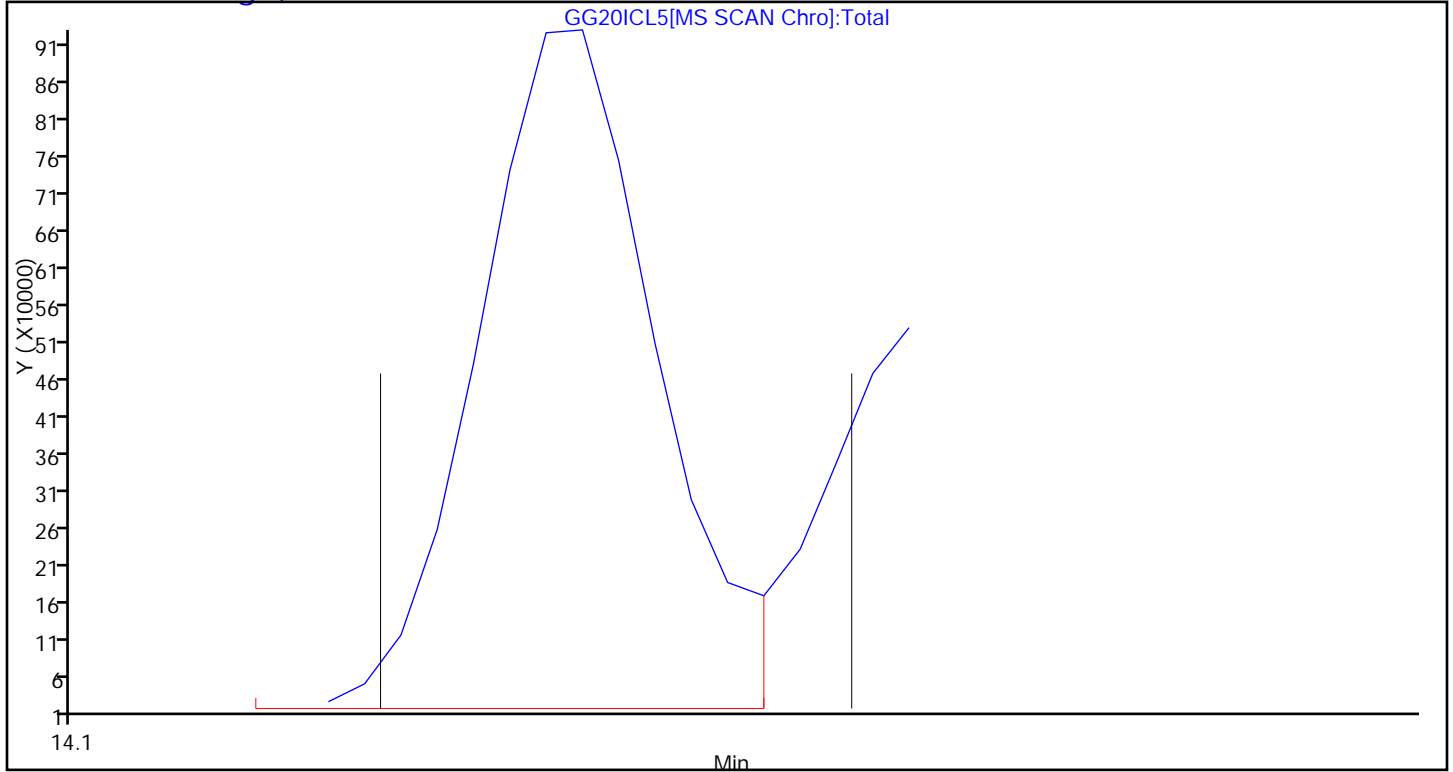
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL6.D
 Lims ID: ICIS L6
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 20-Jul-2016 18:08:30 ALS Bottle#: 11 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044586
 Misc. Info.: 140-0003204-007
 Operator ID: 403648 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Jul-2016 15:56:54 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: barlozhetskayaa

Date: 20-Jul-2016 18:56:55

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	8.497	8.501	-0.004	98	408268	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.665	10.669	-0.004	96	1852333	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.443	15.441	0.002	88	1847073	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.093	17.096	-0.003	95	1315155	4.00	4.08	
6 Chlorodifluoromethane	67	3.698	3.701	-0.003	98	75728	2.00	2.23	
7 Propene	41	3.704	3.710	-0.006	98	277489	2.00	1.91	
8 Dichlorodifluoromethane	85	3.752	3.758	-0.006	100	718672	2.00	2.05	
9 Chloromethane	52	3.919	3.922	-0.003	98	82440	2.00	2.07	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.932	-0.002	94	447434	2.00	2.03	
11 Acetaldehyde	44	4.059	4.060	-0.001	91	590744	9.99	8.99	
12 Vinyl chloride	62	4.076	4.080	-0.004	99	260455	2.00	2.03	
13 Butadiene	54	4.157	4.160	-0.003	66	213821	2.00	2.03	
14 Butane	43	4.157	4.161	-0.004	86	460671	2.00	2.02	
15 Bromomethane	94	4.448	4.450	-0.002	98	216035	2.00	1.98	
16 Chloroethane	64	4.577	4.580	-0.003	89	124069	2.00	1.99	
17 Ethanol	31	4.669	4.674	-0.005	97	587204	9.99	10.0	
18 Vinyl bromide	106	4.852	4.856	-0.004	98	207147	2.00	1.98	
19 2-Methylbutane	43	4.906	4.907	-0.001	93	300017	2.00	1.95	
21 Acrolein	56	5.100	5.107	-0.007	33	63175	2.00	2.39	
20 Trichlorofluoromethane	101	5.106	5.108	-0.002	99	667379	2.00	2.02	
22 Acetonitrile	40	5.160	5.168	-0.008	98	99206	2.00	1.89	
23 Acetone	58	5.203	5.209	-0.006	99	325482	5.99	5.73	
25 Isopropyl alcohol	45	5.289	5.304	-0.015	97	1093196	5.99	6.03	
24 Pentane	72	5.311	5.314	-0.004	98	38243	2.00	1.99	
26 Ethyl ether	31	5.456	5.462	-0.006	89	254567	2.00	1.96	
27 1,1-Dichloroethene	96	5.758	5.761	-0.003	95	194396	2.00	1.95	
28 Acrylonitrile	53	5.844	5.849	-0.005	53	124462	2.00	1.86	
29 2-Methyl-2-propanol	59	5.844	5.860	-0.016	96	363626	2.00	2.04	
30 1,1,2-Trichloro-1,2,2-trif	101	5.931	5.934	-0.003	92	403883	2.00	2.00	
31 Methylene Chloride	84	6.082	6.083	-0.001	96	188182	2.00	1.89	

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	6.092	6.097	-0.005	95	284484	2.00	1.96	
33 Carbon disulfide	76	6.227	6.231	-0.004	100	693483	2.00	2.15	
34 trans-1,2-Dichloroethene	96	6.847	6.847	0.000	97	251928	2.00	2.10	
35 2-Methylpentane	43	6.874	6.874	0.000	96	650811	2.00	2.11	
36 Methyl tert-butyl ether	73	6.961	6.967	-0.006	97	663433	2.00	2.10	
37 1,1-Dichloroethane	63	7.241	7.243	-0.002	99	497421	2.00	2.04	
38 Vinyl acetate	43	7.343	7.349	-0.006	100	778099	2.00	2.17	
39 2-Butanone (MEK)	72	7.753	7.765	-0.012	98	119374	2.00	2.10	
40 Hexane	56	7.807	7.810	-0.003	90	218307	2.00	2.02	
41 Isopropyl ether	45	7.953	7.959	-0.006	96	980591	2.00	2.09	
42 cis-1,2-Dichloroethene	96	8.185	8.188	-0.003	96	260240	2.00	2.06	
43 Ethyl acetate	43	8.357	8.372	-0.015	97	638678	2.00	2.17	
44 Chloroform	83	8.519	8.521	-0.002	97	556042	2.00	2.04	
45 Tert-butyl ethyl ether	59	8.605	8.612	-0.007	97	793620	2.00	2.13	
46 Tetrahydrofuran	42	8.886	8.898	-0.012	93	332891	2.00	2.09	
47 1,1,1-Trichloroethane	97	9.517	9.518	-0.001	96	621890	2.00	2.07	
48 1,2-Dichloroethane	62	9.608	9.613	-0.005	98	393288	2.00	2.14	
51 n-Butanol	31	10.077	10.104	-0.027	82	126607	2.00	2.31	
49 Benzene	78	10.110	10.112	-0.002	98	732930	2.00	2.15	
50 Cyclohexane	69	10.115	10.116	-0.001	93	127761	2.00	2.19	
52 Carbon tetrachloride	117	10.137	10.140	-0.003	98	624993	2.00	2.33	
53 2,3-Dimethylpentane	71	10.250	10.251	-0.001	91	177513	2.00	2.20	
54 Thiophene	84	10.379	10.384	-0.005	97	420121	2.00	2.13	
55 Tert-amyl methyl ether	73	10.595	10.600	-0.005	95	694426	2.00	2.22	
56 Isooctane	57	10.897	10.901	-0.004	97	1377507	2.00	2.15	
57 n-Heptane	71	11.285	11.285	0.000	96	274520	2.00	2.14	
58 1,2-Dichloropropane	63	11.334	11.337	-0.003	89	293000	2.00	2.13	
59 Trichloroethene	130	11.382	11.383	-0.001	95	358275	2.00	2.09	
60 Dibromomethane	93	11.452	11.454	-0.002	94	312941	2.00	2.14	
61 Dichlorobromomethane	83	11.603	11.608	-0.005	99	590155	2.00	2.23	
62 1,4-Dioxane	88	11.614	11.625	-0.011	98	112404	2.00	2.33	
63 Methyl methacrylate	41	11.717	11.721	-0.004	94	407019	2.00	2.16	
64 Methylcyclohexane	83	12.164	12.165	-0.001	90	581742	2.00	2.21	
65 4-Methyl-2-pentanone (MIBK)	43	12.563	12.574	-0.011	99	666019	2.00	2.23	
66 cis-1,3-Dichloropropene	75	12.623	12.626	-0.003	97	443518	2.00	2.21	
67 trans-1,3-Dichloropropene	75	13.324	13.329	-0.005	96	402450	2.00	2.14	
68 Toluene	91	13.453	13.456	-0.003	93	852047	2.00	2.11	
69 1,1,2-Trichloroethane	83	13.523	13.524	-0.001	99	247379	2.00	2.09	
70 2-Methylthiophene	97	13.604	13.606	-0.002	98	700124	2.00	2.08	
71 3-Methylthiophene	97	13.809	13.811	-0.002	99	712290	2.00	2.16	
72 2-Hexanone	58	13.917	13.929	-0.012	91	289691	2.00	2.21	
73 n-Octane	85	14.176	14.176	0.000	97	299170	2.00	2.09	
74 Chlorodibromomethane	129	14.229	14.231	-0.002	98	562305	2.00	2.22	
75 Ethylene Dibromide	107	14.515	14.518	-0.003	98	485372	2.00	2.19	
76 Tetrachloroethene	129	14.607	14.610	-0.003	94	329333	2.00	2.04	
77 Chlorobenzene	112	15.486	15.489	-0.003	92	666986	2.00	2.08	
78 2,3-Dimethylheptane	43	15.534	15.537	-0.003	95	1000338	2.00	2.09	
79 Ethylbenzene	91	15.788	15.787	0.001	99	1136311	2.00	2.12	
80 2-Ethylthiophene	97	15.885	15.888	-0.003	99	893182	2.00	2.14	
81 m-Xylene & p-Xylene	91	15.950	15.953	-0.003	99	1770385	3.99	4.28	
83 Bromoform	173	16.381	16.385	-0.004	97	601639	2.00	2.18	
82 n-Nonane	57	16.397	16.399	-0.002	94	623372	2.00	2.16	

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	16.419	16.421	-0.002	98	610607	2.00	2.23	
85 o-Xylene	91	16.478	16.481	-0.003	98	942362	2.00	2.12	
86 1,1,2,2-Tetrachloroethane	83	16.796	16.800	-0.004	99	656848	2.00	2.17	
87 1,2,3-Trichloropropane	110	16.953	16.957	-0.004	96	202045	2.00	2.15	
88 Isopropylbenzene	105	17.071	17.074	-0.003	97	1296789	2.00	2.09	
89 N-Propylbenzene	120	17.627	17.626	0.001	99	345580	2.00	2.13	
90 2-Chlorotoluene	126	17.664	17.664	0.000	97	317015	2.00	2.10	
91 4-Ethyltoluene	105	17.783	17.783	0.000	99	1273340	2.00	2.15	
92 1,3,5-Trimethylbenzene	120	17.859	17.862	-0.003	92	597652	2.00	2.11	
93 Alpha Methyl Styrene	118	18.096	18.096	0.000	87	511817	2.00	2.31	
94 n-Decane	57	18.171	18.175	-0.004	88	768564	2.00	2.17	
95 tert-Butylbenzene	119	18.290	18.293	-0.003	92	1159460	2.00	2.11	
96 1,2,4-Trimethylbenzene	105	18.306	18.309	-0.003	96	1122054	2.00	2.16	
97 sec-Butylbenzene	105	18.565	18.569	-0.004	98	1601492	2.00	2.13	
98 1,3-Dichlorobenzene	146	18.576	18.576	0.000	97	711708	2.00	2.11	
99 Benzyl chloride	91	18.651	18.654	-0.003	97	917217	2.00	2.30	
100 1,4-Dichlorobenzene	146	18.662	18.666	-0.004	93	692146	2.00	2.15	
101 4-Isopropyltoluene	119	18.738	18.738	0.000	97	1337200	2.00	2.16	
102 1,2,3-Trimethylbenzene	105	18.781	18.785	-0.004	99	863187	2.00	2.14	
103 Butylcyclohexane	83	18.851	18.850	0.001	89	842624	2.00	2.12	
104 1,2-Dichlorobenzene	146	19.029	19.031	-0.002	92	692181	2.00	2.11	
105 2,3-Dihydroindene	117	19.029	19.031	-0.002	93	995741	2.00	2.15	
106 Indene	116	19.164	19.164	0.000	91	734983	2.00	2.25	
107 n-Butylbenzene	91	19.180	19.180	0.000	98	1257550	2.00	2.27	
108 Undecane	57	19.509	19.511	-0.002	93	855225	2.00	2.29	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.552	19.555	-0.003	98	992689	2.00	2.25	
110 1,2-Dibromo-3-Chloropropan	157	19.638	19.637	0.001	95	315944	2.00	2.50	
111 1,2,4,5-Tetramethylbenzene	119	19.945	19.945	0.000	97	1200509	2.00	2.24	
112 1,2,3,5-Tetramethylbenzene	119	19.999	19.999	0.000	95	730752	2.00	2.22	
113 1,2,3,4-Tetramethylbenzene	119	20.393	20.394	-0.001	97	995050	2.00	2.26	
114 Dodecane	57	20.571	20.573	-0.002	92	763908	2.00	2.52	
115 1,2,4-Trichlorobenzene	180	20.738	20.742	-0.004	94	480973	2.00	2.63	
116 Naphthalene	128	20.873	20.874	-0.001	99	1077641	2.00	2.49	
117 Benzo(b)thiophene	134	20.975	20.975	0.000	99	538371	2.00	2.37	
118 Hexachlorobutadiene	225	21.094	21.095	-0.001	95	724015	2.00	2.16	
119 1,2,3-Trichlorobenzene	180	21.148	21.151	-0.003	96	505500	2.00	2.44	
120 2-Methylnaphthalene	142	21.935	21.937	-0.002	99	368362	6.24	9.18	
121 1-Methylnaphthalene	142	22.113	22.113	0.000	99	358836	6.24	8.99	
A 124 Toluene Range	1	13.448	(13.413-13.483)		0	2132546	2.00	2.24	
A 125 C8 Range	1	14.169	(14.146-14.216)		0	3162250	2.00	2.26	
S 126 Xylenes, Total	100				0		5.99	6.40	
S 127 1,2-Dichloroethene, Total	1				0		3.99	4.16	

Reagents:

40L6DNP_00006

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL6.D

Injection Date: 20-Jul-2016 18:08:30

Instrument ID: MG

Operator ID: 403648

Lims ID: ICIS L6

Worklist Smp#: 7

Client ID:

Purge Vol: 500.000 mL

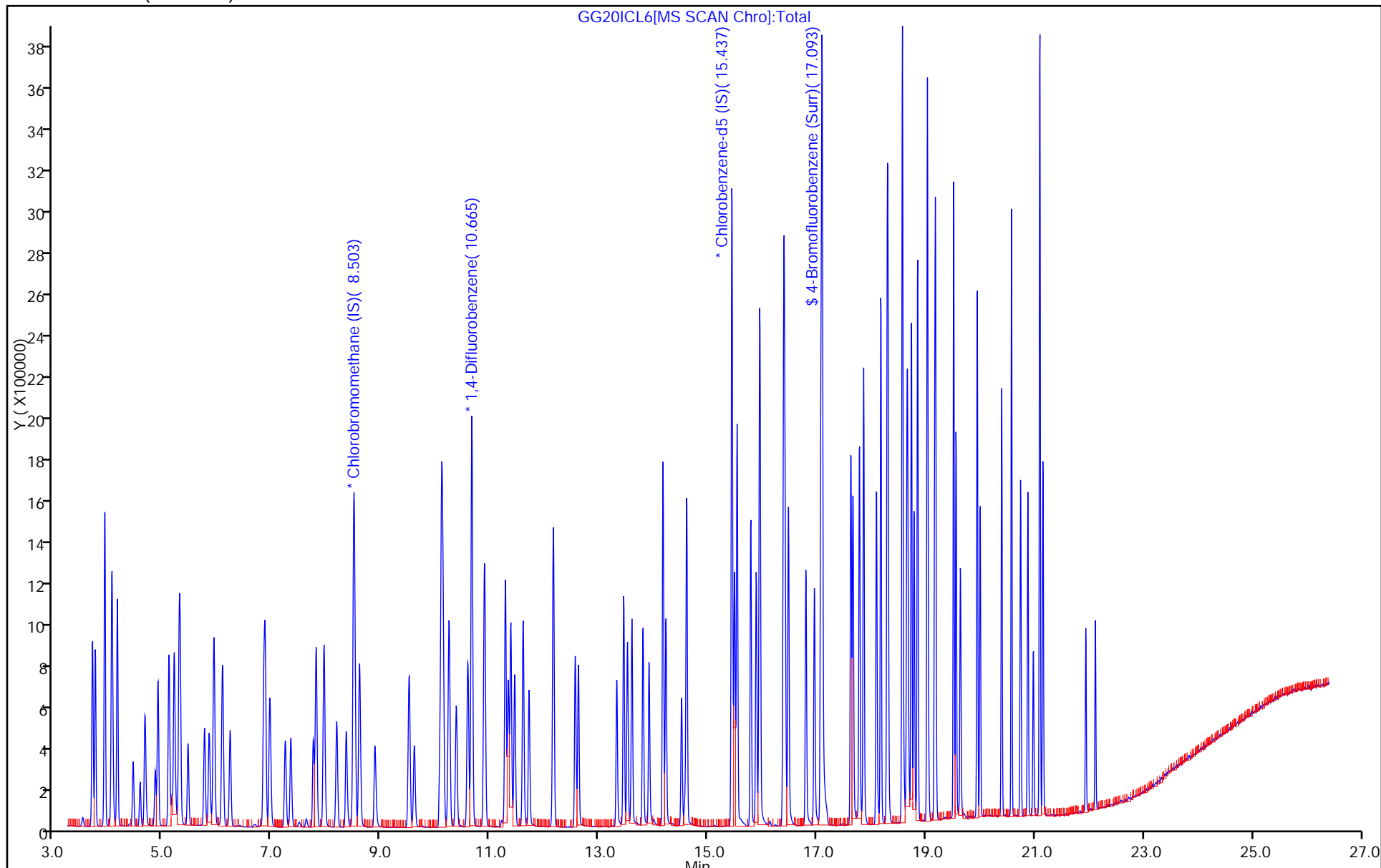
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL6.D

Injection Date: 20-Jul-2016 18:08:30

Instrument ID: MG

Lims ID: ICIS L6

Client ID:

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

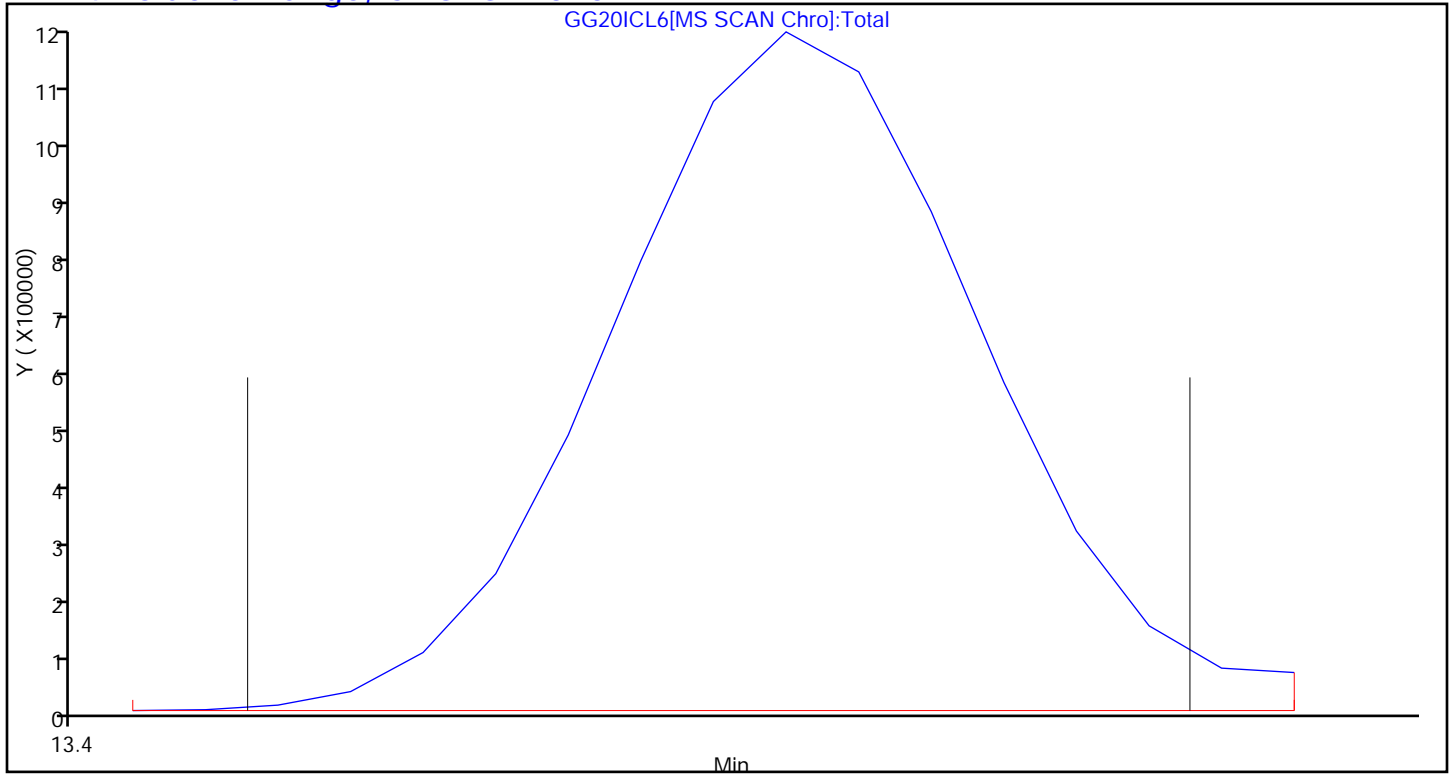
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL6.D

Injection Date: 20-Jul-2016 18:08:30

Instrument ID: MG

Lims ID: ICIS L6

Client ID:

Operator ID: 403648

ALS Bottle#: 11

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

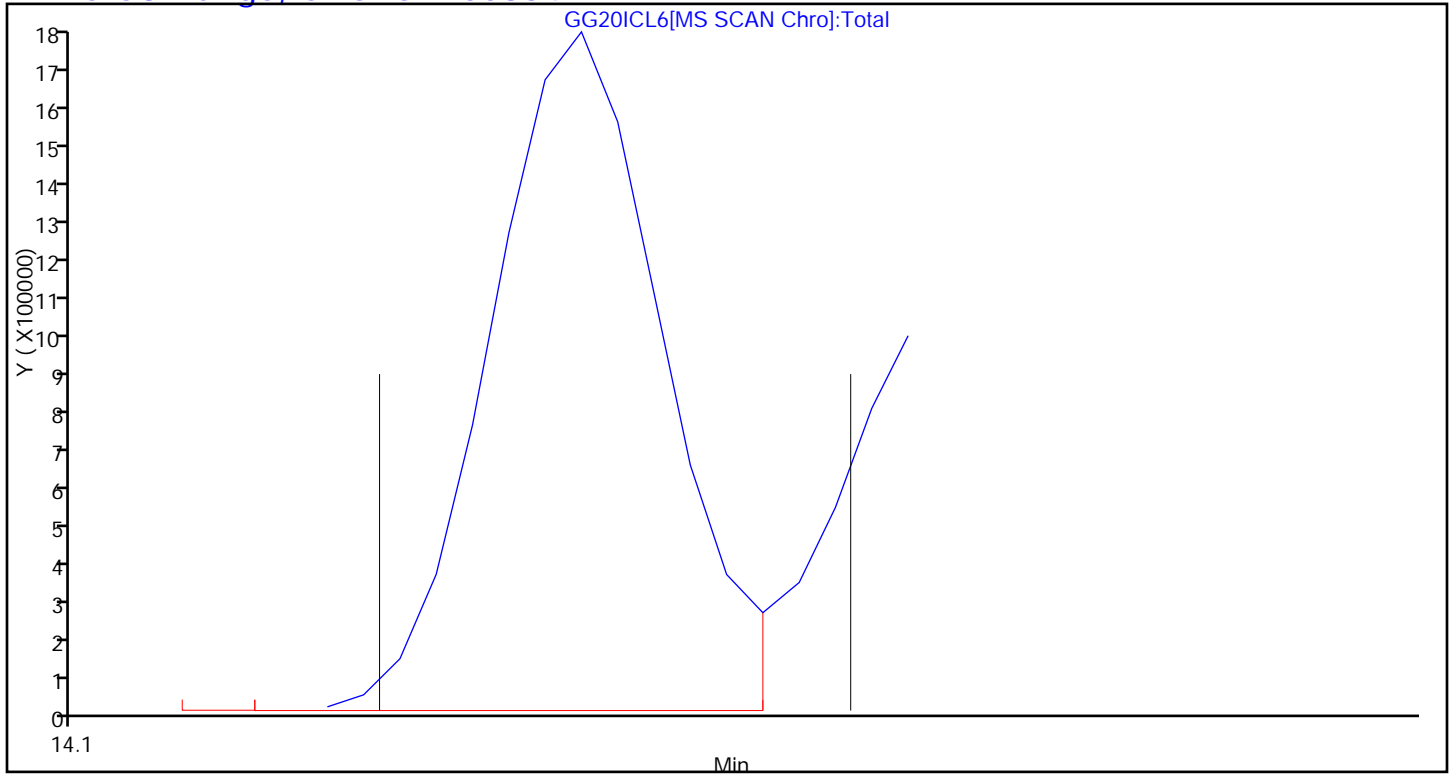
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL7.D
 Lims ID: IC L7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 20-Jul-2016 18:53:30 ALS Bottle#: 12 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044587
 Misc. Info.: 140-0003204-008
 Operator ID: 403648 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Jul-2016 15:57:07 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: barlozhetskayaa

Date: 20-Jul-2016 19:47:03

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	8.519	8.501	0.018	98	446265	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.681	10.669	0.012	95	2188429	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.448	15.441	0.007	89	2110794	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.104	17.096	0.008	96	1479778	4.00	4.02	
6 Chlorodifluoromethane	67	3.715	3.701	0.014	97	140925	4.00	3.80	
7 Propene	41	3.725	3.710	0.015	98	537146	4.00	3.38	
8 Dichlorodifluoromethane	85	3.774	3.758	0.016	100	1418649	4.00	3.70	
9 Chloromethane	52	3.936	3.922	0.014	98	164623	4.00	3.79	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.946	3.932	0.014	94	910251	4.00	3.78	
11 Acetaldehyde	44	4.076	4.060	0.016	91	1044207	20.0	14.5	
12 Vinyl chloride	62	4.092	4.080	0.012	99	544569	4.00	3.88	
13 Butadiene	54	4.173	4.160	0.013	67	447350	4.00	3.88	
14 Butane	43	4.178	4.161	0.017	86	961293	4.00	3.85	
15 Bromomethane	94	4.464	4.450	0.014	98	463986	4.00	3.90	
16 Chloroethane	64	4.593	4.580	0.013	87	273844	4.00	4.02	
17 Ethanol	31	4.707	4.674	0.033	97	1250268	20.0	19.5	
18 Vinyl bromide	106	4.874	4.856	0.018	99	458193	4.00	4.00	
19 2-Methylbutane	43	4.922	4.907	0.015	93	689050	4.00	4.09	
21 Acrolein	56	5.122	5.107	0.015	83	135357	4.00	4.69	
20 Trichlorofluoromethane	101	5.127	5.108	0.019	100	1418491	4.00	3.93	
22 Acetonitrile	40	5.187	5.168	0.019	98	230175	4.00	4.02	
23 Acetone	58	5.224	5.209	0.015	99	628006	12.0	10.1	
25 Isopropyl alcohol	45	5.343	5.304	0.039	96	2434453	12.0	12.3	
24 Pentane	72	5.332	5.314	0.018	97	85847	4.00	4.10	
26 Ethyl ether	31	5.472	5.462	0.010	89	638944	4.00	4.49	
27 1,1-Dichloroethene	96	5.780	5.761	0.019	95	443982	4.00	4.08	
28 Acrylonitrile	53	5.866	5.849	0.017	94	312198	4.00	4.28	
29 2-Methyl-2-propanol	59	5.893	5.860	0.033	95	810529	4.00	4.16	
30 1,1,2-Trichloro-1,2,2-trif	101	5.952	5.934	0.018	95	902704	4.00	4.10	
31 Methylene Chloride	84	6.098	6.083	0.015	96	425652	4.00	3.92	

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	6.114	6.097	0.017	95	589745	4.00	3.72	
33 Carbon disulfide	76	6.249	6.231	0.018	100	1368836	4.00	3.88	
34 trans-1,2-Dichloroethene	96	6.864	6.847	0.017	96	502964	4.00	3.84	
35 2-Methylpentane	43	6.891	6.874	0.017	96	1274908	4.00	3.78	
36 Methyl tert-butyl ether	73	6.977	6.967	0.010	97	1376698	4.00	3.98	
37 1,1-Dichloroethane	63	7.263	7.243	0.020	100	1001436	4.00	3.76	
38 Vinyl acetate	43	7.365	7.349	0.016	100	1604346	4.00	4.10	
39 2-Butanone (MEK)	72	7.775	7.765	0.010	98	229829	4.00	3.79	
40 Hexane	56	7.824	7.810	0.014	92	431943	4.00	3.66	
41 Isopropyl ether	45	7.969	7.959	0.010	97	2009900	4.00	3.92	
42 cis-1,2-Dichloroethene	96	8.206	8.188	0.018	96	530257	4.00	3.84	
43 Ethyl acetate	43	8.384	8.372	0.012	97	1306969	4.00	4.06	
44 Chloroform	83	8.541	8.521	0.020	96	1133039	4.00	3.80	
45 Tert-butyl ethyl ether	59	8.622	8.612	0.010	97	1642030	4.00	4.03	
46 Tetrahydrofuran	42	8.902	8.898	0.004	93	677897	4.00	3.89	
47 1,1,1-Trichloroethane	97	9.533	9.518	0.015	95	1251755	4.00	3.81	
48 1,2-Dichloroethane	62	9.630	9.613	0.017	98	809613	4.00	3.73	
51 n-Butanol	31	10.121	10.104	0.017	69	245344	4.00	3.79	
49 Benzene	78	10.126	10.112	0.014	96	1484756	4.00	3.69	
50 Cyclohexane	69	10.126	10.116	0.010	80	251038	4.00	3.65	
52 Carbon tetrachloride	117	10.153	10.140	0.013	97	1282659	4.00	4.05	
53 2,3-Dimethylpentane	71	10.261	10.251	0.010	92	349602	4.00	3.68	
54 Thiophene	84	10.396	10.384	0.012	97	852768	4.00	3.66	
55 Tert-amyl methyl ether	73	10.606	10.600	0.006	95	1434776	4.00	3.88	
56 Isooctane	57	10.913	10.901	0.012	97	2694094	4.00	3.56	
57 n-Heptane	71	11.296	11.285	0.011	95	538079	4.00	3.55	
58 1,2-Dichloropropane	63	11.350	11.337	0.013	88	595427	4.00	3.66	
59 Trichloroethene	130	11.393	11.383	0.010	96	727892	4.00	3.60	
60 Dibromomethane	93	11.463	11.454	0.009	92	621397	4.00	3.59	
61 Dichlorobromomethane	83	11.620	11.608	0.012	99	1214803	4.00	3.89	
62 1,4-Dioxane	88	11.631	11.625	0.006	98	222885	4.00	3.90	
63 Methyl methacrylate	41	11.728	11.721	0.007	94	846160	4.00	3.81	
64 Methylcyclohexane	83	12.175	12.165	0.010	92	1149693	4.00	3.70	
65 4-Methyl-2-pentanone (MIBK)	43	12.580	12.574	0.006	99	1323566	4.00	3.78	
66 cis-1,3-Dichloropropene	75	12.634	12.626	0.008	98	910486	4.00	3.84	
67 trans-1,3-Dichloropropene	75	13.340	13.329	0.011	96	849574	4.00	3.95	
68 Toluene	91	13.464	13.456	0.008	93	1761024	4.00	3.82	
69 1,1,2-Trichloroethane	83	13.534	13.524	0.010	99	515736	4.00	3.82	
70 2-Methylthiophene	97	13.615	13.606	0.009	98	1490032	4.00	3.88	
71 3-Methylthiophene	97	13.820	13.811	0.009	99	1454544	4.00	3.86	
72 2-Hexanone	58	13.933	13.929	0.004	91	572249	4.00	3.82	
73 n-Octane	85	14.181	14.176	0.005	96	598665	4.00	3.67	
74 Chlorodibromomethane	129	14.240	14.231	0.009	98	1238836	4.00	4.29	
75 Ethylene Dibromide	107	14.526	14.518	0.008	98	1008425	4.00	3.98	
76 Tetrachloroethene	129	14.618	14.610	0.008	95	674647	4.00	3.66	
77 Chlorobenzene	112	15.497	15.489	0.008	92	1414763	4.00	3.85	
78 2,3-Dimethylheptane	43	15.540	15.537	0.003	95	2001984	4.00	3.67	
79 Ethylbenzene	91	15.793	15.787	0.006	99	2372349	4.00	3.88	
80 2-Ethylthiophene	97	15.896	15.888	0.008	99	1868171	4.00	3.91	
81 m-Xylene & p-Xylene	91	15.961	15.953	0.008	100	3722315	8.00	7.87	
83 Bromoform	173	16.392	16.385	0.007	98	1416425	4.00	4.50	
82 n-Nonane	57	16.403	16.399	0.004	94	1235680	4.00	3.75	

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	16.424	16.421	0.003	99	1300041	4.00	4.16	
85 o-Xylene	91	16.484	16.481	0.003	98	1937561	4.00	3.82	
86 1,1,2,2-Tetrachloroethane	83	16.807	16.800	0.007	100	1348615	4.00	3.90	
87 1,2,3-Trichloropropane	110	16.964	16.957	0.007	96	420291	4.00	3.91	
88 Isopropylbenzene	105	17.082	17.074	0.008	97	2704962	4.00	3.82	
89 N-Propylbenzene	120	17.632	17.626	0.006	99	725883	4.00	3.92	
90 2-Chlorotoluene	126	17.670	17.664	0.006	96	671656	4.00	3.90	
91 4-Ethyltoluene	105	17.789	17.783	0.006	99	2707804	4.00	3.99	
92 1,3,5-Trimethylbenzene	120	17.870	17.862	0.008	92	1241970	4.00	3.85	
93 Alpha Methyl Styrene	118	18.101	18.096	0.005	88	1115202	4.00	4.41	
94 n-Decane	57	18.182	18.175	0.007	89	1538826	4.00	3.81	
95 tert-Butylbenzene	119	18.301	18.293	0.008	93	2429755	4.00	3.87	
96 1,2,4-Trimethylbenzene	105	18.312	18.309	0.003	96	2312993	4.00	3.90	
97 sec-Butylbenzene	105	18.576	18.569	0.007	98	3319123	4.00	3.86	
98 1,3-Dichlorobenzene	146	18.581	18.576	0.005	96	1538740	4.00	4.00	
99 Benzyl chloride	91	18.657	18.654	0.003	98	1927976	4.00	4.23	
100 1,4-Dichlorobenzene	146	18.668	18.666	0.002	95	1495925	4.00	4.07	
101 4-Isopropyltoluene	119	18.743	18.738	0.005	97	2765837	4.00	3.91	
102 1,2,3-Trimethylbenzene	105	18.792	18.785	0.007	99	1783307	4.00	3.86	
103 Butylcyclohexane	83	18.856	18.850	0.006	90	1687274	4.00	3.72	
104 1,2-Dichlorobenzene	146	19.034	19.031	0.003	93	1483244	4.00	3.96	
105 2,3-Dihydroindene	117	19.034	19.031	0.003	93	2077957	4.00	3.93	
106 Indene	116	19.164	19.164	0.000	91	1574119	4.00	4.22	
107 n-Butylbenzene	91	19.180	19.180	0.000	98	2515175	4.00	3.97	
108 Undecane	57	19.514	19.511	0.003	94	1564414	4.00	3.67	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.557	19.555	0.002	98	1987013	4.00	3.93	
110 1,2-Dibromo-3-Chloropropan	157	19.638	19.637	0.001	96	692179	4.00	4.80	
111 1,2,4,5-Tetramethylbenzene	119	19.946	19.945	0.001	97	2328684	4.00	3.80	
112 1,2,3,5-Tetramethylbenzene	119	19.999	19.999	0.000	95	1418105	4.00	3.77	
113 1,2,3,4-Tetramethylbenzene	119	20.393	20.394	-0.001	97	1847176	4.00	3.68	
114 Dodecane	57	20.576	20.573	0.003	93	1048634	4.00	3.03	
115 1,2,4-Trichlorobenzene	180	20.744	20.742	0.002	93	928916	4.00	4.44	
116 Naphthalene	128	20.873	20.874	-0.001	99	2085327	4.00	4.22	
117 Benzo(b)thiophene	134	20.976	20.975	0.001	99	1037580	4.00	4.01	
118 Hexachlorobutadiene	225	21.094	21.095	-0.001	94	1266018	4.00	3.30	
119 1,2,3-Trichlorobenzene	180	21.153	21.151	0.002	95	905583	4.00	3.83	
120 2-Methylnaphthalene	142	21.935	21.937	-0.002	99	458682	12.5	10.0	
121 1-Methylnaphthalene	142	22.113	22.113	0.000	99	397822	12.5	8.73	
A 124 Toluene Range	1	13.459	(13.424-13.494)	0	0	4368368	4.00	3.88	
A 125 C8 Range	1	14.177	(14.151-14.221)	0	0	6226546	4.00	3.76	
S 126 Xylenes, Total	100				0		12.0	11.7	
S 127 1,2-Dichloroethene, Total	1				0		8.00	7.68	

Reagents:

40L7DNP_00005

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL7.D

Injection Date: 20-Jul-2016 18:53:30

Instrument ID: MG

Operator ID: 403648

Lims ID: IC L7

Worklist Smp#: 8

Client ID:

Purge Vol: 500.000 mL

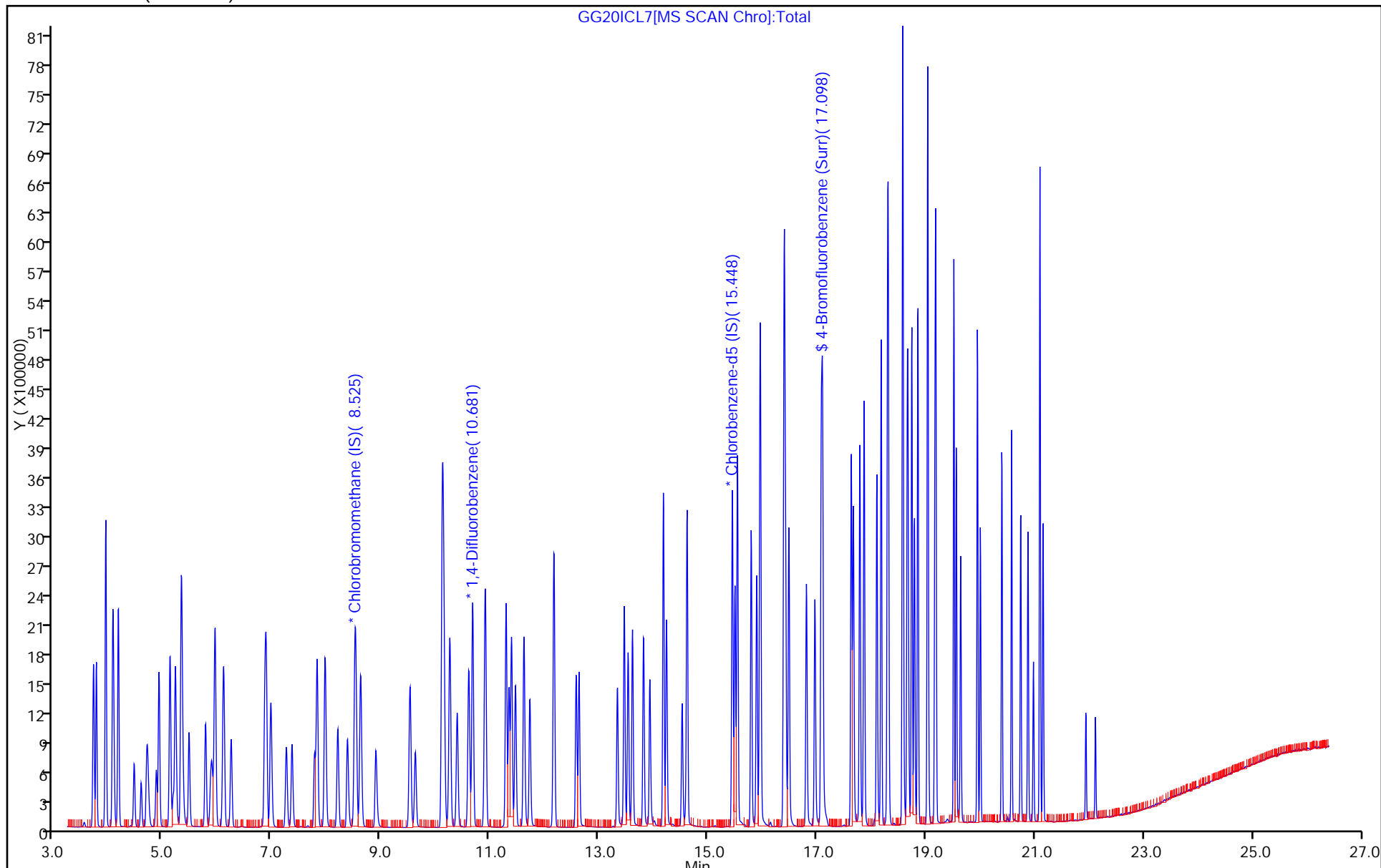
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL7.D

Injection Date: 20-Jul-2016 18:53:30

Instrument ID: MG

Lims ID: IC L7

Client ID:

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

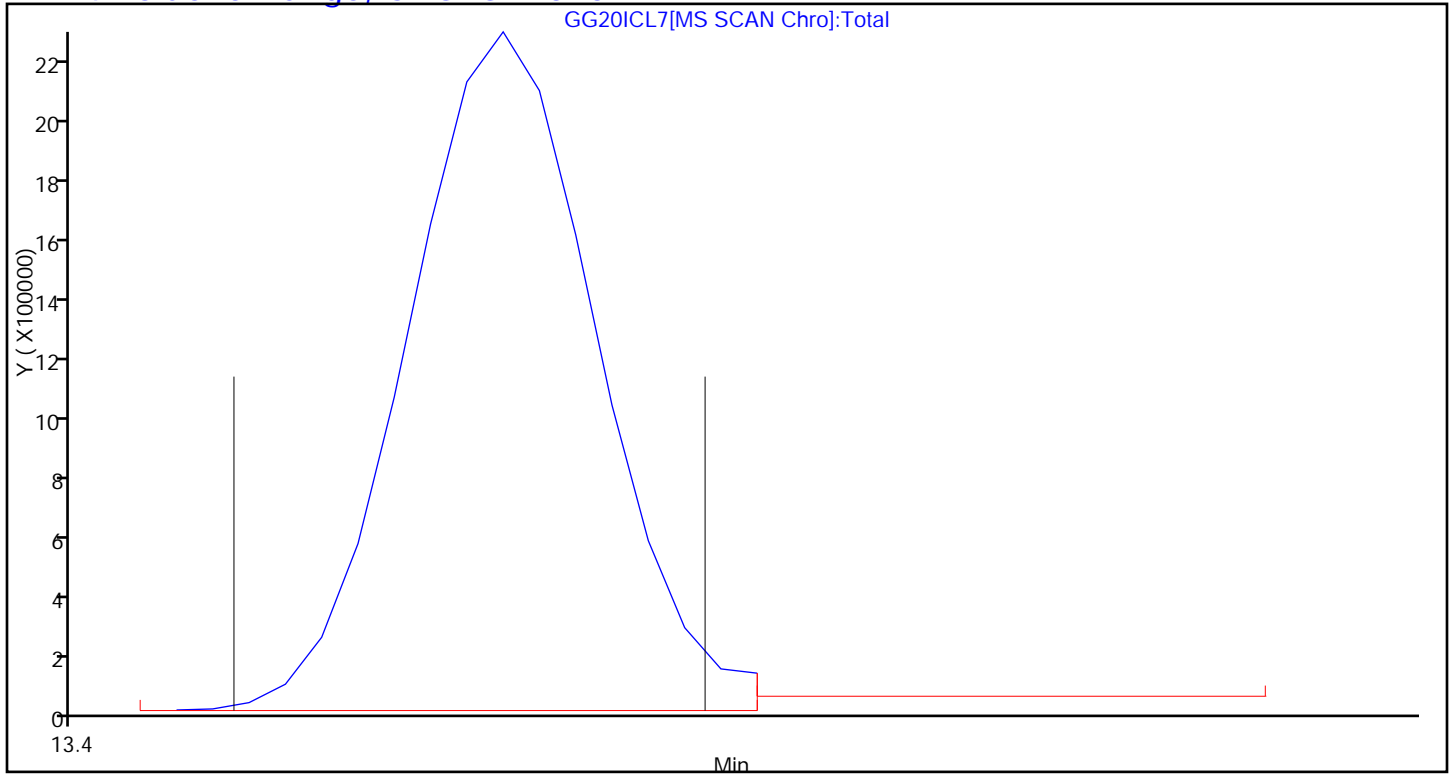
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL7.D

Injection Date: 20-Jul-2016 18:53:30

Instrument ID: MG

Lims ID: IC L7

Client ID:

Operator ID: 403648

ALS Bottle#: 12

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

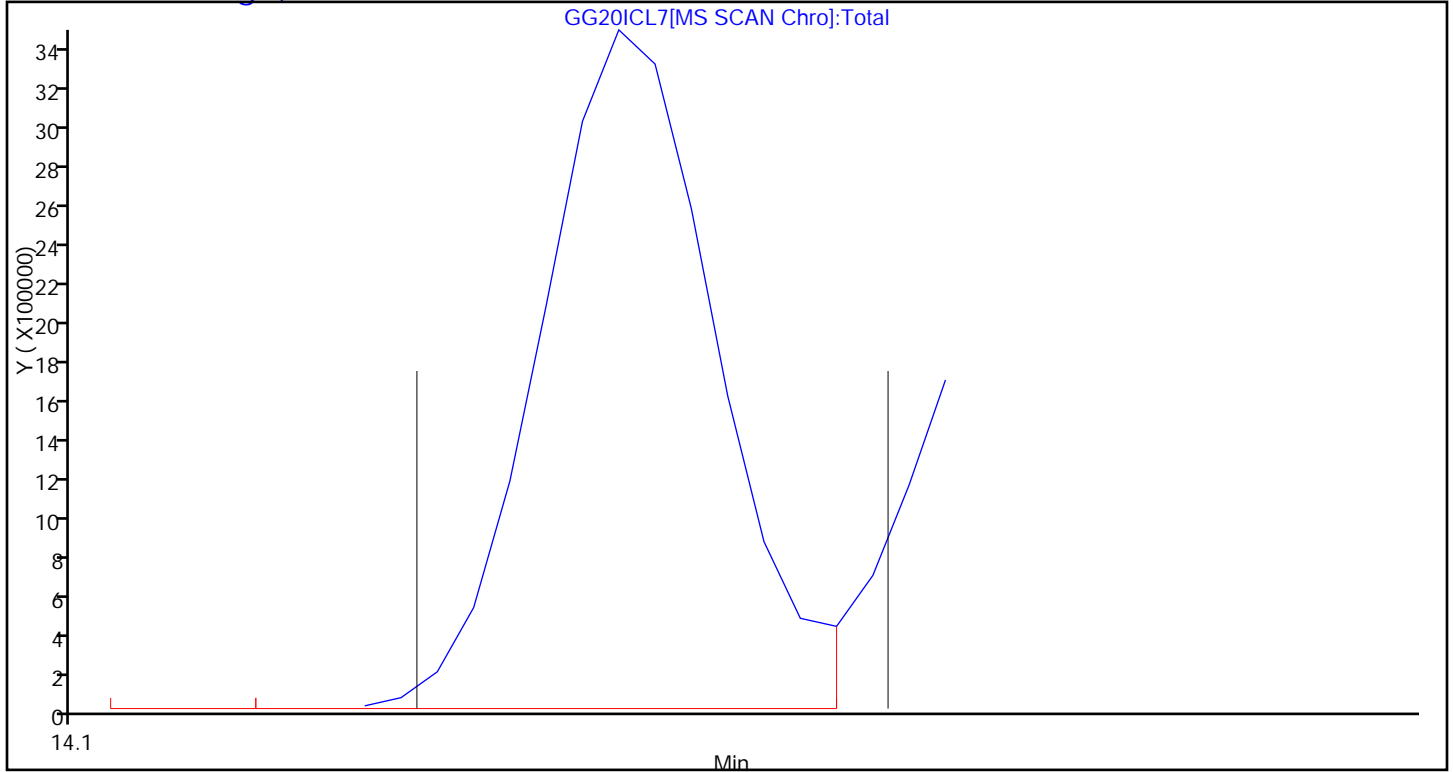
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



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	6.103	6.097	0.006	96	1127926	8.00	7.30	
33 Carbon disulfide	76	6.233	6.231	0.002	100	2790120	8.00	8.13	
34 trans-1,2-Dichloroethene	96	6.853	6.847	0.006	97	986464	8.00	7.73	
35 2-Methylpentane	43	6.874	6.874	0.000	96	2482383	8.00	7.56	
36 Methyl tert-butyl ether	73	6.961	6.967	-0.006	97	2584305	8.00	7.66	
37 1,1-Dichloroethane	63	7.247	7.243	0.004	100	1957183	8.00	7.53	
38 Vinyl acetate	43	7.349	7.349	0.000	100	3094950	8.00	8.11	
39 2-Butanone (MEK)	72	7.764	7.765	-0.001	98	439503	8.00	7.55	
40 Hexane	56	7.813	7.810	0.003	91	856144	8.00	7.45	
41 Isopropyl ether	45	7.958	7.959	-0.001	97	3746031	8.00	7.49	
42 cis-1,2-Dichloroethene	96	8.196	8.188	0.008	96	1035396	8.00	7.70	
43 Ethyl acetate	43	8.368	8.372	-0.004	97	2471172	8.00	7.87	
44 Chloroform	83	8.530	8.521	0.009	96	2188702	8.00	7.53	
45 Tert-butyl ethyl ether	59	8.611	8.612	-0.001	97	3086444	8.00	7.77	
46 Tetrahydrofuran	42	8.891	8.898	-0.007	93	1275131	8.00	7.52	
47 1,1,1-Trichloroethane	97	9.522	9.518	0.004	95	2461478	8.00	7.68	
48 1,2-Dichloroethane	62	9.619	9.613	0.006	97	1583306	8.00	7.66	
51 n-Butanol	31	10.094	10.104	-0.010	92	406109	8.00	6.60	
49 Benzene	78	10.115	10.112	0.003	97	2838374	8.00	7.42	
50 Cyclohexane	69	10.115	10.116	-0.001	77	475270	8.00	7.26	
52 Carbon tetrachloride	117	10.142	10.140	0.002	96	2547091	8.00	8.46	
53 2,3-Dimethylpentane	71	10.255	10.251	0.004	91	686138	8.00	7.58	
54 Thiophene	84	10.390	10.384	0.006	97	1682868	8.00	7.60	
55 Tert-amyl methyl ether	73	10.601	10.600	0.001	95	2687722	8.00	7.64	
56 Isooctane	57	10.903	10.901	0.002	97	5244819	8.00	7.28	
57 n-Heptane	71	11.291	11.285	0.006	95	1066635	8.00	7.40	
58 1,2-Dichloropropane	63	11.339	11.337	0.002	90	1138252	8.00	7.35	
59 Trichloroethene	130	11.388	11.383	0.005	96	1429915	8.00	7.42	
60 Dibromomethane	93	11.458	11.454	0.004	91	1214275	8.00	7.37	
61 Dichlorobromomethane	83	11.614	11.608	0.006	99	2366858	8.00	7.97	
62 1,4-Dioxane	88	11.620	11.625	-0.005	98	409399	8.00	7.54	
63 Methyl methacrylate	41	11.722	11.721	0.001	94	1605533	8.00	7.60	
64 Methylcyclohexane	83	12.170	12.165	0.005	91	2217029	8.00	7.50	
65 4-Methyl-2-pentanone (MIBK)	43	12.574	12.574	0.000	99	2611294	8.00	7.88	
66 cis-1,3-Dichloropropene	75	12.628	12.626	0.002	98	1782292	8.00	7.91	
67 trans-1,3-Dichloropropene	75	13.335	13.329	0.005	96	1677211	8.00	8.16	
68 Toluene	91	13.459	13.456	0.003	93	3384555	8.00	7.68	
69 1,1,2-Trichloroethane	83	13.529	13.524	0.005	99	983320	8.00	7.63	
70 2-Methylthiophene	97	13.610	13.606	0.004	98	2927517	8.00	7.97	
71 3-Methylthiophene	97	13.814	13.811	0.003	100	2892255	8.00	8.04	
72 2-Hexanone	58	13.928	13.929	-0.001	91	1126926	8.00	7.88	
73 n-Octane	85	14.181	14.176	0.005	96	1142582	8.00	7.32	
74 Chlorodibromomethane	129	14.235	14.231	0.004	98	2425380	8.00	8.79	
75 Ethylene Dibromide	107	14.521	14.518	0.003	98	1992293	8.00	8.23	
76 Tetrachloroethene	129	14.613	14.610	0.002	95	1343401	8.00	7.63	
77 Chlorobenzene	112	15.491	15.489	0.002	93	2747935	8.00	7.84	
78 2,3-Dimethylheptane	43	15.540	15.537	0.003	95	3710240	8.00	7.12	
79 Ethylbenzene	91	15.793	15.787	0.006	99	4557088	8.00	7.80	
80 2-Ethylthiophene	97	15.890	15.888	0.002	99	3614530	8.00	7.92	
81 m-Xylene & p-Xylene	91	15.955	15.953	0.002	100	6929038	16.0	15.3	
83 Bromoform	173	16.387	16.385	0.002	98	2910893	8.00	9.68	
82 n-Nonane	57	16.403	16.399	0.004	93	2210826	8.00	7.02	

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	16.424	16.421	0.003	99	2471335	8.00	8.27	
85 o-Xylene	91	16.484	16.481	0.003	99	3657474	8.00	7.54	
86 1,1,2,2-Tetrachloroethane	83	16.807	16.800	0.007	100	2517756	8.00	7.63	
87 1,2,3-Trichloropropane	110	16.964	16.957	0.007	96	797241	8.00	7.77	
88 Isopropylbenzene	105	17.077	17.074	0.003	96	5089295	8.00	7.52	
89 N-Propylbenzene	120	17.632	17.626	0.006	99	1371697	8.00	7.75	
90 2-Chlorotoluene	126	17.670	17.664	0.006	97	1286773	8.00	7.81	
91 4-Ethyltoluene	105	17.789	17.783	0.006	99	5107728	8.00	7.89	
92 1,3,5-Trimethylbenzene	120	17.864	17.862	0.002	92	2324615	8.00	7.53	
93 Alpha Methyl Styrene	118	18.101	18.096	0.005	88	2122184	8.00	8.78	
94 n-Decane	57	18.177	18.175	0.002	89	2770165	8.00	7.18	
95 tert-Butylbenzene	119	18.295	18.293	0.002	94	4534578	8.00	7.56	
96 1,2,4-Trimethylbenzene	105	18.312	18.309	0.003	96	4339254	8.00	7.65	
97 sec-Butylbenzene	105	18.576	18.569	0.007	98	6205351	8.00	7.56	
98 1,3-Dichlorobenzene	146	18.576	18.576	0.000	95	3115909	8.00	8.48	
99 Benzyl chloride	91	18.657	18.654	0.003	98	3818134	8.00	8.76	
100 1,4-Dichlorobenzene	146	18.668	18.666	0.002	95	2995986	8.00	8.53	
101 4-Isopropyltoluene	119	18.743	18.738	0.005	97	5149340	8.00	7.63	
102 1,2,3-Trimethylbenzene	105	18.792	18.785	0.007	99	3334853	8.00	7.56	
103 Butylcyclohexane	83	18.851	18.850	0.001	90	3094954	8.00	7.14	
104 1,2-Dichlorobenzene	146	19.034	19.031	0.003	95	2940684	8.00	8.22	
105 2,3-Dihydroindene	117	19.034	19.031	0.003	94	3935778	8.00	7.79	
106 Indene	116	19.164	19.164	0.000	91	2991580	8.00	8.39	
107 n-Butylbenzene	91	19.180	19.180	0.000	98	4612993	8.00	7.62	
108 Undecane	57	19.514	19.511	0.003	95	2951690	8.00	7.25	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.557	19.555	0.002	98	3737734	8.00	7.74	
110 1,2-Dibromo-3-Chloropropan	157	19.638	19.637	0.001	96	1368982	8.00	9.94	
111 1,2,4,5-Tetramethylbenzene	119	19.946	19.945	0.001	98	4514417	8.00	7.71	
112 1,2,3,5-Tetramethylbenzene	119	19.999	19.999	0.000	95	2730948	8.00	7.60	
113 1,2,3,4-Tetramethylbenzene	119	20.393	20.394	-0.001	98	3623503	8.00	7.55	
114 Dodecane	57	20.576	20.573	0.003	93	1892159	8.00	5.72	
115 1,2,4-Trichlorobenzene	180	20.744	20.742	0.002	93	2193038	8.00	11.0	
116 Naphthalene	128	20.873	20.874	-0.001	99	4267074	8.00	9.04	
117 Benzo(b)thiophene	134	20.975	20.975	0.000	99	2279072	8.00	9.21	
118 Hexachlorobutadiene	225	21.094	21.095	-0.001	92	3039984	8.00	8.30	
119 1,2,3-Trichlorobenzene	180	21.153	21.151	0.002	96	1944963	8.00	8.61	
120 2-Methylnaphthalene	142	21.935	21.937	-0.002	99	737024	25.0	16.8	
121 1-Methylnaphthalene	142	22.113	22.113	0.000	99	584180	25.0	13.4	
A 124 Toluene Range	1	13.454	(13.419-13.489)		0	8413253	8.00	7.86	
A 125 C8 Range	1	14.175	(14.151-14.221)		0	11755297	8.00	7.46	
S 126 Xylenes, Total	100				0		24.0	22.9	
S 127 1,2-Dichloroethene, Total	1				0		16.0	15.4	

Reagents:

40L8DNP_00005

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL8.D

Injection Date: 20-Jul-2016 19:37:30

Instrument ID: MG

Operator ID: 403648

Lims ID: IC L8

Worklist Smp#: 9

Client ID:

Purge Vol: 500.000 mL

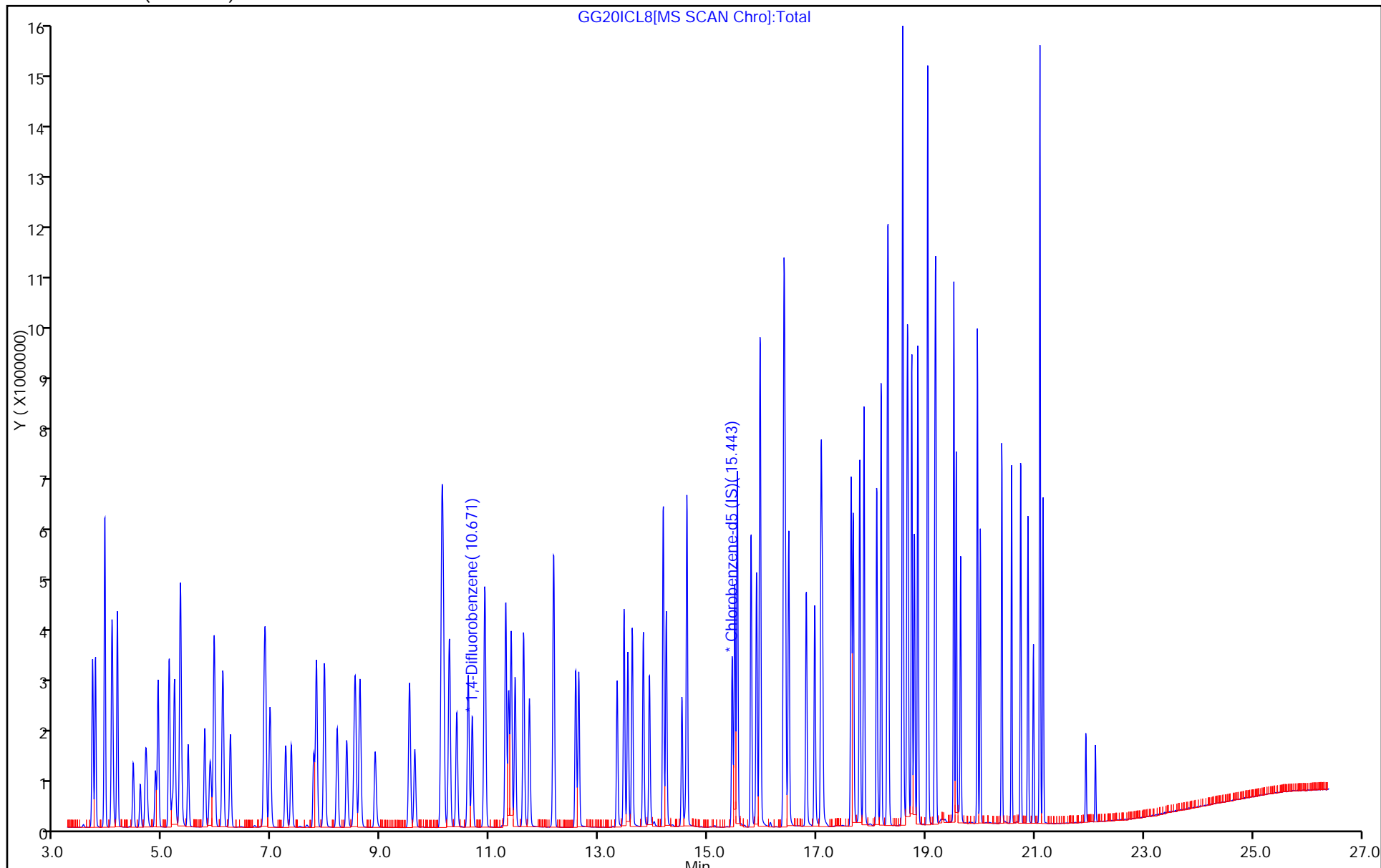
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL8.D

Injection Date: 20-Jul-2016 19:37:30

Instrument ID: MG

Lims ID: IC L8

Client ID:

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

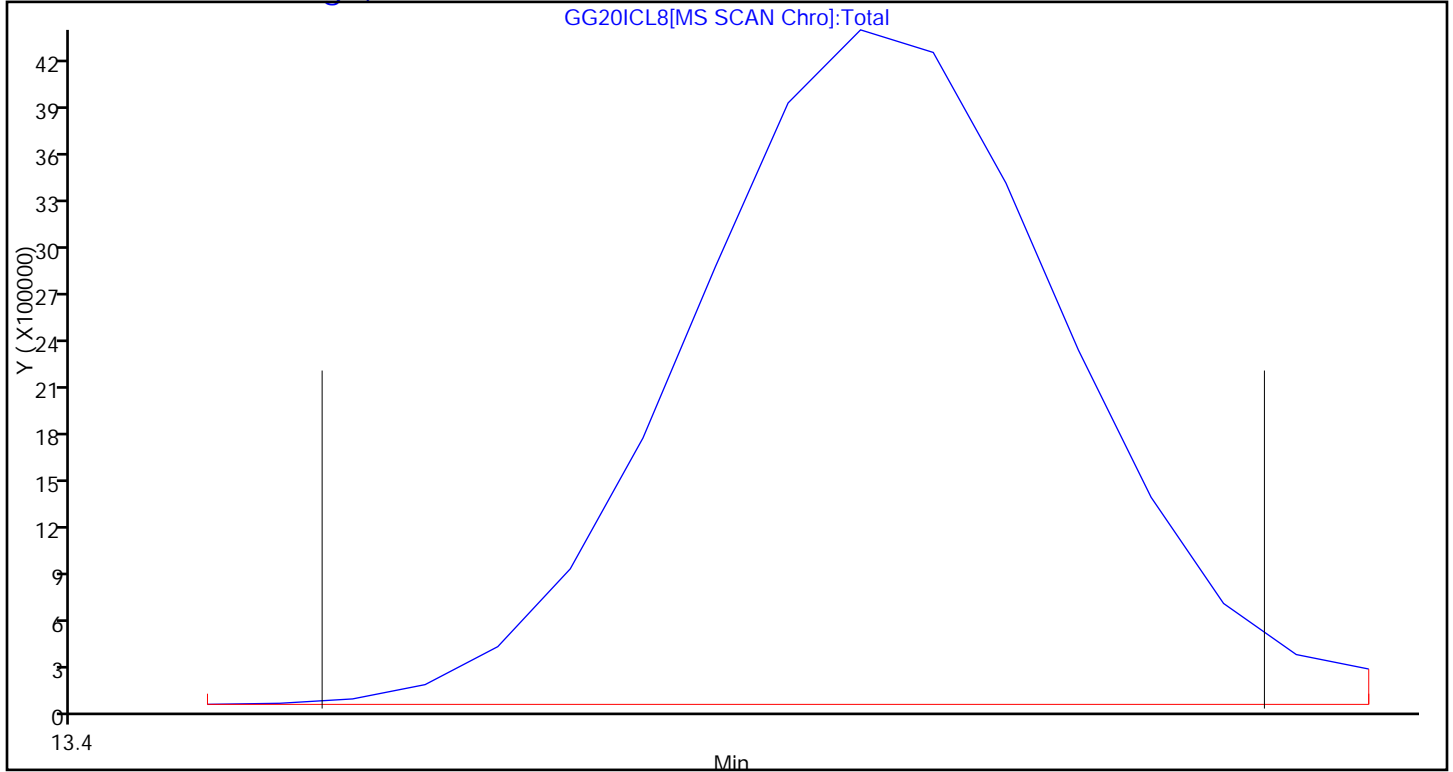
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL8.D

Injection Date: 20-Jul-2016 19:37:30

Instrument ID: MG

Lims ID: IC L8

Client ID:

Operator ID: 403648

ALS Bottle#: 13

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

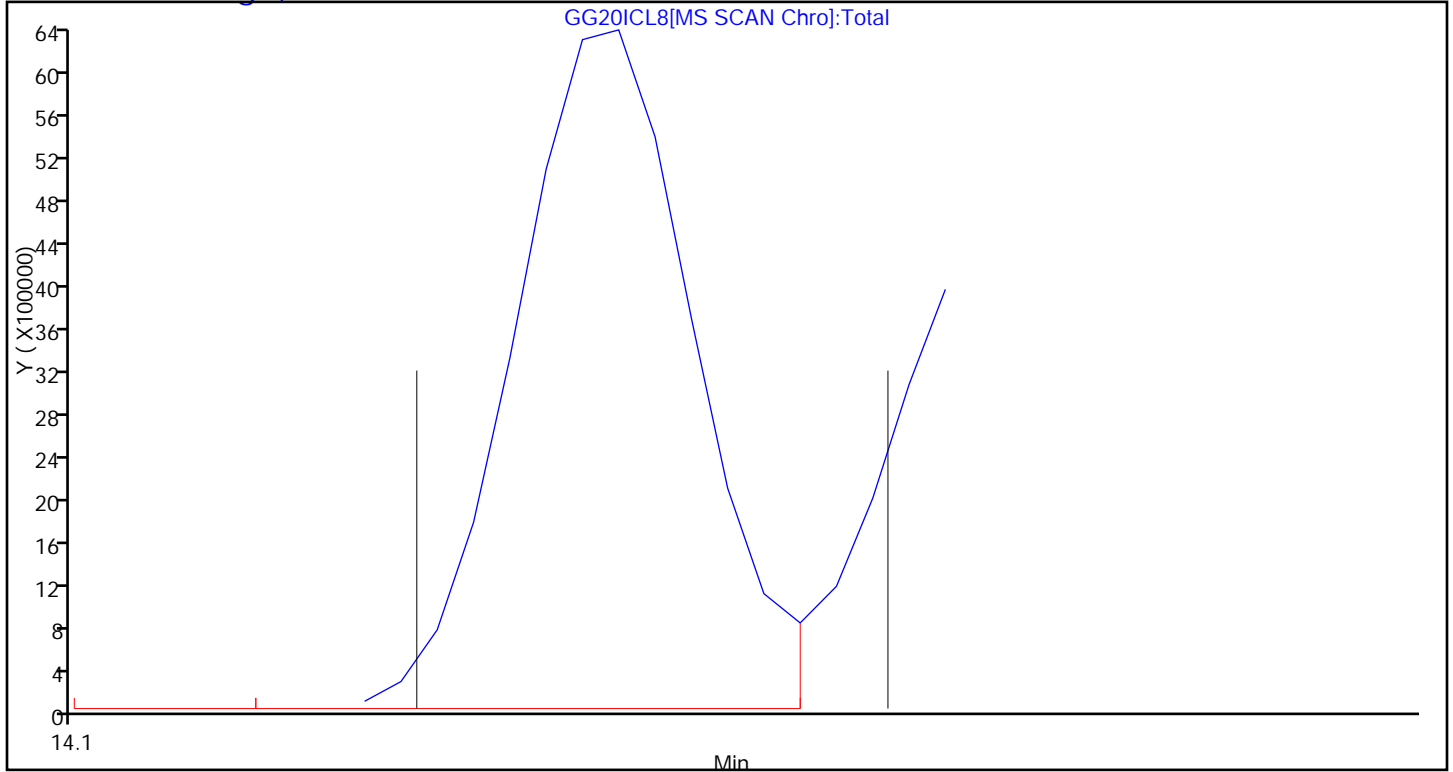
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Lims ID: IC L9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 20-Jul-2016 20:22:30 ALS Bottle#: 14 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044589
 Misc. Info.: 140-0003204-010
 Operator ID: 403648 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Jul-2016 15:57:31 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: tajh

Date: 21-Jul-2016 08:56:42

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	8.514	8.501	0.013	98	467691	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.681	10.669	0.012	95	2355630	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.448	15.441	0.007	87	2237237	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.104	17.096	0.008	96	1590043	4.00	4.07	
6 Chlorodifluoromethane	67	3.698	3.701	-0.003	97	572180	16.0	14.7	
7 Propene	41	3.709	3.710	-0.001	98	2080056	16.0	12.5	
8 Dichlorodifluoromethane	85	3.758	3.758	0.000	100	5678698	16.0	14.1	
9 Chloromethane	52	3.919	3.922	-0.003	98	609751	16.0	13.4	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.932	-0.002	89	3796193	16.0	15.0	
11 Acetaldehyde	44	4.060	4.060	0.000	92	4020202	80.0	53.4	
12 Vinyl chloride	62	4.081	4.080	0.001	99	1982700	16.0	13.5	
13 Butadiene	54	4.162	4.160	0.002	67	1631451	16.0	13.5	
14 Butane	43	4.162	4.161	0.001	85	3412597	16.0	13.0	
15 Bromomethane	94	4.453	4.450	0.003	97	1776563	16.0	14.2	
16 Chloroethane	64	4.583	4.580	0.003	96	1017022	16.0	14.3	
17 Ethanol	31	4.690	4.674	0.016	97	4595132	80.0	68.5	
18 Vinyl bromide	106	4.858	4.856	0.002	98	1745819	16.0	14.5	
19 2-Methylbutane	43	4.906	4.907	-0.001	91	2358887	16.0	13.4	
21 Acrolein	56	5.106	5.107	-0.001	32	468106	16.0	15.5	
20 Trichlorofluoromethane	101	5.111	5.108	0.003	99	5510367	16.0	14.6	
22 Acetonitrile	40	5.176	5.168	0.008	97	838856	16.0	14.0	
23 Acetone	58	5.214	5.209	0.005	99	2393008	48.0	36.8	
25 Isopropyl alcohol	45	5.332	5.304	0.028	96	8606848	48.0	41.4	
24 Pentane	72	5.316	5.314	0.002	95	302707	16.0	13.8	
26 Ethyl ether	31	5.462	5.462	0.000	90	2208901	16.0	14.8	
27 1,1-Dichloroethene	96	5.769	5.761	0.008	96	1645708	16.0	14.4	
28 Acrylonitrile	53	5.855	5.849	0.006	93	1127607	16.0	14.7	
29 2-Methyl-2-propanol	59	5.882	5.860	0.022	95	3092811	16.0	15.1	
30 1,1,2-Trichloro-1,2,2-trif	101	5.936	5.934	0.002	91	3491297	16.0	15.1	
31 Methylene Chloride	84	6.087	6.083	0.004	96	1580832	16.0	13.9	

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	6.103	6.097	0.006	96	2089875	16.0	12.6	
33 Carbon disulfide	76	6.233	6.231	0.002	100	5484341	16.0	14.9	
34 trans-1,2-Dichloroethene	96	6.853	6.847	0.006	97	2030259	16.0	14.8	
35 2-Methylpentane	43	6.880	6.874	0.006	95	4941904	16.0	14.0	
36 Methyl tert-butyl ether	73	6.961	6.967	-0.006	97	5982006	16.0	16.5	
37 1,1-Dichloroethane	63	7.252	7.243	0.009	100	4210745	16.0	15.1	
38 Vinyl acetate	43	7.354	7.349	0.005	100	6712117	16.0	16.4	
39 2-Butanone (MEK)	72	7.770	7.765	0.005	98	1025422	16.0	16.5	
40 Hexane	56	7.813	7.810	0.003	92	1774228	16.0	14.4	
41 Isopropyl ether	45	7.964	7.959	0.005	97	8501575	16.0	15.8	
42 cis-1,2-Dichloroethene	96	8.201	8.188	0.013	96	2225389	16.0	15.4	
43 Ethyl acetate	43	8.373	8.372	0.001	97	5797784	16.0	17.2	
44 Chloroform	83	8.535	8.521	0.014	96	4742496	16.0	15.2	
45 Tert-butyl ethyl ether	59	8.616	8.612	0.004	97	7089983	16.0	16.6	
46 Tetrahydrofuran	42	8.891	8.898	-0.007	93	2965552	16.0	16.3	
47 1,1,1-Trichloroethane	97	9.527	9.518	0.009	95	5347673	16.0	15.5	
48 1,2-Dichloroethane	62	9.624	9.613	0.011	98	3499068	16.0	15.0	
51 n-Butanol	31	10.099	10.104	-0.005	93	991421	16.0	14.2	
49 Benzene	78	10.121	10.112	0.009	98	5775788	16.0	13.4	
50 Cyclohexane	69	10.121	10.116	0.005	77	939796	16.0	12.7	
52 Carbon tetrachloride	117	10.148	10.140	0.008	97	5501066	16.0	16.1	
53 2,3-Dimethylpentane	71	10.255	10.251	0.004	91	1444072	16.0	14.1	
54 Thiophene	84	10.396	10.384	0.012	97	3601663	16.0	14.4	
55 Tert-amyl methyl ether	73	10.606	10.600	0.006	95	6223941	16.0	15.6	
56 Isooctane	57	10.908	10.901	0.007	97	10887075	16.0	13.4	
57 n-Heptane	71	11.296	11.285	0.011	95	2221989	16.0	13.6	
58 1,2-Dichloropropane	63	11.345	11.337	0.008	89	2472759	16.0	14.1	
59 Trichloroethene	130	11.393	11.383	0.010	97	3113764	16.0	14.3	
60 Dibromomethane	93	11.463	11.454	0.009	88	2615273	16.0	14.0	
61 Dichlorobromomethane	83	11.620	11.608	0.012	99	5083580	16.0	15.1	
62 1,4-Dioxane	88	11.630	11.625	0.005	97	908509	16.0	14.8	
63 Methyl methacrylate	41	11.728	11.721	0.007	94	3739985	16.0	15.6	
64 Methylcyclohexane	83	12.170	12.165	0.005	91	4625071	16.0	13.8	
65 4-Methyl-2-pentanone (MIBK)	43	12.579	12.574	0.005	99	5915451	16.0	15.8	
66 cis-1,3-Dichloropropene	75	12.633	12.626	0.007	98	3905805	16.0	15.3	
67 trans-1,3-Dichloropropene	75	13.340	13.329	0.011	98	3770631	16.0	16.5	
68 Toluene	91	13.464	13.456	0.008	93	7519659	16.0	15.4	
69 1,1,2-Trichloroethane	83	13.534	13.524	0.010	99	2170821	16.0	15.2	
70 2-Methylthiophene	97	13.615	13.606	0.009	98	6490287	16.0	15.9	
71 3-Methylthiophene	97	13.820	13.811	0.009	100	6413165	16.0	16.1	
72 2-Hexanone	58	13.933	13.929	0.004	91	2641649	16.0	16.6	
73 n-Octane	85	14.181	14.176	0.005	95	2413902	16.0	13.9	
74 Chlorodibromomethane	129	14.240	14.231	0.009	98	5451229	16.0	17.8	
75 Ethylene Dibromide	107	14.526	14.518	0.008	98	4493523	16.0	16.7	
76 Tetrachloroethene	129	14.618	14.610	0.008	95	3002504	16.0	15.4	
77 Chlorobenzene	112	15.497	15.489	0.008	94	6171401	16.0	15.9	
78 2,3-Dimethylheptane	43	15.545	15.537	0.008	96	7419854	16.0	12.8	
79 Ethylbenzene	91	15.793	15.787	0.006	98	10294945	16.0	15.9	
80 2-Ethylthiophene	97	15.896	15.888	0.008	98	8300460	16.0	16.4	
81 m-Xylene & p-Xylene	91	15.961	15.953	0.007	99	15838618	32.0	31.6	
83 Bromoform	173	16.392	16.385	0.007	98	7524757	16.0	22.5	
82 n-Nonane	57	16.403	16.399	0.004	91	4321223	16.0	12.4	

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	16.430	16.421	0.009	99	5746685	16.0	17.3	
85 o-Xylene	91	16.489	16.481	0.008	98	8305827	16.0	15.4	
86 1,1,2,2-Tetrachloroethane	83	16.807	16.800	0.007	100	5541318	16.0	15.1	
87 1,2,3-Trichloropropane	110	16.969	16.957	0.012	95	1881891	16.0	16.5	
88 Isopropylbenzene	105	17.082	17.074	0.008	96	11832651	16.0	15.8	
89 N-Propylbenzene	120	17.632	17.626	0.006	99	3246664	16.0	16.5	
90 2-Chlorotoluene	126	17.670	17.664	0.006	97	2989697	16.0	16.4	
91 4-Ethyltoluene	105	17.789	17.783	0.006	99	12071934	16.0	16.8	
92 1,3,5-Trimethylbenzene	120	17.869	17.862	0.007	93	5623085	16.0	16.4	
93 Alpha Methyl Styrene	118	18.101	18.096	0.005	89	5105195	16.0	19.0	
94 n-Decane	57	18.182	18.175	0.007	92	5961718	16.0	13.9	
95 tert-Butylbenzene	119	18.301	18.293	0.008	95	11183849	16.0	16.8	
96 1,2,4-Trimethylbenzene	105	18.317	18.309	0.008	96	10349390	16.0	16.5	
97 sec-Butylbenzene	105	18.576	18.569	0.007	98	14230127	16.0	15.6	e
98 1,3-Dichlorobenzene	146	18.581	18.576	0.005	92	8479970	16.0	20.8	
99 Benzyl chloride	91	18.662	18.654	0.008	99	9337492	16.0	19.3	
100 1,4-Dichlorobenzene	146	18.673	18.666	0.007	96	7649318	16.0	19.6	
101 4-Isopropyltoluene	119	18.748	18.738	0.010	97	12528309	16.0	16.7	
102 1,2,3-Trimethylbenzene	105	18.792	18.785	0.007	98	7917381	16.0	16.2	
103 Butylcyclohexane	83	18.856	18.850	0.006	92	6839303	16.0	14.2	
104 1,2-Dichlorobenzene	146	19.040	19.031	0.009	98	8043047	16.0	20.3	
105 2,3-Dihydroindene	117	19.040	19.031	0.009	94	9954063	16.0	17.8	
106 Indene	116	19.169	19.164	0.005	92	7455713	16.0	18.8	
107 n-Butylbenzene	91	19.185	19.180	0.005	97	10873634	16.0	16.2	
108 Undecane	57	19.519	19.511	0.008	95	6514704	16.0	14.4	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.563	19.555	0.008	98	9318425	16.0	17.4	
110 1,2-Dibromo-3-Chloropropan	157	19.644	19.637	0.007	94	3718900	16.0	24.3	
111 1,2,4,5-Tetramethylbenzene	119	19.951	19.945	0.006	98	11241452	16.0	17.3	e
112 1,2,3,5-Tetramethylbenzene	119	20.005	19.999	0.006	96	6768797	16.0	17.0	
113 1,2,3,4-Tetramethylbenzene	119	20.398	20.394	0.004	98	9217215	16.0	17.3	
114 Dodecane	57	20.576	20.573	0.003	95	5728932	16.0	15.6	
115 1,2,4-Trichlorobenzene	180	20.744	20.742	0.002	92	6834039	16.0	30.8	
116 Naphthalene	128	20.878	20.874	0.004	99	11312702	16.0	21.6	
117 Benzo(b)thiophene	134	20.975	20.975	0.000	99	6418518	16.0	23.4	
118 Hexachlorobutadiene	225	21.099	21.095	0.004	90	9541683	16.0	23.5	
119 1,2,3-Trichlorobenzene	180	21.153	21.151	0.002	95	6282415	16.0	25.1	
120 2-Methylnaphthalene	142	21.941	21.937	0.004	98	3876064	50.0	79.8	
121 1-Methylnaphthalene	142	22.113	22.113	0.000	98	3041176	50.0	62.9	
A 124 Toluene Range	1	13.459	(13.424-13.494)		0	18742881	16.0	15.5	
A 125 C8 Range	1	14.177	(14.151-14.221)		0	24368798	16.0	13.7	
S 126 Xylenes, Total	100				0		48.0	47.0	
S 127 1,2-Dichloroethene, Total	1				0		32.0	30.2	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Reagents:

40L9DNP_00007

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D

Injection Date: 20-Jul-2016 20:22:30

Instrument ID: MG

Operator ID: 403648

Lims ID: IC L9

Worklist Smp#: 10

Client ID:

Purge Vol: 500.000 mL

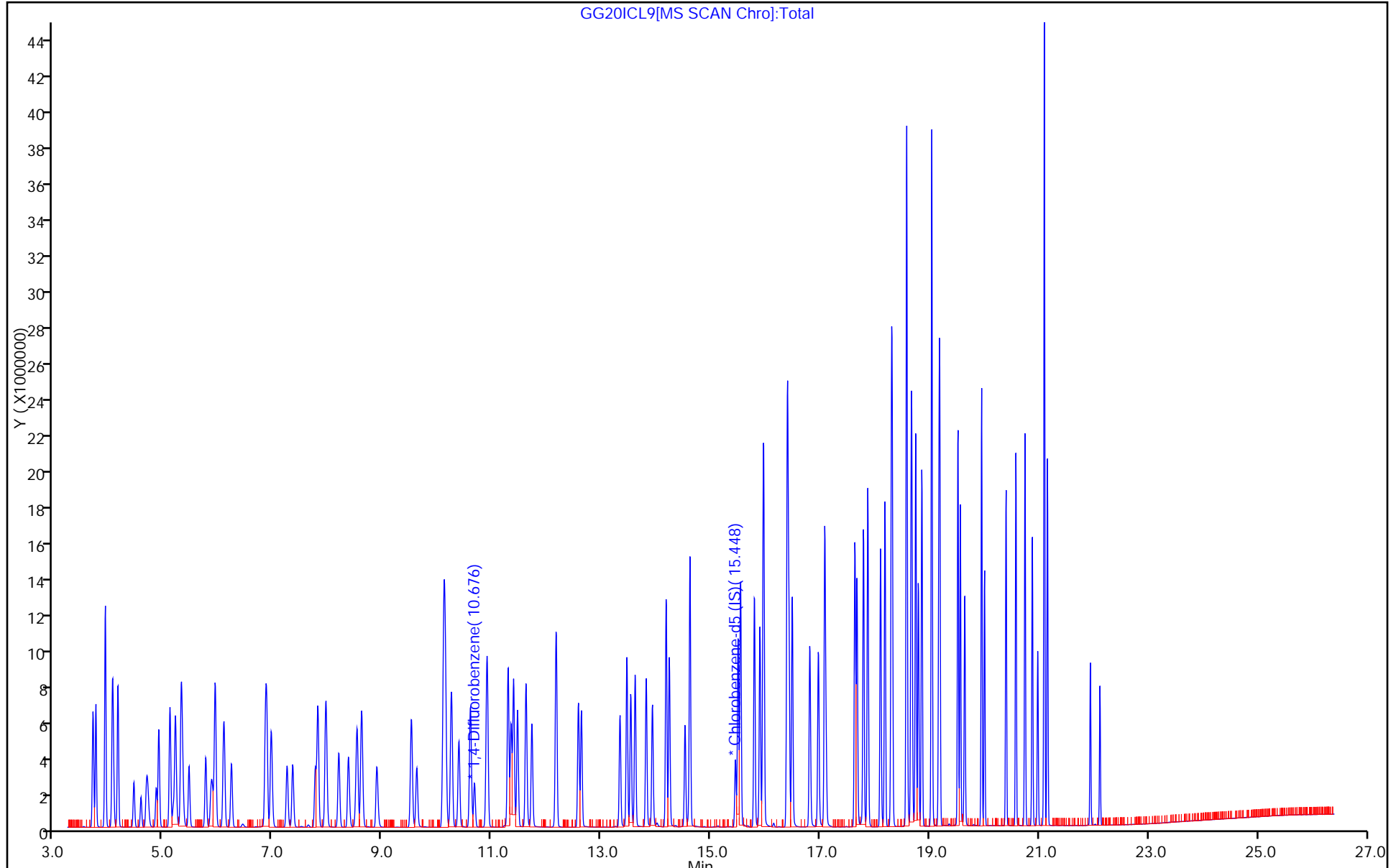
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D

Injection Date: 20-Jul-2016 20:22:30

Instrument ID: MG

Lims ID: IC L9

Client ID:

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

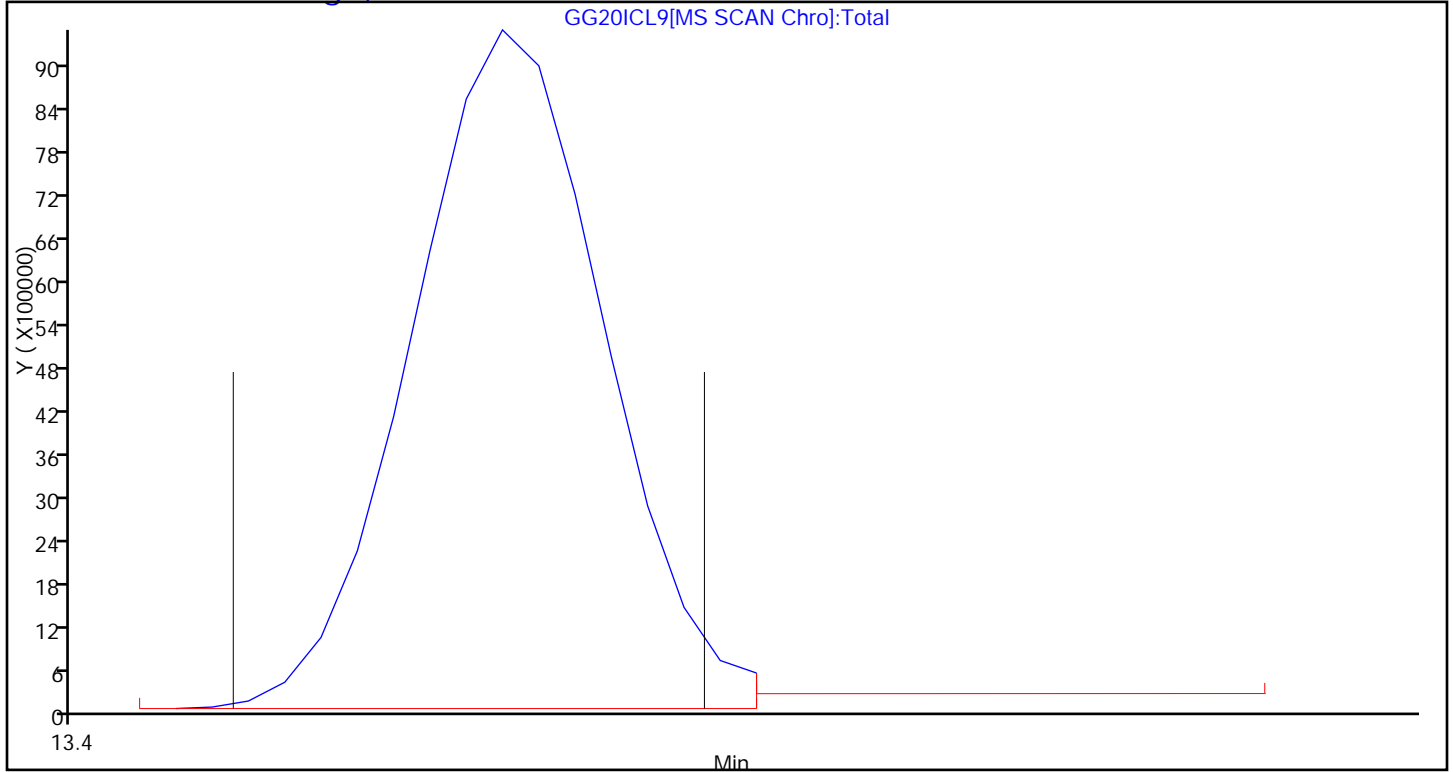
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D

Injection Date: 20-Jul-2016 20:22:30

Instrument ID: MG

Lims ID: IC L9

Client ID:

Operator ID: 403648

ALS Bottle#: 14

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

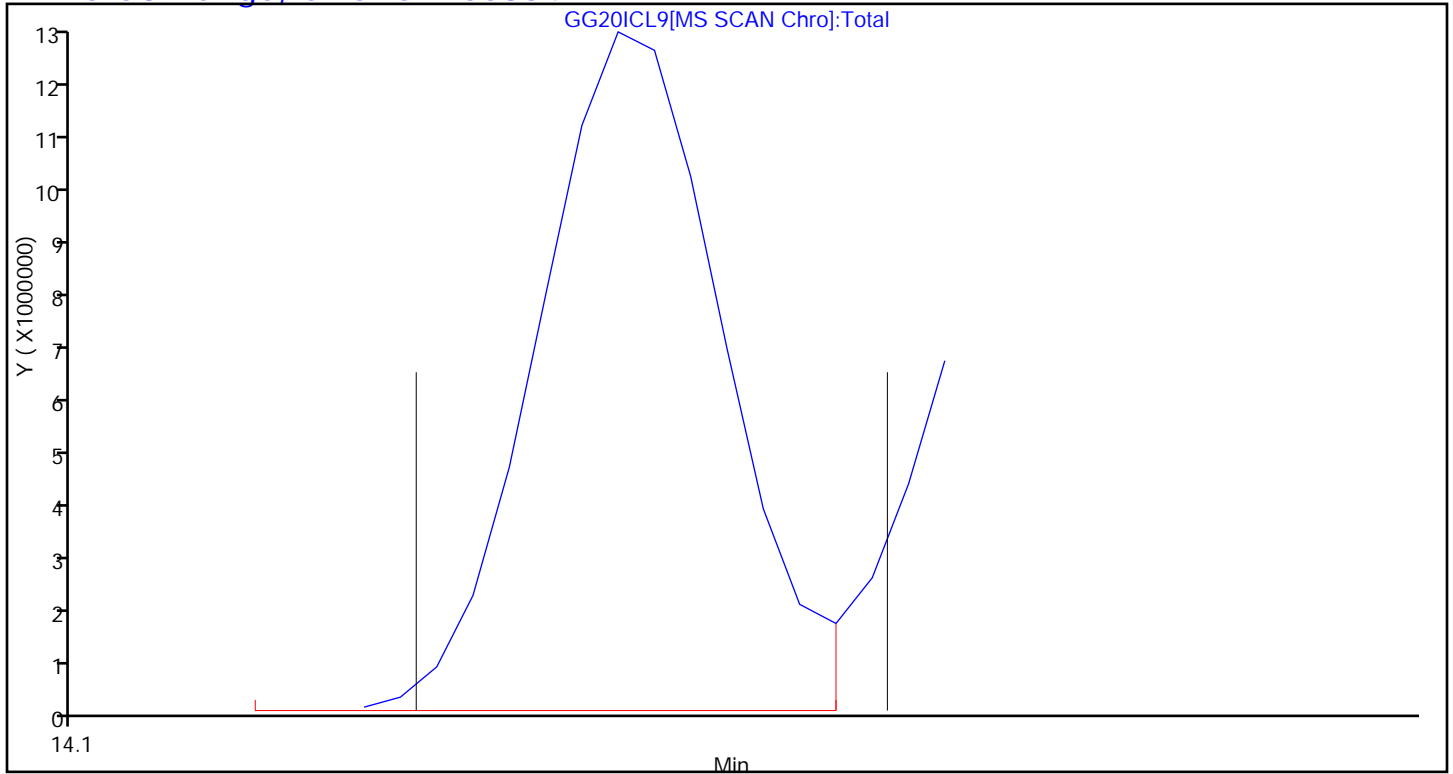
Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1 Analy Batch No.: 5523

SDG No.: _____

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

Calibration Start Date: 06/22/2016 15:49 Calibration End Date: 06/22/2016 23:00 Calibration ID: 642

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-5523/2	JF22IC01.D
Level 2	IC 140-5523/3	JF22IC02.D
Level 3	IC 140-5523/4	JF22IC03.D
Level 4	IC 140-5523/5	JF22IC04.D
Level 5	IC 140-5523/6	JF22IC05.D
Level 6	ICIS 140-5523/7	JF22IC06.D
Level 7	IC 140-5523/8	JF22IC07.D
Level 8	IC 140-5523/9	JF22IC08.D
Level 9	IC 140-5523/10	JF22IC09.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	++++ 0.5042	0.5590 0.4610	0.5175 0.4813	0.4967 0.4379	0.5141	Ave	0.4965				7.5		30.0				
Propene	++++ 1.1654	++++ 1.0702	1.3313 1.0844	1.2623 0.8964	1.2696	Ave	1.1542				13.0		30.0				
Dichlorodifluoromethane	++++ 4.4166	4.8390 4.2049	4.6794 4.1701	4.5997 3.4026	4.8596	Ave	4.3965				10.9		30.0				
Chloromethane	++++ 0.3110	++++ 0.2838	0.3981 0.2566	0.3567 0.2332	0.3351	Ave	0.3106				18.6		30.0				
1,2-Dichlorotetrafluoroethane	++++ 2.5211	2.7057 2.3404	2.5717 2.3442	2.5081 1.8650	2.6621	Ave	2.4398				10.9		30.0				
Acetaldehyde	++++ 0.2760	++++ 0.2256	++++ 0.2022	0.3974 0.2058	0.3104	Ave	0.2696				28.1		30.0				
Vinyl chloride	1.3247 1.0033	1.1693 0.9547	1.1093 0.8894	1.1001 0.8297	1.0972	Ave	1.0531				14.4		30.0				
1,3-Butadiene	++++ 0.7042	++++ 0.6593	0.7516 0.6084	0.7719 0.5749	0.7683	Ave	0.6912				11.5		30.0				
Butane	++++ 1.1108	++++ 1.0854	1.3903 0.9510	1.3397 0.8927	1.2784	Ave	1.1498				16.7		30.0				
Bromomethane	++++ 0.9572	1.2135 0.9001	1.0838 0.8839	1.0122 0.8550	1.0221	Ave	0.9910				12.0		30.0				
Chloroethane	++++ 0.3713	0.4395 0.3551	0.4065 0.3441	0.3781 0.3371	0.3895	Ave	0.3777				9.0		30.0				
Ethanol	++++ 0.1580	++++ 0.1433	0.1952 0.1267	0.1606 0.1294	0.1687	Ave	0.1546				15.5		30.0				
Vinyl bromide	++++ 1.2066	1.2166 1.1251	1.2066 1.1391	1.1666 1.0824	1.2299	Ave	1.1716				4.5		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.: 140-5852-1

Analy Batch No.: 5523

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2016 15:49

Calibration End Date: 06/22/2016 23:00

Calibration ID: 642

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	++++ 1.4563	++++ 1.3127	1.5024 1.2679	1.4848 1.0960	1.5352	Ave	1.3793				11.6		30.0				
Trichlorofluoromethane	++++ 4.2191	++++ 4.3771 3.8766	4.2739 3.8302	4.1645 3.4211	4.3784	Ave	4.0676				8.2		30.0				
Acrolein	++++ 0.3452	++++ 0.3014	0.4460 0.2782	0.3277 0.2999	0.3533	Ave	0.3360				16.5		30.0				
Acetonitrile	++++ 0.3905	++++ 0.3504	0.4332 0.3275	0.3310 0.3740	0.3713	Ave	0.3683				10.0		30.0				
Acetone	++++ 0.4995	++++ 0.3749	++++ 0.3337	0.6209 0.3831	0.5374	Ave	0.4583				24.4		30.0				
Isopropyl alcohol	++++ 1.6846	++++ 1.4120	1.7563 1.3941	1.5917 1.1233	1.7285	Ave	1.5272				15.0		30.0				
Pentane	++++ 0.1768	++++ 0.1611	0.1866 0.1627	0.1887 0.1441	0.1856	Ave	0.1722				9.7		30.0				
Ethyl ether	++++ 0.8543	++++ 0.7808	0.8344 0.6842	0.7323 0.7660	0.8240	Ave	0.7823				7.7		30.0				
1,1-Dichloroethene	++++ 1.2103	1.2889 1.1318	1.1478 1.1609	1.1752 1.1003	1.2527	Ave	1.1835				5.3		30.0				
t-Butyl alcohol	++++ 2.1544	2.3633 1.8642	2.1846 2.0640	2.0389 1.8350	2.1692	Ave	2.0842				8.4		30.0				
Acrylonitrile	++++ 0.7316	0.8425 0.6684	0.7037 0.6289	0.6206 0.7025	0.7106	Ave	0.7011				9.9		30.0				
1,1,2-Trichlorotrifluoroethane	++++ 2.8940	3.0400 2.6051	2.8530 2.5798	2.8273 2.3385	2.9837	Ave	2.7652				8.6		30.0				
Methylene Chloride	++++ 1.1059	++++ 0.9818	1.3956 0.9738	1.1804 0.9093	1.1484	Ave	1.0993				15.0		30.0				
3-Chloropropene	++++ 1.1096	1.3296 0.9480	1.0951 0.9570	1.0768 0.8054	1.1176	Ave	1.0549				14.7		30.0				
Carbon disulfide	++++ 3.4879	3.7064 3.1922	3.4140 3.2589	3.3188 2.9260	3.5637	Ave	3.3585				7.2		30.0				
trans-1,2-Dichloroethene	++++ 1.2345	1.2722 1.1378	1.2480 1.1094	1.1895 1.0359	1.2737	Ave	1.1876				7.3		30.0				
2-Methylpentane	++++ 2.5988	2.7409 2.2724	2.6201 2.1287	2.5383 1.7920	2.7029	Ave	2.4243				13.7		30.0				
Methyl tert-butyl ether	++++ 2.6733	++++ 2.4385	2.4636 2.2127	2.2707 2.4681	2.5559	Ave	2.4404				6.5		30.0				
1,1-Dichloroethane	++++ 2.5611	2.6814 2.2112	2.5084 2.1727	2.4933 2.1386	2.5672	Ave	2.4168				8.7		30.0				
Vinyl acetate	++++ 2.2123	++++ 2.0875	1.9035 1.8409	1.7361 2.1276	2.0974	Ave	2.0007				8.7		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.: 140-5852-1 Analy Batch No.: 5523
 SDG No.: _____
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/22/2016 15:49 Calibration End Date: 06/22/2016 23:00 Calibration ID: 642

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	++++ 0.3871	++++ 0.3312	0.5093 0.3229	0.3971 0.3467	0.3930	Ave		0.3839			16.4		30.0				
Hexane	++++ 1.1210	1.0912 0.9657	1.1007 0.9551	1.0917 0.8804	1.1344	Ave		1.0425			9.1		30.0				
Isopropyl ether	++++ 3.2904	3.6307 2.9115	3.0105 2.6766	2.8081 2.7075	3.1314	Ave		3.0208			10.7		30.0				
cis-1,2-Dichloroethene	++++ 1.2327	1.3301 1.0874	1.2146 1.0707	1.1880 1.1014	1.2398	Ave		1.1831			7.6		30.0				
Ethyl acetate	++++ 1.7615	1.5300 1.5655	1.5737 1.5009	1.5300 1.5623	1.7015	Ave		1.5994			6.0		30.0				
Chloroform	++++ 2.8139	2.9572 2.4353	2.8805 2.3198	2.7803 2.3852	2.8515	Ave		2.6780			9.5		30.0				
Tert-butyl ethyl ether	++++ 3.2339	3.5685 2.8582	2.9393 2.7149	2.6805 2.8523	3.0716	Ave		2.9899			9.9		30.0				
Tetrahydrofuran	++++ 0.9293	0.8424 0.8424	0.8383 0.7823	0.7949 0.8926	0.8890	Ave		0.8527			6.3		30.0				
1,1,1-Trichloroethane	++++ 3.3351	3.2168 2.9132	3.2372 2.7334	3.2140 2.7851	3.3406	Ave		3.0969			8.0		30.0				
1,2-Dichloroethane	++++ 0.4569	0.4832 0.3864	0.4749 0.3701	0.4633 0.3885	0.4718	Ave		0.4369			10.7		30.0				
1-Butanol	++++ 0.0639	0.0558 0.0558	++++ 0.0671	0.0551 0.0618	0.0622	Ave		0.0610			7.7		30.0				
Cyclohexane	++++ 0.1302	0.1149 0.1101	0.1184 0.1040	0.1260 0.0955	0.1376	Ave		0.1171			11.9		30.0				
Benzene	++++ 0.7322	0.8437 0.6046	0.7950 0.5722	0.7510 0.5312	0.7564	Ave		0.6983			16.3		30.0				
Carbon tetrachloride	0.7843 0.8287	0.7618 0.6999	0.7098 0.6615	0.8109 0.6518	0.7826	Ave		0.7435			8.7		30.0				
2,3-Dimethylpentane	++++ 0.1712	0.1714 0.1427	0.1694 0.1404	0.1761 0.1395	0.1745	Ave		0.1606			10.3		30.0				
Thiophene	++++ 0.4165	0.4347 0.3632	0.4135 0.3555	0.4081 0.3680	0.4313	Ave		0.3988			8.0		30.0				
Tert-amyl methyl ether	++++ 0.6605	0.7406 0.5623	0.6416 0.5191	0.6024 0.5263	0.6679	Ave		0.6151			12.5		30.0				
2,2,4-Trimethylpentane	++++ 1.3875	1.5390 1.1576	1.4751 1.0883	1.4432 0.9871	1.4449	Ave		1.3153			15.7		30.0				
Heptane	++++ 0.2442	0.2109 0.2109	0.2503 0.2088	0.2439 0.2062	0.2496	Ave		0.2306			9.0		30.0				
1,2-Dichloropropane	++++ 0.3010	0.3185 0.2604	0.2894 0.2489	0.2858 0.2435	0.3065	Ave		0.2817			9.9		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.: 140-5852-1 Analy Batch No.: 5523
 SDG No.: _____
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/22/2016 15:49 Calibration End Date: 06/22/2016 23:00 Calibration ID: 642

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	0.4078 0.3542	0.3744 0.3116	0.3733 0.3033	0.3548 0.3216	0.3704	Ave		0.3524			9.7		30.0				
Dibromomethane	++++ 0.3291	0.3266 0.2856	0.3204 0.2795	0.3280 0.2908	0.3356	Ave		0.3120			7.3		30.0				
Bromodichloromethane	0.5980 0.6148	0.5486 0.5461	0.5576 0.5252	0.5596 0.5377	0.6308	Ave		0.5687			6.5		30.0				
1,4-Dioxane	++++ 0.0907	++++ 0.0795	0.0796 0.0853	0.0803 0.0765	0.0906	Ave		0.0832			6.8		30.0				
Methyl methacrylate	++++ 0.2190	0.2024 0.1965	0.1813 0.1935	0.3185 0.2086	0.2018	Ave		0.2152			20.1		30.0				
Methylcyclohexane	++++ 0.5679	0.5877 0.4747	0.5782 0.4633	0.5735 0.4476	0.5931	Ave		0.5358			11.6		30.0				
4-Methyl-2-pentanone (MIBK)	++++ 0.4572	0.5094 0.3912	0.6711 0.4240	0.4244 0.3787	0.5230	Ave		0.4724			20.2		30.0				
cis-1,3-Dichloropropene	0.3836 0.4002	0.3632 0.3656	0.3419 0.3525	0.3346 0.3814	0.3874	Ave		0.3678			6.0		30.0				
trans-1,3-Dichloropropene	++++ 0.3595	0.3152 0.3337	0.2950 0.3226	0.2686 0.3655	0.3573	Ave		0.3272			10.4		30.0				
Toluene	++++ 0.9093	1.0070 0.7987	0.8963 0.6980	0.8459 0.7268	0.9326	Ave		0.8518			12.4		30.0				
Toluene Range	++++ 2.0809	++++ 1.9007	++++ 1.6308	1.8813 1.7440	2.1031	Ave		1.8901			9.8		30.0				
1,1,2-Trichloroethane	++++ 0.2634	0.2733 0.2315	0.2567 0.2104	0.2485 0.2212	0.2692	Ave		0.2468			9.4		30.0				
2-Methylthiophene	++++ 0.7820	0.7234 0.6802	0.7793 0.6080	0.6860 0.6275	0.7941	Ave		0.7101			10.1		30.0				
3-Methylthiophene	++++ 0.7359	0.7177 0.6520	0.7055 0.5863	0.6857 0.6160	0.7508	Ave		0.6812			8.6		30.0				
2-Hexanone	++++ 0.2800	++++ 0.2386	0.2217 0.2430	0.2392 0.2307	0.2834	Ave		0.2481			9.7		30.0				
Octane	++++ 0.3030	0.3024 0.2605	0.2978 0.2316	0.2891 0.2326	0.3146	Ave		0.2789			11.8		30.0				
C8 Range	++++ 2.8050	++++ 2.3297	++++ 2.0345	2.8095 1.9518	2.9926	Ave		2.4872			17.8		30.0				
Dibromochloromethane	0.5674 0.6659	0.5543 0.5923	0.5728 0.5443	0.5770 0.5832	0.6580	Ave		0.5906			7.3		30.0				
1,2-Dibromoethane	0.4552 0.4797	0.4768 0.4280	0.4555 0.4034	0.4307 0.4503	0.4785	Ave		0.4509			5.8		30.0				
Tetrachloroethene	0.4875 0.4016	0.4396 0.3385	0.4357 0.3067	0.4287 0.3230	0.4309	Ave		0.3991			15.5		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.: 140-5852-1

Analy Batch No.: 5523

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2016 15:49

Calibration End Date: 06/22/2016 23:00

Calibration ID: 642

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													
2,3-Dimethylheptane	++++ 0.8566	1.0104 0.6661	0.9749 0.5494	0.9109 0.4479	0.9375	Ave		0.7942			26.7		30.0				
Chlorobenzene	++++ 0.6770	0.7480 0.5890	0.6968 0.5278	0.6430 0.5490	0.6927	Ave		0.6404			12.2		30.0				
Ethylbenzene	++++ 1.0567	1.1550 0.9468	0.9801 0.8178	0.8973 0.8923	1.0251	Ave		0.9714			11.0		30.0				
2-Ethylthiophene	++++ 0.8055	0.8105 0.7294	0.7199 0.6458	0.6669 0.7164	0.7795	Ave		0.7342			8.3		30.0				
m-Xylene & p-Xylene	0.9369 0.8068	0.8738 0.6978	0.7634 0.5911	0.6968 0.6181	0.8006	Ave		0.7539			15.1		30.0				
Nonane	++++ 0.6451	0.5885 0.5662	0.5459 0.4907	0.5382 0.4585	0.6311	Ave		0.5580			11.5		30.0				
Bromoform	++++ 0.5090	0.3393 0.4915	0.3617 0.4772	0.3571 0.5497	0.4679	Ave		0.4442			18.0		30.0				
Styrene	0.5013 0.5292	0.4332 0.4944	0.3824 0.4484	0.3826 0.5156	0.4866	Ave		0.4637			11.9		30.0				
o-Xylene	++++ 0.8703	0.9793 0.7561	0.8386 0.6600	0.7655 0.7338	0.8759	Ave		0.8099			12.4		30.0				
1,1,2,2-Tetrachloroethane	0.5577 0.5616	0.5348 0.5019	0.4870 0.4665	0.4817 0.4930	0.5584	Ave		0.5159			7.2		30.0				
1,2,3-Trichloropropane	++++ 0.1561	0.1432 0.1434	0.1415 0.1353	0.1349 0.1602	0.1554	Ave		0.1463			6.7		30.0				
Isopropylbenzene	++++ 1.1442	++++ 1.0035	1.0700 0.8681	0.9886 0.9337	1.1229	Ave		1.0187			9.8		30.0				
Propylbenzene	++++ 0.2806	0.2553 0.2565	0.2405 0.2426	0.2166 0.2918	0.2618	Ave		0.2557			9.2		30.0				
2-Chlorotoluene	++++ 0.2906	0.2913 0.2672	0.2599 0.2412	0.2428 0.2871	0.2787	Ave		0.2699			7.6		30.0				
4-Ethyltoluene	++++ 0.9839	0.8822 0.8719	0.8073 0.8004	0.7766 0.8681	0.9414	Ave		0.8665			8.2		30.0				
1,3,5-Trimethylbenzene	++++ 0.5002	0.5144 0.4334	0.4547 0.4008	0.4225 0.4561	0.4860	Ave		0.4585			8.6		30.0				
Alpha Methyl Styrene	++++ 0.3517	++++ 0.3492	0.2284 0.3478	0.2209 0.4145	0.3127	Ave		0.3179			22.2		30.0				
Decane	++++ 0.6574	0.6037 0.5756	0.5696 0.4989	0.5427 0.4758	0.6398	Ave		0.5704			11.2		30.0				
tert-Butylbenzene	++++ 1.0212	++++ 0.8699	0.9497 0.7834	0.8998 0.8218	1.0369	Ave		0.9118			10.6		30.0				
1,2,4-Trimethylbenzene	++++ 0.8794	0.8435 0.7418	0.7504 0.6841	0.7285 0.7099	0.8721	Ave		0.7762			9.9		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.: 140-5852-1 Analy Batch No.: 5523
 SDG No.: _____
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/22/2016 15:49 Calibration End Date: 06/22/2016 23:00 Calibration ID: 642

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	++++ 1.2919	++++ 1.0984	1.1691 0.9877	1.0927 0.9921	1.2854	Ave		1.1310			11.0		30.0				
1,3-Dichlorobenzene	++++ 0.4099	0.3775 0.3972	0.3536 0.4064	0.3342 0.5042	0.3891	Ave		0.3965			12.8		30.0				
Benzyl chloride	++++ 0.4101	++++ 0.4053	0.2838 0.4575	0.2701 0.5420	0.3568	Ave		0.3894			24.6		30.0				
1,4-Dichlorobenzene	++++ 0.3467	0.3085 0.3409	0.2862 0.3681	0.2766 0.4691	0.3181	Ave		0.3393			17.9		30.0				
4-Isopropyltoluene	++++ 1.0572	0.9805 0.8935	0.8980 0.8441	0.8621 0.8504	1.0514	Ave		0.9296			9.5		30.0				
1,2,3-Trimethylbenzene	++++ 0.6839	0.6824 0.5727	0.5992 0.5466	0.5790 0.5862	0.6829	Ave		0.6166			9.2		30.0				
Butylcyclohexane	++++ 0.7573	0.7963 0.6471	0.6759 0.5621	0.6417 0.5557	0.7464	Ave		0.6728			13.2		30.0				
Indane	++++ 0.7243	0.6832 0.6413	0.6020 0.6072	0.5803 0.6525	0.6998	Ave		0.6488			7.9		30.0				
1,2-Dichlorobenzene	++++ 0.4281	0.3879 0.4016	0.3773 0.4016	0.3434 0.4773	0.4106	Ave		0.4035			9.7		30.0				
Butylbenzene	++++ 0.8271	0.6800 0.7161	0.6905 0.7000	0.6278 0.6951	0.8050	Ave		0.7177			9.2		30.0				
Indene	++++ 0.4211	0.3055 0.3945	0.3055 0.4031	0.2953 0.4594	0.3928	Ave		0.3721			16.6		30.0				
Undecane	++++ 0.6130	0.5334 0.5348	0.5637 0.5122	0.5086 0.4720	0.6159	Ave		0.5442			9.3		30.0				
1,2-Dimethyl-4-Ethylbenzene	++++ 0.6948	0.5622 0.5936	0.5720 0.6048	0.5150 0.6225	0.6684	Ave		0.6042			9.6		30.0				
1,2-Dibromo-3-Chloropropane	0.1652 0.1391	0.0826 0.1371	0.0917 0.1612	0.0919 0.1992	0.1259	Ave		0.1327			29.5		30.0				
1,2,4,5-Tetramethylbenzene	++++ 0.8351	0.7116 0.7142	0.7250 0.7364	0.6413 0.7290	0.8195	Ave		0.7390			8.4		30.0				
1,2,3,5-Tetramethylbenzene	++++ 0.5341	0.4665 0.4486	0.4771 0.4694	0.4161 0.4778	0.5255	Ave		0.4769			8.0		30.0				
1,2,3,4-Tetramethylbenzene	++++ 0.6468	0.5792 0.5569	0.5811 0.5902	0.5017 0.6010	0.6481	Ave		0.5881			8.1		30.0				
Dodecane	++++ 0.5636	++++ 0.4338	++++ 0.4825	++++ 0.4212	0.5682	Ave		0.4840			13.8		30.0				
1,2,4-Trichlorobenzene	++++ 0.1153	0.0949 0.1129	0.0905 0.1585	0.0762 ++++	0.1009	Ave		0.1070			24.6		30.0				
Naphthalene	0.4313 0.2773	0.1979 0.2653	0.2048 0.3417	0.1751 0.4174	0.2443	Ave		0.2839			33.0	*	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.: 140-5852-1 Analy Batch No.: 5523
 SDG No.: _____
 Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/22/2016 15:49 Calibration End Date: 06/22/2016 23:00 Calibration ID: 642

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	+++++	0.0933	0.0961	0.0715	0.0929	Ave		0.0997			20.5		30.0				
	0.1041	0.1002	0.1397	+++++													
Hexachlorobutadiene	+++++	0.4968	0.4626	0.3746	0.4657	Ave		0.4264			11.2		30.0				
	0.4409	0.3652	0.3871	0.4182													
1,2,3-Trichlorobenzene	+++++	0.0919	0.1024	0.0774	0.1070	Ave		0.1175			29.8		30.0				
	0.1169	0.1090	0.1470	0.1883													
2-Methylnaphthalene	+++++	0.0182	0.0198	0.0101	0.0152	Ave		0.0185			30.6		50.0				
	0.0188	0.0142	0.0234	0.0285													
1-Methylnaphthalene	+++++	0.0201	0.0205	0.0098	0.0188	Ave		0.0195			27.8		50.0				
	0.0200	0.0147	0.0246	0.0272													
4-Bromofluorobenzene (Surr)	0.5569	0.5729	0.5669	0.5617	0.5880	Ave		0.5906			4.8		30.0				
	0.6060	0.6183	0.6052	0.6393													

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.: 140-5852-1 Analy Batch No.: 5523

SDG No.: _____

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

Calibration Start Date: 06/22/2016 15:49 Calibration End Date: 06/22/2016 23:00 Calibration ID: 642

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-5523/2	JF22IC01.D
Level 2	IC 140-5523/3	JF22IC02.D
Level 3	IC 140-5523/4	JF22IC03.D
Level 4	IC 140-5523/5	JF22IC04.D
Level 5	IC 140-5523/6	JF22IC05.D
Level 6	ICIS 140-5523/7	JF22IC06.D
Level 7	IC 140-5523/8	JF22IC07.D
Level 8	IC 140-5523/9	JF22IC08.D
Level 9	IC 140-5523/10	JF22IC09.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	++++ 74322	3758 143302	6560 288544	15197 568696	38466	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Propene	CBM	Ave	++++ 171785	++++ 332692	16876 650144	38620 1164099	94985	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Dichlorodifluoromethane	CBM	Ave	++++ 651005	32532 1307229	59316 2500166	140732 4418618	363576	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloromethane	CBM	Ave	++++ 45845	++++ 88214	5046 153848	10913 302773	25067	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichlorotetrafluoroethane	CBM	Ave	++++ 371615	18190 727582	32599 1405458	76736 2421902	199170	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acetaldehyde	CBM	Ave	++++ 203386	++++ 350643	++++ 606067	60801 1336036	116129	++++ 9.99	++++ 20.0	++++ 40.0	2.00 80.0	5.01
Vinyl chloride	CBM	Ave	4184 147890	7861 296801	14061 533221	33657 1077395	82084	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,3-Butadiene	CBM	Ave	++++ 103801	++++ 204963	9528 364739	23616 746524	57483	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Butane	CBM	Ave	++++ 163737	++++ 337432	17623 570149	40990 1159255	95645	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Bromomethane	CBM	Ave	++++ 141086	8158 279818	13738 529966	30969 1110251	76471	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chloroethane	CBM	Ave	++++ 54729	2955 110409	5153 206332	11567 437796	29140	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethanol	CBM	Ave	++++ 116482	++++ 222729	12374 379778	24561 840205	63110	++++ 9.99	++++ 20.0	0.793 40.0	2.00 80.0	5.01
Vinyl bromide	CBM	Ave	++++ 177848	8179 349781	15295 682940	35692 1405653	92013	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylbutane	CBM	Ave	++++ 214661	++++ 408100	19045 760188	45429 1423234	114860	++++ 2.00	++++ 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.: 140-5852-1

Analy Batch No.: 5523

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2016 15:49

Calibration End Date: 06/22/2016 23:00

Calibration ID: 642

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	++++ 621893	29427 1205159	54177 2296411	127417 4442645	327570	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acrolein	CBM	Ave	++++ 50881	++++ 93702	++++ 5654 166781	++++ 10026 389500	26432	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Acetonitrile	CBM	Ave	++++ 57557	++++ 108943	++++ 5491 196326	++++ 10126 485627	27782	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Acetone	CBM	Ave	++++ 220910	++++ 349669	++++ 600267	++++ 56991 1492629	120631	++++ 5.99	++++ 12.0	++++ 24.0	1.20 48.0	3.01
Isopropyl alcohol	CBM	Ave	++++ 744962	++++ 1317035	++++ 66795 2507678	++++ 146107 4376471	387973	++++ 5.99	++++ 12.0	0.476 24.0	1.20 48.0	3.01
Pentane	CBM	Ave	++++ 26066	++++ 50079	++++ 2365 97557	++++ 5773 187143	13885	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Ethyl ether	CBM	Ave	++++ 125926	++++ 242733	++++ 10577 410197	++++ 22404 994775	61651	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,1-Dichloroethene	CBM	Ave	++++ 178394	++++ 351859	++++ 8665 696021	++++ 14550 1428851	35955 93723	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
t-Butyl alcohol	CBM	Ave	++++ 317555	++++ 579563	++++ 27692 1237494	++++ 62382 2382939	162292	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Acrylonitrile	CBM	Ave	++++ 107837	++++ 207783	++++ 5664 377050	++++ 8920 912254	18989 53165	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,2-Trichlorotrifluoroethane	CBM	Ave	++++ 426570	++++ 809888	++++ 20438 1546698	++++ 36165 3036710	86503 223225	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methylene Chloride	CBM	Ave	++++ 163012	++++ 305232	++++ 17691 583873	++++ 36114 1180787	85918	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
3-Chloropropene	CBM	Ave	++++ 163557	++++ 294729	++++ 8939 573796	++++ 13881 1045840	32947 83611	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Carbon disulfide	CBM	Ave	++++ 514119	++++ 992410	++++ 24918 1953890	++++ 43276 3799723	101542 266620	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
trans-1,2-Dichloroethene	CBM	Ave	++++ 181960	++++ 353708	++++ 8553 665147	++++ 15820 1345260	36395 95290	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylpentane	CBM	Ave	++++ 383056	++++ 706451	++++ 18427 1276291	++++ 33213 2327114	77661 202218	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methyl tert-butyl ether	CBM	Ave	++++ 394051	++++ 758096	++++ 31229 1326657	++++ 69473 3205110	191223	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,1-Dichloroethane	CBM	Ave	++++ 377503	++++ 687439	++++ 18027 1302641	++++ 31797 2777161	76286 192069	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Vinyl acetate	CBM	Ave	++++ 326088	++++ 648961	++++ 24129 1103728	++++ 53117 2762820	156921	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
2-Butanone	CBM	Ave	++++ 57065	++++ 102957	++++ ++++ 193612	++++ 6456 450257	12150 29406	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Hexane	CBM	Ave	++++ 165234	++++ 300224	++++ 7336 572625	++++ 13952 1143308	33402 84874	++++ 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.: 140-5852-1

Analy Batch No.: 5523

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2016 15:49

Calibration End Date: 06/22/2016 23:00

Calibration ID: 642

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	++++ 485009	24409 905127	38161 1604773	85916 3515890	234280	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
cis-1,2-Dichloroethene	CBM	Ave	++++ 181693	8942 338040	15396 641922	36349 1430321	92758	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethyl acetate	CBM	Ave	++++ 259651	++++ 486683	19949 899864	46813 2028801	127302	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Chloroform	CBM	Ave	++++ 414764	19881 757083	36514 1390825	85067 3097387	213335	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tert-butyl ethyl ether	CBM	Ave	++++ 476674	23991 888552	37259 1627729	82013 3703920	229807	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tetrahydrofuran	CBM	Ave	++++ 136985	++++ 261903	10627 469029	24321 1159161	66510	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,1,1-Trichloroethane	CBM	Ave	++++ 491600	21626 905660	41035 1638831	98335 3616674	249926	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichloroethane	DFBZ	Ave	++++ 295685	++++ 549094	14298 987874	26030 2263123	59968 151004	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1-Butanol	DFBZ	Ave	++++ 41337	++++ 79338	++++ 179047	7131 360182	19897	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Cyclohexane	DFBZ	Ave	++++ 84227	3400 156430	6492 277573	16308 556586	44050	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzene	DFBZ	Ave	++++ 473833	24967 859237	43574 1527500	97218 3094582	242064	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Carbon tetrachloride	DFBZ	Ave	10308 536281	22543 994733	38903 1765814	104966 3797031	250454	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,3-Dimethylpentane	DFBZ	Ave	++++ 110794	5072 202801	9283 374753	22790 812542	55859	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Thiophene	DFBZ	Ave	++++ 269521	12865 516119	22661 949009	52829 2143783	138033	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tert-amyl methyl ether	CBZd 5	Ave	++++ 372876	18473 723980	28733 1344086	64540 3028475	180342	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,2,4-Trimethylpentane	DFBZ	Ave	++++ 897864	45542 1645159	80847 2905240	186825 5750307	462412	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Heptane	DFBZ	Ave	++++ 158034	++++ 299782	13718 557515	31573 1201125	79881	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichloropropane	DFBZ	Ave	++++ 194759	9425 370098	15859 664536	36991 1418404	98083	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Trichloroethene	DFBZ	Ave	5360 229178	11078 442884	20459 809617	45929 1873495	118547	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dibromomethane	DFBZ	Ave	++++ 212934	9666 405928	17561 746153	42461 1694078	107420	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Bromodichloromethane	DFBZ	Ave	7859 397868	16234 776050	30563 1402039	72436 3132699	201889	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.: 140-5852-1

Analy Batch No.: 5523

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2016 15:49

Calibration End Date: 06/22/2016 23:00

Calibration ID: 642

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	++++ 58670	++++ 112981	4364 227685	10391 445938	28993	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Methyl methacrylate	DFBZ	Ave	++++ 141703	5990 279290	9937 516447	41235 1215024	64577	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Methylcyclohexane	DFBZ	Ave	++++ 367492	17392 674601	31688 1236865	74236 2607782	189819	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Methyl-2-pentanone (MIBK)	DFBZ	Ave	++++ 295884	15075 556003	36781 1131908	54942 2205881	167376	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
cis-1,3-Dichloropropene	DFBZ	Ave	5041 259003	10749 519520	18741 940942	43317 2221824	123970	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	++++ 202943	7861 429638	13213 835409	28773 2103301	96475	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Toluene	CBZd 5	Ave	++++ 513330	25117 1028413	40141 1807350	90623 4182412	251819	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Toluene Range	CBZd 5	Ave	++++ 1174730	++++ 2447394	++++ 4222753	++++ 10035359	567901	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
1,1,2-Trichloroethane	CBZd 5	Ave	++++ 148679	6816 298075	11494 544854	26618 1272593	72695	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylthiophene	CBZd 5	Ave	++++ 441429	18043 875867	34902 1574396	73492 3610870	214421	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
3-Methylthiophene	CBZd 5	Ave	++++ 415433	17901 839568	31597 1518071	73462 3544888	202739	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Hexanone	CBZd 5	Ave	++++ 158048	++++ 307291	9927 629308	25630 1327800	76515	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Octane	CBZd 5	Ave	++++ 171049	7543 335449	13336 599701	30969 1338237	84942	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
C8 Range	CBZd 5	Ave	++++ 1583480	++++ 2999823	++++ 5268215	++++ 11231032	808090	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
Dibromochloromethane	CBZd 5	Ave	5891 375901	13827 762654	25651 1409503	61819 3355987	177672	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dibromoethane	CBZd 5	Ave	4726 270820	11892 551155	20400 1044626	46147 2590955	129201	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Tetrachloroethene	CBZd 5	Ave	5061 226727	10964 435890	19514 794219	45924 1858547	116368	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2,3-Dimethylheptane	CBZd 5	Ave	++++ 483560	25203 857705	43660 1422600	97584 2577374	253140	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Chlorobenzene	CBZd 5	Ave	++++ 382171	18658 758472	31203 1366684	68884 3159295	187036	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Ethylbenzene	CBZd 5	Ave	++++ 596545	28810 1219170	43894 2117749	96127 5134454	276806	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Ethylthiophene	CBZd 5	Ave	++++ 454691	20217 939238	32238 1672366	71448 4122460	210486	++++ 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.: 140-5852-1

Analy Batch No.: 5523

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2016 15:49

Calibration End Date: 06/22/2016 23:00

Calibration ID: 642

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	19454 910856	43588 1796987	68375 3061379	149302 7113518	432360	0.0784 3.99	0.157 8.00	0.317 16.0	0.800 32.0	2.00
Nonane	CBZd 5	Ave	++++ 364149	14679 729041	24448 1270603	57661 2638502	170403	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Bromoform	CBZd 5	Ave	++++ 287325	8464 632872	16198 1235633	38261 3162893	126351	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Styrene	CBZd 5	Ave	5204 298757	10805 636582	17123 1161198	40993 2966957	131396	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
o-Xylene	CBZd 5	Ave	++++ 491312	24427 973620	37556 1708918	82015 4222274	236527	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,1,2,2-Tetrachloroethane	CBZd 5	Ave	5790 317051	13340 646257	21810 1208064	51611 2836714	150790	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	++++ 88107	3572 184661	6337 350332	14455 921976	41958	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Isopropylbenzene	CBZd 5	Ave	++++ 645900	++++ 1292194	47917 2248024	105917 5373006	303206	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Propylbenzene	CBZd 5	Ave	++++ 158414	6367 330331	10769 628117	23208 1679331	70689	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Chlorotoluene	CBZd 5	Ave	++++ 164057	7267 344057	11641 624631	26016 1651961	75246	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Ethyltoluene	CBZd 5	Ave	++++ 555410	22005 1122676	36155 2072618	83203 4995270	254212	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,3,5-Trimethylbenzene	CBZd 5	Ave	++++ 282382	12831 558077	20363 1037781	45264 2624406	131247	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Alpha Methyl Styrene	CBZd 5	Ave	++++ 198517	++++ 449633	10227 900610	23661 2385158	84426	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
Decane	CBZd 5	Ave	++++ 371127	15057 741112	25509 1291827	58146 2738103	172771	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
tert-Butylbenzene	CBZd 5	Ave	++++ 576459	++++ 1120112	42532 2028581	96405 4729064	279995	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,2,4-Trimethylbenzene	CBZd 5	Ave	++++ 496438	21039 955201	33604 1771506	78046 4084905	235496	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
sec-Butylbenzene	CBZd 5	Ave	++++ 729282	++++ 1414365	52355 2557663	117070 5708680	347096	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,3-Dichlorobenzene	CBZd 5	Ave	++++ 231407	9415 511453	15837 1052391	35808 2901271	105055	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzyl chloride	CBZd 5	Ave	++++ 231497	++++ 521842	12711 1184773	28941 3118761	96342	++++ 2.00	++++ 4.00	0.159 8.00	0.400 16.0	1.00
1,4-Dichlorobenzene	CBZd 5	Ave	++++ 195721	7696 438982	12819 953235	29631 2699517	85902	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
4-Isopropyltoluene	CBZd 5	Ave	++++ 596789	24457 1150454	40217 2185786	92356 4893500	283900	++++ 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.: 140-5852-1

Analy Batch No.: 5523

SDG No.: _____

Instrument ID: MJ

GC Column: RTX-5

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/22/2016 15:49

Calibration End Date: 06/22/2016 23:00

Calibration ID: 642

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	++++ 386097	17021 737400	26836 1415266	62027 3373450	184398	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butylcyclohexane	CBZd 5	Ave	++++ 427484	19863 833271	30267 1455558	68748 3197669	201539	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Indane	CBZd 5	Ave	++++ 408894	17042 825803	26958 1572283	62168 3754466	188971	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dichlorobenzene	CBZd 5	Ave	++++ 241683	9676 517072	16895 1039806	36785 2746451	110886	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Butylbenzene	CBZd 5	Ave	++++ 466916	16960 922062	30924 1812485	67262 3999716	217364	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Indene	CBZd 5	Ave	++++ 237730	7619 507931	13681 1043744	31634 2643801	106078	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Undecane	CBZd 5	Ave	++++ 346076	13304 688596	25243 1326289	54486 2716283	166313	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dimethyl-4-Ethylbenzene	CBZd 5	Ave	++++ 392201	14022 764381	25618 1566098	55179 3582044	180487	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2-Dibromo-3-Chloropropane	CBZd 5	Ave	1715 78535	2060 176596	4107 417334	9842 1146153	33994	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	++++ 471438	17750 919685	32467 1906908	68705 4194777	221281	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3,5-Tetramethylbenzene	CBZd 5	Ave	++++ 301527	11637 577643	21367 1215600	44578 2749344	141907	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3,4-Tetramethylbenzene	CBZd 5	Ave	++++ 365106	14446 717139	26023 1528285	53749 3458409	175011	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Dodecane	CBZd 5	Ave	++++ 318147	++++ 558539	++++ 1249421	46563 2423987	153441	++++ 2.00	++++ 4.00	++++ 8.00	0.400 16.0	1.00
1,2,4-Trichlorobenzene	CBZd 5	Ave	++++ 65109	2368 145399	4052 410410	8167 ++++	27246	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 ++++	1.00
Naphthalene	CBZd 5	Ave	4478 156536	4935 341566	9172 884843	18754 2401988	65976	0.0392 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
Benzo(b)thiophene	CBZd 5	Ave	++++ 58741	2326 129062	4302 361623	7658 ++++	25086	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 ++++	1.00
Hexachlorobutadiene	CBZd 5	Ave	++++ 248901	12392 470300	20717 1002249	40131 2406632	125753	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
1,2,3-Trichlorobenzene	CBZd 5	Ave	++++ 66002	2292 140342	4585 380574	8296 1083656	28890	++++ 2.00	0.0784 4.00	0.159 8.00	0.400 16.0	1.00
2-Methylnaphthalene	CBZd 5	Ave	++++ 33085	1420 57318	2771 189512	3375 511700	12857	++++ 6.24	0.245 12.5	0.496 25.0	1.25 50.0	3.13
1-Methylnaphthalene	CBZd 5	Ave	++++ 35332	1563 59070	2867 198948	3284 489210	15840	++++ 6.24	0.245 12.5	0.496 25.0	1.25 50.0	3.13
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	590004 685127	729043 796104	640074 783587	601768 919690	634109	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.: 140-5852-1 Analy Batch No.: 5523
SDG No.: _____
Instrument ID: MJ GC Column: RTX-5 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/22/2016 15:49 Calibration End Date: 06/22/2016 23:00 Calibration ID: 642

Curve Type Legend:

Ave = Average ISTD

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC01.D
 Lims ID: IC L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 22-Jun-2016 15:49:30 ALS Bottle#: 7 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044591
 Misc. Info.: J062216,T15,,140-0003070-002
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Jun-2016 15:11:59 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: tajh

Date: 23-Jun-2016 07:40:48

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	9.389	9.389	0.000	90	322287	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.552	11.552	0.000	95	1341042	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.232	16.231	0.001	88	1059355	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.856	17.854	0.002	91	590004	4.00	3.77	
6 Chlorodifluoromethane	67	3.924	3.925	-0.001	81	1653	0.0392	0.0413	
7 Propene	41	3.940	3.939	0.001	79	5861	0.0392	0.0630	
8 Dichlorodifluoromethane	85	3.993	3.995	-0.002	98	16428	0.0392	0.0464	
9 Chloromethane	52	4.198	4.196	0.002	49	2354	0.0392	0.0941	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.203	4.201	0.002	90	9437	0.0392	0.0480	
11 Acetaldehyde	44	4.365	4.364	0.001	84	10708	0.1960	0.4930	
12 Vinyl chloride	62	4.386	4.384	0.002	95	4184	0.0392	0.0493	
14 Butadiene	54	4.483	4.479	0.004	69	2754	0.0392	0.0494	
13 Butane	43	4.478	4.480	-0.002	81	5568	0.0392	0.0601	
15 Bromomethane	94	4.838	4.837	0.001	94	4296	0.0392	0.0538	
16 Chloroethane	64	4.989	4.991	-0.002	41	1583	0.0392	0.0520	
17 Ethanol	31	5.080	5.081	-0.001	91	5501	0.1960	0.4417	
18 Vinyl bromide	106	5.322	5.323	-0.001	94	4323	0.0392	0.0458	
19 2-Methylbutane	43	5.371	5.372	-0.001	86	5837	0.0392	0.0525	
20 Trichlorofluoromethane	101	5.613	5.611	0.002	97	14017	0.0392	0.0428	
21 Acrolein	56	5.623	5.623	0.000	86	3200	0.0392	0.1182	
23 Acetone	58	5.753	5.747	0.006	98	9794	0.1176	0.2653	
24 Isopropyl alcohol	45	5.828	5.819	0.009	90	16924	0.1176	0.1375	
26 Ethyl ether	31	6.038	6.027	0.011	79	2328	0.0392	0.0369	
27 1,1-Dichloroethene	96	6.360	6.368	-0.008	91	4004	0.0392	0.0420	
28 2-Methyl-2-propanol	59	6.473	6.457	0.016	92	6792	0.0392	0.0404	
29 Acrylonitrile	53	6.484	6.479	0.005	51	2168	0.0392	0.0384	
30 1,1,2-Trichloro-1,2,2-trif	101	6.549	6.548	0.001	94	9961	0.0392	0.0447	
31 Methylene Chloride	84	6.737	6.739	-0.002	94	7919	0.0392	0.0894	
32 3-Chloro-1-propene	39	6.753	6.753	0.000	58	4691	0.0392	0.0552	
33 Carbon disulfide	76	6.920	6.916	0.004	98	12081	0.0392	0.0446	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 trans-1,2-Dichloroethene	96	7.587	7.587	0.000	93	4204	0.0392	0.0439	
35 2-Methylpentane	43	7.598	7.597	0.001	95	8763	0.0392	0.0449	
36 Methyl tert-butyl ether	73	7.727	7.715	0.012	96	8273	0.0392	0.0421	
37 1,1-Dichloroethane	63	8.017	8.025	-0.008	97	8643	0.0392	0.0444	
38 Vinyl acetate	43	8.130	8.125	0.005	99	6636	0.0392	0.0412	
39 2-Butanone (MEK)	72	8.614	8.597	0.017	83	1558	0.0392	0.0504	
40 Hexane	56	8.614	8.613	0.001	79	3649	0.0392	0.0434	
41 Isopropyl ether	45	8.781	8.773	0.008	96	9162	0.0392	0.0376	
42 cis-1,2-Dichloroethene	96	9.039	9.044	-0.005	92	4186	0.0392	0.0439	
43 Ethyl acetate	43	9.233	9.224	0.009	95	5581	0.0392	0.0433	
44 Chloroform	83	9.389	9.395	-0.006	28	10067	0.0392	0.0467	
45 Tert-butyl ethyl ether	59	9.481	9.471	0.010	94	9080	0.0392	0.0377	
46 Tetrahydrofuran	42	9.846	9.821	0.025	88	2708	0.0392	0.0394	
47 1,1,1-Trichloroethane	97	10.443	10.443	0.000	94	10468	0.0392	0.0420	
48 1,2-Dichloroethane	62	10.551	10.556	-0.005	96	6592	0.0392	0.0450	
50 Cyclohexane	69	11.024	11.031	-0.007	69	1658	0.0392	0.0422	
51 Benzene	78	11.024	11.031	-0.007	97	12693	0.0392	0.0542	
52 Carbon tetrachloride	117	11.057	11.055	0.002	95	10308	0.0392	0.0414	
53 2,3-Dimethylpentane	71	11.132	11.134	-0.002	85	2257	0.0392	0.0419	
54 Thiophene	84	11.304	11.302	0.002	96	6313	0.0392	0.0472	
55 Tert-amyl methyl ether	73	11.487	11.480	0.007	93	7657	0.0392	0.0470	
56 Isooctane	57	11.761	11.759	0.002	98	22025	0.0392	0.0499	
57 n-Heptane	71	12.122	12.122	0.000	81	3150	0.0392	0.0408	
58 1,2-Dichloropropane	63	12.235	12.227	0.008	73	3825	0.0392	0.0405	
59 Trichloroethene	130	12.262	12.257	0.005	92	5360	0.0392	0.0454	
60 Dibromomethane	93	12.353	12.348	0.005	92	4622	0.0392	0.0442	
62 Dichlorobromomethane	83	12.488	12.487	0.001	98	7859	0.0392	0.0412	
61 1,4-Dioxane	88	12.515	12.501	0.014	13	896	0.0392	0.0321	
63 Methyl methacrylate	41	12.563	12.558	0.005	82	2510	0.0392	0.0348	
64 Methylcyclohexane	83	13.015	13.014	0.001	91	8188	0.0392	0.0456	
65 4-Methyl-2-pentanone (MIBK)	43	13.408	13.399	0.009	94	6521	0.0392	0.0412	
66 cis-1,3-Dichloropropene	75	13.461	13.466	-0.005	92	5041	0.0392	0.0409	
67 trans-1,3-Dichloropropene	75	14.145	14.149	-0.004	93	4402	0.0392	0.0508	
68 Toluene	91	14.274	14.277	-0.003	92	10890	0.0392	0.0483	
69 1,1,2-Trichloroethane	83	14.354	14.349	0.005	92	2857	0.0392	0.0437	
70 2-Methylthiophene	97	14.430	14.429	0.001	97	8764	0.0392	0.0466	
71 3-Methylthiophene	97	14.629	14.628	0.001	97	8057	0.0392	0.0447	
72 2-Hexanone	58	14.726	14.717	0.009	93	2820	0.0392	0.0429	
73 n-Octane	85	14.930	14.931	-0.001	91	3317	0.0392	0.0449	
74 Chlorodibromomethane	129	15.048	15.053	-0.005	94	5891	0.0392	0.0377	
75 Ethylene Dibromide	107	15.344	15.344	0.000	98	4726	0.0392	0.0396	
76 Tetrachloroethene	129	15.409	15.408	0.001	93	5061	0.0392	0.0479	
77 2,3-Dimethylheptane	43	16.269	16.269	0.000	93	11055	0.0392	0.0526	
78 Chlorobenzene	112	16.280	16.279	0.001	92	8514	0.0392	0.0502	
79 Ethylbenzene	91	16.560	16.557	0.003	97	12503	0.0392	0.0486	
80 2-Ethylthiophene	97	16.657	16.661	-0.004	95	9313	0.0392	0.0479	
81 m-Xylene & p-Xylene	91	16.711	16.715	-0.004	98	19454	0.0784	0.0974	
82 n-Nonane	57	17.109	17.109	0.000	90	6648	0.0392	0.0450	
83 Bromoform	173	17.179	17.179	0.000	86	3700	0.0392	0.0315	
84 Styrene	104	17.179	17.181	-0.002	94	5204	0.0392	0.0424	
85 o-Xylene	91	17.243	17.242	0.001	96	10551	0.0392	0.0492	
86 1,1,2,2-Tetrachloroethane	83	17.561	17.563	-0.002	93	5790	0.0392	0.0424	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
87 1,2,3-Trichloropropane	110	17.717	17.720	-0.004	94	1702	0.0392	0.0439	
88 Isopropylbenzene	105	17.819	17.815	0.004	96	14105	0.0392	0.0523	
89 N-Propylbenzene	120	18.330	18.333	-0.003	99	3033	0.0392	0.0448	
90 2-Chlorotoluene	126	18.384	18.384	0.000	95	3310	0.0392	0.0463	
91 4-Ethyltoluene	105	18.480	18.477	0.003	98	10973	0.0392	0.0478	
92 1,3,5-Trimethylbenzene	120	18.540	18.545	-0.005	90	5497	0.0392	0.0453	
93 Alpha Methyl Styrene	118	18.771	18.771	0.000	87	3023	0.0392	0.0359	
94 n-Decane	57	18.803	18.805	-0.002	90	7045	0.0392	0.0466	
95 tert-Butylbenzene	119	18.959	18.958	0.001	91	12275	0.0392	0.0508	
96 1,2,4-Trimethylbenzene	105	18.970	18.971	-0.001	95	9466	0.0392	0.0460	
97 sec-Butylbenzene	105	19.217	19.218	-0.001	98	14891	0.0392	0.0497	
98 1,3-Dichlorobenzene	146	19.244	19.244	0.000	93	5642	0.0392	0.0537	
99 Benzyl chloride	91	19.314	19.315	-0.001	94	4534	0.0392	0.0440	
100 1,4-Dichlorobenzene	146	19.330	19.329	0.001	92	4961	0.0392	0.0552	
101 4-Isopropyltoluene	119	19.373	19.373	0.000	97	13149	0.0392	0.0534	
102 1,2,3-Trimethylbenzene	105	19.427	19.432	-0.005	97	7660	0.0392	0.0469	
103 Butylcyclohexane	83	19.476	19.476	0.000	87	8374	0.0392	0.0470	
104 2,3-Dihydroindene	117	19.675	19.676	-0.001	93	8931	0.0392	0.0520	
105 1,2-Dichlorobenzene	146	19.680	19.680	0.000	73	5322	0.0392	0.0498	
106 n-Butylbenzene	91	19.798	19.797	0.001	95	9034	0.0392	0.0475	
107 Indene	116	19.804	19.805	-0.001	66	4541	0.0392	0.0461	
108 Undecane	57	20.083	20.083	0.000	94	7167	0.0392	0.0497	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.159	20.158	0.001	96	8332	0.0392	0.0521	
110 1,2-Dibromo-3-Chloropropan	157	20.272	20.271	0.001	61	1715	0.0392	0.0488	
111 1,2,4,5-Tetramethylbenzene	119	20.546	20.545	0.001	95	12171	0.0392	0.0622	
112 1,2,3,5-Tetramethylbenzene	119	20.605	20.603	0.002	92	6633	0.0392	0.0525	
113 1,2,3,4-Tetramethylbenzene	119	21.020	21.019	0.001	94	8743	0.0392	0.0561	
114 Dodecane	57	21.165	21.159	0.006	93	6654	0.0392	0.0519	
115 1,2,4-Trichlorobenzene	180	21.391	21.399	-0.008	85	1889	0.0392	0.0666	
116 Naphthalene	128	21.536	21.540	-0.004	96	4478	0.0392	0.0596	
117 Benzo(b)thiophene	134	21.638	21.633	0.005	95	2717	0.0392	0.1029	
118 Hexachlorobutadiene	225	21.713	21.713	0.000	94	5921	0.0392	0.0524	
119 1,2,3-Trichlorobenzene	180	21.773	21.772	0.001	88	1851	0.0392	0.0595	
120 2-Methylnaphthalene	142	22.311	22.314	-0.003	95	1614	0.1225	0.3289	
121 1-Methylnaphthalene	142	22.440	22.439	0.001	94	1445	0.1225	0.2805	
A 124 Toluene Range	1	14.274	(14.244-14.304)		0	22619	0.0392	0.0452	
S 126 Xylenes, Total	100				0		0.1176	0.1466	
S 127 1,2-Dichloroethene, Total	1				0		0.0784	0.0878	

Reagents:

40L12DNP_00005

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC01.D

Injection Date: 22-Jun-2016 15:49:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L1

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

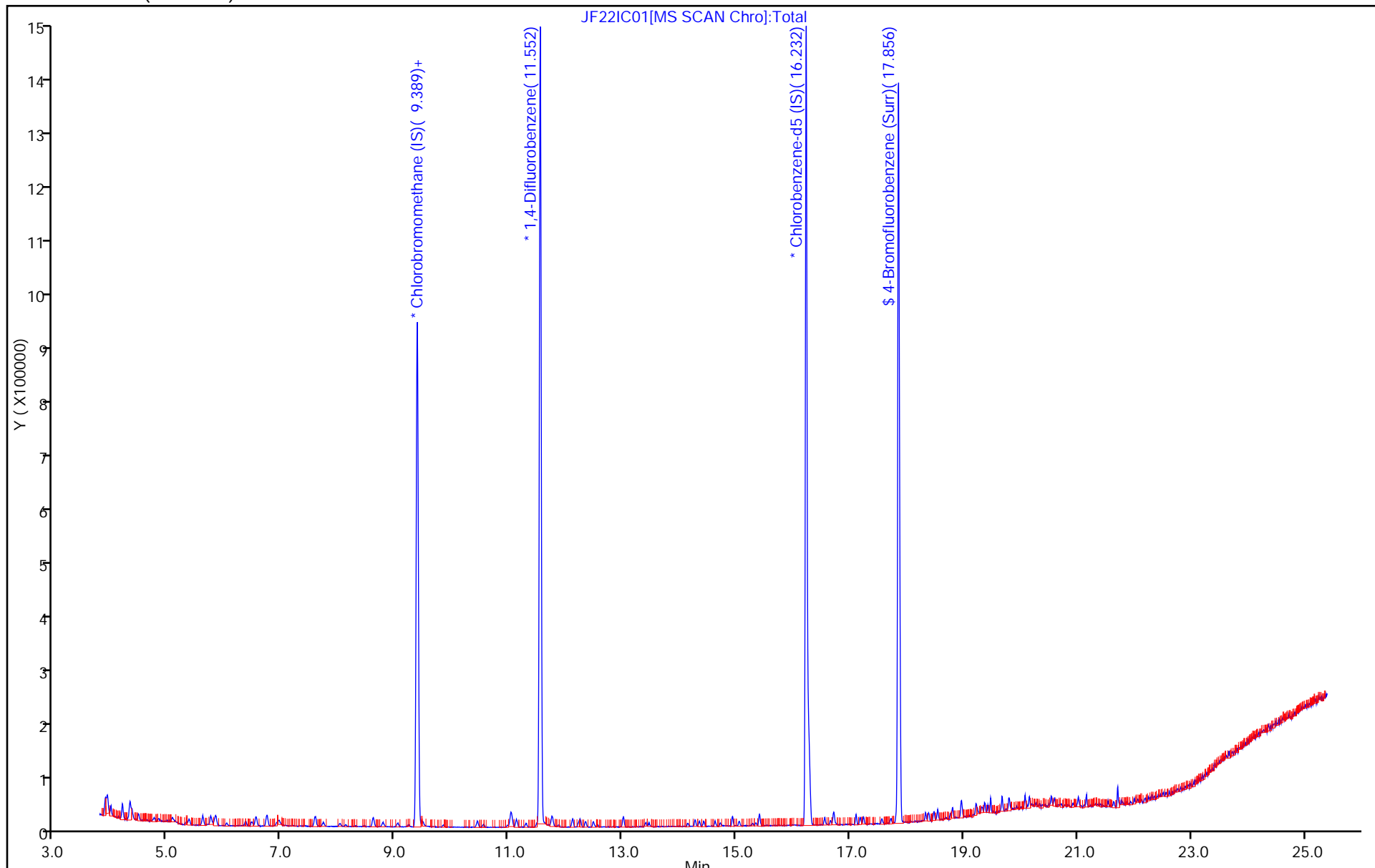
Dil. Factor: 1.0000

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\20160622-3070.b\JF22IC01.D

Injection Date: 22-Jun-2016 15:49:30

Instrument ID: MJ

Lims ID: IC L1

Client ID:

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 2

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

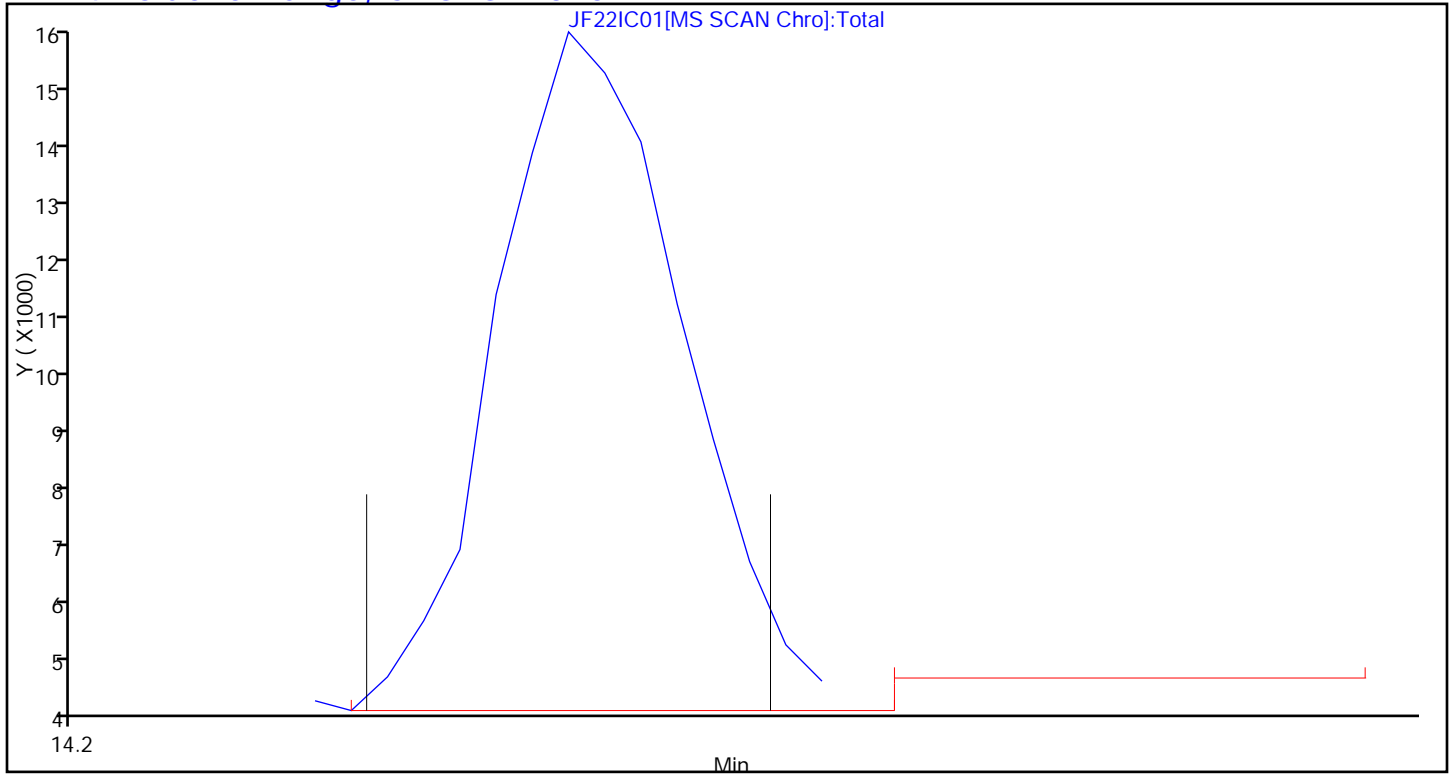
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC02.D
 Lims ID: IC L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 22-Jun-2016 16:44:30 ALS Bottle#: 7 Worklist Smp#: 3
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044591
 Misc. Info.: J062216,T15,,140-0003070-003
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Jun-2016 15:12:04 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: tajh

Date: 23-Jun-2016 07:41:42

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	9.387	9.389	-0.002	90	343006	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.550	11.552	-0.002	95	1509826	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.230	16.231	-0.001	87	1272601	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.855	17.854	0.001	91	729043	4.00	3.88	
6 Chlorodifluoromethane	67	3.927	3.925	0.002	96	3758	0.0784	0.0883	
7 Propene	41	3.943	3.939	0.004	96	10186	0.0784	0.1029	
8 Dichlorodifluoromethane	85	3.992	3.995	-0.003	99	32532	0.0784	0.0863	
9 Chloromethane	52	4.191	4.196	-0.005	52	2941	0.0784	0.1104	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.202	4.201	0.001	88	18190	0.0784	0.0869	
11 Acetaldehyde	44	4.363	4.364	-0.001	97	24483	0.3920	1.06	
12 Vinyl chloride	62	4.384	4.384	0.000	96	7861	0.0784	0.0871	
14 Butadiene	54	4.476	4.479	-0.003	74	5823	0.0784	0.0982	
13 Butane	43	4.481	4.480	0.001	80	10001	0.0784	0.1014	
15 Bromomethane	94	4.831	4.837	-0.006	97	8158	0.0784	0.0960	
16 Chloroethane	64	4.992	4.991	0.001	91	2955	0.0784	0.0912	
17 Ethanol	31	5.073	5.081	-0.008	94	12837	0.3920	0.9686	
18 Vinyl bromide	106	5.326	5.323	0.003	96	8179	0.0784	0.0814	
19 2-Methylbutane	43	5.374	5.372	0.002	88	11034	0.0784	0.0933	
20 Trichlorofluoromethane	101	5.611	5.611	0.000	98	29427	0.0784	0.0844	
21 Acrolein	56	5.622	5.623	-0.001	39	7980	0.0784	0.2770	
22 Acetonitrile	40	5.702	5.698	0.004	97	3596	0.0784	0.1139	
23 Acetone	58	5.751	5.747	0.004	99	23950	0.2352	0.6095	
24 Isopropyl alcohol	45	5.821	5.819	0.002	93	38136	0.2352	0.2912	
25 Pentane	72	5.848	5.845	0.003	96	1132	0.0784	0.0766	
26 Ethyl ether	31	6.031	6.027	0.004	91	6312	0.0784	0.0941	
27 1,1-Dichloroethene	96	6.369	6.368	0.001	93	8665	0.0784	0.0854	
28 2-Methyl-2-propanol	59	6.466	6.457	0.009	92	15888	0.0784	0.0889	
29 Acrylonitrile	53	6.477	6.479	-0.002	93	5664	0.0784	0.0942	
30 1,1,2-Trichloro-1,2,2-trif	101	6.547	6.548	-0.001	95	20438	0.0784	0.0862	
31 Methylene Chloride	84	6.741	6.739	0.002	97	12357	0.0784	0.1311	

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	6.751	6.753	-0.002	97	8939	0.0784	0.0988	
33 Carbon disulfide	76	6.913	6.916	-0.003	98	24918	0.0784	0.0865	
34 trans-1,2-Dichloroethene	96	7.591	7.587	0.004	94	8553	0.0784	0.0840	
35 2-Methylpentane	43	7.591	7.597	-0.006	94	18427	0.0784	0.0886	
36 Methyl tert-butyl ether	73	7.725	7.715	0.010	97	20924	0.0784	0.1000	
37 1,1-Dichloroethane	63	8.021	8.025	-0.004	99	18027	0.0784	0.0870	
38 Vinyl acetate	43	8.123	8.125	-0.002	100	16495	0.0784	0.0961	
39 2-Butanone (MEK)	72	8.602	8.597	0.005	86	3657	0.0784	0.1111	
40 Hexane	56	8.607	8.613	-0.006	73	7336	0.0784	0.0821	
41 Isopropyl ether	45	8.779	8.773	0.006	97	24409	0.0784	0.0942	
42 cis-1,2-Dichloroethene	96	9.043	9.044	-0.001	98	8942	0.0784	0.0881	
43 Ethyl acetate	43	9.231	9.224	0.007	98	12337	0.0784	0.0900	
44 Chloroform	83	9.393	9.395	-0.002	29	19881	0.0784	0.0866	
45 Tert-butyl ethyl ether	59	9.479	9.471	0.008	94	23991	0.0784	0.0936	
46 Tetrahydrofuran	42	9.834	9.821	0.013	92	6902	0.0784	0.0944	
47 1,1,1-Trichloroethane	97	10.442	10.443	-0.001	97	21626	0.0784	0.0814	
48 1,2-Dichloroethane	62	10.560	10.556	0.004	96	14298	0.0784	0.0867	
49 n-Butanol	31	10.969	10.957	0.012	78	1466	0.0784	0.0637	
50 Cyclohexane	69	11.033	11.031	0.002	68	3400	0.0784	0.0769	
51 Benzene	78	11.028	11.031	-0.003	97	24967	0.0784	0.0947	
52 Carbon tetrachloride	117	11.050	11.055	-0.005	97	22543	0.0784	0.0803	
53 2,3-Dimethylpentane	71	11.141	11.134	0.007	89	5072	0.0784	0.0836	
54 Thiophene	84	11.297	11.302	-0.005	98	12865	0.0784	0.0855	
55 Tert-amyl methyl ether	73	11.485	11.480	0.005	96	18473	0.0784	0.0944	
56 Isooctane	57	11.760	11.759	0.001	98	45542	0.0784	0.0917	
57 n-Heptane	71	12.120	12.122	-0.002	87	7734	0.0784	0.0889	
58 1,2-Dichloropropane	63	12.228	12.227	0.001	87	9425	0.0784	0.0886	
59 Trichloroethene	130	12.255	12.257	-0.002	92	11078	0.0784	0.0833	
60 Dibromomethane	93	12.341	12.348	-0.007	95	9666	0.0784	0.0821	
62 Dichlorobromomethane	83	12.481	12.487	-0.006	98	16234	0.0784	0.0756	
61 1,4-Dioxane	88	12.513	12.501	0.012	68	2200	0.0784	0.0700	
63 Methyl methacrylate	41	12.561	12.558	0.003	91	5990	0.0784	0.0737	
64 Methylcyclohexane	83	13.013	13.014	-0.001	90	17392	0.0784	0.0860	
65 4-Methyl-2-pentanone (MIBK)	43	13.406	13.399	0.007	95	15075	0.0784	0.0845	
66 cis-1,3-Dichloropropene	75	13.470	13.466	0.004	92	10749	0.0784	0.0774	
67 trans-1,3-Dichloropropene	75	14.148	14.149	-0.001	98	7861	0.0784	0.0755	
68 Toluene	91	14.272	14.277	-0.005	93	25117	0.0784	0.0927	
69 1,1,2-Trichloroethane	83	14.347	14.349	-0.002	91	6816	0.0784	0.0868	
70 2-Methylthiophene	97	14.428	14.429	-0.001	96	18043	0.0784	0.0799	
71 3-Methylthiophene	97	14.627	14.628	-0.001	98	17901	0.0784	0.0826	
72 2-Hexanone	58	14.724	14.717	0.007	96	5502	0.0784	0.0697	
73 n-Octane	85	14.934	14.931	0.003	90	7543	0.0784	0.0850	
74 Chlorodibromomethane	129	15.052	15.053	-0.001	96	13827	0.0784	0.0736	
75 Ethylene Dibromide	107	15.342	15.344	-0.002	95	11892	0.0784	0.0829	
76 Tetrachloroethene	129	15.407	15.408	-0.001	94	10964	0.0784	0.0863	
77 2,3-Dimethylheptane	43	16.268	16.269	-0.001	93	25203	0.0784	0.0997	
78 Chlorobenzene	112	16.278	16.279	-0.001	65	18658	0.0784	0.0916	
79 Ethylbenzene	91	16.558	16.557	0.001	99	28810	0.0784	0.0932	
80 2-Ethylthiophene	97	16.660	16.661	-0.001	98	20217	0.0784	0.0865	
81 m-Xylene & p-Xylene	91	16.714	16.715	-0.001	99	43588	0.1568	0.1817	
82 n-Nonane	57	17.112	17.109	0.003	88	14679	0.0784	0.0827	
83 Bromoform	173	17.177	17.179	-0.002	80	8464	0.0784	0.0599	

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	17.182	17.181	0.001	97	10805	0.0784	0.0732	
85 o-Xylene	91	17.241	17.242	-0.001	99	24427	0.0784	0.0948	
86 1,1,2,2-Tetrachloroethane	83	17.564	17.563	0.001	96	13340	0.0784	0.0813	
87 1,2,3-Trichloropropane	110	17.715	17.720	-0.005	95	3572	0.0784	0.0768	
88 Isopropylbenzene	105	17.812	17.815	-0.003	90	31762	0.0784	0.0980	
89 N-Propylbenzene	120	18.333	18.333	0.000	99	6367	0.0784	0.0783	
90 2-Chlorotoluene	126	18.382	18.384	-0.002	96	7267	0.0784	0.0846	
91 4-Ethyltoluene	105	18.479	18.477	0.002	98	22005	0.0784	0.0798	
92 1,3,5-Trimethylbenzene	120	18.549	18.545	0.004	92	12831	0.0784	0.0880	
93 Alpha Methyl Styrene	118	18.769	18.771	-0.002	88	5508	0.0784	0.0545	
94 n-Decane	57	18.807	18.805	0.002	89	15057	0.0784	0.0830	
95 tert-Butylbenzene	119	18.957	18.958	-0.001	90	28142	0.0784	0.0970	
96 1,2,4-Trimethylbenzene	105	18.974	18.971	0.003	96	21039	0.0784	0.0852	
97 sec-Butylbenzene	105	19.221	19.218	0.003	98	33229	0.0784	0.0923	
98 1,3-Dichlorobenzene	146	19.248	19.244	0.004	97	9415	0.0784	0.0746	
99 Benzyl chloride	91	19.318	19.315	0.003	96	7380	0.0784	0.0596	
100 1,4-Dichlorobenzene	146	19.329	19.329	0.000	91	7696	0.0784	0.0713	
101 4-Isopropyltoluene	119	19.372	19.373	-0.001	96	24457	0.0784	0.0827	
102 1,2,3-Trimethylbenzene	105	19.431	19.432	-0.001	98	17021	0.0784	0.0868	
103 Butylcyclohexane	83	19.479	19.476	0.003	89	19863	0.0784	0.0928	
104 2,3-Dihydroindene	117	19.678	19.676	0.002	92	17042	0.0784	0.0826	
105 1,2-Dichlorobenzene	146	19.678	19.680	-0.002	73	9676	0.0784	0.0754	
106 n-Butylbenzene	91	19.797	19.797	0.000	97	16960	0.0784	0.0743	
107 Indene	116	19.802	19.805	-0.003	50	7619	0.0784	0.0644	
108 Undecane	57	20.082	20.083	-0.001	92	13304	0.0784	0.0768	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.157	20.158	-0.001	97	14022	0.0784	0.0729	
110 1,2-Dibromo-3-Chloropropan	157	20.275	20.271	0.004	87	2060	0.0784	0.0488	
111 1,2,4,5-Tetramethylbenzene	119	20.544	20.545	-0.001	96	17750	0.0784	0.0755	
112 1,2,3,5-Tetramethylbenzene	119	20.604	20.603	0.001	93	11637	0.0784	0.0767	
113 1,2,3,4-Tetramethylbenzene	119	21.018	21.019	-0.001	96	14446	0.0784	0.0772	
114 Dodecane	57	21.158	21.159	-0.001	94	10958	0.0784	0.0712	
115 1,2,4-Trichlorobenzene	180	21.400	21.399	0.001	89	2368	0.0784	0.0695	
116 Naphthalene	128	21.540	21.540	0.000	96	4935	0.0784	0.0546	
117 Benzo(b)thiophene	134	21.636	21.633	0.003	94	2326	0.0784	0.0734	
118 Hexachlorobutadiene	225	21.712	21.713	-0.001	95	12392	0.0784	0.0913	
119 1,2,3-Trichlorobenzene	180	21.771	21.772	-0.001	92	2292	0.0784	0.0613	
120 2-Methylnaphthalene	142	22.314	22.314	0.000	94	1420	0.2450	0.2409	
121 1-Methylnaphthalene	142	22.438	22.439	-0.001	95	1563	0.2450	0.2525	
A 124 Toluene Range	1	14.272	(14.242-14.302)		0	52921	0.0784	0.0880	
S 126 Xylenes, Total	100				0		0.2352	0.2765	
S 127 1,2-Dichloroethene, Total	1				0		0.1568	0.1721	

Reagents:

40L12DNP_00005

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC02.D

Injection Date: 22-Jun-2016 16:44:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L2

Worklist Smp#: 3

Client ID:

Purge Vol: 500.000 mL

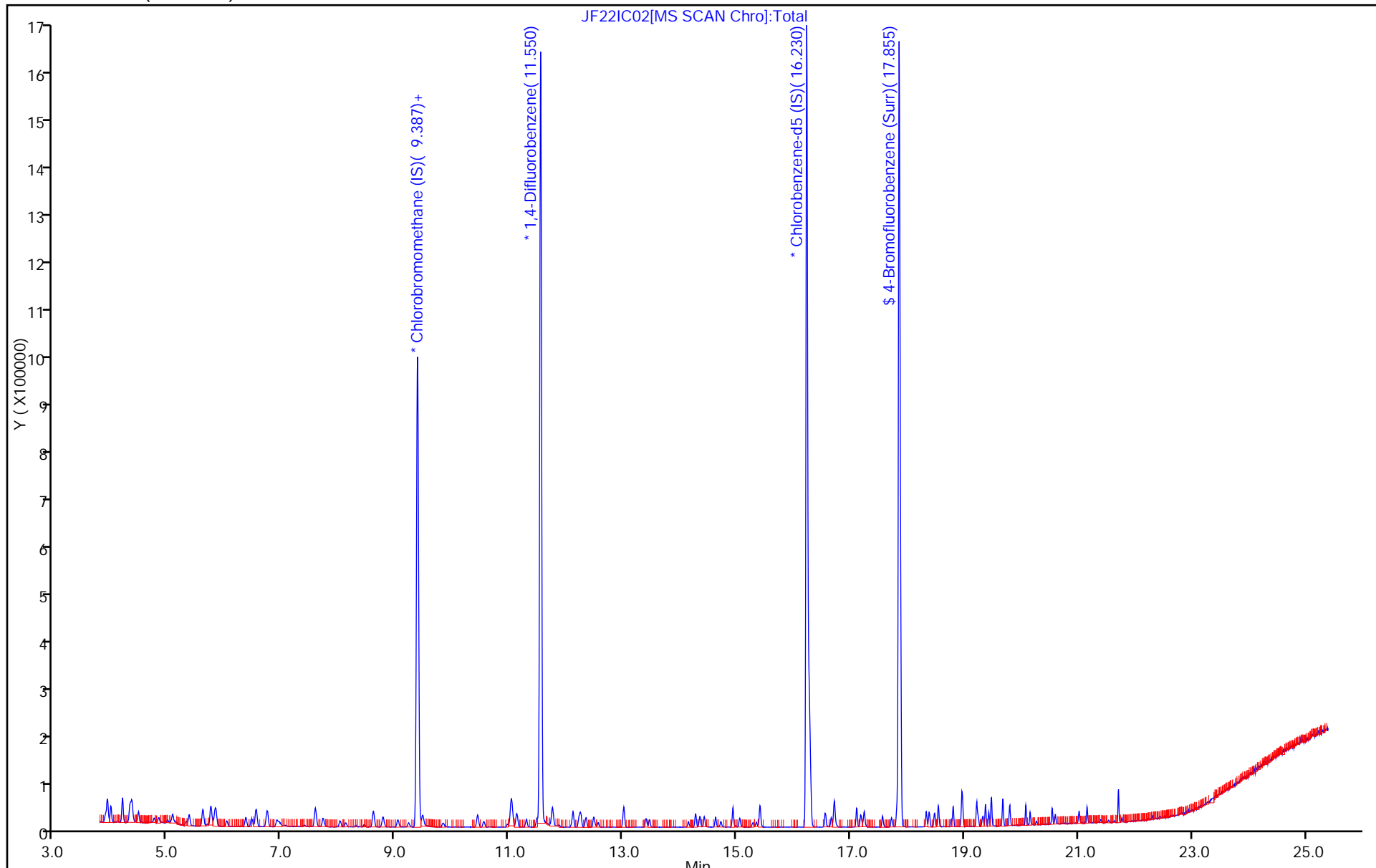
Dil. Factor: 1.0000

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\20160622-3070.b\JF22IC02.D

Injection Date: 22-Jun-2016 16:44:30

Instrument ID: MJ

Lims ID: IC L2

Client ID:

Operator ID: 7126

ALS Bottle#: 7

Worklist Smp#: 3

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

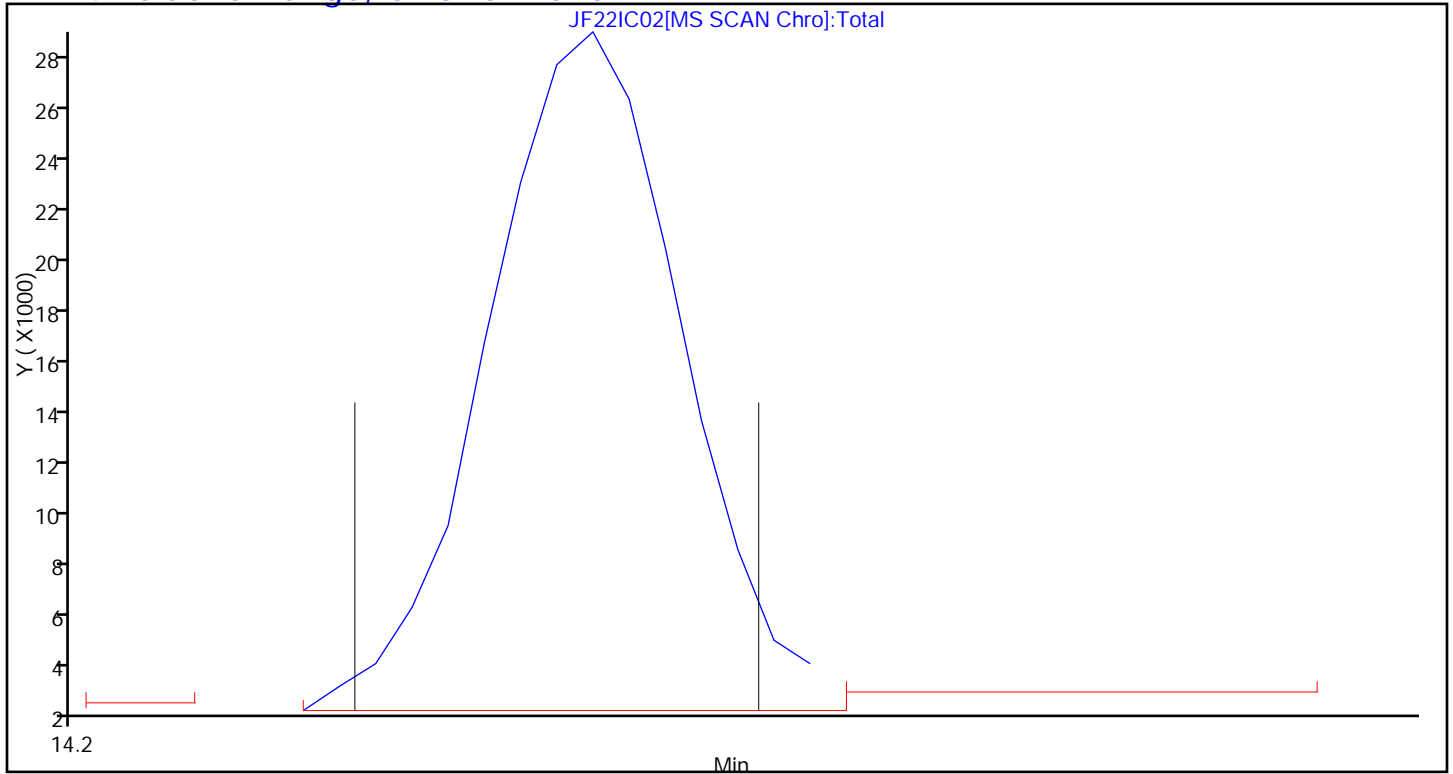
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC03.D
 Lims ID: IC L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 22-Jun-2016 17:38:30 ALS Bottle#: 8 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044592
 Misc. Info.: J062216,T15,,140-0003070-004
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Jun-2016 15:12:09 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: tajh

Date: 23-Jun-2016 07:42:49

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	9.389	9.389	0.000	90	319566	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.551	11.552	-0.001	95	1381724	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.231	16.231	0.000	89	1128997	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.856	17.854	0.002	91	640074	4.00	3.84	
6 Chlorodifluoromethane	67	3.929	3.925	0.004	95	6560	0.1587	0.1654	
7 Propene	41	3.939	3.939	0.000	98	16876	0.1587	0.1830	
8 Dichlorodifluoromethane	85	3.998	3.995	0.003	99	59316	0.1587	0.1689	
9 Chloromethane	52	4.203	4.196	0.007	52	5046	0.1587	0.2033	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.203	4.201	0.002	88	32599	0.1587	0.1672	
11 Acetaldehyde	44	4.370	4.364	0.006	98	43064	0.7933	2.00	
12 Vinyl chloride	62	4.386	4.384	0.002	97	14061	0.1587	0.1671	
14 Butadiene	54	4.483	4.479	0.004	71	9528	0.1587	0.1725	
13 Butane	43	4.483	4.480	0.003	82	17623	0.1587	0.1919	
15 Bromomethane	94	4.838	4.837	0.001	95	13738	0.1587	0.1735	
16 Chloroethane	64	4.994	4.991	0.003	94	5153	0.1587	0.1708	
17 Ethanol	31	5.080	5.081	-0.001	93	12374	0.7933	1.00	
18 Vinyl bromide	106	5.322	5.323	-0.001	98	15295	0.1587	0.1634	
19 2-Methylbutane	43	5.370	5.372	-0.002	88	19045	0.1587	0.1728	
20 Trichlorofluoromethane	101	5.612	5.611	0.001	99	54177	0.1587	0.1667	
21 Acrolein	56	5.623	5.623	0.000	89	5654	0.1587	0.2107	
22 Acetonitrile	40	5.693	5.698	-0.005	99	5491	0.1587	0.1866	
23 Acetone	58	5.758	5.747	0.011	98	41326	0.4760	1.13	
24 Isopropyl alcohol	45	5.817	5.819	-0.002	96	66795	0.4760	0.5475	
25 Pentane	72	5.844	5.845	-0.001	95	2365	0.1587	0.1719	
26 Ethyl ether	31	6.032	6.027	0.005	92	10577	0.1587	0.1692	
27 1,1-Dichloroethene	96	6.371	6.368	0.003	93	14550	0.1587	0.1539	
28 2-Methyl-2-propanol	59	6.462	6.457	0.005	93	27692	0.1587	0.1663	
29 Acrylonitrile	53	6.478	6.479	-0.001	94	8920	0.1587	0.1593	
30 1,1,2-Trichloro-1,2,2-trif	101	6.548	6.548	0.000	96	36165	0.1587	0.1637	
31 Methylene Chloride	84	6.737	6.739	-0.002	98	17691	0.1587	0.2014	

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	6.753	6.753	0.000	95	13881	0.1587	0.1647	
33 Carbon disulfide	76	6.920	6.916	0.004	98	43276	0.1587	0.1613	
34 trans-1,2-Dichloroethene	96	7.587	7.587	0.000	94	15820	0.1587	0.1667	
35 2-Methylpentane	43	7.603	7.597	0.006	93	33213	0.1587	0.1715	
36 Methyl tert-butyl ether	73	7.732	7.715	0.017	96	31229	0.1587	0.1602	
37 1,1-Dichloroethane	63	8.022	8.025	-0.003	99	31797	0.1587	0.1647	
38 Vinyl acetate	43	8.125	8.125	-0.001	100	24129	0.1587	0.1510	
39 2-Butanone (MEK)	72	8.603	8.597	0.006	86	6456	0.1587	0.2105	
40 Hexane	56	8.614	8.613	0.001	78	13952	0.1587	0.1675	
41 Isopropyl ether	45	8.775	8.773	0.002	96	38161	0.1587	0.1581	
42 cis-1,2-Dichloroethene	96	9.044	9.044	0.000	98	15396	0.1587	0.1629	
43 Ethyl acetate	43	9.222	9.224	-0.002	98	19949	0.1587	0.1561	
44 Chloroform	83	9.394	9.395	-0.001	41	36514	0.1587	0.1707	
45 Tert-butyl ethyl ether	59	9.469	9.471	-0.002	95	37259	0.1587	0.1560	
46 Tetrahydrofuran	42	9.835	9.821	0.014	92	10627	0.1587	0.1560	
47 1,1,1-Trichloroethane	97	10.443	10.443	0.000	95	41035	0.1587	0.1659	
48 1,2-Dichloroethane	62	10.556	10.556	0.000	97	26030	0.1587	0.1725	
49 n-Butanol	31	10.959	10.957	0.002	84	2938	0.1587	0.1395	
50 Cyclohexane	69	11.035	11.031	0.004	71	6492	0.1587	0.1605	
51 Benzene	78	11.029	11.031	-0.002	97	43574	0.1587	0.1806	
52 Carbon tetrachloride	117	11.056	11.055	0.001	97	38903	0.1587	0.1515	
53 2,3-Dimethylpentane	71	11.132	11.134	-0.002	89	9283	0.1587	0.1673	
54 Thiophene	84	11.304	11.302	0.002	99	22661	0.1587	0.1645	
55 Tert-amyl methyl ether	73	11.487	11.480	0.007	95	28733	0.1587	0.1655	
56 Isooctane	57	11.761	11.759	0.002	98	80847	0.1587	0.1779	
57 n-Heptane	71	12.121	12.122	-0.001	90	13718	0.1587	0.1722	
58 1,2-Dichloropropane	63	12.229	12.227	0.002	89	15859	0.1587	0.1630	
59 Trichloroethene	130	12.256	12.257	-0.001	95	20459	0.1587	0.1681	
60 Dibromomethane	93	12.353	12.348	0.005	94	17561	0.1587	0.1630	
62 Dichlorobromomethane	83	12.487	12.487	0.000	99	30563	0.1587	0.1556	
61 1,4-Dioxane	88	12.514	12.501	0.013	87	4364	0.1587	0.1518	
63 Methyl methacrylate	41	12.563	12.558	0.005	90	9937	0.1587	0.1337	
64 Methylcyclohexane	83	13.014	13.014	0.000	92	31688	0.1587	0.1712	
65 4-Methyl-2-pentanone (MIBK)	43	13.402	13.399	0.003	96	36781	0.1587	0.2254	
66 cis-1,3-Dichloropropene	75	13.466	13.466	0.000	94	18741	0.1587	0.1475	
67 trans-1,3-Dichloropropene	75	14.150	14.149	0.001	97	13213	0.1587	0.1431	
68 Toluene	91	14.279	14.277	0.002	93	40141	0.1587	0.1670	
69 1,1,2-Trichloroethane	83	14.349	14.349	0.000	97	11494	0.1587	0.1650	
70 2-Methylthiophene	97	14.429	14.429	0.000	97	34902	0.1587	0.1742	
71 3-Methylthiophene	97	14.628	14.628	0.000	99	31597	0.1587	0.1643	
72 2-Hexanone	58	14.720	14.717	0.003	96	9927	0.1587	0.1418	
73 n-Octane	85	14.930	14.931	-0.001	91	13336	0.1587	0.1694	
74 Chlorodibromomethane	129	15.053	15.053	0.000	97	25651	0.1587	0.1539	
75 Ethylene Dibromide	107	15.349	15.344	0.005	97	20400	0.1587	0.1603	
76 Tetrachloroethene	129	15.408	15.408	0.000	94	19514	0.1587	0.1732	
77 2,3-Dimethylheptane	43	16.269	16.269	0.000	95	43660	0.1587	0.1948	
78 Chlorobenzene	112	16.280	16.279	0.001	78	31203	0.1587	0.1726	
79 Ethylbenzene	91	16.560	16.557	0.003	99	43894	0.1587	0.1601	
80 2-Ethylthiophene	97	16.662	16.661	0.001	96	32238	0.1587	0.1556	
81 m-Xylene & p-Xylene	91	16.716	16.715	0.001	99	68375	0.3173	0.3213	
82 n-Nonane	57	17.108	17.109	-0.001	88	24448	0.1587	0.1552	
83 Bromoform	173	17.178	17.179	-0.001	85	16198	0.1587	0.1292	

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	17.184	17.181	0.003	98	17123	0.1587	0.1308	
85 o-Xylene	91	17.243	17.242	0.001	98	37556	0.1587	0.1643	
86 1,1,2,2-Tetrachloroethane	83	17.565	17.563	0.002	95	21810	0.1587	0.1498	
87 1,2,3-Trichloropropane	110	17.721	17.720	0.001	96	6337	0.1587	0.1535	
88 Isopropylbenzene	105	17.818	17.815	0.003	92	47917	0.1587	0.1666	
89 N-Propylbenzene	120	18.335	18.333	0.002	99	10769	0.1587	0.1492	
90 2-Chlorotoluene	126	18.389	18.384	0.005	97	11641	0.1587	0.1528	
91 4-Ethyltoluene	105	18.475	18.477	-0.002	98	36155	0.1587	0.1478	
92 1,3,5-Trimethylbenzene	120	18.545	18.545	0.000	92	20363	0.1587	0.1573	
93 Alpha Methyl Styrene	118	18.776	18.771	0.005	86	10227	0.1587	0.1140	
94 n-Decane	57	18.808	18.805	0.003	89	25509	0.1587	0.1584	
95 tert-Butylbenzene	119	18.959	18.958	0.001	94	42532	0.1587	0.1653	
96 1,2,4-Trimethylbenzene	105	18.975	18.971	0.004	96	33604	0.1587	0.1534	
97 sec-Butylbenzene	105	19.217	19.218	-0.001	98	52355	0.1587	0.1640	
98 1,3-Dichlorobenzene	146	19.244	19.244	0.000	97	15837	0.1587	0.1415	
99 Benzyl chloride	91	19.314	19.315	-0.001	96	12711	0.1587	0.1157	
100 1,4-Dichlorobenzene	146	19.330	19.329	0.001	94	12819	0.1587	0.1339	
101 4-Isopropyltoluene	119	19.373	19.373	0.000	96	40217	0.1587	0.1533	
102 1,2,3-Trimethylbenzene	105	19.438	19.432	0.006	97	26836	0.1587	0.1542	
103 Butylcyclohexane	83	19.475	19.476	-0.001	89	30267	0.1587	0.1594	
104 2,3-Dihydroindene	117	19.674	19.676	-0.002	94	26958	0.1587	0.1472	
105 1,2-Dichlorobenzene	146	19.680	19.680	0.000	96	16895	0.1587	0.1484	
106 n-Butylbenzene	91	19.798	19.797	0.001	97	30924	0.1587	0.1527	
107 Indene	116	19.803	19.805	-0.002	93	13681	0.1587	0.1302	
108 Undecane	57	20.083	20.083	0.000	92	25243	0.1587	0.1643	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.158	20.158	0.000	97	25618	0.1587	0.1502	
110 1,2-Dibromo-3-Chloropropan	157	20.271	20.271	0.000	88	4107	0.1587	0.1097	
111 1,2,4,5-Tetramethylbenzene	119	20.546	20.545	0.001	96	32467	0.1587	0.1557	
112 1,2,3,5-Tetramethylbenzene	119	20.605	20.603	0.002	95	21367	0.1587	0.1587	
113 1,2,3,4-Tetramethylbenzene	119	21.019	21.019	0.000	97	26023	0.1587	0.1568	
114 Dodecane	57	21.159	21.159	0.000	97	24486	0.1587	0.1792	
115 1,2,4-Trichlorobenzene	180	21.401	21.399	0.002	91	4052	0.1587	0.1341	
116 Naphthalene	128	21.541	21.540	0.001	97	9172	0.1587	0.1145	
117 Benzo(b)thiophene	134	21.632	21.633	-0.001	96	4302	0.1587	0.1529	
118 Hexachlorobutadiene	225	21.713	21.713	0.000	94	20717	0.1587	0.1721	
119 1,2,3-Trichlorobenzene	180	21.778	21.772	0.006	94	4585	0.1587	0.1383	
120 2-Methylnaphthalene	142	22.316	22.314	0.002	95	2771	0.4958	0.5299	
121 1-Methylnaphthalene	142	22.439	22.439	0.000	93	2867	0.4958	0.5222	
A 124 Toluene Range	1	14.279	(14.249-14.309)		0	91878	0.1587	0.1722	
S 126 Xylenes, Total	100				0		0.4760	0.4856	
S 127 1,2-Dichloroethene, Total	1				0		0.3173	0.3296	

Reagents:

40L3DNP_00006

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC03.D

Injection Date: 22-Jun-2016 17:38:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L3

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

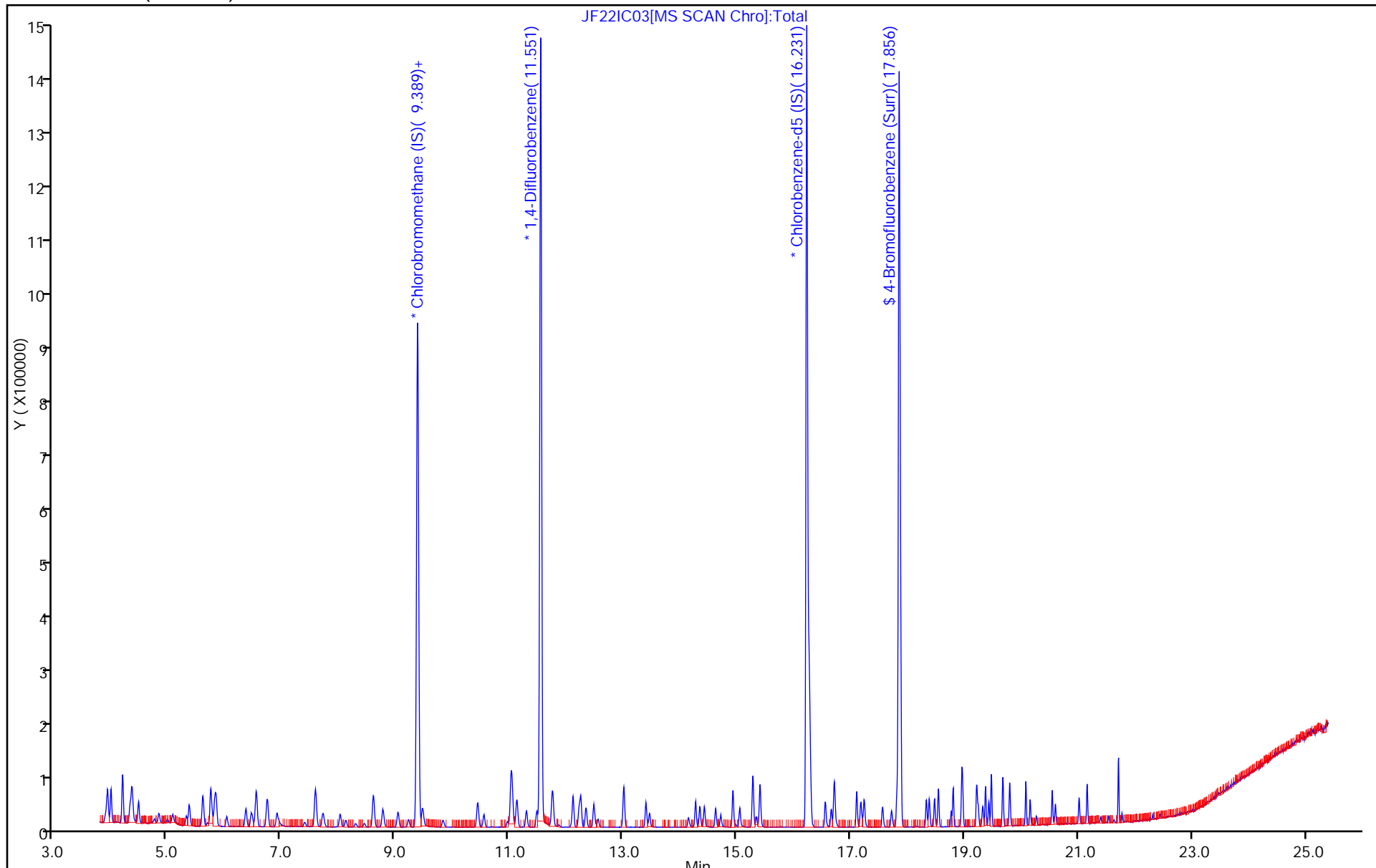
Dil. Factor: 1.0000

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\20160622-3070.b\JF22IC03.D

Injection Date: 22-Jun-2016 17:38:30

Instrument ID: MJ

Lims ID: IC L3

Client ID:

Operator ID: 7126

ALS Bottle#: 8

Worklist Smp#: 4

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

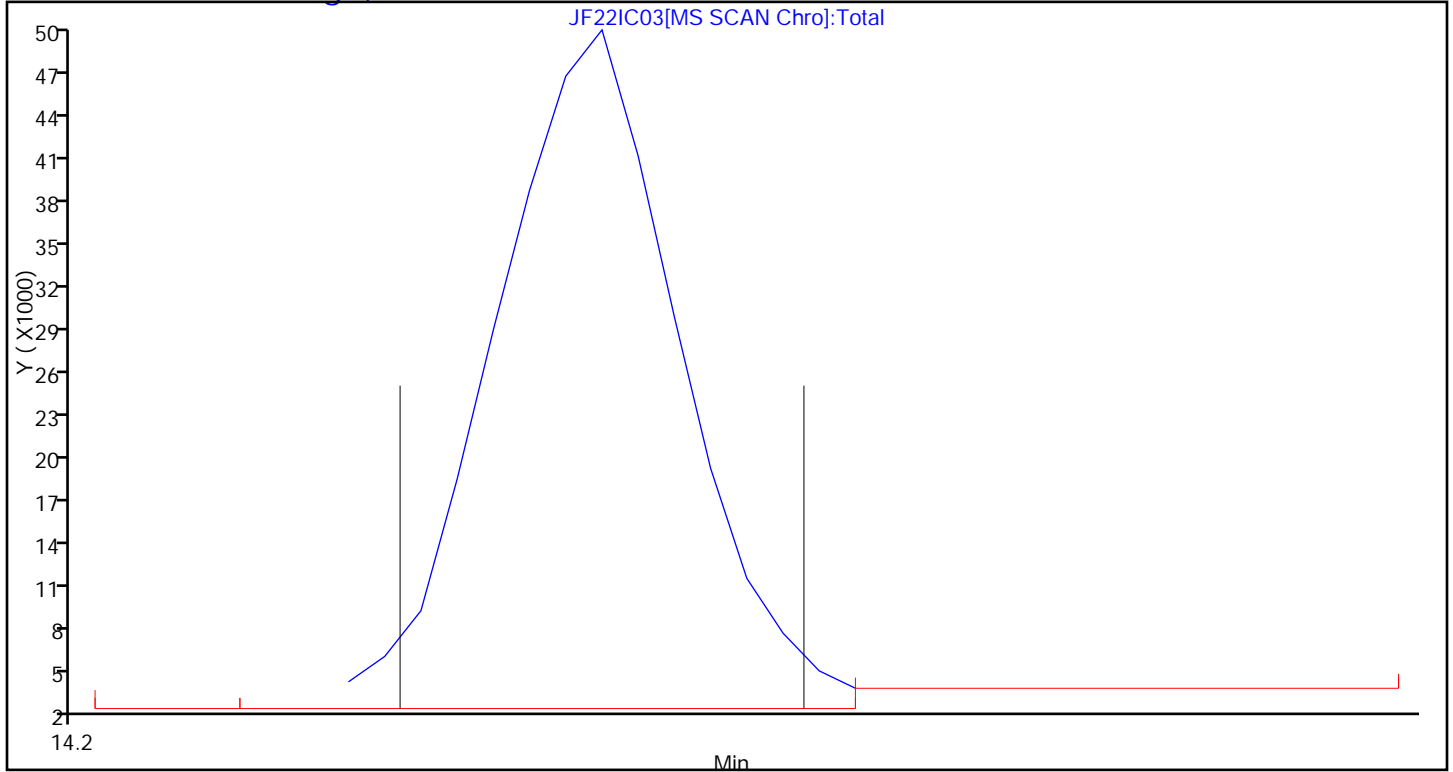
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 124 Toluene Range, CAS: STL02011



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC04.D
 Lims ID: IC L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 22-Jun-2016 18:32:30 ALS Bottle#: 9 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044590
 Misc. Info.: J062216,T15,,140-0003070-005
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Jun-2016 15:12:14 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: barlozhetskayaa

Date: 22-Jun-2016 20:12:09

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	9.388	9.389	-0.001	93	305958	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.550	11.552	-0.002	96	1294497	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.231	16.231	0.000	88	1071346	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.855	17.854	0.001	91	601768	4.00	3.80	
6 Chlorodifluoromethane	67	3.922	3.925	-0.003	95	15197	0.4000	0.4002	
7 Propene	41	3.938	3.939	-0.001	98	38620	0.4000	0.4374	
8 Dichlorodifluoromethane	85	3.998	3.995	0.003	99	140732	0.4000	0.4185	
9 Chloromethane	52	4.197	4.196	0.001	55	10913	0.4000	0.4593	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.202	4.201	0.001	88	76736	0.4000	0.4112	
11 Acetaldehyde	44	4.369	4.364	0.005	97	60801	2.00	2.95	
12 Vinyl chloride	62	4.385	4.384	0.001	98	33657	0.4000	0.4179	
14 Butadiene	54	4.476	4.479	-0.003	72	23616	0.4000	0.4467	
13 Butane	43	4.482	4.480	0.002	82	40990	0.4000	0.4661	
15 Bromomethane	94	4.837	4.837	0.000	97	30969	0.4000	0.4086	
16 Chloroethane	64	4.987	4.991	-0.004	96	11567	0.4000	0.4004	
17 Ethanol	31	5.079	5.081	-0.002	92	24561	2.00	2.08	
18 Vinyl bromide	106	5.321	5.323	-0.002	98	35692	0.4000	0.3983	
19 2-Methylbutane	43	5.375	5.372	0.003	90	45429	0.4000	0.4306	
20 Trichlorofluoromethane	101	5.611	5.611	0.000	99	127417	0.4000	0.4095	
21 Acrolein	56	5.622	5.623	-0.001	89	10026	0.4000	0.3902	
22 Acetonitrile	40	5.692	5.698	-0.006	97	10126	0.4000	0.3595	
23 Acetone	58	5.746	5.747	-0.001	98	56991	1.20	1.63	
24 Isopropyl alcohol	45	5.816	5.819	-0.003	91	146107	1.20	1.25	
25 Pentane	72	5.843	5.845	-0.002	98	5773	0.4000	0.4382	
26 Ethyl ether	31	6.031	6.027	0.004	88	22404	0.4000	0.3744	
27 1,1-Dichloroethene	96	6.365	6.368	-0.003	93	35955	0.4000	0.3972	
28 2-Methyl-2-propanol	59	6.451	6.457	-0.006	93	62382	0.4000	0.3913	
29 Acrylonitrile	53	6.478	6.479	-0.001	91	18989	0.4000	0.3541	
30 1,1,2-Trichloro-1,2,2-trif	101	6.548	6.548	0.000	96	86503	0.4000	0.4090	
31 Methylene Chloride	84	6.741	6.739	0.002	98	36114	0.4000	0.4295	

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	6.752	6.753	-0.001	95	32947	0.4000	0.4083	
33 Carbon disulfide	76	6.913	6.916	-0.003	99	101542	0.4000	0.3953	
34 trans-1,2-Dichloroethene	96	7.586	7.587	-0.001	93	36395	0.4000	0.4006	
35 2-Methylpentane	43	7.597	7.597	-0.001	93	77661	0.4000	0.4188	
36 Methyl tert-butyl ether	73	7.715	7.715	0.000	97	69473	0.4000	0.3722	
37 1,1-Dichloroethane	63	8.027	8.025	0.002	99	76286	0.4000	0.4127	
38 Vinyl acetate	43	8.124	8.125	-0.001	100	53117	0.4000	0.3471	
39 2-Butanone (MEK)	72	8.597	8.597	0.000	86	12150	0.4000	0.4137	
40 Hexane	56	8.613	8.613	0.000	85	33402	0.4000	0.4189	
41 Isopropyl ether	45	8.775	8.773	0.002	97	85916	0.4000	0.3718	
42 cis-1,2-Dichloroethene	96	9.044	9.044	0.000	99	36349	0.4000	0.4017	
43 Ethyl acetate	43	9.226	9.224	0.002	99	46813	0.4000	0.3827	
44 Chloroform	83	9.393	9.395	-0.002	94	85067	0.4000	0.4153	
45 Tert-butyl ethyl ether	59	9.474	9.471	0.003	95	82013	0.4000	0.3586	
46 Tetrahydrofuran	42	9.829	9.821	0.008	94	24321	0.4000	0.3729	
47 1,1,1-Trichloroethane	97	10.442	10.443	-0.001	96	98335	0.4000	0.4151	
48 1,2-Dichloroethane	62	10.555	10.556	-0.001	98	59968	0.4000	0.4241	
49 n-Butanol	31	10.959	10.957	0.002	80	7131	0.4000	0.3614	
50 Cyclohexane	69	11.029	11.031	-0.002	73	16308	0.4000	0.4304	
51 Benzene	78	11.034	11.031	0.003	97	97218	0.4000	0.4302	
52 Carbon tetrachloride	117	11.055	11.055	0.000	97	104966	0.4000	0.4363	
53 2,3-Dimethylpentane	71	11.136	11.134	0.002	88	22790	0.4000	0.4384	
54 Thiophene	84	11.298	11.302	-0.004	100	52829	0.4000	0.4093	
55 Tert-amyl methyl ether	73	11.480	11.480	0.000	96	64540	0.4000	0.3918	
56 Isooctane	57	11.760	11.759	0.001	98	186825	0.4000	0.4389	
57 n-Heptane	71	12.121	12.122	-0.001	89	31573	0.4000	0.4231	
58 1,2-Dichloropropane	63	12.223	12.227	-0.004	89	36991	0.4000	0.4057	
59 Trichloroethene	130	12.255	12.257	-0.002	94	45929	0.4000	0.4028	
60 Dibromomethane	93	12.347	12.348	-0.001	93	42461	0.4000	0.4206	
62 Dichlorobromomethane	83	12.486	12.487	-0.001	99	72436	0.4000	0.3936	
61 1,4-Dioxane	88	12.503	12.501	0.002	78	10391	0.4000	0.3859	
63 Methyl methacrylate	41	12.551	12.558	-0.007	88	41235	0.4000	0.5921	
64 Methylcyclohexane	83	13.014	13.014	0.000	92	74236	0.4000	0.4282	
65 4-Methyl-2-pentanone (MIBK)	43	13.401	13.399	0.002	96	54942	0.4000	0.3594	
66 cis-1,3-Dichloropropene	75	13.465	13.466	-0.001	94	43317	0.4000	0.3639	
67 trans-1,3-Dichloropropene	75	14.149	14.149	0.000	97	28773	0.4000	0.3284	
68 Toluene	91	14.278	14.277	0.001	93	90623	0.4000	0.3972	
69 1,1,2-Trichloroethane	83	14.348	14.349	-0.001	98	26618	0.4000	0.4028	
70 2-Methylthiophene	97	14.428	14.429	-0.001	97	73492	0.4000	0.3864	
71 3-Methylthiophene	97	14.627	14.628	-0.001	99	73462	0.4000	0.4026	
72 2-Hexanone	58	14.719	14.717	0.002	95	25630	0.4000	0.3857	
73 n-Octane	85	14.934	14.931	0.003	91	30969	0.4000	0.4145	
74 Chlorodibromomethane	129	15.052	15.053	-0.001	98	61819	0.4000	0.3908	
75 Ethylene Dibromide	107	15.343	15.344	-0.001	97	46147	0.4000	0.3821	
76 Tetrachloroethene	129	15.407	15.408	-0.001	94	45924	0.4000	0.4296	
77 2,3-Dimethylheptane	43	16.268	16.269	-0.001	95	97584	0.4000	0.4588	
78 Chlorobenzene	112	16.279	16.279	0.000	94	68884	0.4000	0.4016	
79 Ethylbenzene	91	16.553	16.557	-0.004	99	96127	0.4000	0.3695	
80 2-Ethylthiophene	97	16.661	16.661	0.000	98	71448	0.4000	0.3633	
81 m-Xylene & p-Xylene	91	16.715	16.715	0.000	99	149302	0.8000	0.7394	
82 n-Nonane	57	17.107	17.109	-0.002	88	57661	0.4000	0.3858	
83 Bromoform	173	17.183	17.179	0.004	92	38261	0.4000	0.3216	

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	17.183	17.181	0.002	99	40993	0.4000	0.3300	
85 o-Xylene	91	17.242	17.242	0.000	97	82015	0.4000	0.3781	
86 1,1,2,2-Tetrachloroethane	83	17.565	17.563	0.002	96	51611	0.4000	0.3735	
87 1,2,3-Trichloropropane	110	17.721	17.720	0.001	97	14455	0.4000	0.3690	
88 Isopropylbenzene	105	17.812	17.815	-0.003	93	105917	0.4000	0.3882	
89 N-Propylbenzene	120	18.334	18.333	0.001	99	23208	0.4000	0.3389	
90 2-Chlorotoluene	126	18.382	18.384	-0.002	97	26016	0.4000	0.3599	
91 4-Ethyltoluene	105	18.479	18.477	0.002	98	83203	0.4000	0.3585	
92 1,3,5-Trimethylbenzene	120	18.544	18.545	-0.001	92	45264	0.4000	0.3686	
93 Alpha Methyl Styrene	118	18.770	18.771	-0.001	84	23661	0.4000	0.2779	
94 n-Decane	57	18.802	18.805	-0.003	89	58146	0.4000	0.3806	
95 tert-Butylbenzene	119	18.958	18.958	0.000	91	96405	0.4000	0.3947	
96 1,2,4-Trimethylbenzene	105	18.969	18.971	-0.002	96	78046	0.4000	0.3754	
97 sec-Butylbenzene	105	19.216	19.218	-0.002	98	117070	0.4000	0.3865	
98 1,3-Dichlorobenzene	146	19.243	19.244	-0.001	98	35808	0.4000	0.3372	
99 Benzyl chloride	91	19.313	19.315	-0.002	97	28941	0.4000	0.2775	
100 1,4-Dichlorobenzene	146	19.329	19.329	0.000	94	29631	0.4000	0.3261	
101 4-Isopropyltoluene	119	19.372	19.373	-0.001	96	92356	0.4000	0.3709	
102 1,2,3-Trimethylbenzene	105	19.431	19.432	-0.001	99	62027	0.4000	0.3756	
103 Butylcyclohexane	83	19.474	19.476	-0.002	88	68748	0.4000	0.3815	
104 2,3-Dihydroindene	117	19.673	19.676	-0.003	94	62168	0.4000	0.3577	
105 1,2-Dichlorobenzene	146	19.679	19.680	-0.001	96	36785	0.4000	0.3404	
106 n-Butylbenzene	91	19.797	19.797	0.000	98	67262	0.4000	0.3499	
107 Indene	116	19.808	19.805	0.003	91	31634	0.4000	0.3174	
108 Undecane	57	20.082	20.083	-0.001	93	54486	0.4000	0.3738	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.158	20.158	0.000	98	55179	0.4000	0.3410	
110 1,2-Dibromo-3-Chloropropan	157	20.271	20.271	0.000	93	9842	0.4000	0.2770	
111 1,2,4,5-Tetramethylbenzene	119	20.545	20.545	0.000	96	68705	0.4000	0.3471	
112 1,2,3,5-Tetramethylbenzene	119	20.599	20.603	-0.004	95	44578	0.4000	0.3490	
113 1,2,3,4-Tetramethylbenzene	119	21.018	21.019	-0.001	97	53749	0.4000	0.3412	
114 Dodecane	57	21.158	21.159	-0.001	96	46563	0.4000	0.3592	
115 1,2,4-Trichlorobenzene	180	21.400	21.399	0.001	93	8167	0.4000	0.2849	
116 Naphthalene	128	21.540	21.540	0.000	98	18754	0.4000	0.2466	
117 Benzo(b)thiophene	134	21.632	21.633	-0.001	97	7658	0.4000	0.2869	
118 Hexachlorobutadiene	225	21.712	21.713	-0.001	95	40131	0.4000	0.3514	
119 1,2,3-Trichlorobenzene	180	21.771	21.772	-0.001	94	8296	0.4000	0.2636	
120 2-Methylnaphthalene	142	22.315	22.314	0.001	97	3375	1.25	0.6801	
121 1-Methylnaphthalene	142	22.438	22.439	-0.001	95	3284	1.25	0.6303	
A 124 Toluene Range	1	14.278	(14.248-14.308)		0	201557	0.4000	0.3981	
A 125 C8 Range	1	14.919	(14.901-14.937)		0	300990	0.4000	0.4518	
S 126 Xylenes, Total	100				0		1.20	1.12	
S 127 1,2-Dichloroethene, Total	1				0		0.8000	0.8023	

Reagents:

40L4DNP_00005

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC04.D

Injection Date: 22-Jun-2016 18:32:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L4

Worklist Smp#: 5

Client ID:

Purge Vol: 500.000 mL

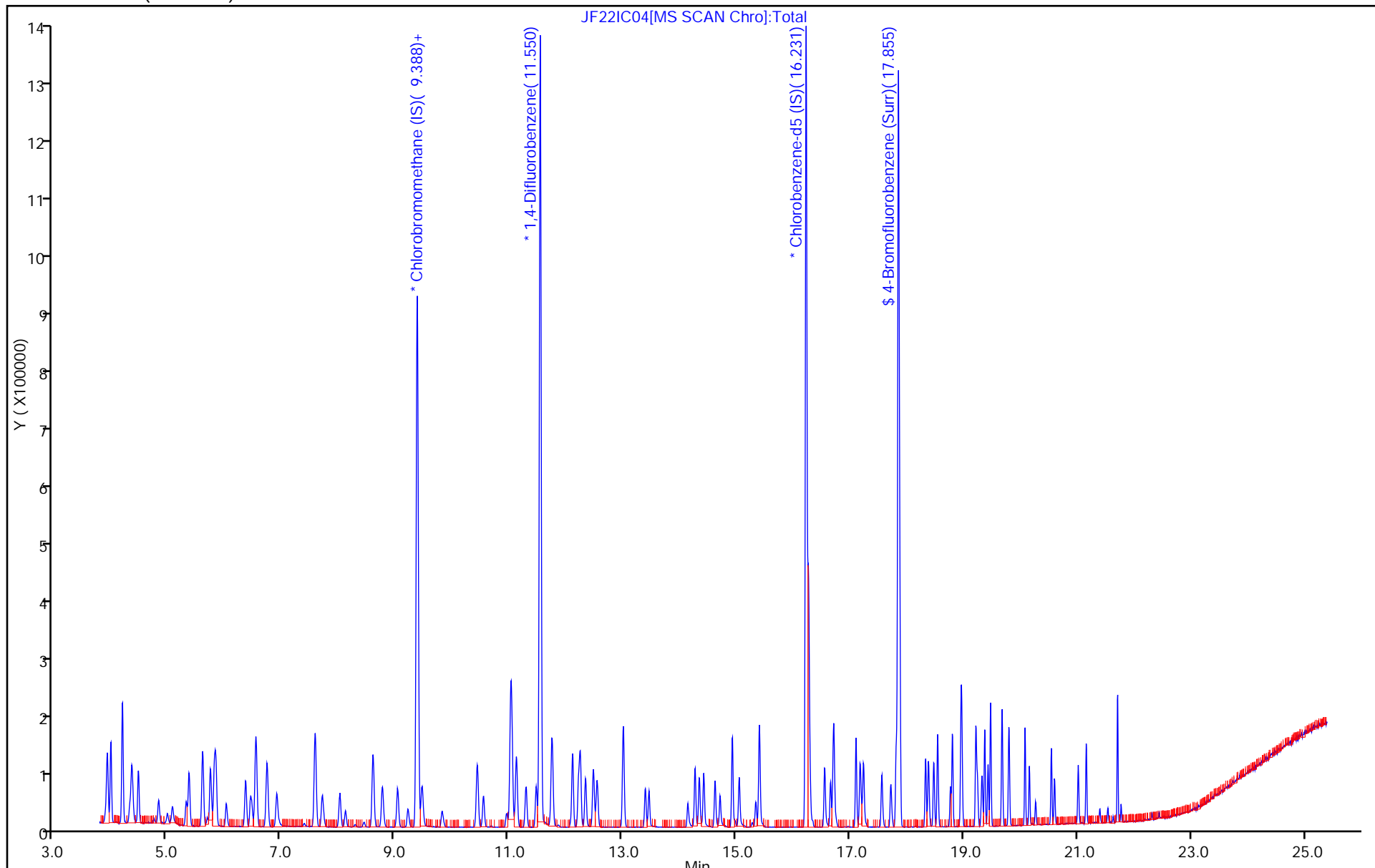
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC04.D

Injection Date: 22-Jun-2016 18:32:30

Instrument ID: MJ

Lims ID: IC L4

Client ID:

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

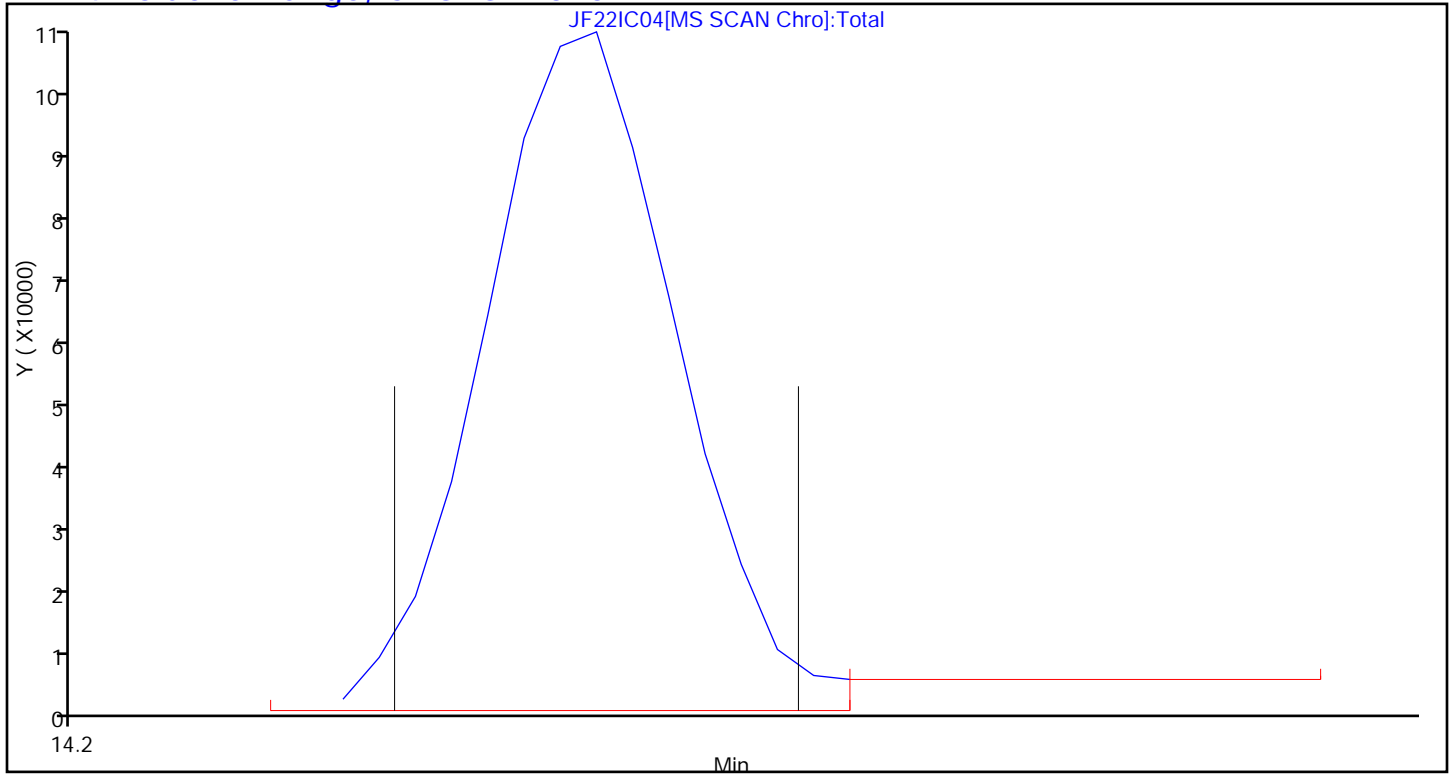
Method: MJ_TO15

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\20160622-3070.b\JF22IC04.D

Injection Date: 22-Jun-2016 18:32:30

Instrument ID: MJ

Lims ID: IC L4

Client ID:

Operator ID: 7126

ALS Bottle#: 9

Worklist Smp#: 5

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

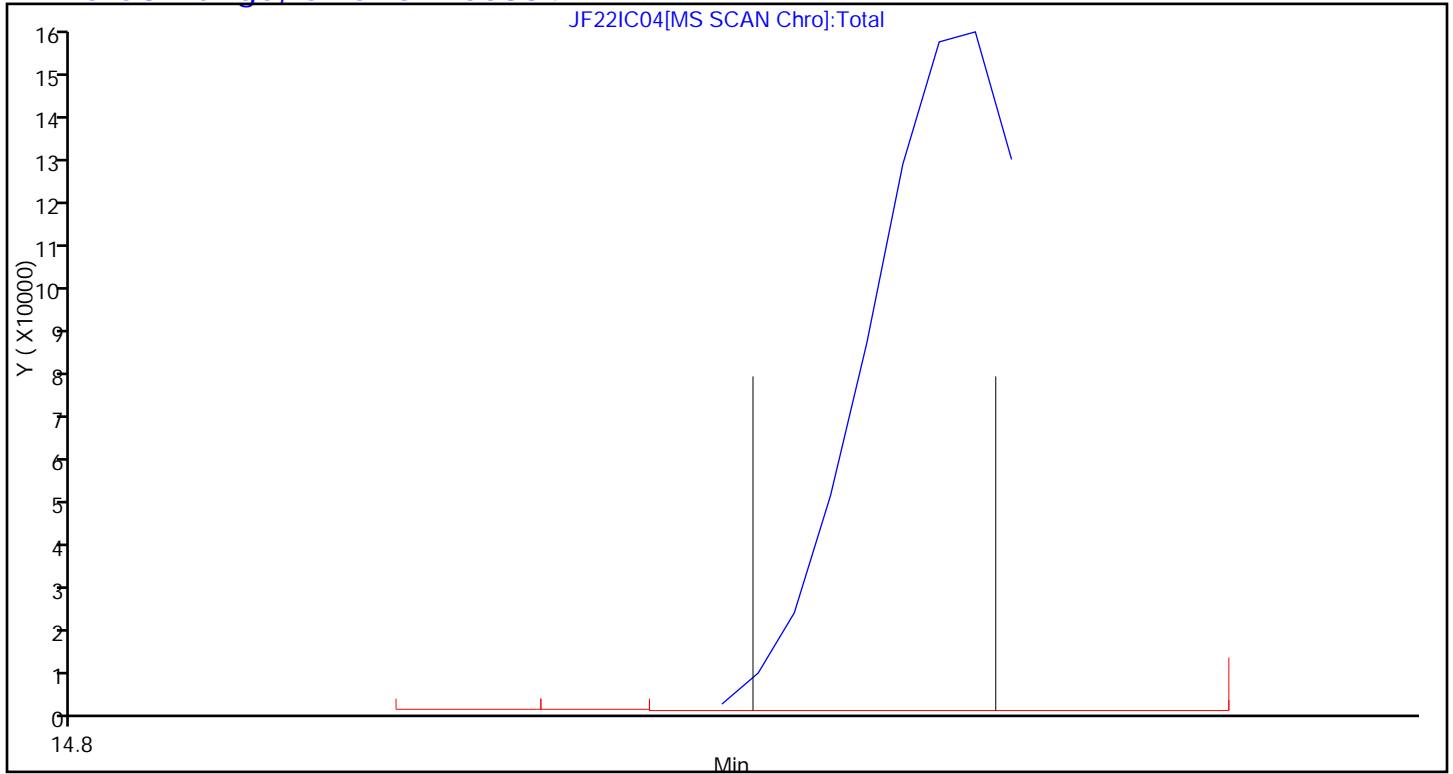
Method: MJ_TO15

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\20160622-3070.b\JF22IC05.D
 Lims ID: IC L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 22-Jun-2016 19:26:30 ALS Bottle#: 10 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044585
 Misc. Info.: J062216,T15,,140-0003070-006
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Jun-2016 15:12:18 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: tajh

Date: 23-Jun-2016 07:44:34

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	9.388	9.389	-0.001	92	298784	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.550	11.552	-0.002	95	1278099	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.230	16.231	-0.001	87	1078392	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.855	17.854	0.001	91	634109	4.00	3.98	
6 Chlorodifluoromethane	67	3.922	3.925	-0.003	96	38466	1.00	1.04	
7 Propene	41	3.938	3.939	-0.001	99	94985	1.00	1.10	
8 Dichlorodifluoromethane	85	3.992	3.995	-0.003	99	363576	1.00	1.11	
9 Chloromethane	52	4.197	4.196	0.000	98	25067	1.00	1.08	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.202	4.201	0.001	93	199170	1.00	1.09	
11 Acetaldehyde	44	4.363	4.364	-0.001	96	116129	5.01	5.77	
12 Vinyl chloride	62	4.379	4.384	-0.005	99	82084	1.00	1.04	
14 Butadiene	54	4.476	4.479	-0.003	76	57483	1.00	1.11	
13 Butane	43	4.476	4.480	-0.004	81	95645	1.00	1.11	
15 Bromomethane	94	4.837	4.837	0.000	97	76471	1.00	1.03	
16 Chloroethane	64	4.993	4.991	0.002	97	29140	1.00	1.03	
17 Ethanol	31	5.079	5.081	-0.002	91	63110	5.01	5.47	
18 Vinyl bromide	106	5.321	5.323	-0.002	98	92013	1.00	1.05	
19 2-Methylbutane	43	5.369	5.372	-0.003	90	114860	1.00	1.11	
20 Trichlorofluoromethane	101	5.611	5.611	0.000	99	327570	1.00	1.08	
21 Acrolein	56	5.617	5.623	-0.006	91	26432	1.00	1.05	
22 Acetonitrile	40	5.697	5.698	-0.001	98	27782	1.00	1.01	
23 Acetone	58	5.746	5.747	-0.001	98	120631	3.01	3.52	
24 Isopropyl alcohol	45	5.816	5.819	-0.003	92	387973	3.01	3.40	
25 Pentane	72	5.843	5.845	-0.002	98	13885	1.00	1.08	
26 Ethyl ether	31	6.026	6.027	-0.001	92	61651	1.00	1.06	
27 1,1-Dichloroethene	96	6.370	6.368	0.002	93	93723	1.00	1.06	
28 2-Methyl-2-propanol	59	6.451	6.457	-0.007	93	162292	1.00	1.04	
29 Acrylonitrile	53	6.477	6.479	-0.002	94	53165	1.00	1.02	
30 1,1,2-Trichloro-1,2,2-trif	101	6.547	6.548	-0.001	96	223225	1.00	1.08	
31 Methylene Chloride	84	6.741	6.739	0.002	98	85918	1.00	1.05	

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	6.752	6.753	-0.001	97	83611	1.00	1.06	
33 Carbon disulfide	76	6.913	6.916	-0.003	98	266620	1.00	1.06	
34 trans-1,2-Dichloroethene	96	7.586	7.587	-0.001	94	95290	1.00	1.07	
35 2-Methylpentane	43	7.596	7.597	-0.001	94	202218	1.00	1.12	
36 Methyl tert-butyl ether	73	7.709	7.715	-0.006	97	191223	1.00	1.05	
37 1,1-Dichloroethane	63	8.027	8.025	0.002	100	192069	1.00	1.06	
38 Vinyl acetate	43	8.124	8.125	-0.001	100	156921	1.00	1.05	
39 2-Butanone (MEK)	72	8.592	8.597	-0.005	96	29406	1.00	1.03	
40 Hexane	56	8.613	8.613	0.000	88	84874	1.00	1.09	
41 Isopropyl ether	45	8.769	8.773	-0.004	97	234280	1.00	1.04	
42 cis-1,2-Dichloroethene	96	9.043	9.044	-0.001	99	92758	1.00	1.05	
43 Ethyl acetate	43	9.221	9.224	-0.003	99	127302	1.00	1.07	
44 Chloroform	83	9.393	9.395	-0.002	95	213335	1.00	1.07	
45 Tert-butyl ethyl ether	59	9.468	9.471	-0.003	95	229807	1.00	1.03	
46 Tetrahydrofuran	42	9.818	9.821	-0.003	91	66510	1.00	1.04	
47 1,1,1-Trichloroethane	97	10.442	10.443	-0.001	96	249926	1.00	1.08	
48 1,2-Dichloroethane	62	10.555	10.556	-0.001	99	151004	1.00	1.08	
49 n-Butanol	31	10.953	10.957	-0.004	79	19897	1.00	1.02	
50 Cyclohexane	69	11.028	11.031	-0.003	84	44050	1.00	1.18	
51 Benzene	78	11.034	11.031	0.003	98	242064	1.00	1.08	
52 Carbon tetrachloride	117	11.055	11.055	0.000	97	250454	1.00	1.05	
53 2,3-Dimethylpentane	71	11.131	11.134	-0.003	88	55859	1.00	1.09	
54 Thiophene	84	11.297	11.302	-0.005	100	138033	1.00	1.08	
55 Tert-amyl methyl ether	73	11.475	11.480	-0.005	96	180342	1.00	1.09	
56 Isooctane	57	11.760	11.759	0.001	98	462412	1.00	1.10	
57 n-Heptane	71	12.120	12.122	-0.002	90	79881	1.00	1.08	
58 1,2-Dichloropropane	63	12.223	12.227	-0.004	90	98083	1.00	1.09	
59 Trichloroethene	130	12.255	12.257	-0.002	95	118547	1.00	1.05	
60 Dibromomethane	93	12.346	12.348	-0.002	95	107420	1.00	1.08	
62 Dichlorobromomethane	83	12.486	12.487	-0.001	99	201889	1.00	1.11	
61 1,4-Dioxane	88	12.497	12.501	-0.004	87	28993	1.00	1.09	
63 Methyl methacrylate	41	12.556	12.558	-0.002	91	64577	1.00	0.9392	
64 Methylcyclohexane	83	13.013	13.014	-0.001	92	189819	1.00	1.11	
65 4-Methyl-2-pentanone (MIBK)	43	13.395	13.399	-0.004	96	167376	1.00	1.11	
66 cis-1,3-Dichloropropene	75	13.465	13.466	-0.001	94	123970	1.00	1.05	
67 trans-1,3-Dichloropropene	75	14.149	14.149	0.000	97	96475	1.00	1.09	
68 Toluene	91	14.278	14.277	0.001	93	251819	1.00	1.10	
69 1,1,2-Trichloroethane	83	14.348	14.349	-0.001	98	72695	1.00	1.09	
70 2-Methylthiophene	97	14.428	14.429	-0.001	97	214421	1.00	1.12	
71 3-Methylthiophene	97	14.627	14.628	-0.001	99	202739	1.00	1.10	
72 2-Hexanone	58	14.713	14.717	-0.004	95	76515	1.00	1.14	
73 n-Octane	85	14.934	14.931	0.003	92	84942	1.00	1.13	
74 Chlorodibromomethane	129	15.052	15.053	-0.001	98	177672	1.00	1.12	
75 Ethylene Dibromide	107	15.343	15.344	-0.001	98	129201	1.00	1.06	
76 Tetrachloroethene	129	15.407	15.408	-0.001	95	116368	1.00	1.08	
77 2,3-Dimethylheptane	43	16.268	16.269	-0.001	95	253140	1.00	1.18	
78 Chlorobenzene	112	16.279	16.279	0.000	93	187036	1.00	1.08	
79 Ethylbenzene	91	16.559	16.557	0.002	99	276806	1.00	1.06	
80 2-Ethylthiophene	97	16.661	16.661	0.000	98	210486	1.00	1.06	
81 m-Xylene & p-Xylene	91	16.715	16.715	0.000	99	432360	2.00	2.13	
82 n-Nonane	57	17.107	17.109	-0.002	89	170403	1.00	1.13	
83 Bromoform	173	17.177	17.179	-0.002	92	126351	1.00	1.06	

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	17.183	17.181	0.002	99	131396	1.00	1.05	
85 o-Xylene	91	17.242	17.242	0.000	97	236527	1.00	1.08	
86 1,1,2,2-Tetrachloroethane	83	17.564	17.563	0.001	98	150790	1.00	1.08	
87 1,2,3-Trichloropropane	110	17.720	17.720	0.000	97	41958	1.00	1.06	
88 Isopropylbenzene	105	17.817	17.815	0.002	95	303206	1.00	1.10	
89 N-Propylbenzene	120	18.334	18.333	0.001	99	70689	1.00	1.03	
90 2-Chlorotoluene	126	18.382	18.384	-0.002	97	75246	1.00	1.03	
91 4-Ethyltoluene	105	18.474	18.477	-0.003	98	254212	1.00	1.09	
92 1,3,5-Trimethylbenzene	120	18.544	18.545	-0.001	92	131247	1.00	1.06	
93 Alpha Methyl Styrene	118	18.769	18.771	-0.002	86	84426	1.00	0.9852	
94 n-Decane	57	18.807	18.805	0.002	89	172771	1.00	1.12	
95 tert-Butylbenzene	119	18.958	18.958	0.000	89	279995	1.00	1.14	
96 1,2,4-Trimethylbenzene	105	18.969	18.971	-0.002	96	235496	1.00	1.13	
97 sec-Butylbenzene	105	19.216	19.218	-0.002	98	347096	1.00	1.14	
98 1,3-Dichlorobenzene	146	19.243	19.244	-0.001	99	105055	1.00	0.9827	
99 Benzyl chloride	91	19.318	19.315	0.003	97	96342	1.00	0.9178	
100 1,4-Dichlorobenzene	146	19.329	19.329	0.000	94	85902	1.00	0.9391	
101 4-Isopropyltoluene	119	19.372	19.373	-0.001	97	283900	1.00	1.13	
102 1,2,3-Trimethylbenzene	105	19.431	19.432	-0.001	98	184398	1.00	1.11	
103 Butylcyclohexane	83	19.474	19.476	-0.002	89	201539	1.00	1.11	
104 2,3-Dihydroindene	117	19.679	19.676	0.003	93	188971	1.00	1.08	
105 1,2-Dichlorobenzene	146	19.679	19.680	-0.001	95	110886	1.00	1.02	
106 n-Butylbenzene	91	19.797	19.797	0.000	98	217364	1.00	1.12	
107 Indene	116	19.808	19.805	0.003	92	106078	1.00	1.06	
108 Undecane	57	20.082	20.083	-0.001	93	166313	1.00	1.13	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.157	20.158	-0.001	98	180487	1.00	1.11	
110 1,2-Dibromo-3-Chloropropan	157	20.270	20.271	-0.001	94	33994	1.00	0.9505	
111 1,2,4,5-Tetramethylbenzene	119	20.545	20.545	0.000	96	221281	1.00	1.11	
112 1,2,3,5-Tetramethylbenzene	119	20.604	20.603	0.001	95	141907	1.00	1.10	
113 1,2,3,4-Tetramethylbenzene	119	21.018	21.019	-0.001	96	175011	1.00	1.10	
114 Dodecane	57	21.158	21.159	-0.001	97	153441	1.00	1.18	
115 1,2,4-Trichlorobenzene	180	21.400	21.399	0.001	94	27246	1.00	0.9441	
116 Naphthalene	128	21.540	21.540	0.000	99	65976	1.00	0.8620	
117 Benzo(b)thiophene	134	21.631	21.633	-0.002	99	25086	1.00	0.9337	
118 Hexachlorobutadiene	225	21.712	21.713	-0.001	95	125753	1.00	1.09	
119 1,2,3-Trichlorobenzene	180	21.771	21.772	-0.001	95	28890	1.00	0.9121	
120 2-Methylnaphthalene	142	22.315	22.314	0.001	97	12857	3.13	2.57	
121 1-Methylnaphthalene	142	22.438	22.439	-0.001	97	15840	3.13	3.02	
A 124 Toluene Range	1	14.278	(14.248-14.308)	0	0	567901	1.00	1.11	
A 125 C8 Range	1	14.930	(14.901-14.958)	0	0	808090	1.00	1.21	
S 126 Xylenes, Total	100				0		3.00	3.21	
S 127 1,2-Dichloroethene, Total	1				0		2.00	2.12	

Reagents:

40L5DNP_00005

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC05.D

Injection Date: 22-Jun-2016 19:26:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L5

Worklist Smp#: 6

Client ID:

Purge Vol: 500.000 mL

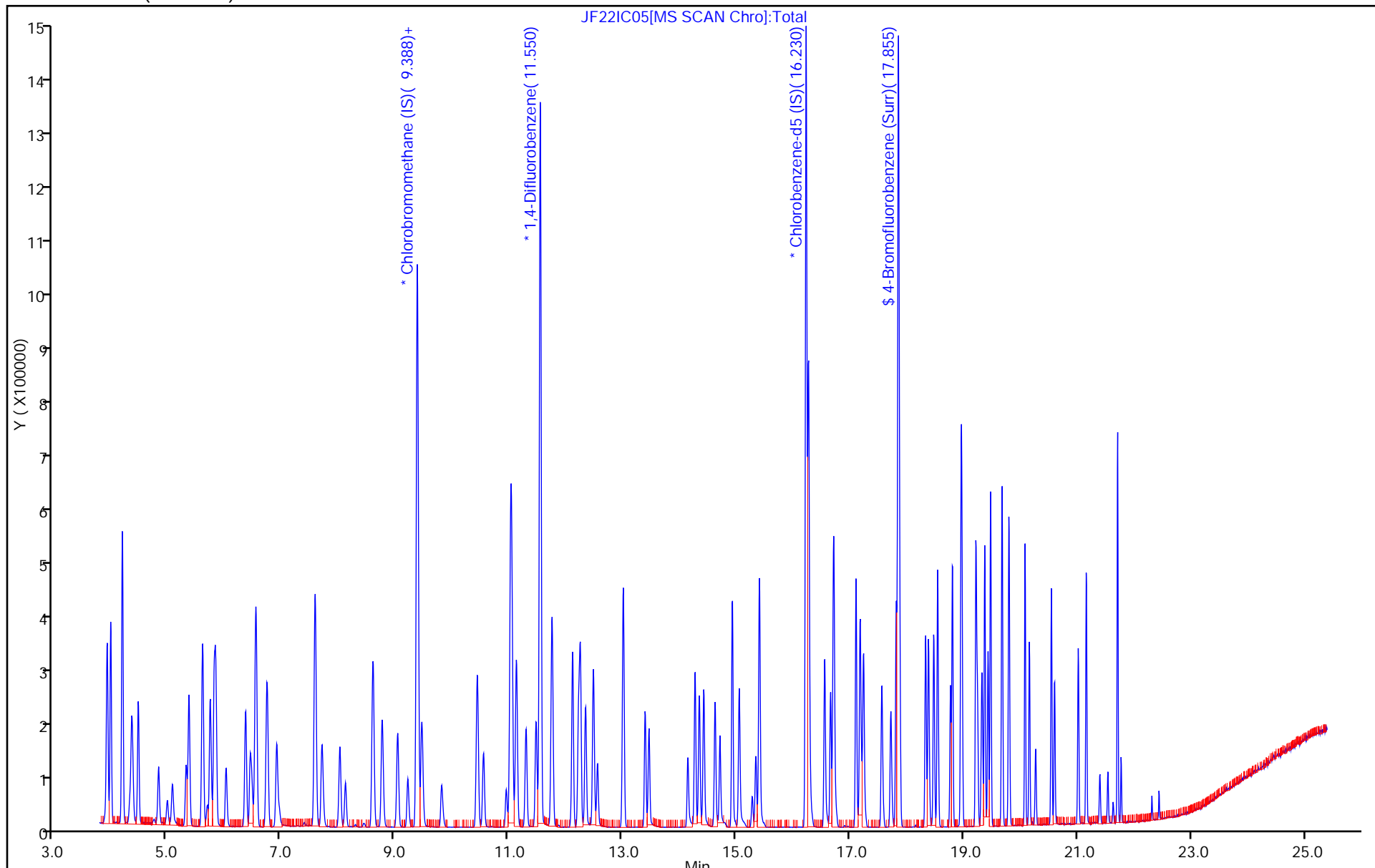
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC05.D

Injection Date: 22-Jun-2016 19:26:30

Instrument ID: MJ

Lims ID: IC L5

Client ID:

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

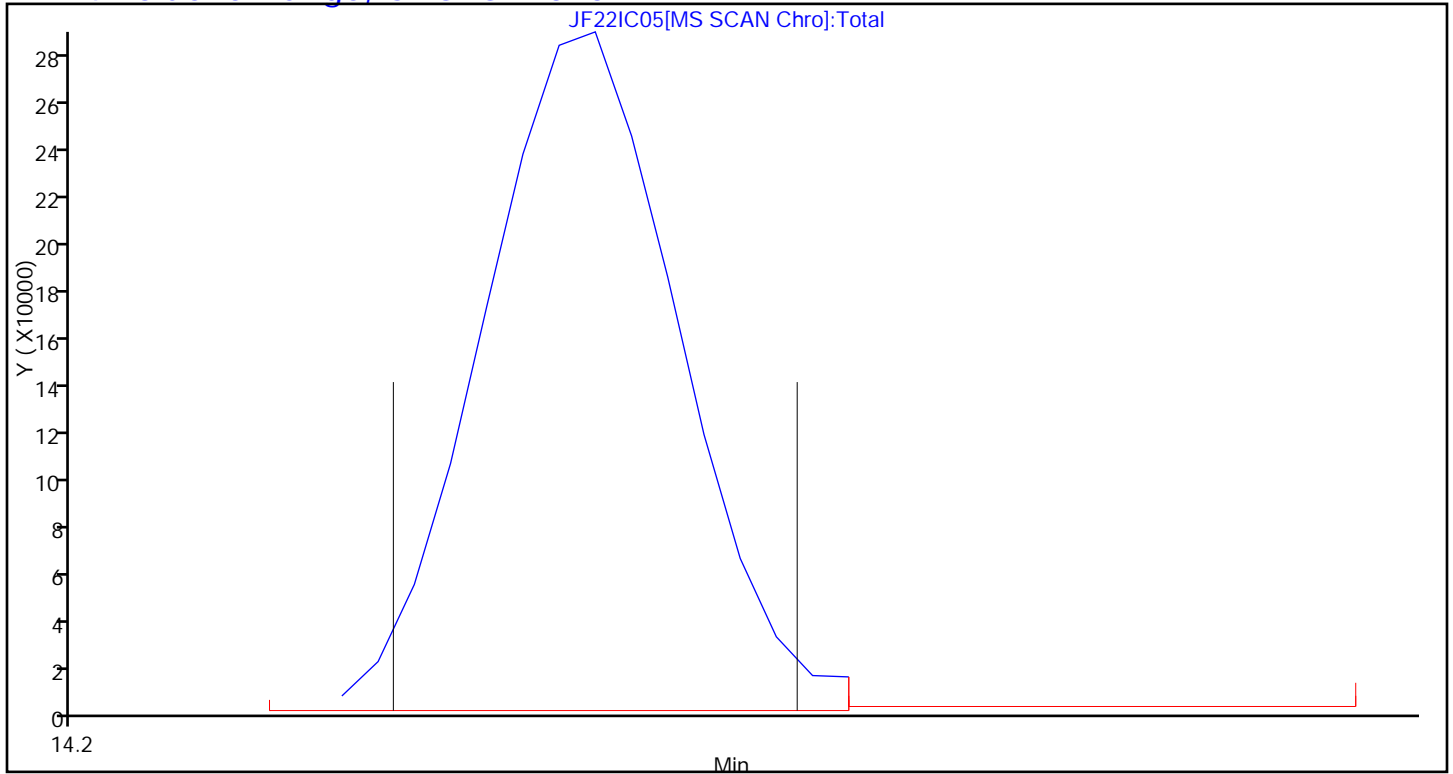
Method: MJ_TO15

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\20160622-3070.b\JF22IC05.D

Injection Date: 22-Jun-2016 19:26:30

Instrument ID: MJ

Lims ID: IC L5

Client ID:

Operator ID: 7126

ALS Bottle#: 10

Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

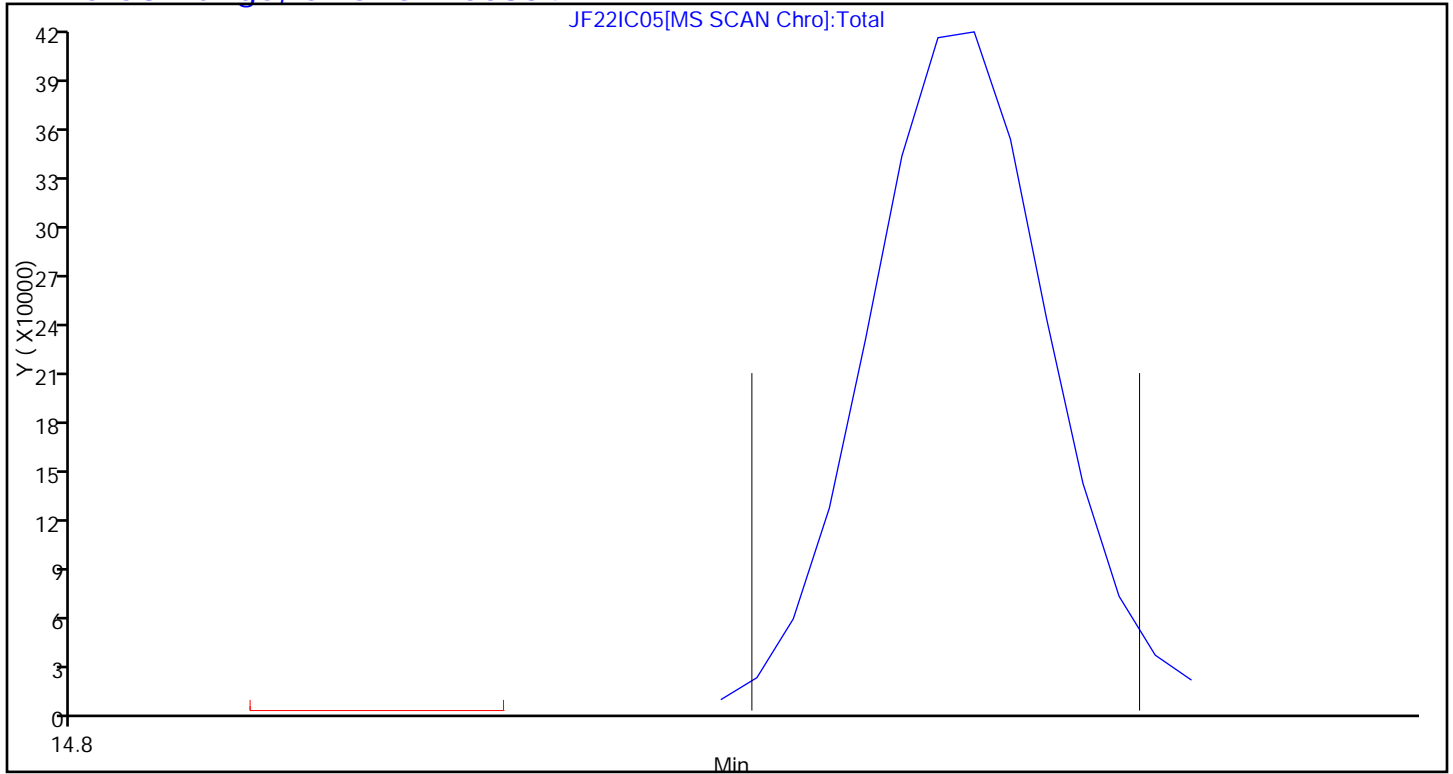
Method: MJ_TO15

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\20160622-3070.b\JF22IC06.D
 Lims ID: ICIS L6
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 22-Jun-2016 20:20:30 ALS Bottle#: 11 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044586
 Misc. Info.: J062216,T15,,140-0003070-003
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Jun-2016 15:12:23 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: tajh

Date: 23-Jun-2016 14:46:08

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	9.388	9.389	-0.001	94	295193	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.551	11.552	-0.001	96	1295936	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.231	16.231	0.000	87	1130543	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.855	17.854	0.001	91	685127	4.00	4.10	
6 Chlorodifluoromethane	67	3.923	3.925	-0.002	95	74322	2.00	2.03	
7 Propene	41	3.939	3.939	0.000	99	171785	2.00	2.02	
8 Dichlorodifluoromethane	85	3.993	3.995	-0.002	99	651005	2.00	2.01	
9 Chloromethane	52	4.197	4.196	0.001	98	45845	2.00	2.00	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.197	4.201	-0.004	98	371615	2.00	2.06	
11 Acetaldehyde	44	4.364	4.364	0.000	93	203386	9.99	10.2	
12 Vinyl chloride	62	4.385	4.384	0.001	99	147890	2.00	1.90	
14 Butadiene	54	4.477	4.479	-0.002	79	103801	2.00	2.03	
13 Butane	43	4.477	4.480	-0.003	80	163737	2.00	1.93	
15 Bromomethane	94	4.837	4.837	0.000	97	141086	2.00	1.93	
16 Chloroethane	64	4.993	4.991	0.002	96	54729	2.00	1.96	
17 Ethanol	31	5.079	5.081	-0.002	91	116482	9.99	10.2	
18 Vinyl bromide	106	5.321	5.323	-0.002	98	177848	2.00	2.06	
19 2-Methylbutane	43	5.370	5.372	-0.002	88	214661	2.00	2.11	
20 Trichlorofluoromethane	101	5.612	5.611	0.001	99	621893	2.00	2.07	
21 Acrolein	56	5.623	5.623	0.000	91	50881	2.00	2.05	
22 Acetonitrile	40	5.698	5.698	0.000	97	57557	2.00	2.12	
23 Acetone	58	5.741	5.747	-0.006	98	220910	5.99	6.53	
24 Isopropyl alcohol	45	5.816	5.819	-0.003	95	744962	5.99	6.61	
25 Pentane	72	5.848	5.845	0.003	98	26066	2.00	2.05	
26 Ethyl ether	31	6.021	6.027	-0.006	89	125926	2.00	2.18	
27 1,1-Dichloroethene	96	6.370	6.368	0.002	93	178394	2.00	2.04	
28 2-Methyl-2-propanol	59	6.451	6.457	-0.006	93	317555	2.00	2.06	
29 Acrylonitrile	53	6.478	6.479	-0.001	93	107837	2.00	2.08	
30 1,1,2-Trichloro-1,2,2-trif	101	6.548	6.548	0.000	96	426570	2.00	2.09	
31 Methylene Chloride	84	6.736	6.739	-0.003	98	163012	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
32 3-Chloro-1-propene	39	6.752	6.753	-0.001	96	163557	2.00	2.10	
33 Carbon disulfide	76	6.914	6.916	-0.002	99	514119	2.00	2.07	
34 trans-1,2-Dichloroethene	96	7.586	7.587	-0.001	94	181960	2.00	2.08	
35 2-Methylpentane	43	7.591	7.597	-0.006	93	383056	2.00	2.14	
36 Methyl tert-butyl ether	73	7.710	7.715	-0.005	96	394051	2.00	2.19	
37 1,1-Dichloroethane	63	8.027	8.025	0.002	100	377503	2.00	2.12	
38 Vinyl acetate	43	8.124	8.125	-0.001	100	326088	2.00	2.21	
39 2-Butanone (MEK)	72	8.592	8.597	-0.005	96	57065	2.00	2.01	
40 Hexane	56	8.614	8.613	0.001	89	165234	2.00	2.15	
41 Isopropyl ether	45	8.770	8.773	-0.003	97	485009	2.00	2.18	
42 cis-1,2-Dichloroethene	96	9.044	9.044	0.000	99	181693	2.00	2.08	
43 Ethyl acetate	43	9.221	9.224	-0.003	99	259651	2.00	2.20	
44 Chloroform	83	9.394	9.395	-0.001	96	414764	2.00	2.10	
45 Tert-butyl ethyl ether	59	9.469	9.471	-0.002	94	476674	2.00	2.16	
46 Tetrahydrofuran	42	9.813	9.821	-0.008	93	136985	2.00	2.18	
47 1,1,1-Trichloroethane	97	10.443	10.443	0.000	96	491600	2.00	2.15	
48 1,2-Dichloroethane	62	10.556	10.556	0.000	98	295685	2.00	2.09	
49 n-Butanol	31	10.948	10.957	-0.009	80	41337	2.00	2.09	
50 Cyclohexane	69	11.029	11.031	-0.002	94	84227	2.00	2.22	
51 Benzene	78	11.029	11.031	-0.002	98	473833	2.00	2.09	
52 Carbon tetrachloride	117	11.056	11.055	0.001	99	536281	2.00	2.23	
53 2,3-Dimethylpentane	71	11.131	11.134	-0.003	89	110794	2.00	2.13	
54 Thiophene	84	11.303	11.302	0.001	100	269521	2.00	2.09	
55 Tert-amyl methyl ether	73	11.475	11.480	-0.005	97	372876	2.00	2.14	
56 Isooctane	57	11.755	11.759	-0.004	99	897864	2.00	2.11	
57 n-Heptane	71	12.121	12.122	-0.001	89	158034	2.00	2.12	
58 1,2-Dichloropropane	63	12.223	12.227	-0.004	90	194759	2.00	2.13	
59 Trichloroethene	130	12.255	12.257	-0.002	95	229178	2.00	2.01	
60 Dibromomethane	93	12.347	12.348	-0.001	95	212934	2.00	2.11	
62 Dichlorobromomethane	83	12.487	12.487	0.000	99	397868	2.00	2.16	
61 1,4-Dioxane	88	12.492	12.501	-0.009	87	58670	2.00	2.18	
63 Methyl methacrylate	41	12.557	12.558	-0.001	92	141703	2.00	2.03	
64 Methylcyclohexane	83	13.014	13.014	0.000	92	367492	2.00	2.12	
65 4-Methyl-2-pentanone (MIBK)	43	13.396	13.399	-0.003	96	295884	2.00	1.93	
66 cis-1,3-Dichloropropene	75	13.466	13.466	0.000	94	259003	2.00	2.17	
67 trans-1,3-Dichloropropene	75	14.149	14.149	0.000	97	202943	2.00	2.19	
68 Toluene	91	14.278	14.277	0.001	93	513330	2.00	2.13	
69 1,1,2-Trichloroethane	83	14.348	14.349	-0.001	98	148679	2.00	2.13	
70 2-Methylthiophene	97	14.429	14.429	0.000	97	441429	2.00	2.20	
71 3-Methylthiophene	97	14.628	14.628	0.000	99	415433	2.00	2.16	
72 2-Hexanone	58	14.714	14.717	-0.003	96	158048	2.00	2.25	
73 n-Octane	85	14.929	14.931	-0.002	91	171049	2.00	2.17	
74 Chlorodibromomethane	129	15.053	15.053	0.000	97	375901	2.00	2.25	
75 Ethylene Dibromide	107	15.343	15.344	-0.001	99	270820	2.00	2.13	
76 Tetrachloroethene	129	15.408	15.408	0.000	95	226727	2.00	2.01	
77 2,3-Dimethylheptane	43	16.269	16.269	-0.001	95	483560	2.00	2.15	
78 Chlorobenzene	112	16.279	16.279	0.000	94	382171	2.00	2.11	
79 Ethylbenzene	91	16.559	16.557	0.002	99	596545	2.00	2.17	
80 2-Ethylthiophene	97	16.661	16.661	0.000	98	454691	2.00	2.19	
81 m-Xylene & p-Xylene	91	16.715	16.715	0.000	100	910856	3.99	4.27	
82 n-Nonane	57	17.108	17.109	-0.001	88	364149	2.00	2.31	
83 Bromoform	173	17.178	17.179	-0.001	91	287325	2.00	2.29	

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	17.178	17.181	-0.003	99	298757	2.00	2.28	
85 o-Xylene	91	17.242	17.242	0.000	98	491312	2.00	2.15	
86 1,1,2,2-Tetrachloroethane	83	17.560	17.563	-0.003	98	317051	2.00	2.17	
87 1,2,3-Trichloropropane	110	17.721	17.720	0.001	98	88107	2.00	2.13	
88 Isopropylbenzene	105	17.818	17.815	0.003	96	645900	2.00	2.24	
89 N-Propylbenzene	120	18.334	18.333	0.001	99	158414	2.00	2.19	
90 2-Chlorotoluene	126	18.383	18.384	-0.001	97	164057	2.00	2.15	
91 4-Ethyltoluene	105	18.474	18.477	-0.003	98	555410	2.00	2.27	
92 1,3,5-Trimethylbenzene	120	18.544	18.545	-0.001	92	282382	2.00	2.18	
93 Alpha Methyl Styrene	118	18.770	18.771	-0.001	86	198517	2.00	2.21	
94 n-Decane	57	18.802	18.805	-0.003	89	371127	2.00	2.30	
95 tert-Butylbenzene	119	18.958	18.958	0.000	90	576459	2.00	2.24	
96 1,2,4-Trimethylbenzene	105	18.969	18.971	-0.002	96	496438	2.00	2.26	
97 sec-Butylbenzene	105	19.216	19.218	-0.002	98	729282	2.00	2.28	
98 1,3-Dichlorobenzene	146	19.243	19.244	-0.001	99	231407	2.00	2.06	
99 Benzyl chloride	91	19.313	19.315	-0.002	97	231497	2.00	2.10	
100 1,4-Dichlorobenzene	146	19.329	19.329	0.000	95	195721	2.00	2.04	
101 4-Isopropyltoluene	119	19.372	19.373	-0.001	96	596789	2.00	2.27	
102 1,2,3-Trimethylbenzene	105	19.432	19.432	0.000	98	386097	2.00	2.22	
103 Butylcyclohexane	83	19.475	19.476	-0.001	89	427484	2.00	2.25	
104 2,3-Dihydroindene	117	19.679	19.676	0.003	93	408894	2.00	2.23	
105 1,2-Dichlorobenzene	146	19.679	19.680	-0.001	96	241683	2.00	2.12	
106 n-Butylbenzene	91	19.797	19.797	0.000	98	466916	2.00	2.30	
107 Indene	116	19.803	19.805	-0.002	90	237730	2.00	2.26	
108 Undecane	57	20.083	20.083	0.000	93	346076	2.00	2.25	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.158	20.158	0.000	97	392201	2.00	2.30	
110 1,2-Dibromo-3-Chloropropan	157	20.271	20.271	0.000	96	78535	2.00	2.09	
111 1,2,4,5-Tetramethylbenzene	119	20.545	20.545	0.000	96	471438	2.00	2.26	
112 1,2,3,5-Tetramethylbenzene	119	20.604	20.603	0.001	95	301527	2.00	2.24	
113 1,2,3,4-Tetramethylbenzene	119	21.019	21.019	0.000	97	365106	2.00	2.20	
114 Dodecane	57	21.158	21.159	-0.001	97	318147	2.00	2.33	
115 1,2,4-Trichlorobenzene	180	21.401	21.399	0.002	94	65109	2.00	2.15	
116 Naphthalene	128	21.540	21.540	0.000	99	156536	2.00	1.95	
117 Benzo(b)thiophene	134	21.632	21.633	-0.001	99	58741	2.00	2.09	
118 Hexachlorobutadiene	225	21.713	21.713	0.000	96	248901	2.00	2.07	
119 1,2,3-Trichlorobenzene	180	21.772	21.772	0.000	94	66002	2.00	1.99	
120 2-Methylnaphthalene	142	22.315	22.314	0.001	99	33085	6.24	6.32	
121 1-Methylnaphthalene	142	22.439	22.439	0.000	97	35332	6.24	6.43	
A 124 Toluene Range	1	14.278	(14.248-14.308)		0	1174730	2.00	2.20	
A 125 C8 Range	1	14.930	(14.891-14.970)		0	1583480	2.00	2.25	
S 126 Xylenes, Total	100				0		5.99	6.42	
S 127 1,2-Dichloroethene, Total	1				0		3.99	4.16	

Reagents:

40L6DNP_00006

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC06.D

Injection Date: 22-Jun-2016 20:20:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ICIS L6

Worklist Smp#: 7

Client ID:

Purge Vol: 500.000 mL

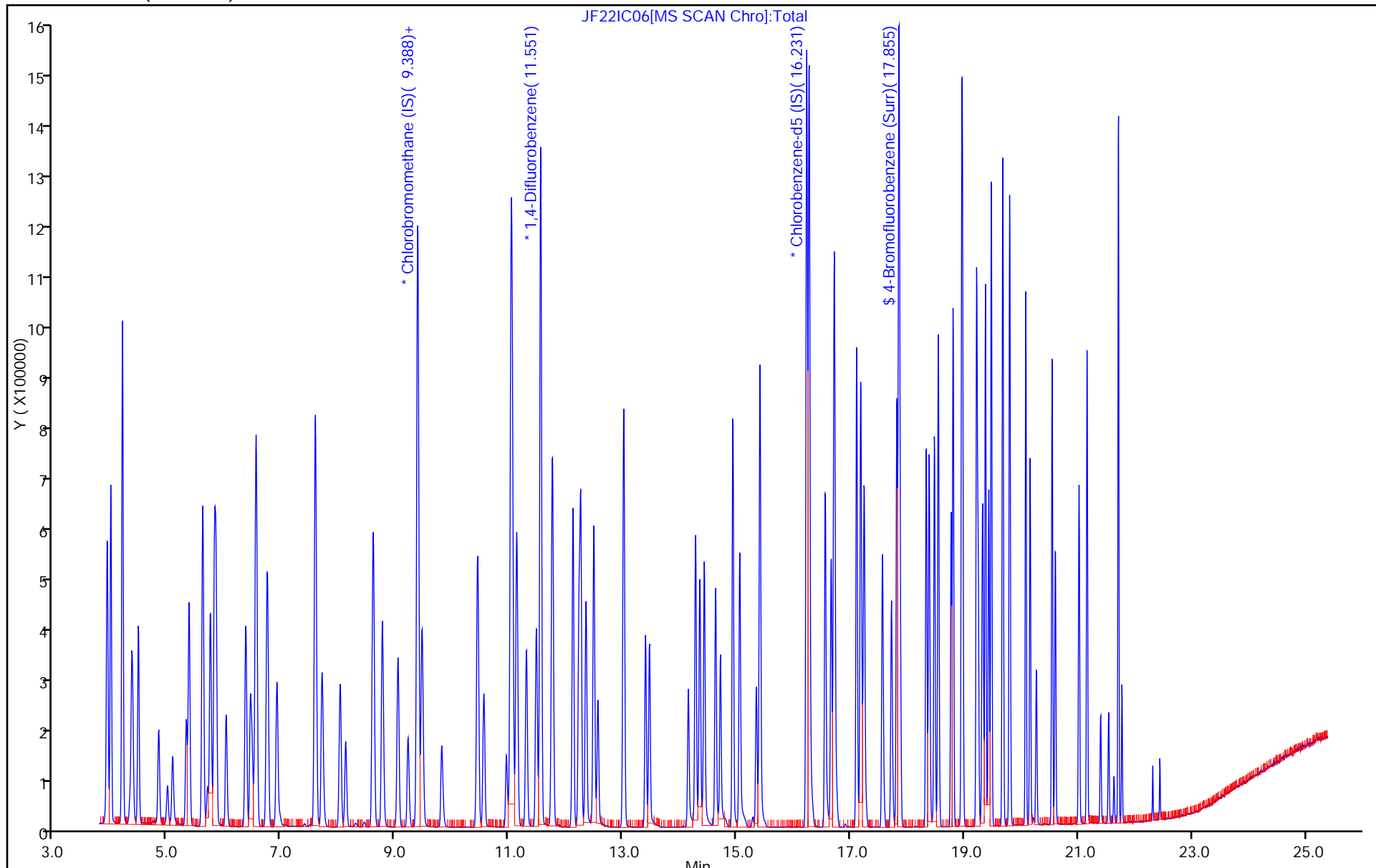
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC06.D

Injection Date: 22-Jun-2016 20:20:30

Instrument ID: MJ

Lims ID: ICIS L6

Client ID:

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

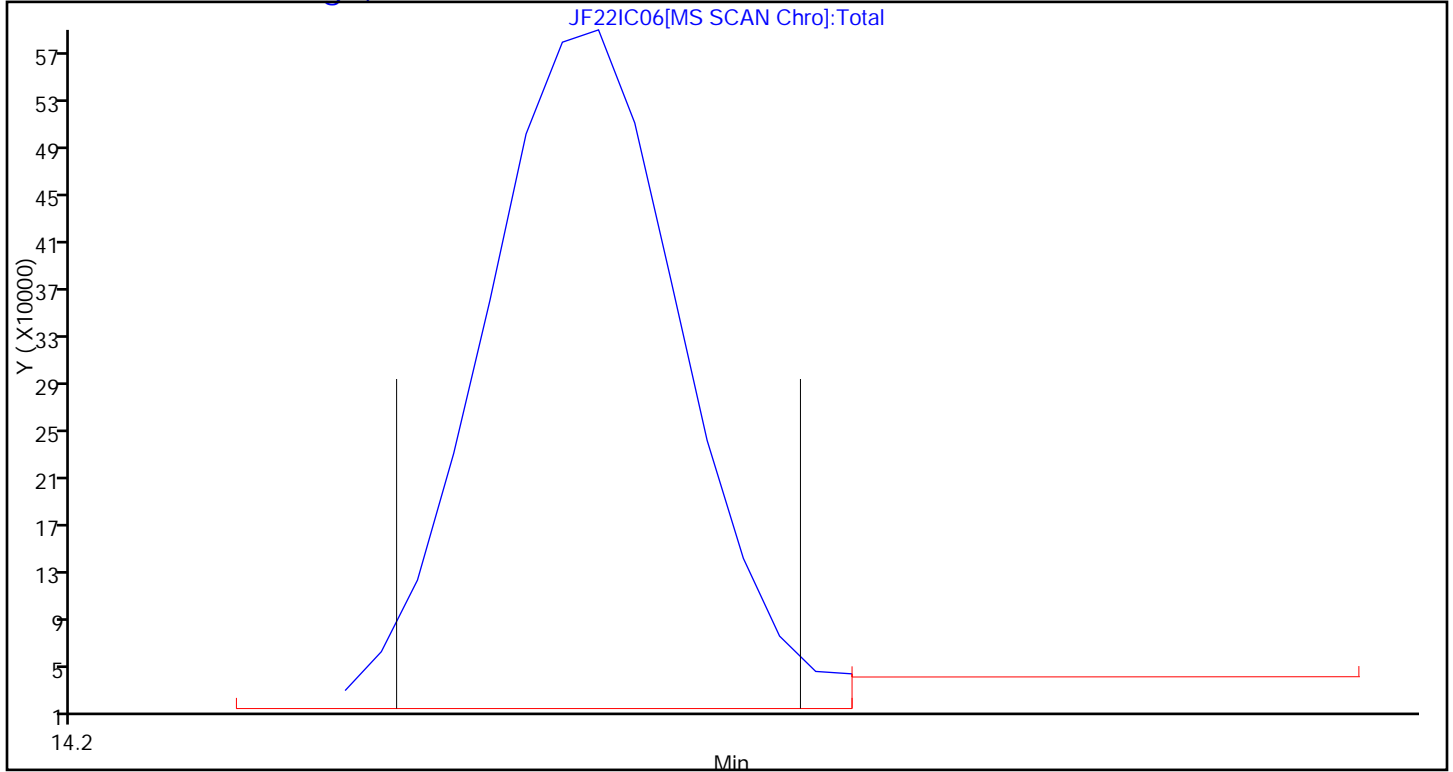
Method: MJ_TO15

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\20160622-3070.b\JF22IC06.D

Injection Date: 22-Jun-2016 20:20:30

Instrument ID: MJ

Lims ID: ICIS L6

Client ID:

Operator ID: 7126

ALS Bottle#: 11

Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

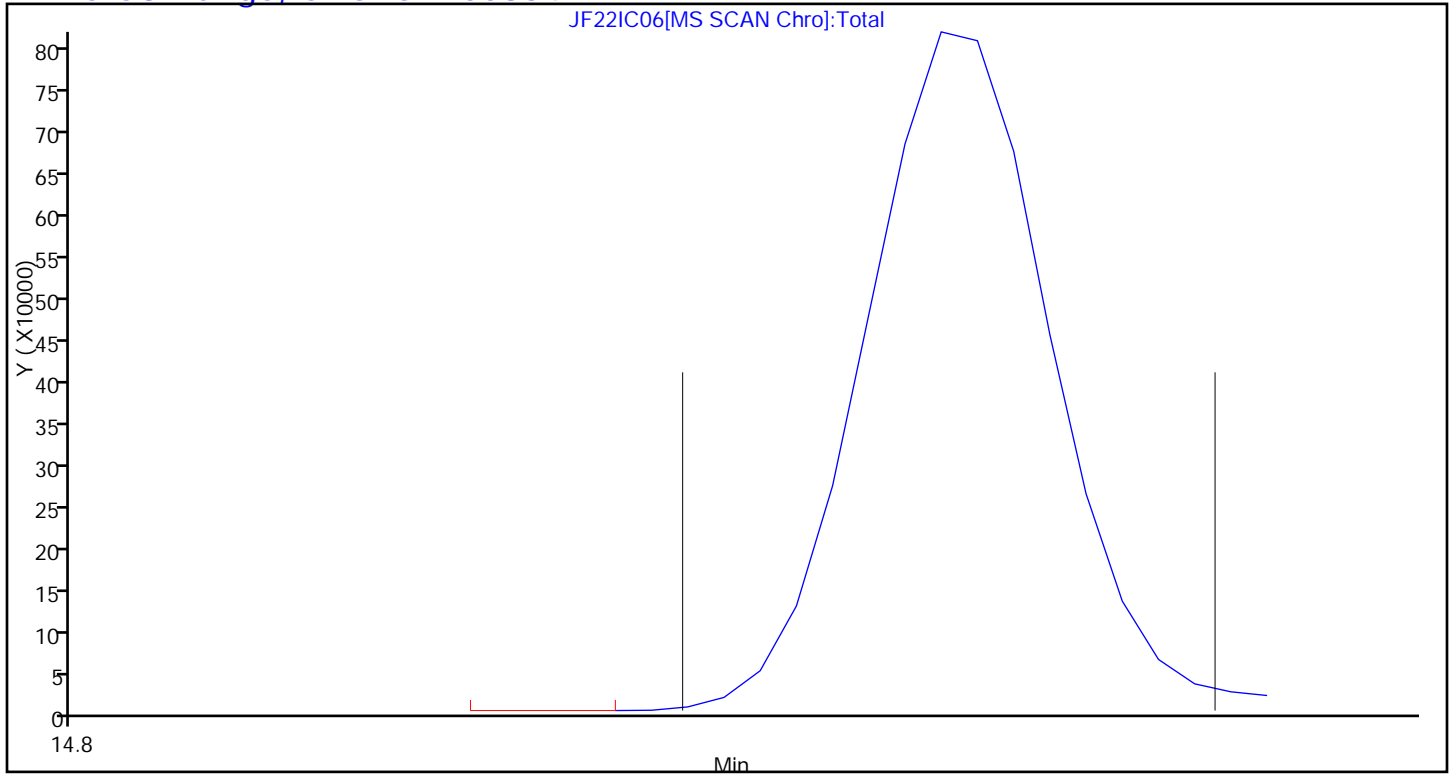
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC07.D
 Lims ID: IC L7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 22-Jun-2016 21:14:30 ALS Bottle#: 12 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044587
 Misc. Info.: J062216,T15,,140-0003070-008
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Jun-2016 15:12:29 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: tajh

Date: 23-Jun-2016 14:46:57

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	9.388	9.389	-0.001	91	310883	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.551	11.552	-0.001	95	1421150	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.231	16.231	0.000	87	1287644	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.850	17.854	-0.004	92	796104	4.00	4.19	
6 Chlorodifluoromethane	67	3.928	3.925	0.003	95	143302	4.00	3.71	
7 Propene	41	3.939	3.939	0.000	99	332692	4.00	3.71	
8 Dichlorodifluoromethane	85	3.998	3.995	0.003	99	1307229	4.00	3.83	
9 Chloromethane	52	4.197	4.196	0.001	52	88214	4.00	3.65	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.203	4.201	0.002	87	727582	4.00	3.84	
11 Acetaldehyde	44	4.364	4.364	0.000	95	350643	20.0	16.7	
12 Vinyl chloride	62	4.386	4.384	0.002	99	296801	4.00	3.63	
14 Butadiene	54	4.482	4.479	0.003	75	204963	4.00	3.82	
13 Butane	43	4.482	4.480	0.002	81	337432	4.00	3.78	
15 Bromomethane	94	4.837	4.837	0.000	97	279818	4.00	3.63	
16 Chloroethane	64	4.993	4.991	0.002	96	110409	4.00	3.76	
17 Ethanol	31	5.085	5.081	0.004	91	222729	20.0	18.5	
18 Vinyl bromide	106	5.322	5.323	-0.001	98	349781	4.00	3.84	
19 2-Methylbutane	43	5.370	5.372	-0.002	88	408100	4.00	3.81	
20 Trichlorofluoromethane	101	5.612	5.611	0.001	99	1205159	4.00	3.81	
21 Acrolein	56	5.628	5.623	0.005	90	93702	4.00	3.59	
22 Acetonitrile	40	5.698	5.698	0.000	99	108943	4.00	3.81	
23 Acetone	58	5.741	5.747	-0.006	97	349669	12.0	9.82	
24 Isopropyl alcohol	45	5.816	5.819	-0.003	96	1317035	12.0	11.1	
25 Pentane	72	5.843	5.845	-0.002	99	50079	4.00	3.74	
26 Ethyl ether	31	6.021	6.027	-0.006	90	242733	4.00	3.99	
27 1,1-Dichloroethene	96	6.371	6.368	0.003	94	351859	4.00	3.83	
28 2-Methyl-2-propanol	59	6.451	6.457	-0.006	92	579563	4.00	3.58	
29 Acrylonitrile	53	6.478	6.479	-0.001	94	207783	4.00	3.81	
30 1,1,2-Trichloro-1,2,2-trif	101	6.548	6.548	0.000	97	809888	4.00	3.77	
31 Methylene Chloride	84	6.742	6.739	0.003	98	305232	4.00	3.57	

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	6.753	6.753	0.000	97	294729	4.00	3.59	
33 Carbon disulfide	76	6.919	6.916	0.003	98	992410	4.00	3.80	
34 trans-1,2-Dichloroethene	96	7.586	7.587	-0.001	95	353708	4.00	3.83	
35 2-Methylpentane	43	7.597	7.597	0.000	94	706451	4.00	3.75	
36 Methyl tert-butyl ether	73	7.705	7.715	-0.010	96	758096	4.00	4.00	
37 1,1-Dichloroethane	63	8.027	8.025	0.002	100	687439	4.00	3.66	
38 Vinyl acetate	43	8.124	8.125	-0.001	100	648961	4.00	4.17	
39 2-Butanone (MEK)	72	8.592	8.597	-0.005	96	102957	4.00	3.45	
40 Hexane	56	8.614	8.613	0.001	90	300224	4.00	3.71	
41 Isopropyl ether	45	8.770	8.773	-0.003	97	905127	4.00	3.86	
42 cis-1,2-Dichloroethene	96	9.044	9.044	0.000	99	338040	4.00	3.68	
43 Ethyl acetate	43	9.222	9.224	-0.002	100	486683	4.00	3.92	
44 Chloroform	83	9.399	9.395	0.004	97	757083	4.00	3.64	
45 Tert-butyl ethyl ether	59	9.464	9.471	-0.007	94	888552	4.00	3.82	
46 Tetrahydrofuran	42	9.808	9.821	-0.013	93	261903	4.00	3.95	
47 1,1,1-Trichloroethane	97	10.443	10.443	0.000	96	905660	4.00	3.76	
48 1,2-Dichloroethane	62	10.556	10.556	0.000	98	549094	4.00	3.54	
49 n-Butanol	31	10.949	10.957	-0.009	78	79338	4.00	3.66	
50 Cyclohexane	69	11.035	11.031	0.004	74	156430	4.00	3.76	
51 Benzene	78	11.035	11.031	0.004	98	859237	4.00	3.46	
52 Carbon tetrachloride	117	11.056	11.055	0.001	97	994733	4.00	3.77	
53 2,3-Dimethylpentane	71	11.131	11.134	-0.003	90	202801	4.00	3.55	
54 Thiophene	84	11.304	11.302	0.002	99	516119	4.00	3.64	
55 Tert-amyl methyl ether	73	11.476	11.480	-0.004	97	723980	4.00	3.66	
56 Isooctane	57	11.761	11.759	0.002	99	1645159	4.00	3.52	
57 n-Heptane	71	12.121	12.122	-0.001	89	299782	4.00	3.66	
58 1,2-Dichloropropane	63	12.229	12.227	0.002	90	370098	4.00	3.70	
59 Trichloroethene	130	12.256	12.257	-0.001	95	442884	4.00	3.54	
60 Dibromomethane	93	12.347	12.348	-0.001	96	405928	4.00	3.66	
62 Dichlorobromomethane	83	12.487	12.487	0.000	99	776050	4.00	3.84	
61 1,4-Dioxane	88	12.492	12.501	-0.009	84	112981	4.00	3.82	
63 Methyl methacrylate	41	12.557	12.558	-0.001	91	279290	4.00	3.65	
64 Methylcyclohexane	83	13.014	13.014	0.000	92	674601	4.00	3.54	
65 4-Methyl-2-pentanone (MIBK)	43	13.396	13.399	-0.003	95	556003	4.00	3.31	
66 cis-1,3-Dichloropropene	75	13.466	13.466	0.000	94	519520	4.00	3.98	
67 trans-1,3-Dichloropropene	75	14.149	14.149	0.000	97	429638	4.00	4.08	
68 Toluene	91	14.278	14.277	0.001	93	1028413	4.00	3.75	
69 1,1,2-Trichloroethane	83	14.348	14.349	-0.001	99	298075	4.00	3.75	
70 2-Methylthiophene	97	14.429	14.429	0.000	97	875867	4.00	3.83	
71 3-Methylthiophene	97	14.628	14.628	0.000	99	839568	4.00	3.83	
72 2-Hexanone	58	14.714	14.717	-0.003	96	307291	4.00	3.85	
73 n-Octane	85	14.929	14.931	-0.002	90	335449	4.00	3.74	
74 Chlorodibromomethane	129	15.053	15.053	0.000	97	762654	4.00	4.01	
75 Ethylene Dibromide	107	15.344	15.344	0.000	98	551155	4.00	3.80	
76 Tetrachloroethene	129	15.408	15.408	0.000	96	435890	4.00	3.39	
77 2,3-Dimethylheptane	43	16.269	16.269	0.000	93	857705	4.00	3.35	
78 Chlorobenzene	112	16.280	16.279	0.001	94	758472	4.00	3.68	
79 Ethylbenzene	91	16.554	16.557	-0.003	99	1219170	4.00	3.90	
80 2-Ethylthiophene	97	16.662	16.661	0.001	97	939238	4.00	3.97	
81 m-Xylene & p-Xylene	91	16.715	16.715	0.000	100	1796987	8.00	7.40	
82 n-Nonane	57	17.108	17.109	-0.001	87	729041	4.00	4.06	
83 Bromoform	173	17.178	17.179	-0.001	94	632872	4.00	4.43	

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	17.178	17.181	-0.003	99	636582	4.00	4.26	
85 o-Xylene	91	17.242	17.242	0.000	98	973620	4.00	3.73	
86 1,1,2,2-Tetrachloroethane	83	17.560	17.563	-0.003	98	646257	4.00	3.89	
87 1,2,3-Trichloropropane	110	17.721	17.720	0.001	98	184661	4.00	3.92	
88 Isopropylbenzene	105	17.813	17.815	-0.002	96	1292194	4.00	3.94	
89 N-Propylbenzene	120	18.335	18.333	0.001	99	330331	4.00	4.01	
90 2-Chlorotoluene	126	18.383	18.384	-0.001	97	344057	4.00	3.96	
91 4-Ethyltoluene	105	18.474	18.477	-0.003	98	1122676	4.00	4.02	
92 1,3,5-Trimethylbenzene	120	18.544	18.545	-0.001	92	558077	4.00	3.78	
93 Alpha Methyl Styrene	118	18.770	18.771	-0.001	87	449633	4.00	4.39	
94 n-Decane	57	18.803	18.805	-0.002	90	741112	4.00	4.04	
95 tert-Butylbenzene	119	18.959	18.958	0.001	91	1120112	4.00	3.82	
96 1,2,4-Trimethylbenzene	105	18.969	18.971	-0.002	96	955201	4.00	3.82	
97 sec-Butylbenzene	105	19.217	19.218	-0.001	97	1414365	4.00	3.88	
98 1,3-Dichlorobenzene	146	19.244	19.244	0.000	98	511453	4.00	4.01	
99 Benzyl chloride	91	19.314	19.315	-0.001	98	521842	4.00	4.16	
100 1,4-Dichlorobenzene	146	19.330	19.329	0.001	93	438982	4.00	4.02	
101 4-Isopropyltoluene	119	19.373	19.373	0.000	96	1150454	4.00	3.84	
102 1,2,3-Trimethylbenzene	105	19.432	19.432	0.000	98	737400	4.00	3.71	
103 Butylcyclohexane	83	19.475	19.476	-0.001	90	833271	4.00	3.85	
104 2,3-Dihydroindene	117	19.674	19.676	-0.002	94	825803	4.00	3.95	
105 1,2-Dichlorobenzene	146	19.679	19.680	-0.001	97	517072	4.00	3.98	
106 n-Butylbenzene	91	19.798	19.797	0.001	98	922062	4.00	3.99	
107 Indene	116	19.803	19.805	-0.002	88	507931	4.00	4.24	
108 Undecane	57	20.083	20.083	0.000	93	688596	4.00	3.93	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.158	20.158	0.000	98	764381	4.00	3.93	
110 1,2-Dibromo-3-Chloropropan	157	20.271	20.271	0.000	98	176596	4.00	4.14	
111 1,2,4,5-Tetramethylbenzene	119	20.545	20.545	0.000	97	919685	4.00	3.87	
112 1,2,3,5-Tetramethylbenzene	119	20.599	20.603	-0.004	95	577643	4.00	3.76	
113 1,2,3,4-Tetramethylbenzene	119	21.019	21.019	0.000	97	717139	4.00	3.79	
114 Dodecane	57	21.159	21.159	0.000	97	558539	4.00	3.58	
115 1,2,4-Trichlorobenzene	180	21.401	21.399	0.002	94	145399	4.00	4.22	
116 Naphthalene	128	21.541	21.540	0.001	99	341566	4.00	3.74	
117 Benzo(b)thiophene	134	21.632	21.633	-0.001	99	129062	4.00	4.02	
118 Hexachlorobutadiene	225	21.713	21.713	0.000	96	470300	4.00	3.43	
119 1,2,3-Trichlorobenzene	180	21.772	21.772	0.000	96	140342	4.00	3.71	
120 2-Methylnaphthalene	142	22.315	22.314	0.001	100	57318	12.5	9.61	
121 1-Methylnaphthalene	142	22.439	22.439	0.000	99	59070	12.5	9.43	
A 124 Toluene Range	1	14.278	(14.248-14.308)		0	2447394	4.00	4.02	
A 125 C8 Range	1	14.943	(14.891-15.013)		0	2999823	4.00	3.75	
S 126 Xylenes, Total	100				0		12.0	11.1	
S 127 1,2-Dichloroethene, Total	1				0		8.00	7.51	

Reagents:

40L7DNP_00005

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC07.D

Injection Date: 22-Jun-2016 21:14:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L7

Worklist Smp#: 8

Client ID:

Purge Vol: 500.000 mL

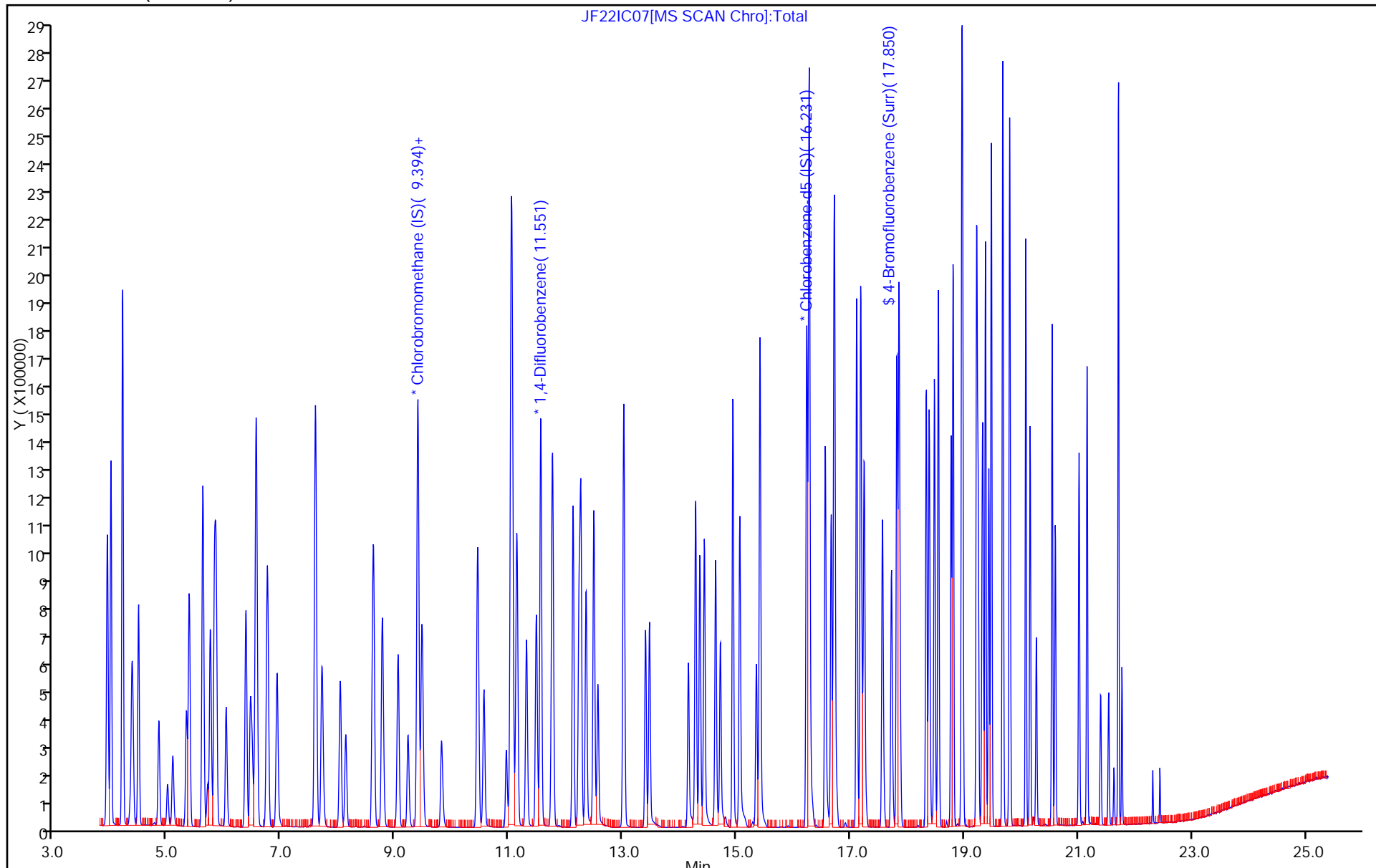
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC07.D

Injection Date: 22-Jun-2016 21:14:30

Instrument ID: MJ

Lims ID: IC L7

Client ID:

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

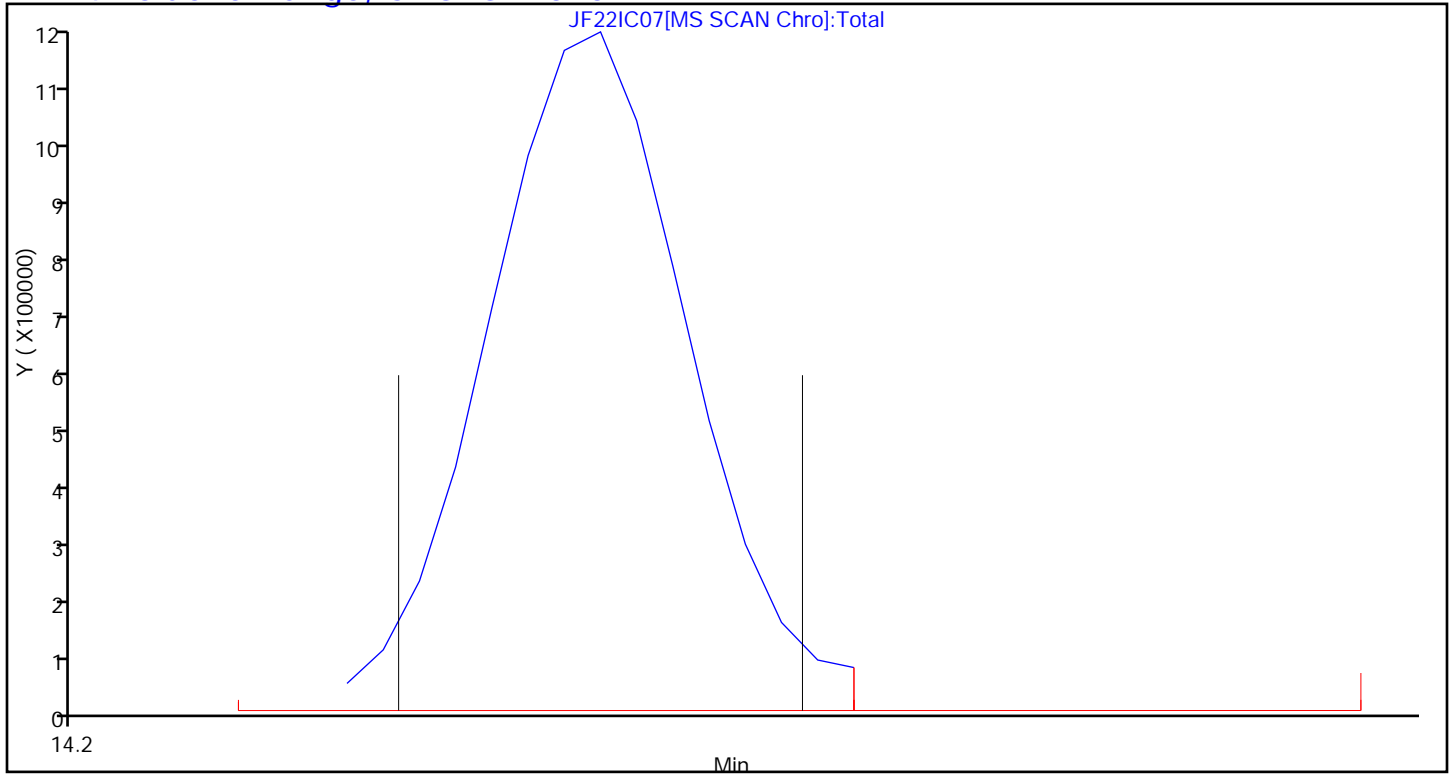
Method: MJ_TO15

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\20160622-3070.b\JF22IC07.D

Injection Date: 22-Jun-2016 21:14:30

Instrument ID: MJ

Lims ID: IC L7

Client ID:

Operator ID: 7126

ALS Bottle#: 12

Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

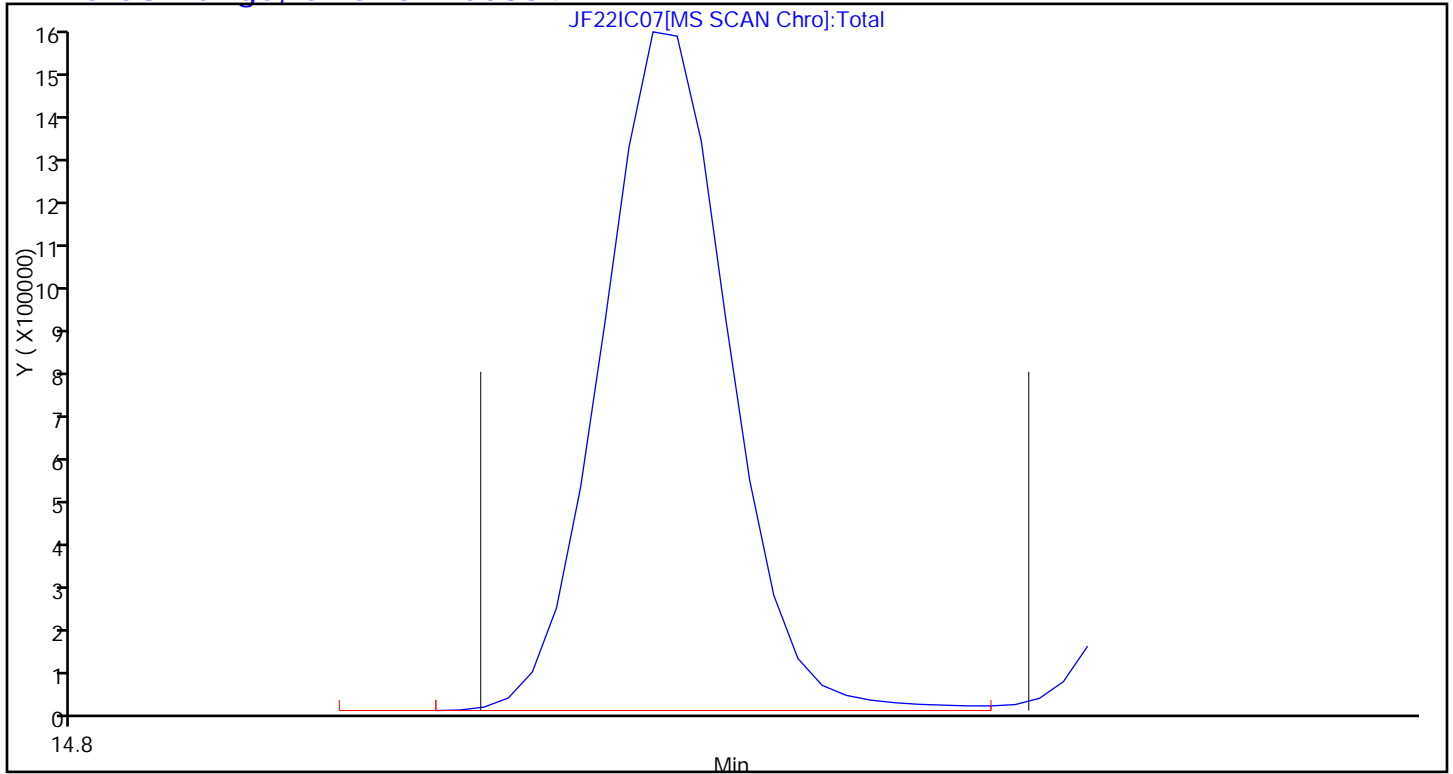
Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

Detector: MS SCAN

A 125 C8 Range, CAS: STL00834



TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC08.D
 Lims ID: IC L8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 22-Jun-2016 22:07:30 ALS Bottle#: 13 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044588
 Misc. Info.: J062216,T15,,140-0003070-009
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Jun-2016 15:12:34 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: tajh

Date: 23-Jun-2016 08:43:07

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	9.389	9.389	0.000	92	299776	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.557	11.552	0.005	95	1334753	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.232	16.231	0.001	87	1294721	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.851	17.854	-0.003	92	783587	4.00	4.10	
6 Chlorodifluoromethane	67	3.923	3.925	-0.002	95	288544	8.00	7.76	
7 Propene	41	3.934	3.939	-0.005	99	650144	8.00	7.52	
8 Dichlorodifluoromethane	85	3.993	3.995	-0.002	99	2500166	8.00	7.59	
9 Chloromethane	52	4.192	4.196	-0.004	51	153848	8.00	6.61	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.198	4.201	-0.003	87	1405458	8.00	7.69	
11 Acetaldehyde	44	4.359	4.364	-0.005	93	606067	40.0	30.0	
12 Vinyl chloride	62	4.381	4.384	-0.003	99	533221	8.00	6.76	
14 Butadiene	54	4.478	4.479	-0.001	77	364739	8.00	7.04	
13 Butane	43	4.478	4.480	-0.002	80	570149	8.00	6.62	
15 Bromomethane	94	4.838	4.837	0.001	98	529966	8.00	7.14	
16 Chloroethane	64	4.989	4.991	-0.002	95	206332	8.00	7.29	
17 Ethanol	31	5.085	5.081	0.004	90	379778	40.0	32.8	
18 Vinyl bromide	106	5.322	5.323	-0.001	98	682940	8.00	7.78	
19 2-Methylbutane	43	5.371	5.372	-0.002	88	760188	8.00	7.35	
20 Trichlorofluoromethane	101	5.607	5.611	-0.004	99	2296411	8.00	7.53	
21 Acrolein	56	5.623	5.623	0.000	91	166781	8.00	6.62	
22 Acetonitrile	40	5.699	5.698	0.001	99	196326	8.00	7.11	
23 Acetone	58	5.742	5.747	-0.005	97	600267	24.0	17.5	
24 Isopropyl alcohol	45	5.817	5.819	-0.002	96	2507678	24.0	21.9	
25 Pentane	72	5.844	5.845	-0.001	100	97557	8.00	7.56	
26 Ethyl ether	31	6.021	6.027	-0.006	87	410197	8.00	7.00	
27 1,1-Dichloroethene	96	6.366	6.368	-0.002	94	696021	8.00	7.85	
28 2-Methyl-2-propanol	59	6.452	6.457	-0.005	92	1237494	8.00	7.92	
29 Acrylonitrile	53	6.479	6.479	0.000	93	377050	8.00	7.18	
30 1,1,2-Trichloro-1,2,2-trif	101	6.549	6.548	0.001	97	1546698	8.00	7.46	
31 Methylene Chloride	84	6.737	6.739	-0.002	97	583873	8.00	7.09	

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	6.753	6.753	0.000	98	573796	8.00	7.26	
33 Carbon disulfide	76	6.914	6.916	-0.002	99	1953890	8.00	7.76	
34 trans-1,2-Dichloroethene	96	7.587	7.587	0.000	95	665147	8.00	7.47	
35 2-Methylpentane	43	7.598	7.597	0.001	93	1276291	8.00	7.02	
36 Methyl tert-butyl ether	73	7.705	7.715	-0.010	96	1326657	8.00	7.25	
37 1,1-Dichloroethane	63	8.028	8.025	0.003	100	1302641	8.00	7.19	
38 Vinyl acetate	43	8.125	8.125	0.000	100	1103728	8.00	7.36	
39 2-Butanone (MEK)	72	8.587	8.597	-0.010	97	193612	8.00	6.73	
40 Hexane	56	8.614	8.613	0.001	91	572625	8.00	7.33	
41 Isopropyl ether	45	8.765	8.773	-0.008	97	1604773	8.00	7.09	
42 cis-1,2-Dichloroethene	96	9.045	9.044	0.001	98	641922	8.00	7.24	
43 Ethyl acetate	43	9.222	9.224	-0.002	99	899864	8.00	7.51	
44 Chloroform	83	9.400	9.395	0.005	96	1390825	8.00	6.93	
45 Tert-butyl ethyl ether	59	9.464	9.471	-0.007	94	1627729	8.00	7.26	
46 Tetrahydrofuran	42	9.803	9.821	-0.018	92	469029	8.00	7.34	
47 1,1,1-Trichloroethane	97	10.443	10.443	0.000	96	1638831	8.00	7.06	
48 1,2-Dichloroethane	62	10.556	10.556	0.000	98	987874	8.00	6.78	
49 n-Butanol	31	10.944	10.957	-0.013	82	179047	8.00	8.80	
50 Cyclohexane	69	11.030	11.031	-0.001	92	277573	8.00	7.10	
51 Benzene	78	11.035	11.031	0.004	99	1527500	8.00	6.56	
52 Carbon tetrachloride	117	11.057	11.055	0.002	98	1765814	8.00	7.12	
53 2,3-Dimethylpentane	71	11.132	11.134	-0.002	90	374753	8.00	6.99	
54 Thiophene	84	11.304	11.302	0.002	99	949009	8.00	7.13	
55 Tert-amyl methyl ether	73	11.476	11.480	-0.004	97	1344086	8.00	6.75	
56 Isooctane	57	11.756	11.759	-0.003	98	2905240	8.00	6.62	
57 n-Heptane	71	12.122	12.122	0.000	88	557515	8.00	7.25	
58 1,2-Dichloropropane	63	12.224	12.227	-0.003	91	664536	8.00	7.07	
59 Trichloroethene	130	12.256	12.257	-0.001	95	809617	8.00	6.89	
60 Dibromomethane	93	12.348	12.348	0.000	96	746153	8.00	7.17	
62 Dichlorobromomethane	83	12.488	12.487	0.001	99	1402039	8.00	7.39	
61 1,4-Dioxane	88	12.493	12.501	-0.008	83	227685	8.00	8.20	
63 Methyl methacrylate	41	12.557	12.558	-0.001	90	516447	8.00	7.19	
64 Methylcyclohexane	83	13.015	13.014	0.001	93	1236865	8.00	6.92	
65 4-Methyl-2-pentanone (MIBK)	43	13.397	13.399	-0.002	95	1131908	8.00	7.18	
66 cis-1,3-Dichloropropene	75	13.467	13.466	0.001	93	940942	8.00	7.67	
67 trans-1,3-Dichloropropene	75	14.150	14.149	0.001	97	835409	8.00	7.89	
68 Toluene	91	14.279	14.277	0.002	93	1807350	8.00	6.56	
69 1,1,2-Trichloroethane	83	14.349	14.349	0.000	99	544854	8.00	6.82	
70 2-Methylthiophene	97	14.430	14.429	0.001	97	1574396	8.00	6.85	
71 3-Methylthiophene	97	14.629	14.628	0.001	99	1518071	8.00	6.88	
72 2-Hexanone	58	14.709	14.717	-0.008	97	629308	8.00	7.84	
73 n-Octane	85	14.930	14.931	-0.001	88	599701	8.00	6.64	
74 Chlorodibromomethane	129	15.054	15.053	0.001	97	1409503	8.00	7.37	
75 Ethylene Dibromide	107	15.344	15.344	0.000	98	1044626	8.00	7.16	
76 Tetrachloroethene	129	15.409	15.408	0.001	96	794219	8.00	6.15	
77 2,3-Dimethylheptane	43	16.269	16.269	0.000	91	1422600	8.00	5.53	
78 Chlorobenzene	112	16.280	16.279	0.001	93	1366684	8.00	6.59	
79 Ethylbenzene	91	16.554	16.557	-0.003	98	2117749	8.00	6.74	
80 2-Ethylthiophene	97	16.662	16.661	0.001	97	1672366	8.00	7.04	
81 m-Xylene & p-Xylene	91	16.716	16.715	0.001	99	3061379	16.0	12.5	
82 n-Nonane	57	17.108	17.109	-0.001	87	1270603	8.00	7.03	
83 Bromoform	173	17.178	17.179	-0.001	96	1235633	8.00	8.59	

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	17.178	17.181	-0.003	98	1161198	8.00	7.74	
85 o-Xylene	91	17.243	17.242	0.001	99	1708918	8.00	6.52	
86 1,1,2,2-Tetrachloroethane	83	17.560	17.563	-0.003	98	1208064	8.00	7.24	
87 1,2,3-Trichloropropane	110	17.722	17.720	0.002	97	350332	8.00	7.40	
88 Isopropylbenzene	105	17.813	17.815	-0.002	97	2248024	8.00	6.82	
89 N-Propylbenzene	120	18.330	18.333	-0.003	99	628117	8.00	7.59	
90 2-Chlorotoluene	126	18.383	18.384	-0.001	96	624631	8.00	7.15	
91 4-Ethyltoluene	105	18.475	18.477	-0.002	97	2072618	8.00	7.39	
92 1,3,5-Trimethylbenzene	120	18.545	18.545	0.000	93	1037781	8.00	6.99	
93 Alpha Methyl Styrene	118	18.771	18.771	0.000	87	900610	8.00	8.75	
94 n-Decane	57	18.803	18.805	-0.002	91	1291827	8.00	7.00	
95 tert-Butylbenzene	119	18.959	18.958	0.001	90	2028581	8.00	6.87	
96 1,2,4-Trimethylbenzene	105	18.970	18.971	-0.001	95	1771506	8.00	7.05	
97 sec-Butylbenzene	105	19.217	19.218	-0.001	97	2557663	8.00	6.99	
98 1,3-Dichlorobenzene	146	19.244	19.244	0.000	98	1052391	8.00	8.20	
99 Benzyl chloride	91	19.314	19.315	-0.001	98	1184773	8.00	9.40	
100 1,4-Dichlorobenzene	146	19.325	19.329	-0.004	93	953235	8.00	8.68	
101 4-Isopropyltoluene	119	19.373	19.373	0.000	95	2185786	8.00	7.26	
102 1,2,3-Trimethylbenzene	105	19.432	19.432	0.000	98	1415266	8.00	7.09	
103 Butylcyclohexane	83	19.475	19.476	-0.001	90	1455558	8.00	6.68	
104 2,3-Dihydroindene	117	19.675	19.676	-0.002	94	1572283	8.00	7.49	
105 1,2-Dichlorobenzene	146	19.680	19.680	0.000	96	1039806	8.00	7.96	
106 n-Butylbenzene	91	19.793	19.797	-0.004	98	1812485	8.00	7.80	
107 Indene	116	19.804	19.805	-0.001	88	1043744	8.00	8.66	
108 Undecane	57	20.083	20.083	0.000	93	1326289	8.00	7.53	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.159	20.158	0.001	98	1566098	8.00	8.01	
110 1,2-Dibromo-3-Chloropropan	157	20.266	20.271	-0.005	98	417334	8.00	9.72	
111 1,2,4,5-Tetramethylbenzene	119	20.546	20.545	0.001	97	1906908	8.00	7.97	
112 1,2,3,5-Tetramethylbenzene	119	20.600	20.603	-0.003	95	1215600	8.00	7.87	
113 1,2,3,4-Tetramethylbenzene	119	21.019	21.019	0.000	97	1528285	8.00	8.03	
114 Dodecane	57	21.159	21.159	0.000	99	1249421	8.00	7.98	
115 1,2,4-Trichlorobenzene	180	21.401	21.399	0.002	95	410410	8.00	11.8	
116 Naphthalene	128	21.541	21.540	0.001	98	884843	8.00	9.63	
117 Benzo(b)thiophene	134	21.633	21.633	0.000	99	361623	8.00	11.2	
118 Hexachlorobutadiene	225	21.713	21.713	0.000	95	1002249	8.00	7.26	
119 1,2,3-Trichlorobenzene	180	21.772	21.772	0.000	96	380574	8.00	10.0	
120 2-Methylnaphthalene	142	22.316	22.314	0.002	99	189512	25.0	31.6	
121 1-Methylnaphthalene	142	22.440	22.439	0.001	99	198948	25.0	31.6	
A 124 Toluene Range	1	14.279	(14.249-14.309)		0	4222753	8.00	6.90	
A 125 C8 Range	1	14.946	(14.897-15.019)		0	5268215	8.00	6.54	
S 126 Xylenes, Total	100				0		24.0	19.1	
S 127 1,2-Dichloroethene, Total	1				0		16.0	14.7	

Reagents:

40L8DNP_00005

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC08.D

Injection Date: 22-Jun-2016 22:07:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L8

Worklist Smp#: 9

Client ID:

Purge Vol: 500.000 mL

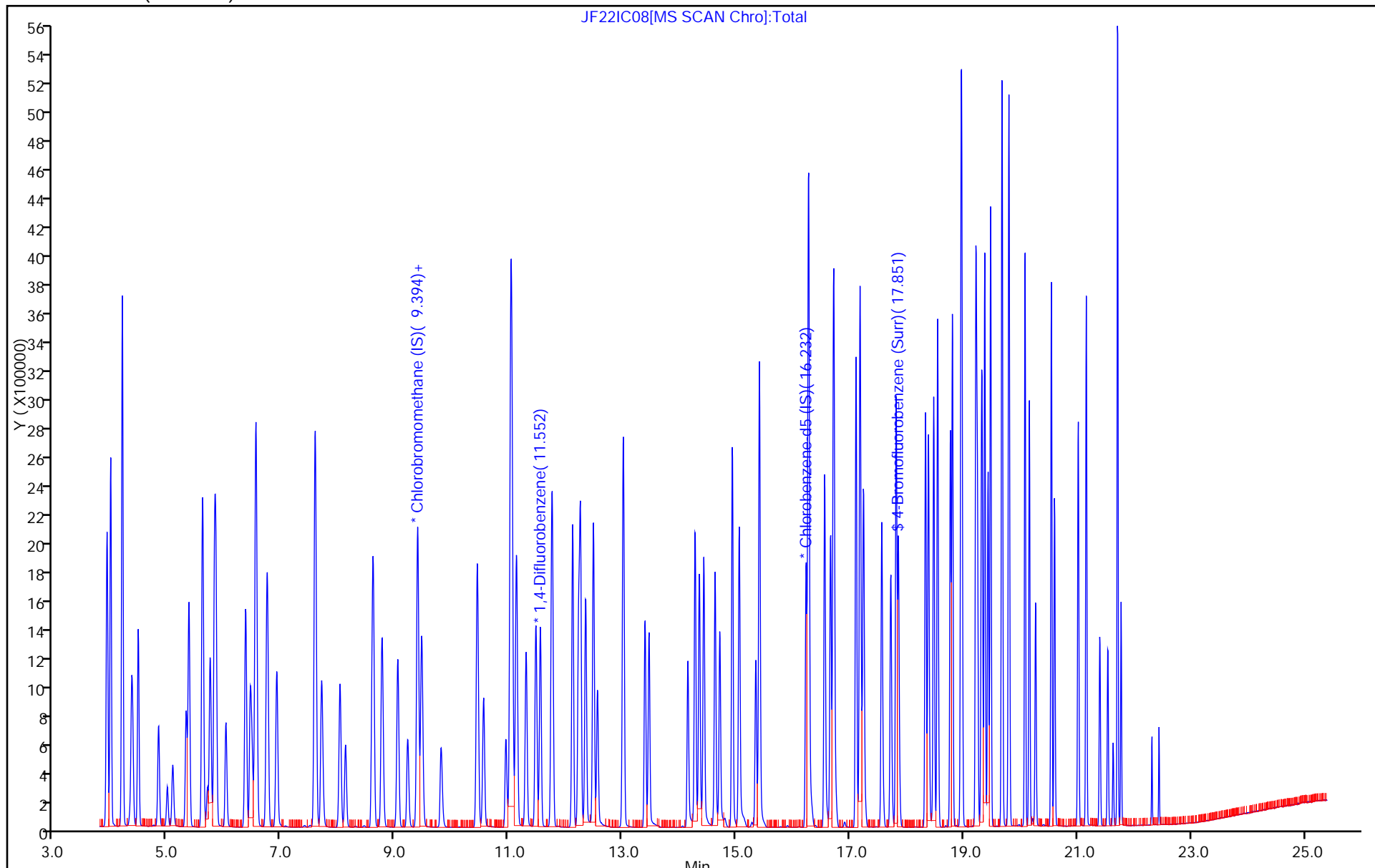
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC08.D

Injection Date: 22-Jun-2016 22:07:30

Instrument ID: MJ

Lims ID: IC L8

Client ID:

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

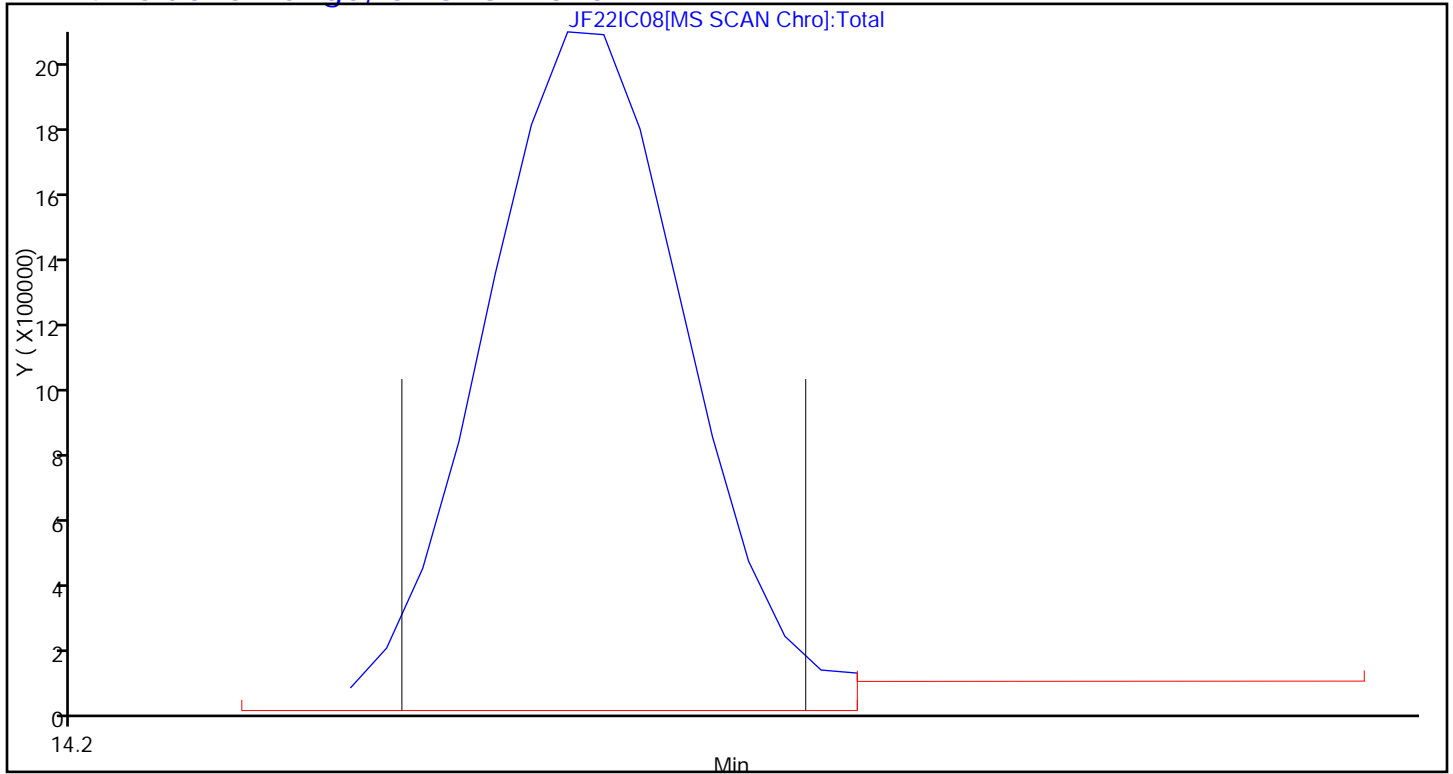
Method: MJ_TO15

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\20160622-3070.b\JF22IC08.D

Injection Date: 22-Jun-2016 22:07:30

Instrument ID: MJ

Lims ID: IC L8

Client ID:

Operator ID: 7126

ALS Bottle#: 13

Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

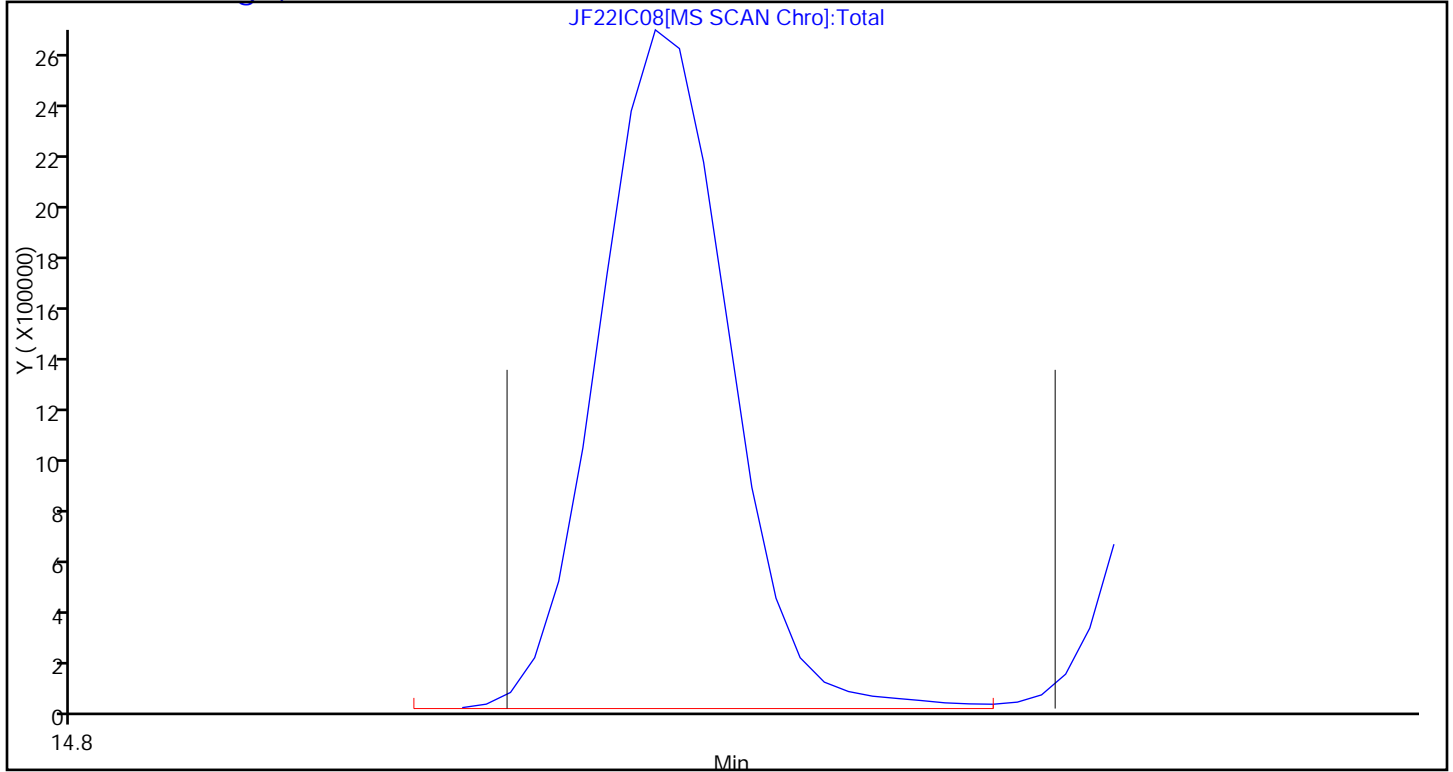
Method: MJ_TO15

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\20160622-3070.b\JF22IC09.D
 Lims ID: IC L9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 22-Jun-2016 23:00:30 ALS Bottle#: 14 Worklist Smp#: 10
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044589
 Misc. Info.: J062216,T15,,140-0003070-010
 Operator ID: 7126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Jun-2016 15:12:39 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: tajh

Date: 23-Jun-2016 08:43:45

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	9.393	9.389	0.004	90	324648	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.555	11.552	0.003	95	1456404	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.230	16.231	-0.001	87	1438583	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.855	17.854	0.001	93	919690	4.00	4.33	
6 Chlorodifluoromethane	67	3.927	3.925	0.002	95	568696	16.0	14.1	
7 Propene	41	3.938	3.939	-0.001	99	1164099	16.0	12.4	
8 Dichlorodifluoromethane	85	3.997	3.995	0.002	98	4418618	16.0	12.4	
9 Chloromethane	52	4.196	4.196	0.000	99	302773	16.0	12.0	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.202	4.201	0.001	86	2421902	16.0	12.2	
11 Acetaldehyde	44	4.363	4.364	-0.001	90	1336036	80.0	61.1	
12 Vinyl chloride	62	4.385	4.384	0.001	98	1077395	16.0	12.6	
14 Butadiene	54	4.481	4.479	0.002	78	746524	16.0	13.3	
13 Butane	43	4.481	4.480	0.001	80	1159255	16.0	12.4	
15 Bromomethane	94	4.836	4.837	-0.001	98	1110251	16.0	13.8	
16 Chloroethane	64	4.992	4.991	0.001	96	437796	16.0	14.3	
17 Ethanol	31	5.089	5.081	0.008	90	840205	80.0	67.0	
18 Vinyl bromide	106	5.326	5.323	0.003	98	1405653	16.0	14.8	
19 2-Methylbutane	43	5.374	5.372	0.002	87	1423234	16.0	12.7	
20 Trichlorofluoromethane	101	5.611	5.611	0.000	98	4442645	16.0	13.5	
21 Acrolein	56	5.627	5.623	0.004	92	389500	16.0	14.3	
22 Acetonitrile	40	5.703	5.698	0.005	98	485627	16.0	16.2	
23 Acetone	58	5.746	5.747	-0.001	96	1492629	48.0	40.1	
24 Isopropyl alcohol	45	5.826	5.819	0.007	96	4376471	48.0	35.3	
25 Pentane	72	5.848	5.845	0.003	99	187143	16.0	13.4	
26 Ethyl ether	31	6.020	6.027	-0.007	85	994775	16.0	15.7	
27 1,1-Dichloroethene	96	6.370	6.368	0.002	96	1428851	16.0	14.9	
28 2-Methyl-2-propanol	59	6.456	6.457	-0.001	92	2382939	16.0	14.1	
29 Acrylonitrile	53	6.483	6.479	0.004	93	912254	16.0	16.0	
30 1,1,2-Trichloro-1,2,2-trif	101	6.553	6.548	0.005	95	3036710	16.0	13.5	
31 Methylene Chloride	84	6.741	6.739	0.002	94	1180787	16.0	13.2	

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	6.757	6.753	0.004	99	1045840	16.0	12.2	
33 Carbon disulfide	76	6.918	6.916	0.002	99	3799723	16.0	13.9	
34 trans-1,2-Dichloroethene	96	7.591	7.587	0.004	96	1345260	16.0	14.0	
35 2-Methylpentane	43	7.602	7.597	0.005	91	2327114	16.0	11.8	
36 Methyl tert-butyl ether	73	7.704	7.715	-0.011	96	3205110	16.0	16.2	
37 1,1-Dichloroethane	63	8.032	8.025	0.007	100	2777161	16.0	14.2	
38 Vinyl acetate	43	8.129	8.125	0.004	100	2762820	16.0	17.0	
39 2-Butanone (MEK)	72	8.591	8.597	-0.006	97	450257	16.0	14.4	
40 Hexane	56	8.613	8.613	0.000	91	1143308	16.0	13.5	
41 Isopropyl ether	45	8.769	8.773	-0.004	94	3515890	16.0	14.3	
42 cis-1,2-Dichloroethene	96	9.049	9.044	0.005	97	1430321	16.0	14.9	
43 Ethyl acetate	43	9.221	9.224	-0.003	99	2028801	16.0	15.6	
44 Chloroform	83	9.398	9.395	0.003	97	3097387	16.0	14.3	
45 Tert-butyl ethyl ether	59	9.468	9.471	-0.003	94	3703920	16.0	15.3	
46 Tetrahydrofuran	42	9.802	9.821	-0.019	91	1159161	16.0	16.7	
47 1,1,1-Trichloroethane	97	10.447	10.443	0.004	97	3616674	16.0	14.4	
48 1,2-Dichloroethane	62	10.555	10.556	-0.001	98	2263123	16.0	14.2	
49 n-Butanol	31	10.953	10.957	-0.004	79	360182	16.0	16.2	
50 Cyclohexane	69	11.034	11.031	0.003	93	556586	16.0	13.1	
51 Benzene	78	11.034	11.031	0.003	99	3094582	16.0	12.2	
52 Carbon tetrachloride	117	11.055	11.055	0.000	99	3797031	16.0	14.0	
53 2,3-Dimethylpentane	71	11.136	11.134	0.002	89	812542	16.0	13.9	
54 Thiophene	84	11.308	11.302	0.006	99	2143783	16.0	14.8	
55 Tert-amyl methyl ether	73	11.475	11.480	-0.005	97	3028475	16.0	13.7	
56 Isooctane	57	11.760	11.759	0.001	97	5750307	16.0	12.0	
57 n-Heptane	71	12.126	12.122	0.004	85	1201125	16.0	14.3	
58 1,2-Dichloropropane	63	12.228	12.227	0.001	90	1418404	16.0	13.8	
59 Trichloroethene	130	12.260	12.257	0.003	96	1873495	16.0	14.6	
60 Dibromomethane	93	12.352	12.348	0.004	94	1694078	16.0	14.9	
62 Dichlorobromomethane	83	12.491	12.487	0.004	99	3132699	16.0	15.1	
61 1,4-Dioxane	88	12.491	12.501	-0.010	81	445938	16.0	14.7	
63 Methyl methacrylate	41	12.561	12.558	0.003	88	1215024	16.0	15.5	
64 Methylcyclohexane	83	13.013	13.014	-0.001	94	2607782	16.0	13.4	
65 4-Methyl-2-pentanone (MIBK)	43	13.395	13.399	-0.004	93	2205881	16.0	12.8	
66 cis-1,3-Dichloropropene	75	13.471	13.466	0.004	93	2221824	16.0	16.6	
67 trans-1,3-Dichloropropene	75	14.154	14.149	0.005	97	2103301	16.0	17.9	
68 Toluene	91	14.277	14.277	0.000	94	4182412	16.0	13.7	
69 1,1,2-Trichloroethane	83	14.353	14.349	0.004	98	1272593	16.0	14.3	
70 2-Methylthiophene	97	14.433	14.429	0.004	96	3610870	16.0	14.1	
71 3-Methylthiophene	97	14.632	14.628	0.004	98	3544888	16.0	14.5	
72 2-Hexanone	58	14.713	14.717	-0.004	99	1327800	16.0	14.9	
73 n-Octane	85	14.934	14.931	0.003	93	1338237	16.0	13.3	
74 Chlorodibromomethane	129	15.057	15.053	0.004	96	3355987	16.0	15.8	
75 Ethylene Dibromide	107	15.348	15.344	0.004	99	2590955	16.0	16.0	
76 Tetrachloroethene	129	15.413	15.408	0.004	97	1858547	16.0	12.9	
77 2,3-Dimethylheptane	43	16.268	16.269	-0.001	84	2577374	16.0	9.02	
78 Chlorobenzene	112	16.279	16.279	0.000	93	3159295	16.0	13.7	
79 Ethylbenzene	91	16.558	16.557	0.001	97	5134454	16.0	14.7	
80 2-Ethylthiophene	97	16.661	16.661	0.000	97	4122460	16.0	15.6	
81 m-Xylene & p-Xylene	91	16.720	16.715	0.005	96	7113518	32.0	26.2	
82 n-Nonane	57	17.112	17.109	0.003	82	2638502	16.0	13.1	
83 Bromoform	173	17.182	17.179	0.003	95	3162893	16.0	19.8	

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	17.182	17.181	0.001	97	2966957	16.0	17.8	
85 o-Xylene	91	17.242	17.242	0.000	99	4222274	16.0	14.5	
86 1,1,2,2-Tetrachloroethane	83	17.564	17.563	0.001	97	2836714	16.0	15.3	
87 1,2,3-Trichloropropane	110	17.720	17.720	0.000	96	921976	16.0	17.5	
88 Isopropylbenzene	105	17.817	17.815	0.002	97	5373006	16.0	14.7	
89 N-Propylbenzene	120	18.334	18.333	0.001	96	1679331	16.0	18.3	
90 2-Chlorotoluene	126	18.387	18.384	0.003	93	1651961	16.0	17.0	
91 4-Ethyltoluene	105	18.479	18.477	0.002	95	4995270	16.0	16.0	
92 1,3,5-Trimethylbenzene	120	18.549	18.545	0.004	94	2624406	16.0	15.9	
93 Alpha Methyl Styrene	118	18.769	18.771	-0.002	86	2385158	16.0	20.9	
94 n-Decane	57	18.807	18.805	0.002	93	2738103	16.0	13.3	
95 tert-Butylbenzene	119	18.958	18.958	0.000	91	4729064	16.0	14.4	
96 1,2,4-Trimethylbenzene	105	18.974	18.971	0.003	94	4084905	16.0	14.6	
97 sec-Butylbenzene	105	19.221	19.218	0.003	96	5708680	16.0	14.0	
98 1,3-Dichlorobenzene	146	19.243	19.244	-0.001	98	2901271	16.0	20.3	
99 Benzyl chloride	91	19.313	19.315	-0.002	98	3118761	16.0	22.3	
100 1,4-Dichlorobenzene	146	19.329	19.329	0.000	93	2699517	16.0	22.1	
101 4-Isopropyltoluene	119	19.377	19.373	0.004	93	4893500	16.0	14.6	
102 1,2,3-Trimethylbenzene	105	19.431	19.432	-0.001	97	3373450	16.0	15.2	
103 Butylcyclohexane	83	19.479	19.476	0.003	90	3197669	16.0	13.2	
104 2,3-Dihydroindene	117	19.678	19.676	0.002	94	3754466	16.0	16.1	
105 1,2-Dichlorobenzene	146	19.684	19.680	0.004	95	2746451	16.0	18.9	
106 n-Butylbenzene	91	19.797	19.797	0.000	98	3999716	16.0	15.5	
107 Indene	116	19.808	19.805	0.003	90	2643801	16.0	19.8	
108 Undecane	57	20.082	20.083	-0.001	90	2716283	16.0	13.9	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.157	20.158	-0.001	96	3582044	16.0	16.5	
110 1,2-Dibromo-3-Chloropropan	157	20.270	20.271	-0.001	97	1146153	16.0	24.0	
111 1,2,4,5-Tetramethylbenzene	119	20.545	20.545	0.000	97	4194777	16.0	15.8	
112 1,2,3,5-Tetramethylbenzene	119	20.604	20.603	0.001	96	2749344	16.0	16.0	
113 1,2,3,4-Tetramethylbenzene	119	21.018	21.019	-0.001	98	3458409	16.0	16.4	
114 Dodecane	57	21.158	21.159	-0.001	99	2423987	16.0	13.9	
115 1,2,4-Trichlorobenzene	180	21.400	21.399	0.001	95	1298586	16.0	33.7	
116 Naphthalene	128	21.540	21.540	0.000	99	2401988	16.0	23.5	
117 Benzo(b)thiophene	134	21.631	21.633	-0.002	99	1108826	16.0	30.9	
118 Hexachlorobutadiene	225	21.712	21.713	-0.001	95	2406632	16.0	15.7	
119 1,2,3-Trichlorobenzene	180	21.771	21.772	-0.001	96	1083656	16.0	25.6	
120 2-Methylnaphthalene	142	22.314	22.314	0.000	98	511700	50.0	76.8	
121 1-Methylnaphthalene	142	22.438	22.439	-0.001	99	489210	50.0	69.9	
A 124 Toluene Range	1	14.277	(14.247-14.307)		0	10035359	16.0	14.8	
A 125 C8 Range	1	14.944	(14.890-15.044)		0	11231032	16.0	12.6	
S 126 Xylenes, Total	100				0		48.0	40.7	
S 127 1,2-Dichloroethene, Total	1				0		32.0	28.9	

Reagents:

40L9DNP_00007

Amount Added: 200.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D

Injection Date: 22-Jun-2016 23:00:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: IC L9

Worklist Smp#: 10

Client ID:

Purge Vol: 500.000 mL

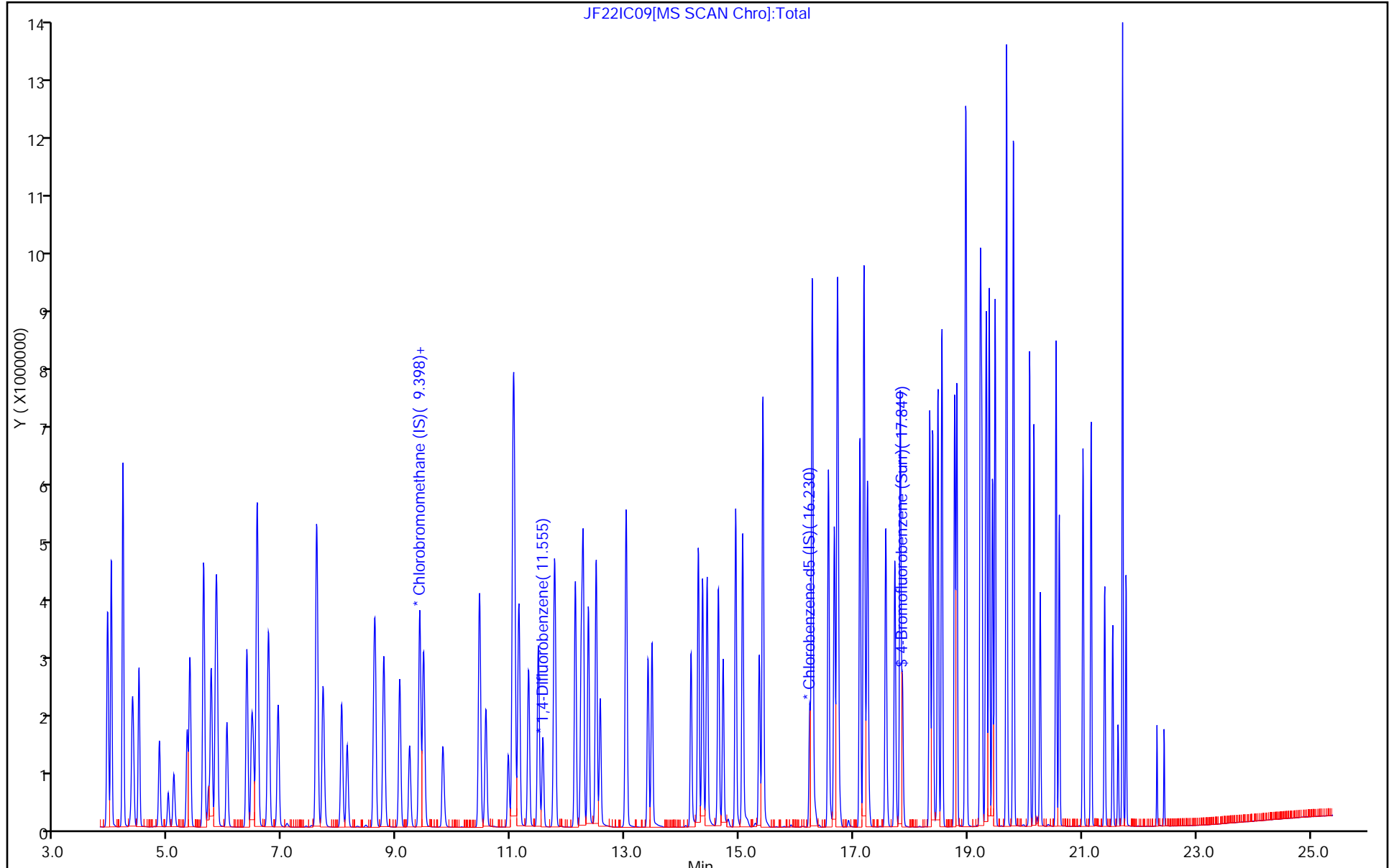
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D

Injection Date: 22-Jun-2016 23:00:30

Instrument ID: MJ

Lims ID: IC L9

Client ID:

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

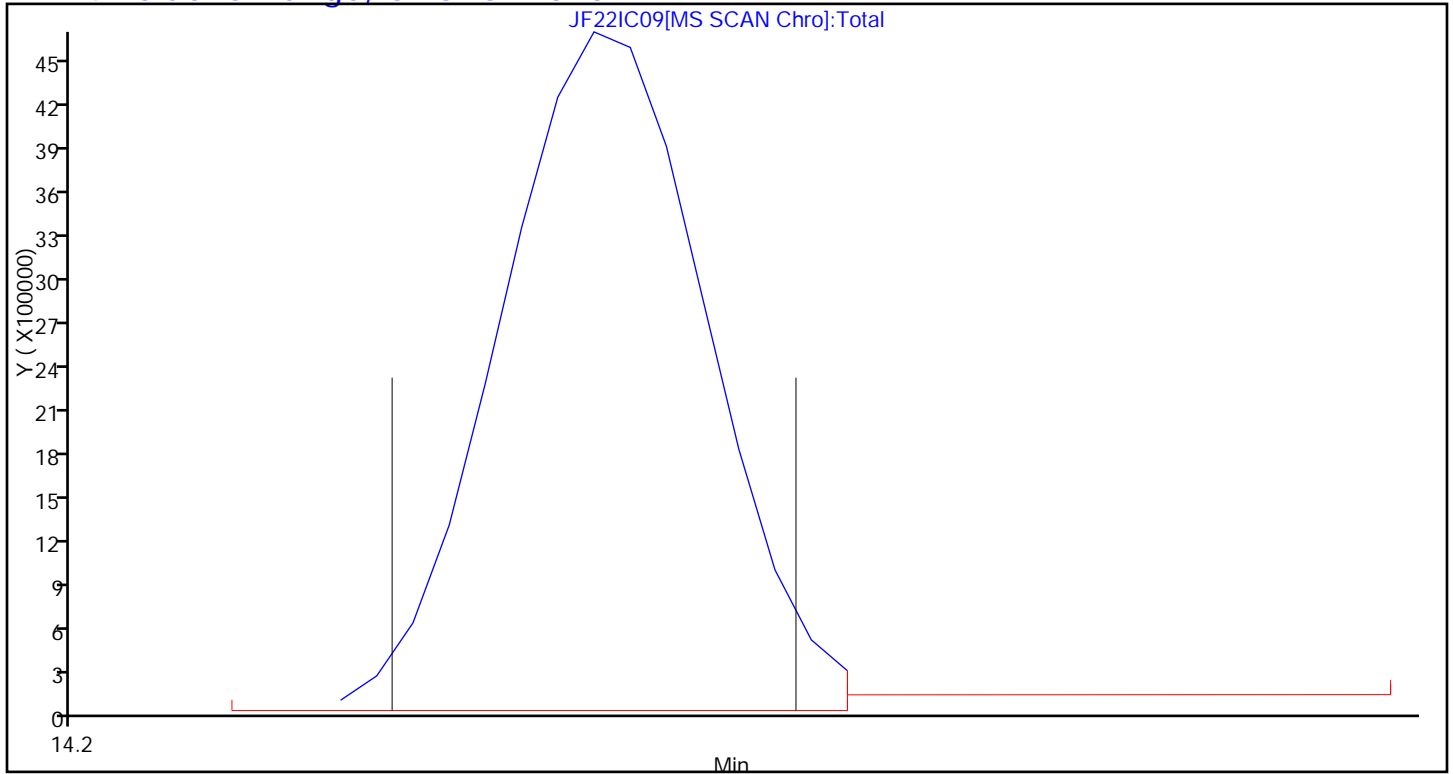
Method: MJ_TO15

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\20160622-3070.b\JF22IC09.D

Injection Date: 22-Jun-2016 23:00:30

Instrument ID: MJ

Lims ID: IC L9

Client ID:

Operator ID: 7126

ALS Bottle#: 14

Worklist Smp#: 10

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

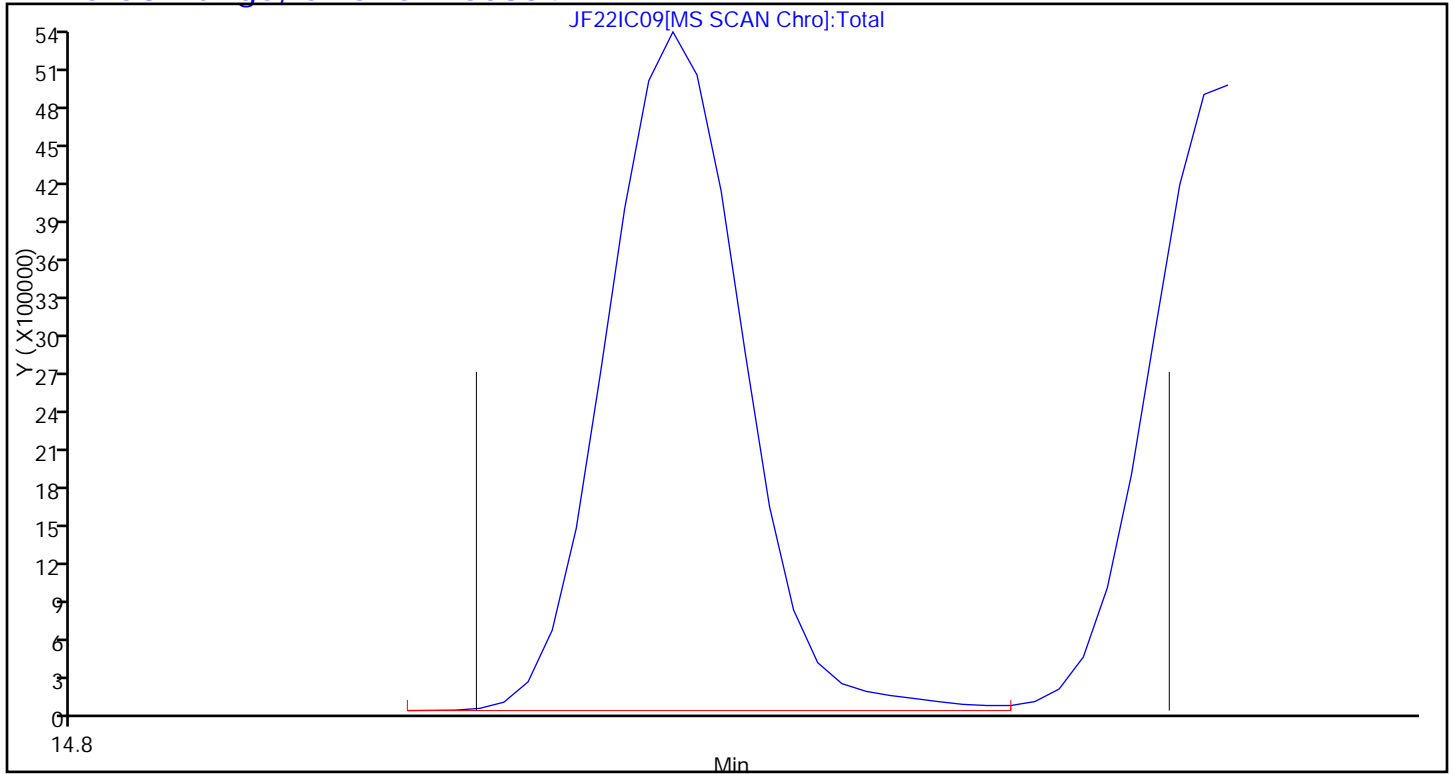
Method: MJ_TO15

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.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: ICV 140-5925/12 Calibration Date: 07/20/2016 21:45
 Instrument ID: MG Calib Start Date: 07/20/2016 14:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 07/20/2016 20:22
 Lab File ID: GG20ICV.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	0.3324	0.2827		1.70	2.00	-14.9	35.0
Propene	Ave	1.424	1.221		1.71	2.00	-14.3	35.0
Dichlorodifluoromethane	Ave	3.440	3.196		1.86	2.00	-7.1	35.0
Chloromethane	Ave	0.3895	0.3657		1.88	2.00	-6.1	35.0
1,2-Dichlorotetrafluoroethane	Ave	2.158	2.036		1.89	2.00	-5.7	35.0
Acetaldehyde	Ave	0.6438	0.4198		6.52	10.0	-34.8	35.0
Vinyl chloride	Ave	1.259	1.203		1.91	2.00	-4.4	35.0
1,3-Butadiene	Ave	1.034	0.9423		1.82	2.00	-8.9	35.0
Butane	Ave	2.237	2.091		1.87	2.00	-6.5	35.0
Bromomethane	Ave	1.067	0.9493		1.78	2.00	-11.0	35.0
Chloroethane	Ave	0.6102	0.5530		1.81	2.00	-9.4	35.0
Ethanol	Ave	0.5737	0.4252		7.41	10.0	-25.9	35.0
Vinyl bromide	Ave	1.027	0.9865		1.92	2.00	-3.9	35.0
2-Methylbutane	Ave	1.510	1.383		1.83	2.00	-8.5	35.0
Acrolein	LinF		0.1944		1.50	2.00	-24.9	35.0
Trichlorofluoromethane	Ave	3.232	2.964		1.83	2.00	-8.3	35.0
Acetonitrile	Ave	0.5136	0.3905		1.52	2.00	-24.0	35.0
Acetone	Ave	0.5566	0.3882		4.18	6.00	-30.3	35.0
Isopropyl alcohol	Ave	1.777	1.268		4.28	6.00	-28.7	35.0
Pentane	Ave	0.1879	0.1796		1.91	2.00	-4.4	35.0
Ethyl ether	Ave	1.275	1.053		1.65	2.00	-17.4	35.0
1,1-Dichloroethene	Ave	0.9757	0.8675		1.78	2.00	-11.1	35.0
Acrylonitrile	Ave	0.6542	0.5027		1.54	2.00	-23.2	35.0
t-Butyl alcohol	Ave	1.747	1.326		1.52	2.00	-24.1	35.0
1,1,2-Trichlorotrifluoroethane	Ave	1.975	1.723		1.74	2.00	-12.8	35.0
Methylene Chloride	Ave	0.9736	0.8200		1.68	2.00	-15.8	35.0
3-Chloropropene	Ave	1.421	1.256		1.77	2.00	-11.6	35.0
Carbon disulfide	Ave	3.158	2.953		1.87	2.00	-6.5	35.0
trans-1,2-Dichloroethene	Ave	1.174	1.073		1.83	2.00	-8.6	35.0
2-Methylpentane	Ave	3.019	2.959		1.96	2.00	-2.0	35.0
Methyl tert-butyl ether	Ave	3.103	2.600		1.68	2.00	-16.2	35.0
1,1-Dichloroethane	Ave	2.389	2.146		1.80	2.00	-10.2	35.0
Vinyl acetate	Ave	3.508	3.049		1.74	2.00	-13.1	35.0
2-Butanone	Lin1		0.4381		1.54	2.00	-22.9	35.0
Hexane	Ave	1.057	0.9260		1.75	2.00	-12.4	35.0
Isopropyl ether	Ave	4.600	3.843		1.67	2.00	-16.5	35.0
cis-1,2-Dichloroethene	Ave	1.237	1.141		1.85	2.00	-7.7	35.0
Ethyl acetate	Ave	2.886	2.253		1.56	2.00	-22.0	35.0
Chloroform	Ave	2.672	2.377		1.78	2.00	-11.0	35.0
Tert-butyl ethyl ether	Ave	3.653	3.363		1.84	2.00	-8.0	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: ICV 140-5925/12 Calibration Date: 07/20/2016 21:45
 Instrument ID: MG Calib Start Date: 07/20/2016 14:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 07/20/2016 20:22
 Lab File ID: GG20ICV.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	1.560	1.294		1.66	2.00	-17.1	35.0
1,1,1-Trichloroethane	Ave	2.947	2.600		1.76	2.00	-11.8	35.0
1,2-Dichloroethane	Ave	0.3971	0.3436		1.73	2.00	-13.5	35.0
1-Butanol	Ave	0.1182	0.0946		1.60	2.00	-20.0	35.0
Benzene	Ave	0.7345	0.6552		1.78	2.00	-10.8	35.0
Cyclohexane	Ave	0.1257	0.1110		1.77	2.00	-11.7	35.0
Carbon tetrachloride	Ave	0.5786	0.5318		1.84	2.00	-8.1	35.0
2,3-Dimethylpentane	Ave	0.1739	0.1389		1.60	2.00	-20.1	35.0
Thiophene	Ave	0.4257	0.3772		1.77	2.00	-11.4	35.0
Tert-amyl methyl ether	Ave	0.6756	0.5898		1.75	2.00	-12.7	35.0
2,2,4-Trimethylpentane	Ave	1.384	1.181		1.71	2.00	-14.7	35.0
Heptane	Ave	0.2770	0.2324		1.68	2.00	-16.1	35.0
1,2-Dichloropropane	Ave	0.2975	0.2474		1.66	2.00	-16.9	35.0
Trichloroethene	Ave	0.3701	0.3429		1.85	2.00	-7.3	35.0
Dibromomethane	Ave	0.3165	0.2749		1.74	2.00	-13.1	35.0
Bromodichloromethane	Ave	0.5705	0.5035		1.76	2.00	-11.8	35.0
1,4-Dioxane	Ave	0.1044	0.0758		1.45	2.00	-27.4	35.0
Methyl methacrylate	Ave	0.4061	0.2999		1.48	2.00	-26.2	35.0
Methylcyclohexane	Ave	0.5682	0.3956		1.39	2.00	-30.4	35.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.4853		1.49	2.00	-25.4	35.0
cis-1,3-Dichloropropene	Ave	0.4329	0.3821		1.77	2.00	-11.7	35.0
trans-1,3-Dichloropropene	Ave	0.4075	0.3650		1.79	2.00	-10.4	35.0
Toluene	Ave	0.8743	0.7891		1.81	2.00	-9.7	35.0
1,1,2-Trichloroethane	Ave	0.2558	0.2205		1.72	2.00	-13.8	35.0
2-Methylthiophene	Ave	0.7284	0.6844		1.88	2.00	-6.0	35.0
3-Methylthiophene	Ave	0.7138	0.6911		1.94	2.00	-3.2	35.0
2-Hexanone	Ave	0.2837	0.2165		1.53	2.00	-23.7	35.0
Octane	Ave	0.3095	0.2805		1.81	2.00	-9.4	35.0
Dibromochloromethane	Ave	0.5476	0.5157		1.88	2.00	-5.8	35.0
1,2-Dibromoethane	Ave	0.4802	0.4452		1.85	2.00	-7.3	35.0
Tetrachloroethene	Ave	0.3494	0.3057		1.75	2.00	-12.5	35.0
Chlorobenzene	Ave	0.6957	0.6312		1.81	2.00	-9.3	35.0
2,3-Dimethylheptane	Ave	1.034	0.9584		1.85	2.00	-7.3	35.0
Ethylbenzene	Ave	1.159	0.9946		1.72	2.00	-14.2	35.0
2-Ethylthiophene	Ave	0.9050	0.7687		1.70	2.00	-15.1	35.0
m-Xylene & p-Xylene	Ave	0.8963	0.7742		3.46	4.00	-13.6	35.0
Bromoform	Ave	0.5968	0.4907		1.64	2.00	-17.8	35.0
Nonane	Ave	0.6248	0.5951		1.90	2.00	-4.8	35.0
Styrene	Ave	0.5928	0.5256		1.77	2.00	-11.3	35.0
o-Xylene	Ave	0.9617	0.8025		1.67	2.00	-16.6	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6548	0.5341		1.63	2.00	-18.4	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: ICV 140-5925/12 Calibration Date: 07/20/2016 21:45
 Instrument ID: MG Calib Start Date: 07/20/2016 14:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 07/20/2016 20:22
 Lab File ID: GG20ICV.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	0.2036	0.1708		1.68	2.00	-16.1	35.0
Isopropylbenzene	Ave	1.343	1.138		1.69	2.00	-15.3	35.0
Propylbenzene	Ave	0.3511	0.3037		1.73	2.00	-13.5	35.0
2-Chlorotoluene	Ave	0.3267	0.2943		1.80	2.00	-9.9	35.0
4-Ethyltoluene	Ave	1.284	1.046		1.63	2.00	-18.6	35.0
1,3,5-Trimethylbenzene	Ave	0.6121	0.5130		1.68	2.00	-16.2	35.0
Alpha Methyl Styrene	Ave	0.4797	0.4107		1.71	2.00	-14.4	35.0
Decane	Ave	0.7655	0.7159		1.87	2.00	-6.5	35.0
tert-Butylbenzene	Ave	1.189	0.995		1.67	2.00	-16.3	35.0
1,2,4-Trimethylbenzene	Ave	1.125	0.9550		1.70	2.00	-15.1	35.0
sec-Butylbenzene	Ave	1.629	1.369		1.68	2.00	-15.9	35.0
1,3-Dichlorobenzene	Ave	0.7289	0.6390		1.75	2.00	-12.3	35.0
Benzyl chloride	Ave	0.8643	0.7160		1.66	2.00	-17.2	35.0
1,4-Dichlorobenzene	Ave	0.6970	0.6269		1.80	2.00	-10.1	35.0
4-Isopropyltoluene	Ave	1.339	1.101		1.64	2.00	-17.8	35.0
1,2,3-Trimethylbenzene	Ave	0.8746	0.7705		1.76	2.00	-11.9	35.0
Butylcyclohexane	Ave	0.8593	0.7469		1.74	2.00	-13.1	35.0
1,2-Dichlorobenzene	Ave	0.7092	0.6118		1.73	2.00	-13.7	35.0
Indane	Ave	1.002	0.7900		1.58	2.00	-21.2	35.0
Indene	Ave	0.7075	0.7388		2.09	2.00	4.4	35.0
Butylbenzene	Ave	1.201	1.051		1.75	2.00	-12.5	35.0
Undecane	Ave	0.8072	0.7426		1.84	2.00	-8.0	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.9574	0.9793		2.05	2.00	2.3	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.2733	0.1823		1.33	2.00	-33.3	35.0
1,2,4,5-Tetramethylbenzene	Ave	1.161	1.030		1.77	2.00	-11.3	35.0
1,2,3,5-Tetramethylbenzene	Ave	0.7132	0.6474		1.82	2.00	-9.2	35.0
1,2,3,4-Tetramethylbenzene	Ave	0.9520	0.8232		1.73	2.00	-13.5	35.0
Dodecane	Ave	0.6564	0.5719		1.74	2.00	-12.9	35.0
1,2,4-Trichlorobenzene	Ave	0.3964	0.4207		2.12	2.00	6.1	35.0
Naphthalene	Ave	0.9366	0.8955		1.91	2.00	-4.4	35.0
Benzo (b) thiophene	Ave	0.4909	0.4439		1.81	2.00	-9.6	35.0
Hexachlorobutadiene	Ave	0.7262	0.6190		1.70	2.00	-14.8	35.0
1,2,3-Trichlorobenzene	Ave	0.4483	0.4315		1.93	2.00	-3.7	35.0
2-Methylnaphthalene	Ave	0.0869	0.1128		8.11	6.25	29.8	50.0
1-Methylnaphthalene	Ave	0.0864	0.1182		8.55	6.25	36.8	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6982	0.7125		4.08	4.00	2.0	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICV.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 20-Jul-2016 21:45:30 ALS Bottle#: 15 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044581/S13
 Misc. Info.: 140-0003204-012
 Operator ID: 403648 Instrument ID: MG
 Sublist:

Method: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Jul-2016 18:24:10 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: barlozhetskayaa Date: 22-Jul-2016 18:24:10

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	8.492	8.501	-0.009	98	450842	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.665	10.669	-0.004	96	2234236	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.438	15.441	-0.003	89	2094327	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.093	17.096	-0.003	96	1492186	4.00	4.08	
6 Chlorodifluoromethane	67	3.693	3.701	-0.008	98	63729	2.00	1.70	
7 Propene	41	3.704	3.710	-0.006	98	275171	2.00	1.71	
8 Dichlorodifluoromethane	85	3.752	3.758	-0.006	100	720510	2.00	1.86	
9 Chloromethane	52	3.914	3.922	-0.008	98	82442	2.00	1.88	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.925	3.932	-0.007	91	458858	2.00	1.89	
11 Acetaldehyde	44	4.054	4.060	-0.006	92	473156	10.0	6.52	
12 Vinyl chloride	62	4.076	4.080	-0.004	99	271155	2.00	1.91	
13 Butadiene	54	4.151	4.160	-0.009	65	212413	2.00	1.82	
14 Butane	43	4.151	4.161	-0.010	86	471350	2.00	1.87	
15 Bromomethane	94	4.443	4.450	-0.007	98	213999	2.00	1.78	
16 Chloroethane	64	4.572	4.580	-0.008	91	124654	2.00	1.81	
17 Ethanol	31	4.658	4.674	-0.016	97	479281	10.0	7.41	
18 Vinyl bromide	106	4.847	4.856	-0.009	99	222387	2.00	1.92	
19 2-Methylbutane	43	4.901	4.907	-0.006	92	311671	2.00	1.83	
21 Acrolein	56	5.095	5.107	-0.012	31	43820	2.00	1.50	
20 Trichlorofluoromethane	101	5.100	5.108	-0.008	99	668150	2.00	1.83	
22 Acetonitrile	40	5.154	5.168	-0.014	98	88015	2.00	1.52	
23 Acetone	58	5.197	5.209	-0.012	99	262549	6.00	4.18	
25 Isopropyl alcohol	45	5.284	5.304	-0.020	96	857456	6.00	4.28	
24 Pentane	72	5.305	5.314	-0.009	98	40474	2.00	1.91	
26 Ethyl ether	31	5.451	5.462	-0.011	89	237467	2.00	1.65	
27 1,1-Dichloroethene	96	5.753	5.761	-0.008	95	195557	2.00	1.78	
28 Acrylonitrile	53	5.839	5.849	-0.010	94	113310	2.00	1.54	
29 2-Methyl-2-propanol	59	5.839	5.860	-0.021	95	298988	2.00	1.52	
30 1,1,2-Trichloro-1,2,2-trif	101	5.925	5.934	-0.009	94	388461	2.00	1.74	
31 Methylene Chloride	84	6.076	6.083	-0.007	96	184852	2.00	1.68	

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	6.093	6.097	-0.004	95	283037	2.00	1.77	
33 Carbon disulfide	76	6.227	6.231	-0.004	100	665557	2.00	1.87	
34 trans-1,2-Dichloroethene	96	6.842	6.847	-0.005	97	241848	2.00	1.83	
35 2-Methylpentane	43	6.869	6.874	-0.005	96	666983	2.00	1.96	
36 Methyl tert-butyl ether	73	6.955	6.967	-0.012	97	586104	2.00	1.68	
37 1,1-Dichloroethane	63	7.236	7.243	-0.007	99	483721	2.00	1.80	
38 Vinyl acetate	43	7.338	7.349	-0.011	100	687331	2.00	1.74	
39 2-Butanone (MEK)	72	7.759	7.765	-0.006	98	98760	2.00	1.54	
40 Hexane	56	7.802	7.810	-0.008	93	208745	2.00	1.75	
41 Isopropyl ether	45	7.948	7.959	-0.011	97	866278	2.00	1.67	
42 cis-1,2-Dichloroethene	96	8.185	8.188	-0.003	96	257298	2.00	1.85	
43 Ethyl acetate	43	8.357	8.372	-0.015	97	507797	2.00	1.56	
44 Chloroform	83	8.514	8.521	-0.007	97	535784	2.00	1.78	
45 Tert-butyl ethyl ether	59	8.605	8.612	-0.007	97	758075	2.00	1.84	
46 Tetrahydrofuran	42	8.886	8.898	-0.012	93	291706	2.00	1.66	
47 1,1,1-Trichloroethane	97	9.511	9.518	-0.007	95	586168	2.00	1.76	
48 1,2-Dichloroethane	62	9.608	9.613	-0.005	98	383830	2.00	1.73	
51 n-Butanol	31	10.072	10.104	-0.032	65	105644	2.00	1.60	
49 Benzene	78	10.105	10.112	-0.008	98	731885	2.00	1.78	
50 Cyclohexane	69	10.110	10.116	-0.006	92	123991	2.00	1.77	
52 Carbon tetrachloride	117	10.137	10.140	-0.003	98	594099	2.00	1.84	
53 2,3-Dimethylpentane	71	10.245	10.251	-0.006	91	155153	2.00	1.60	
54 Thiophene	84	10.380	10.384	-0.004	97	421405	2.00	1.77	
55 Tert-amyl methyl ether	73	10.590	10.600	-0.010	95	658945	2.00	1.75	
56 Isooctane	57	10.897	10.901	-0.004	97	1319131	2.00	1.71	
57 n-Heptane	71	11.280	11.285	-0.005	96	259563	2.00	1.68	
58 1,2-Dichloropropane	63	11.334	11.337	-0.003	89	276330	2.00	1.66	
59 Trichloroethene	130	11.377	11.383	-0.006	95	383075	2.00	1.85	
60 Dibromomethane	93	11.447	11.454	-0.007	93	307063	2.00	1.74	
61 Dichlorobromomethane	83	11.604	11.608	-0.004	99	562414	2.00	1.76	
62 1,4-Dioxane	88	11.614	11.625	-0.011	99	84648	2.00	1.45	
63 Methyl methacrylate	41	11.711	11.721	-0.010	94	334964	2.00	1.48	
64 Methylcyclohexane	83	12.159	12.165	-0.006	90	441871	2.00	1.39	
65 4-Methyl-2-pentanone (MIBK)	43	12.563	12.574	-0.011	99	542101	2.00	1.49	
66 cis-1,3-Dichloropropene	75	12.623	12.626	-0.003	97	426841	2.00	1.77	
67 trans-1,3-Dichloropropene	75	13.324	13.329	-0.005	96	382225	2.00	1.79	
68 Toluene	91	13.453	13.456	-0.003	93	826356	2.00	1.81	
69 1,1,2-Trichloroethane	83	13.518	13.524	-0.006	99	230843	2.00	1.72	
70 2-Methylthiophene	97	13.604	13.606	-0.002	98	716690	2.00	1.88	
71 3-Methylthiophene	97	13.804	13.811	-0.007	99	723735	2.00	1.94	
72 2-Hexanone	58	13.917	13.929	-0.012	90	226703	2.00	1.53	
73 n-Octane	85	14.176	14.176	0.000	97	293731	2.00	1.81	
74 Chlorodibromomethane	129	14.224	14.231	-0.007	99	539970	2.00	1.88	
75 Ethylene Dibromide	107	14.515	14.518	-0.003	98	466185	2.00	1.85	
76 Tetrachloroethene	129	14.607	14.610	-0.003	95	320163	2.00	1.75	
77 Chlorobenzene	112	15.486	15.489	-0.003	92	660977	2.00	1.81	
78 2,3-Dimethylheptane	43	15.535	15.537	-0.002	95	1003644	2.00	1.85	
79 Ethylbenzene	91	15.783	15.787	-0.004	99	1041541	2.00	1.72	
80 2-Ethylthiophene	97	15.885	15.888	-0.003	99	804972	2.00	1.70	
81 m-Xylene & p-Xylene	91	15.950	15.953	-0.003	100	1621353	4.00	3.46	
83 Bromoform	173	16.381	16.385	-0.004	97	513843	2.00	1.64	
82 n-Nonane	57	16.397	16.399	-0.002	94	623129	2.00	1.90	

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	16.414	16.421	-0.007	99	550403	2.00	1.77	
85 o-Xylene	91	16.478	16.481	-0.003	98	840346	2.00	1.67	
86 1,1,2,2-Tetrachloroethane	83	16.796	16.800	-0.004	99	559330	2.00	1.63	
87 1,2,3-Trichloropropane	110	16.953	16.957	-0.004	96	178808	2.00	1.68	
88 Isopropylbenzene	105	17.071	17.074	-0.003	97	1191578	2.00	1.69	
89 N-Propylbenzene	120	17.621	17.626	-0.005	99	317995	2.00	1.73	
90 2-Chlorotoluene	126	17.659	17.664	-0.005	97	308160	2.00	1.80	
91 4-Ethyltoluene	105	17.778	17.783	-0.005	99	1095368	2.00	1.63	
92 1,3,5-Trimethylbenzene	120	17.859	17.862	-0.003	92	537175	2.00	1.68	
93 Alpha Methyl Styrene	118	18.096	18.096	0.000	87	430088	2.00	1.71	
94 n-Decane	57	18.172	18.175	-0.003	89	749627	2.00	1.87	
95 tert-Butylbenzene	119	18.290	18.293	-0.003	93	1042427	2.00	1.67	
96 1,2,4-Trimethylbenzene	105	18.306	18.309	-0.003	97	1000054	2.00	1.70	
97 sec-Butylbenzene	105	18.565	18.569	-0.004	98	1433959	2.00	1.68	
98 1,3-Dichlorobenzene	146	18.576	18.576	0.000	98	669135	2.00	1.75	
99 Benzyl chloride	91	18.651	18.654	-0.003	98	749780	2.00	1.66	
100 1,4-Dichlorobenzene	146	18.662	18.666	-0.004	95	656455	2.00	1.80	
101 4-Isopropyltoluene	119	18.738	18.738	0.000	97	1153074	2.00	1.64	
102 1,2,3-Trimethylbenzene	105	18.781	18.785	-0.004	99	806809	2.00	1.76	
103 Butylcyclohexane	83	18.851	18.850	0.001	90	782173	2.00	1.74	
104 1,2-Dichlorobenzene	146	19.029	19.031	-0.002	93	640689	2.00	1.73	
105 2,3-Dihydroindene	117	19.029	19.031	-0.002	93	827290	2.00	1.58	
106 Indene	116	19.158	19.164	-0.006	90	773670	2.00	2.09	
107 n-Butylbenzene	91	19.174	19.180	-0.006	98	1100364	2.00	1.75	
108 Undecane	57	19.509	19.511	-0.002	94	777629	2.00	1.84	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.552	19.555	-0.003	98	1025455	2.00	2.05	
110 1,2-Dibromo-3-Chloropropan	157	19.633	19.637	-0.004	95	190901	2.00	1.33	
111 1,2,4,5-Tetramethylbenzene	119	19.940	19.945	-0.005	97	1078081	2.00	1.77	
112 1,2,3,5-Tetramethylbenzene	119	20.000	19.999	0.001	95	677965	2.00	1.82	
113 1,2,3,4-Tetramethylbenzene	119	20.393	20.394	-0.001	97	862066	2.00	1.73	
114 Dodecane	57	20.571	20.573	-0.002	92	598843	2.00	1.74	
115 1,2,4-Trichlorobenzene	180	20.738	20.742	-0.004	94	440570	2.00	2.12	
116 Naphthalene	128	20.873	20.874	-0.001	99	937741	2.00	1.91	
117 Benzo(b)thiophene	134	20.976	20.975	0.001	99	464805	2.00	1.81	
118 Hexachlorobutadiene	225	21.094	21.095	-0.001	95	648195	2.00	1.70	
119 1,2,3-Trichlorobenzene	180	21.148	21.151	-0.003	96	451893	2.00	1.93	
120 2-Methylnaphthalene	142	21.935	21.937	-0.002	99	369097	6.25	8.11	
121 1-Methylnaphthalene	142	22.113	22.113	0.000	99	386735	6.25	8.55	
A 124 Toluene Range	1	13.450	(13.424-13.476)		0	2036993	2.00	1.77	
A 125 C8 Range	1	14.172	(14.151-14.193)		0	3094818	2.00	1.83	
S 126 Xylenes, Total	100				0		6.00	5.12	
S 127 1,2-Dichloroethene, Total	1				0		4.00	3.67	

Reagents:

40CV101S_00013

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICV.D

Injection Date: 20-Jul-2016 21:45:30

Instrument ID: MG

Operator ID: 403648

Lims ID: ICV

Worklist Smp#: 12

Client ID:

Purge Vol: 500.000 mL

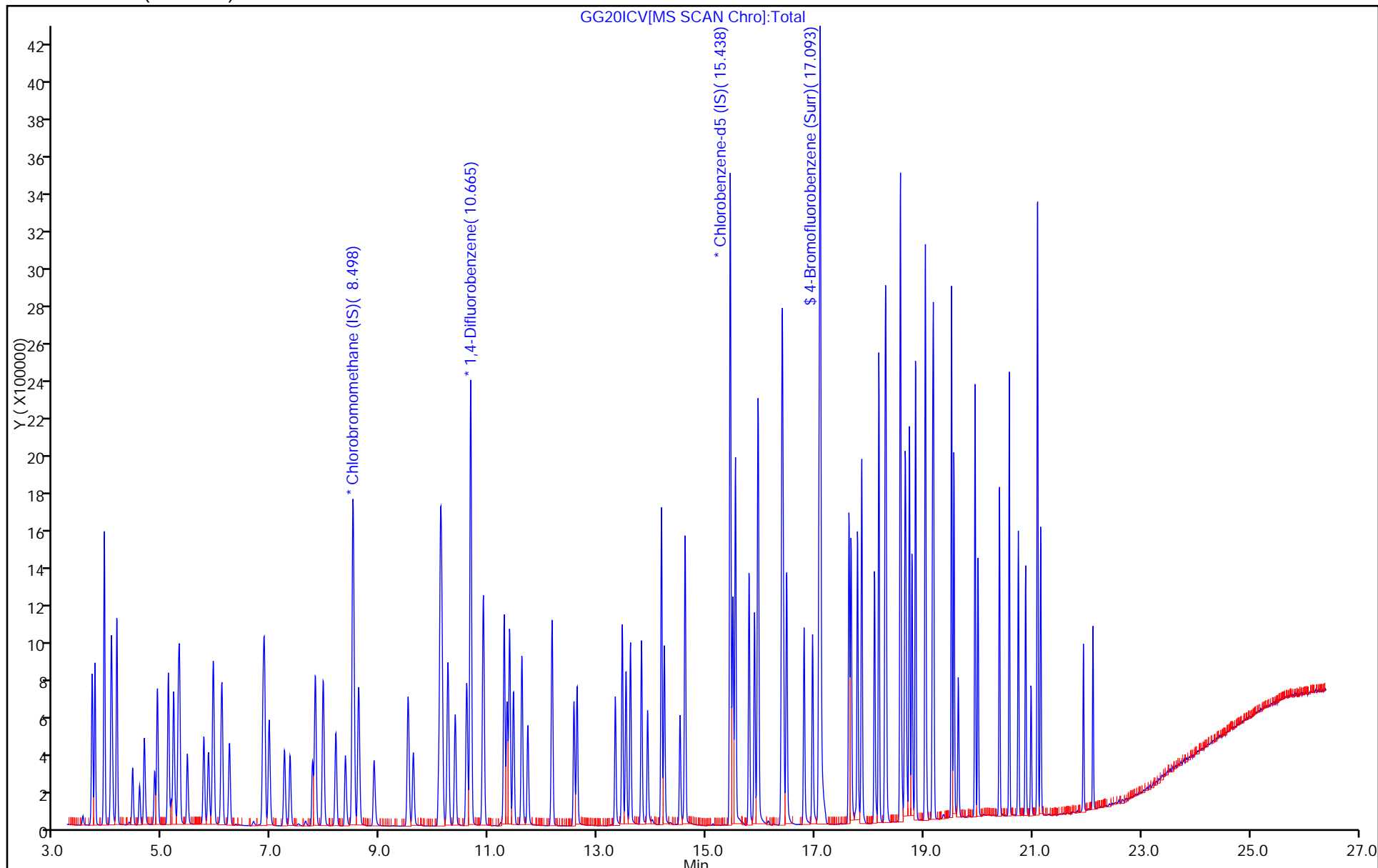
Dil. Factor: 1.0000

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.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-6625/2 Calibration Date: 09/21/2016 13:15
 Instrument ID: MG Calib Start Date: 07/20/2016 14:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 07/20/2016 20:22
 Lab File ID: GCCVI21.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	0.3324	0.4743		2.85	2.00	42.7*	30.0
Propene	Ave	1.424	1.040		1.46	2.00	-27.0	30.0
Dichlorodifluoromethane	Ave	3.440	4.509		2.62	2.00	31.1*	30.0
Chloromethane	Ave	0.3895	0.2966		1.52	2.00	-23.9	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.158	2.379		2.20	2.00	10.2	30.0
Acetaldehyde	Ave	0.6438	0.3173		4.93	10.0	-50.7*	30.0
Vinyl chloride	Ave	1.259	1.108		1.76	2.00	-11.9	30.0
1,3-Butadiene	Ave	1.034	0.7947		1.54	2.00	-23.2	30.0
Butane	Ave	2.237	1.580		1.41	2.00	-29.4	30.0
Bromomethane	Ave	1.067	1.095		2.05	2.00	2.6	30.0
Chloroethane	Ave	0.6102	0.5332		1.75	2.00	-12.6	30.0
Ethanol	Ave	0.5737	0.3244		5.65	10.0	-43.5*	30.0
Vinyl bromide	Ave	1.027	0.9595		1.87	2.00	-6.6	30.0
2-Methylbutane	Ave	1.510	1.012		1.34	2.00	-33.0*	30.0
Acrolein	LinF		0.1905		1.47	2.00	-26.4	30.0
Trichlorofluoromethane	Ave	3.232	4.241		2.62	2.00	31.2*	30.0
Acetonitrile	Ave	0.5136	0.2714		1.06	2.00	-47.2*	30.0
Acetone	Ave	0.5566	0.3137		3.38	6.00	-43.6*	30.0
Isopropyl alcohol	Ave	1.777	0.9374		3.17	6.00	-47.3*	30.0
Pentane	Ave	0.1879	0.1927		2.05	2.00	2.6	30.0
Ethyl ether	Ave	1.275	0.7159		1.12	2.00	-43.9*	30.0
1,1-Dichloroethene	Ave	0.9757	1.008		2.07	2.00	3.3	30.0
Acrylonitrile	Ave	0.6542	0.3747		1.15	2.00	-42.7*	30.0
t-Butyl alcohol	Ave	1.747	1.420		1.63	2.00	-18.7	30.0
1,1,2-Trichlorotrifluoroethane	Ave	1.975	2.388		2.42	2.00	20.9	30.0
Methylene Chloride	Ave	0.9736	0.8436		1.73	2.00	-13.3	30.0
3-Chloropropene	Ave	1.421	1.042		1.47	2.00	-26.7	30.0
Carbon disulfide	Ave	3.158	3.411		2.16	2.00	8.0	30.0
trans-1,2-Dichloroethene	Ave	1.174	1.206		2.06	2.00	2.8	30.0
2-Methylpentane	Ave	3.019	2.489		1.65	2.00	-17.6	30.0
Methyl tert-butyl ether	Ave	3.103	3.222		2.08	2.00	3.8	30.0
1,1-Dichloroethane	Ave	2.389	2.329		1.95	2.00	-2.5	30.0
Vinyl acetate	Ave	3.508	2.682		1.53	2.00	-23.6	30.0
2-Butanone	Lin1		0.4835		1.71	2.00	-14.3	30.0
Hexane	Ave	1.057	0.9087		1.72	2.00	-14.0	30.0
Isopropyl ether	Ave	4.600	3.331		1.45	2.00	-27.6	30.0
cis-1,2-Dichloroethene	Ave	1.237	1.196		1.93	2.00	-3.3	30.0
Ethyl acetate	Ave	2.886	2.178		1.51	2.00	-24.5	30.0
Chloroform	Ave	2.672	3.050		2.28	2.00	14.2	30.0
Tert-butyl ethyl ether	Ave	3.653	3.152		1.73	2.00	-13.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-6625/2 Calibration Date: 09/21/2016 13:15
 Instrument ID: MG Calib Start Date: 07/20/2016 14:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 07/20/2016 20:22
 Lab File ID: GCCVI21.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	1.560	1.082		1.39	2.00	-30.7*	30.0
1,1,1-Trichloroethane	Ave	2.947	3.493		2.37	2.00	18.5	30.0
1,2-Dichloroethane	Ave	0.3971	0.4202		2.12	2.00	5.8	30.0
1-Butanol	Ave	0.1182	0.0779		1.32	2.00	-34.1*	30.0
Benzene	Ave	0.7345	0.7050		1.92	2.00	-4.0	30.0
Cyclohexane	Ave	0.1257	0.1342		2.13	2.00	6.7	30.0
Carbon tetrachloride	Ave	0.5786	0.6990		2.42	2.00	20.8	30.0
2,3-Dimethylpentane	Ave	0.1739	0.1731		1.99	2.00	-0.5	30.0
Thiophene	Ave	0.4257	0.4035		1.90	2.00	-5.2	30.0
Tert-amyl methyl ether	Ave	0.6756	0.6597		1.95	2.00	-2.4	30.0
2,2,4-Trimethylpentane	Ave	1.384	1.147		1.66	2.00	-17.2	30.0
Heptane	Ave	0.2770	0.2749		1.99	2.00	-0.7	30.0
1,2-Dichloropropane	Ave	0.2975	0.2602		1.75	2.00	-12.5	30.0
Trichloroethene	Ave	0.3701	0.3354		1.81	2.00	-9.4	30.0
Dibromomethane	Ave	0.3165	0.3136		1.98	2.00	-0.9	30.0
Bromodichloromethane	Ave	0.5705	0.6390		2.24	2.00	12.0	30.0
1,4-Dioxane	Ave	0.1044	0.0818		1.57	2.00	-21.6	30.0
Methyl methacrylate	Ave	0.4061	0.2829		1.39	2.00	-30.3*	30.0
Methylcyclohexane	Ave	0.5682	0.5721		2.01	2.00	0.7	30.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.4146		1.27	2.00	-36.6*	30.0
cis-1,3-Dichloropropene	Ave	0.4329	0.4586		2.12	2.00	5.9	30.0
trans-1,3-Dichloropropene	Ave	0.4075	0.4704		2.31	2.00	15.4	30.0
Toluene	Ave	0.8743	0.8514		1.95	2.00	-2.6	30.0
1,1,2-Trichloroethane	Ave	0.2558	0.2687		2.10	2.00	5.0	30.0
2-Methylthiophene	Ave	0.7284	0.7029		1.93	2.00	-3.5	30.0
3-Methylthiophene	Ave	0.7138	0.7018		1.97	2.00	-1.7	30.0
2-Hexanone	Ave	0.2837	0.1984		1.40	2.00	-30.1*	30.0
Octane	Ave	0.3095	0.3254		2.10	2.00	5.1	30.0
Dibromochloromethane	Ave	0.5476	0.6134		2.24	2.00	12.0	30.0
1,2-Dibromoethane	Ave	0.4802	0.5056		2.11	2.00	5.3	30.0
Tetrachloroethene	Ave	0.3494	0.3524		2.02	2.00	0.8	30.0
Chlorobenzene	Ave	0.6957	0.6843		1.97	2.00	-1.6	30.0
2,3-Dimethylheptane	Ave	1.034	0.8546		1.65	2.00	-17.4	30.0
Ethylbenzene	Ave	1.159	1.165		2.01	2.00	0.6	30.0
2-Ethylthiophene	Ave	0.9050	0.9219		2.04	2.00	1.9	30.0
m-Xylene & p-Xylene	Ave	0.8963	0.9129		4.07	4.00	1.9	30.0
Bromoform	Ave	0.5968	0.5440		1.82	2.00	-8.8	30.0
Nonane	Ave	0.6248	0.5885		1.88	2.00	-5.8	30.0
Styrene	Ave	0.5928	0.5922		2.00	2.00	-0.1	30.0
o-Xylene	Ave	0.9617	0.9493		1.97	2.00	-1.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6548	0.6618		2.02	2.00	1.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-6625/2 Calibration Date: 09/21/2016 13:15
 Instrument ID: MG Calib Start Date: 07/20/2016 14:35
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 07/20/2016 20:22
 Lab File ID: GCCVI21.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	0.2036	0.2072		2.03	2.00	1.7	30.0
Isopropylbenzene	Ave	1.343	1.243		1.85	2.00	-7.4	30.0
Propylbenzene	Ave	0.3511	0.3273		1.86	2.00	-6.8	30.0
2-Chlorotoluene	Ave	0.3267	0.3028		1.85	2.00	-7.3	30.0
4-Ethyltoluene	Ave	1.284	1.169		1.82	2.00	-9.0	30.0
1,3,5-Trimethylbenzene	Ave	0.6121	0.5538		1.81	2.00	-9.5	30.0
Alpha Methyl Styrene	Ave	0.4797	0.4344		1.81	2.00	-9.4	30.0
Decane	Ave	0.7655	0.6717		1.75	2.00	-12.3	30.0
tert-Butylbenzene	Ave	1.189	1.113		1.87	2.00	-6.4	30.0
1,2,4-Trimethylbenzene	Ave	1.125	1.038		1.85	2.00	-7.7	30.0
1,3-Dichlorobenzene	Ave	0.7289	0.6894		1.89	2.00	-5.4	30.0
sec-Butylbenzene	Ave	1.629	1.447		1.78	2.00	-11.1	30.0
Benzyl chloride	Ave	0.8643	0.8508		1.97	2.00	-1.6	30.0
1,4-Dichlorobenzene	Ave	0.6970	0.6724		1.93	2.00	-3.5	30.0
4-Isopropyltoluene	Ave	1.339	1.234		1.84	2.00	-7.9	30.0
1,2,3-Trimethylbenzene	Ave	0.8746	0.7727		1.77	2.00	-11.7	30.0
Butylcyclohexane	Ave	0.8593	0.8694		2.02	2.00	1.2	30.0
1,2-Dichlorobenzene	Ave	0.7092	0.6492		1.83	2.00	-8.5	30.0
Indane	Ave	1.002	0.8547		1.71	2.00	-14.7	30.0
Indene	Ave	0.7075	0.5982		1.69	2.00	-15.4	30.0
Butylbenzene	Ave	1.201	1.133		1.89	2.00	-5.7	30.0
Undecane	Ave	0.8072	0.6657		1.65	2.00	-17.5	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.9574	0.8317		1.74	2.00	-13.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.2733	0.2227		1.63	2.00	-18.5	30.0
1,2,4,5-Tetramethylbenzene	Ave	1.161	0.9889		1.70	2.00	-14.8	30.0
1,2,3,5-Tetramethylbenzene	Ave	0.7132	0.6000		1.68	2.00	-15.9	30.0
1,2,3,4-Tetramethylbenzene	Ave	0.9520	0.7734		1.62	2.00	-18.8	30.0
Dodecane	Ave	0.6564	0.5108		1.56	2.00	-22.2	30.0
1,2,4-Trichlorobenzene	Ave	0.3964	0.3687		1.86	2.00	-7.0	30.0
Naphthalene	Ave	0.9366	0.7327		1.56	2.00	-21.8	30.0
Benzo (b) thiophene	Ave	0.4909	0.3185		1.30	2.00	-35.1*	30.0
Hexachlorobutadiene	Ave	0.7262	0.6686		1.84	2.00	-7.9	30.0
1,2,3-Trichlorobenzene	Ave	0.4483	0.3566		1.59	2.00	-20.5	30.0
2-Methylnaphthalene	Ave	0.0869	0.0953		6.86	6.25	9.7	50.0
1-Methylnaphthalene	Ave	0.0864	0.0959		6.94	6.25	11.0	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6982	0.7829		4.48	4.00	12.1	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GCCVI21.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 21-Sep-2016 13:15:30 ALS Bottle#: 15 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-002
 Misc. Info.: P23
 Operator ID: 7126 Instrument ID: MG
 Sublist: chrom-MG_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh

Date: 21-Sep-2016 14:08:45

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	8.454	8.454	0.000	90	240717	4.00	4.00	s
* 2 1,4-Difluorobenzene	114	10.617	10.617	0.000	96	1209351	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.394	15.394	0.000	91	1100545	4.00	4.00	s
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	92	861607	4.00	4.48	
6 Chlorodifluoromethane	67	3.698	3.698	0.000	96	57090	2.00	2.85	
7 Propene	41	3.709	3.709	0.000	96	125226	2.00	1.46	
8 Dichlorodifluoromethane	85	3.758	3.758	0.000	100	542676	2.00	2.62	
9 Chloromethane	52	3.919	3.919	0.000	97	35698	2.00	1.52	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.930	0.000	95	286370	2.00	2.20	
11 Acetaldehyde	44	4.054	4.054	0.000	85	190945	10.0	4.93	
12 Vinyl chloride	62	4.076	4.076	0.000	99	133404	2.00	1.76	
14 Butane	43	4.157	4.157	0.000	84	190175	2.00	1.41	
13 Butadiene	54	4.157	4.157	0.000	69	95649	2.00	1.54	
15 Bromomethane	94	4.442	4.442	0.000	97	131739	2.00	2.05	
16 Chloroethane	64	4.566	4.566	0.000	90	64180	2.00	1.75	
17 Ethanol	31	4.663	4.663	0.000	97	195213	10.0	5.65	
18 Vinyl bromide	106	4.841	4.841	0.000	95	115487	2.00	1.87	
19 2-Methylbutane	43	4.890	4.890	0.000	89	121792	2.00	1.34	
21 Acrolein	56	5.089	5.089	0.000	29	22923	2.00	1.47	
20 Trichlorofluoromethane	101	5.095	5.095	0.000	99	510488	2.00	2.62	
22 Acetonitrile	40	5.149	5.149	0.000	96	32670	2.00	1.06	
23 Acetone	58	5.192	5.192	0.000	99	113288	6.00	3.38	
25 Isopropyl alcohol	45	5.284	5.284	0.000	94	338491	6.00	3.17	
24 Pentane	72	5.300	5.300	0.000	95	23194	2.00	2.05	
26 Ethyl ether	31	5.440	5.440	0.000	91	86169	2.00	1.12	
27 1,1-Dichloroethene	96	5.737	5.737	0.000	97	121340	2.00	2.07	
28 Acrylonitrile	53	5.823	5.823	0.000	92	45094	2.00	1.15	
29 2-Methyl-2-propanol	59	5.834	5.834	0.000	95	170911	2.00	1.63	
30 1,1,2-Trichloro-1,2,2-trif	101	5.909	5.909	0.000	90	287385	2.00	2.42	
31 Methylene Chloride	84	6.055	6.055	0.000	89	101538	2.00	1.73	

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	6.071	6.071	0.000	93	125373	2.00	1.47	
33 Carbon disulfide	76	6.200	6.200	0.000	100	410572	2.00	2.16	
34 trans-1,2-Dichloroethene	96	6.815	6.815	0.000	96	145153	2.00	2.06	
35 2-Methylpentane	43	6.842	6.842	0.000	93	299573	2.00	1.65	
36 Methyl tert-butyl ether	73	6.934	6.934	0.000	95	387794	2.00	2.08	
37 1,1-Dichloroethane	63	7.203	7.203	0.000	100	280317	2.00	1.95	
38 Vinyl acetate	43	7.311	7.311	0.000	100	322760	2.00	1.53	
39 2-Butanone (MEK)	72	7.721	7.721	0.000	100	58197	2.00	1.71	
40 Hexane	56	7.775	7.775	0.000	89	109368	2.00	1.72	
41 Isopropyl ether	45	7.920	7.920	0.000	95	400957	2.00	1.45	
42 cis-1,2-Dichloroethene	96	8.142	8.142	0.000	97	143967	2.00	1.93	
43 Ethyl acetate	43	8.325	8.325	0.000	98	262121	2.00	1.51	
44 Chloroform	83	8.476	8.476	0.000	96	367068	2.00	2.28	
45 Tert-butyl ethyl ether	59	8.568	8.568	0.000	95	379426	2.00	1.73	
46 Tetrahydrofuran	42	8.848	8.848	0.000	91	130181	2.00	1.39	
47 1,1,1-Trichloroethane	97	9.463	9.463	0.000	95	420443	2.00	2.37	
48 1,2-Dichloroethane	62	9.560	9.560	0.000	99	254107	2.00	2.12	
51 n-Butanol	31	10.040	10.040	0.000	70	47113	2.00	1.32	
49 Benzene	78	10.056	10.056	0.000	96	426289	2.00	1.92	
50 Cyclohexane	69	10.067	10.067	0.000	92	81125	2.00	2.13	
52 Carbon tetrachloride	117	10.088	10.088	0.000	96	422659	2.00	2.42	
53 2,3-Dimethylpentane	71	10.201	10.201	0.000	90	104663	2.00	1.99	
54 Thiophene	84	10.331	10.331	0.000	96	243957	2.00	1.90	
55 Tert-amyl methyl ether	73	10.547	10.547	0.000	98	398889	2.00	1.95	
56 Isooctane	57	10.854	10.854	0.000	97	693375	2.00	1.66	
57 n-Heptane	71	11.237	11.237	0.000	92	166233	2.00	1.99	
58 1,2-Dichloropropane	63	11.285	11.285	0.000	89	157345	2.00	1.75	
59 Trichloroethene	130	11.334	11.334	0.000	92	202812	2.00	1.81	
60 Dibromomethane	93	11.399	11.399	0.000	95	189653	2.00	1.98	
61 Dichlorobromomethane	83	11.555	11.555	0.000	98	386358	2.00	2.24	
62 1,4-Dioxane	88	11.571	11.571	0.000	96	49470	2.00	1.57	
63 Methyl methacrylate	41	11.668	11.668	0.000	89	171064	2.00	1.39	
64 Methylcyclohexane	83	12.116	12.116	0.000	96	345962	2.00	2.01	
65 4-Methyl-2-pentanone (MIBK)	43	12.520	12.520	0.000	98	250690	2.00	1.27	
66 cis-1,3-Dichloropropene	75	12.574	12.574	0.000	96	277288	2.00	2.12	
67 trans-1,3-Dichloropropene	75	13.275	13.275	0.000	97	258829	2.00	2.31	
68 Toluene	91	13.405	13.405	0.000	93	468510	2.00	1.95	
69 1,1,2-Trichloroethane	83	13.475	13.475	0.000	97	147857	2.00	2.10	
70 2-Methylthiophene	97	13.555	13.555	0.000	97	386767	2.00	1.93	
71 3-Methylthiophene	97	13.760	13.760	0.000	99	386165	2.00	1.97	
72 2-Hexanone	58	13.879	13.879	0.000	94	109162	2.00	1.40	
73 n-Octane	85	14.132	14.132	0.000	91	179047	2.00	2.10	
74 Chlorodibromomethane	129	14.181	14.181	0.000	97	337556	2.00	2.24	
75 Ethylene Dibromide	107	14.467	14.467	0.000	97	278225	2.00	2.11	
76 Tetrachloroethene	129	14.564	14.564	0.000	92	193908	2.00	2.02	
77 Chlorobenzene	112	15.443	15.443	0.000	90	376561	2.00	1.97	
78 2,3-Dimethylheptane	43	15.497	15.497	0.000	93	470237	2.00	1.65	
79 Ethylbenzene	91	15.739	15.739	0.000	99	641245	2.00	2.01	
80 2-Ethylthiophene	97	15.842	15.842	0.000	99	507320	2.00	2.04	
81 m-Xylene & p-Xylene	91	15.907	15.907	0.000	98	1004629	4.00	4.07	
83 Bromoform	173	16.338	16.338	0.000	96	299362	2.00	1.82	
82 n-Nonane	57	16.360	16.360	0.000	91	323854	2.00	1.88	

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	16.370	16.370	0.000	97	325896	2.00	2.00	
85 o-Xylene	91	16.435	16.435	0.000	97	522351	2.00	1.97	
86 1,1,2,2-Tetrachloroethane	83	16.753	16.753	0.000	98	364176	2.00	2.02	
87 1,2,3-Trichloropropane	110	16.910	16.910	0.000	97	113995	2.00	2.03	
88 Isopropylbenzene	105	17.028	17.028	0.000	98	684018	2.00	1.85	
89 N-Propylbenzene	120	17.584	17.584	0.000	99	180124	2.00	1.86	
90 2-Chlorotoluene	126	17.621	17.621	0.000	97	166596	2.00	1.85	
91 4-Ethyltoluene	105	17.740	17.740	0.000	98	643467	2.00	1.82	
92 1,3,5-Trimethylbenzene	120	17.821	17.821	0.000	91	304765	2.00	1.81	
93 Alpha Methyl Styrene	118	18.053	18.053	0.000	86	239046	2.00	1.81	
94 n-Decane	57	18.139	18.139	0.000	93	369613	2.00	1.75	
95 tert-Butylbenzene	119	18.252	18.252	0.000	93	612528	2.00	1.87	
96 1,2,4-Trimethylbenzene	105	18.268	18.268	0.000	96	571383	2.00	1.85	
97 sec-Butylbenzene	105	18.533	18.533	0.000	97	796276	2.00	1.78	
98 1,3-Dichlorobenzene	146	18.533	18.533	0.000	98	379357	2.00	1.89	
99 Benzyl chloride	91	18.614	18.614	0.000	97	468160	2.00	1.97	
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	93	370014	2.00	1.93	
101 4-Isopropyltoluene	119	18.700	18.700	0.000	97	678931	2.00	1.84	
102 1,2,3-Trimethylbenzene	105	18.743	18.743	0.000	99	425172	2.00	1.77	
103 Butylcyclohexane	83	18.813	18.813	0.000	94	478399	2.00	2.02	
104 1,2-Dichlorobenzene	146	18.991	18.991	0.000	91	357244	2.00	1.83	
105 2,3-Dihydroindene	117	18.991	18.991	0.000	93	470306	2.00	1.71	
106 Indene	116	19.126	19.126	0.000	90	329178	2.00	1.69	
107 n-Butylbenzene	91	19.142	19.142	0.000	98	623437	2.00	1.89	
108 Undecane	57	19.482	19.482	0.000	93	366337	2.00	1.65	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.519	19.519	0.000	97	457679	2.00	1.74	
110 1,2-Dibromo-3-Chloropropan	157	19.600	19.600	0.000	94	122524	2.00	1.63	
111 1,2,4,5-Tetramethylbenzene	119	19.908	19.908	0.000	95	544184	2.00	1.70	
112 1,2,3,5-Tetramethylbenzene	119	19.962	19.962	0.000	93	330178	2.00	1.68	
113 1,2,3,4-Tetramethylbenzene	119	20.361	20.361	0.000	96	425575	2.00	1.62	
114 Dodecane	57	20.544	20.544	0.000	93	281057	2.00	1.56	
115 1,2,4-Trichlorobenzene	180	20.706	20.706	0.000	94	202896	2.00	1.86	
116 Naphthalene	128	20.835	20.835	0.000	99	403189	2.00	1.56	
117 Benzo(b)thiophene	134	20.938	20.938	0.000	99	175259	2.00	1.30	
118 Hexachlorobutadiene	225	21.062	21.062	0.000	96	367921	2.00	1.84	
119 1,2,3-Trichlorobenzene	180	21.116	21.116	0.000	95	196209	2.00	1.59	
120 2-Methylnaphthalene	142	21.903	21.903	0.000	99	163923	6.25	6.86	
121 1-Methylnaphthalene	142	22.081	22.081	0.000	99	164948	6.25	6.94	
A 124 Toluene Range	1	13.400	(13.365-13.435)		0	1167026	2.00	1.88	
A 125 C8 Range	1	14.126	(14.102-14.172)		0	1696457	2.00	1.85	
S 126 Xylenes, Total	100				0		6.00	6.05	
S 127 1,2-Dichloroethene, Total	1				0		4.00	3.99	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

40CV101P_00023

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GCCVI21.D

Injection Date: 21-Sep-2016 13:15:30

Instrument ID: MG

Operator ID: 7126

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

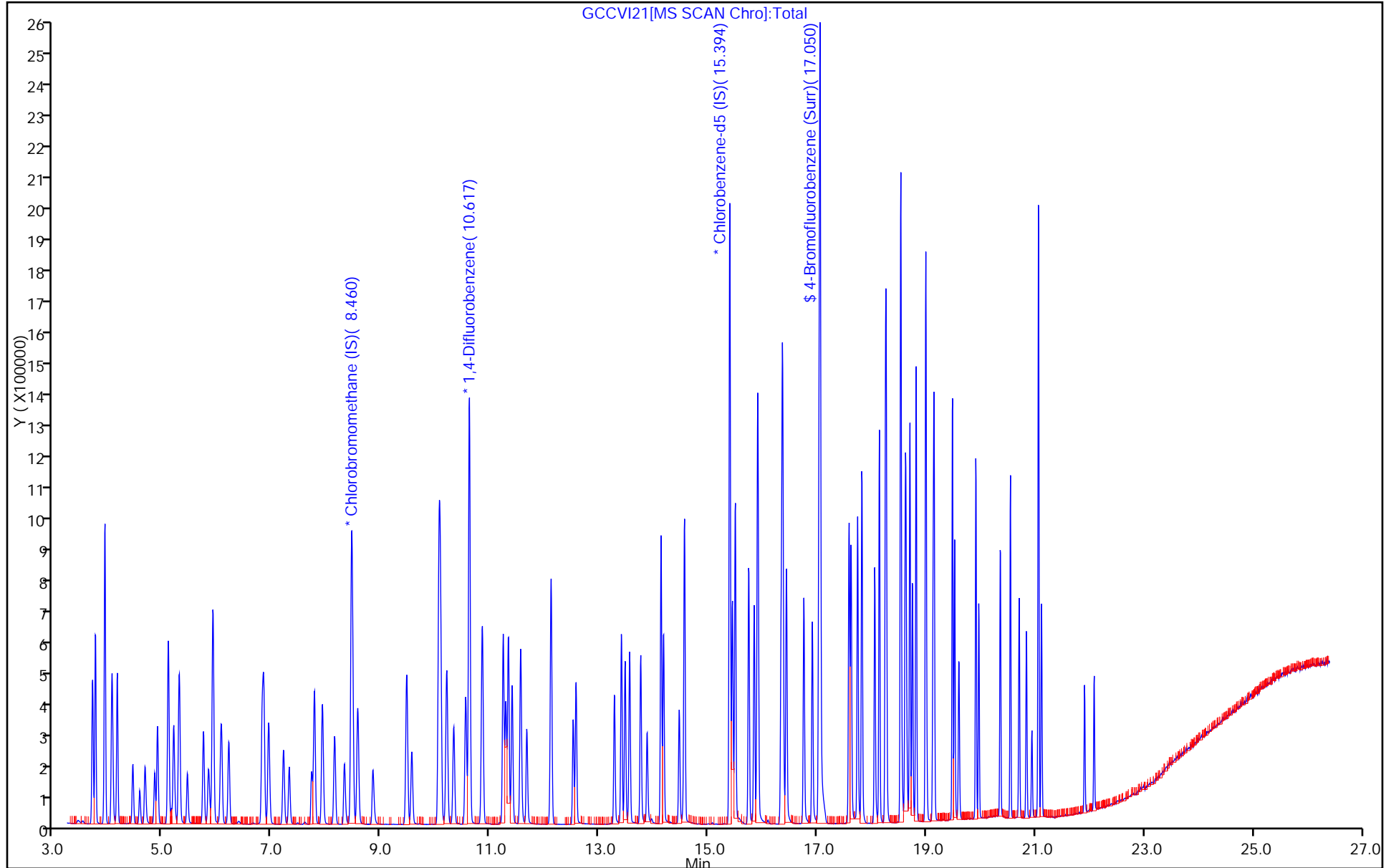
Dil. Factor: 1.0000

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.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: ICV 140-5523/17 Calibration Date: 06/23/2016 09:52
 Instrument ID: MJ Calib Start Date: 06/22/2016 15:49
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 06/22/2016 23:00
 Lab File ID: JF22ICVR.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	0.4965	0.4577		1.84	2.00	-7.8	35.0
Propene	Ave	1.154	1.043		1.81	2.00	-9.7	35.0
Dichlorodifluoromethane	Ave	4.396	4.203		1.91	2.00	-4.4	35.0
Chloromethane	Ave	0.3106	0.2987		1.92	2.00	-3.8	35.0
1,2-Dichlorotetrafluoroethane	Ave	2.440	2.325		1.91	2.00	-4.7	35.0
Acetaldehyde	Ave	0.2696	0.2166		8.04	10.0	-19.6	35.0
Vinyl chloride	Ave	1.053	1.005		1.91	2.00	-4.5	35.0
Butane	Ave	1.150	1.143		1.99	2.00	-0.6	35.0
1,3-Butadiene	Ave	0.6912	0.6786		1.96	2.00	-1.8	35.0
Bromomethane	Ave	0.9910	0.8891		1.79	2.00	-10.3	35.0
Chloroethane	Ave	0.3777	0.3535		1.87	2.00	-6.4	35.0
Ethanol	Ave	0.1546	0.1422		9.20	10.0	-8.0	35.0
Vinyl bromide	Ave	1.172	1.174		2.00	2.00	0.2	35.0
2-Methylbutane	Ave	1.379	1.330		1.93	2.00	-3.6	35.0
Trichlorofluoromethane	Ave	4.068	3.824		1.88	2.00	-6.0	35.0
Acrolein	Ave	0.3360	0.2403		1.43	2.00	-28.5	35.0
Acetonitrile	Ave	0.3683	0.3377		1.83	2.00	-8.3	35.0
Acetone	Ave	0.4583	0.4025		5.27	6.00	-12.2	35.0
Isopropyl alcohol	Ave	1.527	1.389		5.46	6.00	-9.0	35.0
Pentane	Ave	0.1722	0.1657		1.92	2.00	-3.8	35.0
Ethyl ether	Ave	0.7823	0.7112		1.82	2.00	-9.1	35.0
1,1-Dichloroethene	Ave	1.183	1.132		1.91	2.00	-4.3	35.0
t-Butyl alcohol	Ave	2.084	1.947		1.87	2.00	-6.6	35.0
Acrylonitrile	Ave	0.7011	0.6319		1.80	2.00	-9.9	35.0
1,1,2-Trichlorotrifluoroethane	Ave	2.765	2.650		1.92	2.00	-4.1	35.0
Methylene Chloride	Ave	1.099	1.018		1.85	2.00	-7.4	35.0
3-Chloropropene	Ave	1.055	1.039		1.97	2.00	-1.5	35.0
Carbon disulfide	Ave	3.359	3.239		1.93	2.00	-3.6	35.0
trans-1,2-Dichloroethene	Ave	1.188	1.152		1.94	2.00	-3.0	35.0
2-Methylpentane	Ave	2.424	2.494		2.06	2.00	2.9	35.0
Methyl tert-butyl ether	Ave	2.440	2.242		1.84	2.00	-8.1	35.0
1,1-Dichloroethane	Ave	2.417	2.338		1.94	2.00	-3.2	35.0
Vinyl acetate	Ave	2.001	1.878		1.88	2.00	-6.1	35.0
2-Butanone	Ave	0.3839	0.3342		1.74	2.00	-13.0	35.0
Hexane	Ave	1.043	1.001		1.92	2.00	-3.9	35.0
Isopropyl ether	Ave	3.021	2.743		1.82	2.00	-9.2	35.0
cis-1,2-Dichloroethene	Ave	1.183	1.157		1.96	2.00	-2.2	35.0
Ethyl acetate	Ave	1.599	1.446		1.81	2.00	-9.6	35.0
Chloroform	Ave	2.678	2.528		1.89	2.00	-5.6	35.0
Tert-butyl ethyl ether	Ave	2.990	2.910		1.95	2.00	-2.7	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: ICV 140-5523/17 Calibration Date: 06/23/2016 09:52
 Instrument ID: MJ Calib Start Date: 06/22/2016 15:49
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 06/22/2016 23:00
 Lab File ID: JF22ICVR.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	0.8527	0.8157		1.91	2.00	-4.3	35.0
1,1,1-Trichloroethane	Ave	3.097	2.981		1.92	2.00	-3.8	35.0
1,2-Dichloroethane	Ave	0.4369	0.4085		1.87	2.00	-6.5	35.0
1-Butanol	Ave	0.0610	0.0607		1.99	2.00	-0.4	35.0
Benzene	Ave	0.6983	0.6894		1.97	2.00	-1.3	35.0
Cyclohexane	Ave	0.1171	0.1196		2.04	2.00	2.2	35.0
Carbon tetrachloride	Ave	0.7435	0.7491		2.02	2.00	0.8	35.0
2,3-Dimethylpentane	Ave	0.1606	0.1409		1.75	2.00	-12.3	35.0
Thiophene	Ave	0.3988	0.4038		2.02	2.00	1.2	35.0
Tert-amyl methyl ether	Ave	0.6151	0.6035		1.96	2.00	-1.9	35.0
2,2,4-Trimethylpentane	Ave	1.315	1.234		1.88	2.00	-6.1	35.0
Heptane	Ave	0.2306	0.2187		1.90	2.00	-5.2	35.0
1,2-Dichloropropane	Ave	0.2817	0.2693		1.91	2.00	-4.4	35.0
Trichloroethene	Ave	0.3524	0.3368		1.91	2.00	-4.4	35.0
Dibromomethane	Ave	0.3120	0.3077		1.97	2.00	-1.4	35.0
Bromodichloromethane	Ave	0.5687	0.5455		1.92	2.00	-4.1	35.0
1,4-Dioxane	Ave	0.0832	0.0813		1.95	2.00	-2.3	35.0
Methyl methacrylate	Ave	0.2152	0.1781		1.66	2.00	-17.2	35.0
Methylcyclohexane	Ave	0.5358	0.4142		1.55	2.00	-22.7	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4724	0.3918		1.66	2.00	-17.1	35.0
cis-1,3-Dichloropropene	Ave	0.3678	0.3528		1.92	2.00	-4.1	35.0
trans-1,3-Dichloropropene	Ave	0.3272	0.3191		1.95	2.00	-2.5	35.0
Toluene	Ave	0.8518	0.7994		1.88	2.00	-6.2	35.0
1,1,2-Trichloroethane	Ave	0.2468	0.2300		1.86	2.00	-6.8	35.0
2-Methylthiophene	Ave	0.7101	0.7046		1.98	2.00	-0.8	35.0
3-Methylthiophene	Ave	0.6812	0.6917		2.03	2.00	1.5	35.0
2-Hexanone	Ave	0.2481	0.2334		1.88	2.00	-5.9	35.0
Octane	Ave	0.2789	0.2635		1.89	2.00	-5.5	35.0
Dibromochloromethane	Ave	0.5906	0.5581		1.89	2.00	-5.5	35.0
1,2-Dibromoethane	Ave	0.4509	0.4158		1.84	2.00	-7.8	35.0
Tetrachloroethene	Ave	0.3991	0.3509		1.76	2.00	-12.1	35.0
2,3-Dimethylheptane	Ave	0.7942	0.7444		1.87	2.00	-6.3	35.0
Chlorobenzene	Ave	0.6404	0.5994		1.87	2.00	-6.4	35.0
Ethylbenzene	Ave	0.9714	0.8773		1.81	2.00	-9.7	35.0
2-Ethylthiophene	Ave	0.7342	0.6586		1.79	2.00	-10.3	35.0
m-Xylene & p-Xylene	Ave	0.7539	0.6763		3.59	4.00	-10.3	35.0
Nonane	Ave	0.5580	0.5505		1.97	2.00	-1.4	35.0
Bromoform	Ave	0.4442	0.4033		1.82	2.00	-9.2	35.0
Styrene	Ave	0.4637	0.4468		1.93	2.00	-3.6	35.0
o-Xylene	Ave	0.8099	0.7115		1.76	2.00	-12.2	35.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.4659		1.81	2.00	-9.7	35.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: ICV 140-5523/17 Calibration Date: 06/23/2016 09:52
 Instrument ID: MJ Calib Start Date: 06/22/2016 15:49
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 06/22/2016 23:00
 Lab File ID: JF22ICVR.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	0.1463	0.1320		1.80	2.00	-9.8	35.0
Isopropylbenzene	Ave	1.019	0.9649		1.89	2.00	-5.3	35.0
Propylbenzene	Ave	0.2557	0.2389		1.87	2.00	-6.6	35.0
2-Chlorotoluene	Ave	0.2699	0.2543		1.88	2.00	-5.8	35.0
4-Ethyltoluene	Ave	0.8665	0.7943		1.83	2.00	-8.3	35.0
1,3,5-Trimethylbenzene	Ave	0.4585	0.4105		1.79	2.00	-10.5	35.0
Alpha Methyl Styrene	Ave	0.3179	0.2957		1.86	2.00	-7.0	35.0
Decane	Ave	0.5704	0.5426		1.90	2.00	-4.9	35.0
tert-Butylbenzene	Ave	0.9118	0.8387		1.84	2.00	-8.0	35.0
1,2,4-Trimethylbenzene	Ave	0.7762	0.7161		1.85	2.00	-7.7	35.0
sec-Butylbenzene	Ave	1.131	1.069		1.89	2.00	-5.5	35.0
1,3-Dichlorobenzene	Ave	0.3965	0.3740		1.89	2.00	-5.7	35.0
Benzyl chloride	Ave	0.3894	0.3692		1.90	2.00	-5.2	35.0
1,4-Dichlorobenzene	Ave	0.3393	0.3250		1.92	2.00	-4.2	35.0
4-Isopropyltoluene	Ave	0.9296	0.8648		1.86	2.00	-7.0	35.0
1,2,3-Trimethylbenzene	Ave	0.6166	0.5929		1.92	2.00	-3.9	35.0
Butylcyclohexane	Ave	0.6728	0.6178		1.84	2.00	-8.2	35.0
1,2-Dichlorobenzene	Ave	0.4035	0.3783		1.88	2.00	-6.2	35.0
Indane	Ave	0.6488	0.5699		1.76	2.00	-12.2	35.0
Butylbenzene	Ave	0.7177	0.6878		1.92	2.00	-4.2	35.0
Indene	Ave	0.3721	0.4470		2.40	2.00	20.1	35.0
Undecane	Ave	0.5442	0.4861		1.79	2.00	-10.7	35.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.6042	0.6781		2.24	2.00	12.2	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.1327	0.0899		1.36	2.00	-32.3	35.0
1,2,4,5-Tetramethylbenzene	Ave	0.7390	0.7152		1.94	2.00	-3.2	35.0
1,2,3,5-Tetramethylbenzene	Ave	0.4769	0.4575		1.92	2.00	-4.1	35.0
1,2,3,4-Tetramethylbenzene	Ave	0.5881	0.5337		1.81	2.00	-9.3	35.0
Dodecane	Ave	0.4840	0.4518		1.87	2.00	-6.7	35.0
1,2,4-Trichlorobenzene	Ave	0.1070	0.1201		2.24	2.00	12.2	35.0
Naphthalene	Ave	0.2839	0.2802		1.97	2.00	-1.3	35.0
Benzo (b) thiophene	Ave	0.0997	0.1163		2.33	2.00	16.7	35.0
Hexachlorobutadiene	Ave	0.4264	0.3419		1.60	2.00	-19.8	35.0
1,2,3-Trichlorobenzene	Ave	0.1175	0.1161		1.98	2.00	-1.2	35.0
2-Methylnaphthalene	Ave	0.0185	0.0246		8.30	6.25	32.8	50.0
1-Methylnaphthalene	Ave	0.0195	0.0272		8.75	6.25	40.0	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5906	0.6438		4.36	4.00	9.0	35.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22ICVR.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 23-Jun-2016 09:52:30 ALS Bottle#: 15 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 044581
 Misc. Info.: J062216,T15,,140-0003070-017
 Operator ID: 7126 Instrument ID: MJ
 Sublist:

Method: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Jun-2016 15:31:06 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D

Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: barlozhetskayaa Date: 27-Jun-2016 15:11:54

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	9.388	9.389	-0.001	94	332894	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.551	11.552	-0.001	95	1464991	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.231	16.231	0.000	87	1301938	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.850	17.854	-0.004	91	838201	4.00	4.36	
6 Chlorodifluoromethane	67	3.928	3.925	0.003	95	76174	2.00	1.84	
7 Propene	41	3.939	3.939	0.000	99	173552	2.00	1.81	
8 Dichlorodifluoromethane	85	3.993	3.995	-0.002	99	699548	2.00	1.91	
9 Chloromethane	52	4.197	4.196	0.001	52	49725	2.00	1.92	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.203	4.201	0.002	88	386969	2.00	1.91	
11 Acetaldehyde	44	4.364	4.364	0.000	94	180264	10.0	8.04	
12 Vinyl chloride	62	4.385	4.384	0.001	99	167327	2.00	1.91	
14 Butadiene	54	4.482	4.479	0.003	75	112957	2.00	1.96	
13 Butane	43	4.477	4.480	-0.003	82	190228	2.00	1.99	
15 Bromomethane	94	4.832	4.837	-0.005	98	147988	2.00	1.79	
16 Chloroethane	64	4.988	4.991	-0.003	97	58841	2.00	1.87	
17 Ethanol	31	5.079	5.081	-0.002	91	118344	10.0	9.20	
18 Vinyl bromide	106	5.321	5.323	-0.002	98	195483	2.00	2.00	
19 2-Methylbutane	43	5.370	5.372	-0.002	88	221391	2.00	1.93	
20 Trichlorofluoromethane	101	5.612	5.611	0.001	99	636434	2.00	1.88	
21 Acrolein	56	5.623	5.623	0.000	90	39993	2.00	1.43	
22 Acetonitrile	40	5.693	5.698	-0.005	98	56209	2.00	1.83	
23 Acetone	58	5.741	5.747	-0.006	97	200973	6.00	5.27	
24 Isopropyl alcohol	45	5.816	5.819	-0.003	93	693686	6.00	5.46	
25 Pentane	72	5.843	5.845	-0.002	98	27576	2.00	1.92	
26 Ethyl ether	31	6.021	6.027	-0.006	88	118368	2.00	1.82	
27 1,1-Dichloroethene	96	6.365	6.368	-0.003	93	188420	2.00	1.91	
28 2-Methyl-2-propanol	59	6.446	6.457	-0.011	92	324120	2.00	1.87	
29 Acrylonitrile	53	6.478	6.479	-0.001	93	105174	2.00	1.80	
30 1,1,2-Trichloro-1,2,2-trif	101	6.548	6.548	0.000	97	441155	2.00	1.92	
31 Methylene Chloride	84	6.736	6.739	-0.003	98	169372	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	6.752	6.753	-0.001	97	172874	2.00	1.97	
33 Carbon disulfide	76	6.914	6.916	-0.002	98	539125	2.00	1.93	
34 trans-1,2-Dichloroethene	96	7.586	7.587	-0.001	95	191768	2.00	1.94	
35 2-Methylpentane	43	7.597	7.597	0.000	93	415074	2.00	2.06	
36 Methyl tert-butyl ether	73	7.710	7.715	-0.005	96	373103	2.00	1.84	
37 1,1-Dichloroethane	63	8.022	8.025	-0.003	99	389224	2.00	1.94	
38 Vinyl acetate	43	8.124	8.125	-0.001	100	312665	2.00	1.88	
39 2-Butanone (MEK)	72	8.592	8.597	-0.005	96	55619	2.00	1.74	
40 Hexane	56	8.608	8.613	-0.005	89	166685	2.00	1.92	
41 Isopropyl ether	45	8.770	8.773	-0.003	97	456690	2.00	1.82	
42 cis-1,2-Dichloroethene	96	9.039	9.044	-0.005	98	192561	2.00	1.96	
43 Ethyl acetate	43	9.216	9.224	-0.008	99	240614	2.00	1.81	
44 Chloroform	83	9.394	9.395	-0.001	97	420797	2.00	1.89	
45 Tert-butyl ethyl ether	59	9.469	9.471	-0.002	95	484417	2.00	1.95	
46 Tetrahydrofuran	42	9.813	9.821	-0.008	92	135764	2.00	1.91	
47 1,1,1-Trichloroethane	97	10.443	10.443	0.000	96	496131	2.00	1.92	
48 1,2-Dichloroethane	62	10.550	10.556	-0.006	98	299185	2.00	1.87	
49 n-Butanol	31	10.948	10.957	-0.009	79	44469	2.00	1.99	
50 Cyclohexane	69	11.029	11.031	-0.002	72	87635	2.00	2.04	
51 Benzene	78	11.029	11.031	-0.002	98	504958	2.00	1.97	
52 Carbon tetrachloride	117	11.051	11.055	-0.004	97	548707	2.00	2.02	
53 2,3-Dimethylpentane	71	11.131	11.134	-0.003	89	103196	2.00	1.75	
54 Thiophene	84	11.298	11.302	-0.004	99	295746	2.00	2.02	
55 Tert-amyl methyl ether	73	11.476	11.480	-0.004	97	392868	2.00	1.96	
56 Isooctane	57	11.755	11.759	-0.004	99	904255	2.00	1.88	
57 n-Heptane	71	12.121	12.122	-0.001	89	160192	2.00	1.90	
58 1,2-Dichloropropane	63	12.223	12.227	-0.004	91	197245	2.00	1.91	
59 Trichloroethene	130	12.256	12.257	-0.001	96	246672	2.00	1.91	
60 Dibromomethane	93	12.347	12.348	-0.001	96	225387	2.00	1.97	
62 Dichlorobromomethane	83	12.487	12.487	0.000	99	399538	2.00	1.92	
61 1,4-Dioxane	88	12.492	12.501	-0.009	85	59580	2.00	1.95	
63 Methyl methacrylate	41	12.557	12.558	-0.001	91	130452	2.00	1.66	
64 Methylcyclohexane	83	13.014	13.014	0.000	92	303405	2.00	1.55	
65 4-Methyl-2-pentanone (MIBK)	43	13.396	13.399	-0.003	95	286957	2.00	1.66	
66 cis-1,3-Dichloropropene	75	13.466	13.466	0.000	94	258405	2.00	1.92	
67 trans-1,3-Dichloropropene	75	14.149	14.149	0.000	97	207749	2.00	1.95	
68 Toluene	91	14.273	14.277	-0.004	93	520385	2.00	1.88	
69 1,1,2-Trichloroethane	83	14.348	14.349	-0.001	99	149716	2.00	1.86	
70 2-Methylthiophene	97	14.429	14.429	0.000	97	458647	2.00	1.98	
71 3-Methylthiophene	97	14.628	14.628	0.000	99	450272	2.00	2.03	
72 2-Hexanone	58	14.714	14.717	-0.003	96	151934	2.00	1.88	
73 n-Octane	85	14.935	14.931	0.004	91	171506	2.00	1.89	
74 Chlorodibromomethane	129	15.053	15.053	0.000	97	363297	2.00	1.89	
75 Ethylene Dibromide	107	15.343	15.344	-0.001	98	270662	2.00	1.84	
76 Tetrachloroethene	129	15.408	15.408	0.000	95	228453	2.00	1.76	
77 2,3-Dimethylheptane	43	16.269	16.269	0.000	95	484582	2.00	1.87	
78 Chlorobenzene	112	16.279	16.279	0.000	94	390212	2.00	1.87	
79 Ethylbenzene	91	16.559	16.557	0.002	99	571102	2.00	1.81	
80 2-Ethylthiophene	97	16.661	16.661	0.000	98	428757	2.00	1.79	
81 m-Xylene & p-Xylene	91	16.715	16.715	0.000	100	880557	4.00	3.59	
82 n-Nonane	57	17.108	17.109	-0.001	88	358339	2.00	1.97	
83 Bromoform	173	17.183	17.179	0.004	88	262509	2.00	1.82	

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	17.183	17.181	0.002	99	290874	2.00	1.93	
85 o-Xylene	91	17.242	17.242	0.000	98	463178	2.00	1.76	
86 1,1,2,2-Tetrachloroethane	83	17.560	17.563	-0.003	98	303273	2.00	1.81	
87 1,2,3-Trichloropropane	110	17.721	17.720	0.001	98	85923	2.00	1.80	
88 Isopropylbenzene	105	17.818	17.815	0.003	95	628135	2.00	1.89	
89 N-Propylbenzene	120	18.334	18.333	0.001	99	155529	2.00	1.87	
90 2-Chlorotoluene	126	18.383	18.384	-0.001	97	165551	2.00	1.88	
91 4-Ethyltoluene	105	18.474	18.477	-0.003	98	517090	2.00	1.83	
92 1,3,5-Trimethylbenzene	120	18.544	18.545	-0.001	92	267208	2.00	1.79	
93 Alpha Methyl Styrene	118	18.770	18.771	-0.001	87	192479	2.00	1.86	
94 n-Decane	57	18.808	18.805	0.003	89	353180	2.00	1.90	
95 tert-Butylbenzene	119	18.958	18.958	0.000	93	545944	2.00	1.84	
96 1,2,4-Trimethylbenzene	105	18.975	18.971	0.004	96	466148	2.00	1.85	
97 sec-Butylbenzene	105	19.217	19.218	-0.001	98	695824	2.00	1.89	
98 1,3-Dichlorobenzene	146	19.244	19.244	0.000	98	243429	2.00	1.89	
99 Benzyl chloride	91	19.313	19.315	-0.002	98	240331	2.00	1.90	
100 1,4-Dichlorobenzene	146	19.330	19.329	0.001	96	211530	2.00	1.92	
101 4-Isopropyltoluene	119	19.373	19.373	0.000	97	562940	2.00	1.86	
102 1,2,3-Trimethylbenzene	105	19.432	19.432	0.000	99	385932	2.00	1.92	
103 Butylcyclohexane	83	19.475	19.476	-0.001	90	402172	2.00	1.84	
104 2,3-Dihydroindene	117	19.679	19.676	0.003	93	370986	2.00	1.76	
105 1,2-Dichlorobenzene	146	19.679	19.680	-0.001	96	246252	2.00	1.88	
106 n-Butylbenzene	91	19.798	19.797	0.001	98	447753	2.00	1.92	
107 Indene	116	19.803	19.805	-0.002	90	290969	2.00	2.40	
108 Undecane	57	20.083	20.083	0.000	93	316455	2.00	1.79	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.158	20.158	0.000	98	441448	2.00	2.24	
110 1,2-Dibromo-3-Chloropropan	157	20.271	20.271	0.000	96	58509	2.00	1.36	
111 1,2,4,5-Tetramethylbenzene	119	20.545	20.545	0.000	97	465572	2.00	1.94	
112 1,2,3,5-Tetramethylbenzene	119	20.605	20.603	0.002	95	297818	2.00	1.92	
113 1,2,3,4-Tetramethylbenzene	119	21.019	21.019	0.000	97	347396	2.00	1.81	
114 Dodecane	57	21.159	21.159	0.000	97	294080	2.00	1.87	
115 1,2,4-Trichlorobenzene	180	21.401	21.399	0.002	94	78150	2.00	2.24	
116 Naphthalene	128	21.541	21.540	0.001	99	182388	2.00	1.97	
117 Benzo(b)thiophene	134	21.632	21.633	-0.001	99	75685	2.00	2.33	
118 Hexachlorobutadiene	225	21.713	21.713	0.000	95	222583	2.00	1.60	
119 1,2,3-Trichlorobenzene	180	21.777	21.772	0.005	95	75553	2.00	1.98	
120 2-Methylnaphthalene	142	22.315	22.314	0.001	99	50076	6.25	8.30	
121 1-Methylnaphthalene	142	22.439	22.439	0.000	98	55410	6.25	8.75	
A 124 Toluene Range	1	14.277	(14.247-14.307)		0	1214068	2.00	1.97	
A 125 C8 Range	1	14.942	(14.890-14.995)		0	1561171	2.00	1.93	
S 126 Xylenes, Total	100				0		6.00	5.35	
S 127 1,2-Dichloroethene, Total	1				0		4.00	3.90	

Reagents:

40CV101S_00013

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22ICVR.D

Injection Date: 23-Jun-2016 09:52:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: ICV

Worklist Smp#: 17

Client ID:

Purge Vol: 500.000 mL

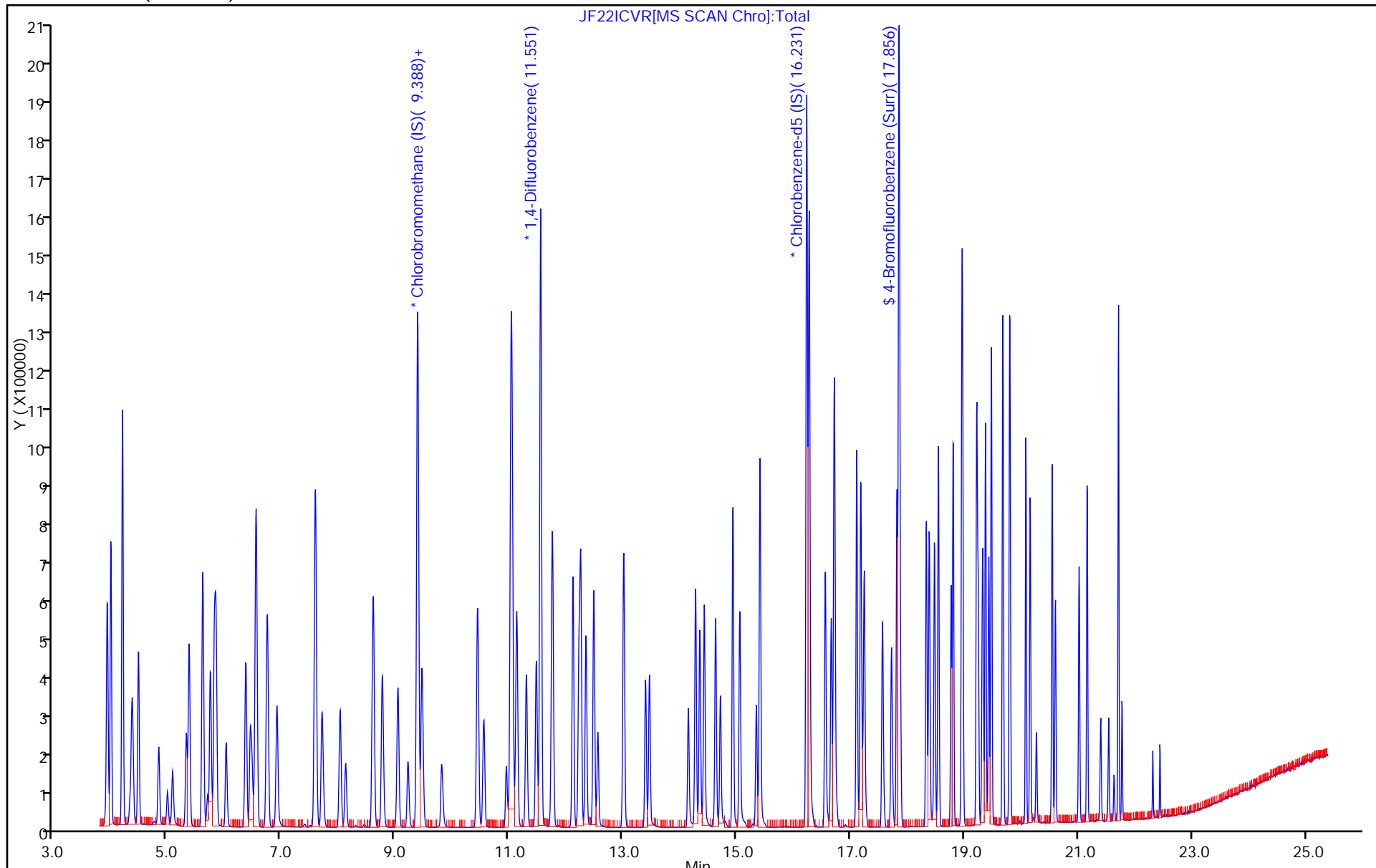
Dil. Factor: 1.0000

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.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-6632/2 Calibration Date: 09/22/2016 11:33
 Instrument ID: MJ Calib Start Date: 06/22/2016 15:49
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 06/22/2016 23:00
 Lab File ID: JCCVI22.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	0.4965	0.5887		2.37	2.00	18.6	30.0
Propene	Ave	1.154	1.429		2.48	2.00	23.8	30.0
Dichlorodifluoromethane	Ave	4.396	5.313		2.42	2.00	20.8	30.0
Chloromethane	Ave	0.3106	0.4314		2.78	2.00	38.9*	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.440	2.815		2.31	2.00	15.4	30.0
Acetaldehyde	Ave	0.2696	0.2551		9.47	10.0	-5.4	30.0
Vinyl chloride	Ave	1.053	1.334		2.54	2.00	26.7	30.0
1,3-Butadiene	Ave	0.6912	0.9787		2.83	2.00	41.6*	30.0
Butane	Ave	1.150	1.799		3.13	2.00	56.4*	30.0
Bromomethane	Ave	0.9910	1.109		2.24	2.00	11.9	30.0
Chloroethane	Ave	0.3777	0.4754		2.52	2.00	25.9	30.0
Ethanol	Ave	0.1546	0.2098		13.6	10.0	35.7*	30.0
Vinyl bromide	Ave	1.172	1.203		2.06	2.00	2.7	30.0
2-Methylbutane	Ave	1.379	1.725		2.50	2.00	25.0	30.0
Trichlorofluoromethane	Ave	4.068	4.529		2.23	2.00	11.3	30.0
Acrolein	Ave	0.3360	0.2788		1.66	2.00	-17.0	30.0
Acetonitrile	Ave	0.3683	0.3852		2.09	2.00	4.6	30.0
Acetone	Ave	0.4583	0.3469		4.54	6.00	-24.3	30.0
Isopropyl alcohol	Ave	1.527	1.447		5.69	6.00	-5.3	30.0
Pentane	Ave	0.1722	0.1785		2.07	2.00	3.6	30.0
Ethyl ether	Ave	0.7823	0.8532		2.18	2.00	9.1	30.0
1,1-Dichloroethene	Ave	1.183	1.160		1.96	2.00	-2.0	30.0
t-Butyl alcohol	Ave	2.084	2.000		1.92	2.00	-4.0	30.0
Acrylonitrile	Ave	0.7011	0.6352		1.81	2.00	-9.4	30.0
1,1,2-Trichlorotrifluoroethane	Ave	2.765	2.851		2.06	2.00	3.1	30.0
Methylene Chloride	Ave	1.099	1.090		1.98	2.00	-0.8	30.0
3-Chloropropene	Ave	1.055	1.337		2.54	2.00	26.7	30.0
Carbon disulfide	Ave	3.359	3.349		2.00	2.00	-0.3	30.0
trans-1,2-Dichloroethene	Ave	1.188	1.169		1.97	2.00	-1.5	30.0
2-Methylpentane	Ave	2.424	3.293		2.72	2.00	35.8*	30.0
Methyl tert-butyl ether	Ave	2.440	2.240		1.84	2.00	-8.2	30.0
1,1-Dichloroethane	Ave	2.417	2.687		2.22	2.00	11.2	30.0
Vinyl acetate	Ave	2.001	2.096		2.10	2.00	4.8	30.0
2-Butanone	Ave	0.3839	0.2919		1.52	2.00	-24.0	30.0
Hexane	Ave	1.043	1.197		2.30	2.00	14.8	30.0
Isopropyl ether	Ave	3.021	2.862		1.90	2.00	-5.2	30.0
cis-1,2-Dichloroethene	Ave	1.183	1.199		2.03	2.00	1.3	30.0
Ethyl acetate	Ave	1.599	1.620		2.03	2.00	1.3	30.0
Chloroform	Ave	2.678	2.771		2.07	2.00	3.5	30.0
Tert-butyl ethyl ether	Ave	2.990	2.948		1.97	2.00	-1.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-6632/2 Calibration Date: 09/22/2016 11:33
 Instrument ID: MJ Calib Start Date: 06/22/2016 15:49
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 06/22/2016 23:00
 Lab File ID: JCCVI22.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	0.8527	0.8832		2.07	2.00	3.6	30.0
1,1,1-Trichloroethane	Ave	3.097	3.453		2.23	2.00	11.5	30.0
1,2-Dichloroethane	Ave	0.4369	0.4724		2.16	2.00	8.1	30.0
1-Butanol	Ave	0.0610	0.0664		2.18	2.00	8.8	30.0
Benzene	Ave	0.6983	0.6378		1.83	2.00	-8.7	30.0
Cyclohexane	Ave	0.1171	0.1218		2.08	2.00	4.0	30.0
Carbon tetrachloride	Ave	0.7435	0.8268		2.23	2.00	11.2	30.0
2,3-Dimethylpentane	Ave	0.1606	0.1453		1.81	2.00	-9.5	30.0
Thiophene	Ave	0.3988	0.3835		1.92	2.00	-3.9	30.0
Tert-amyl methyl ether	Ave	0.6151	0.4979		1.62	2.00	-19.1	30.0
2,2,4-Trimethylpentane	Ave	1.315	1.314		2.00	2.00	-0.1	30.0
Heptane	Ave	0.2306	0.2090		1.81	2.00	-9.4	30.0
1,2-Dichloropropane	Ave	0.2817	0.2463		1.75	2.00	-12.6	30.0
Trichloroethene	Ave	0.3524	0.3095		1.76	2.00	-12.2	30.0
Dibromomethane	Ave	0.3120	0.3073		1.97	2.00	-1.5	30.0
Bromodichloromethane	Ave	0.5687	0.5348		1.88	2.00	-6.0	30.0
1,4-Dioxane	Ave	0.0832	0.0652		1.57	2.00	-21.6	30.0
Methyl methacrylate	Ave	0.2152	0.1984		1.84	2.00	-7.8	30.0
Methylcyclohexane	Ave	0.5358	0.4065		1.52	2.00	-24.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4724	0.4008		1.70	2.00	-15.1	30.0
cis-1,3-Dichloropropene	Ave	0.3678	0.3324		1.81	2.00	-9.6	30.0
trans-1,3-Dichloropropene	Ave	0.3272	0.2930		1.79	2.00	-10.4	30.0
Toluene	Ave	0.8518	0.6507		1.53	2.00	-23.6	30.0
1,1,2-Trichloroethane	Ave	0.2468	0.1911		1.55	2.00	-22.6	30.0
2-Methylthiophene	Ave	0.7101	0.5681		1.60	2.00	-20.0	30.0
3-Methylthiophene	Ave	0.6812	0.5622		1.65	2.00	-17.5	30.0
2-Hexanone	Ave	0.2481	0.1978		1.60	2.00	-20.3	30.0
Octane	Ave	0.2789	0.2244		1.61	2.00	-19.5	30.0
Dibromochloromethane	Ave	0.5906	0.4881		1.65	2.00	-17.3	30.0
1,2-Dibromoethane	Ave	0.4509	0.3538		1.57	2.00	-21.5	30.0
Tetrachloroethene	Ave	0.3991	0.3100		1.55	2.00	-22.3	30.0
2,3-Dimethylheptane	Ave	0.7942	0.7608		1.92	2.00	-4.2	30.0
Chlorobenzene	Ave	0.6404	0.5000		1.56	2.00	-21.9	30.0
Ethylbenzene	Ave	0.9714	0.7620		1.57	2.00	-21.6	30.0
2-Ethylthiophene	Ave	0.7342	0.5759		1.57	2.00	-21.6	30.0
m-Xylene & p-Xylene	Ave	0.7539	0.5996		3.18	4.00	-20.5	30.0
Nonane	Ave	0.5580	0.5147		1.85	2.00	-7.8	30.0
Bromoform	Ave	0.4442	0.3568		1.61	2.00	-19.7	30.0
Styrene	Ave	0.4637	0.3795		1.64	2.00	-18.2	30.0
o-Xylene	Ave	0.8099	0.6259		1.55	2.00	-22.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5159	0.3993		1.55	2.00	-22.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Lab Sample ID: CCVIS 140-6632/2 Calibration Date: 09/22/2016 11:33
 Instrument ID: MJ Calib Start Date: 06/22/2016 15:49
 GC Column: RTX-5 ID: 0.32 (mm) Calib End Date: 06/22/2016 23:00
 Lab File ID: JCCVI22.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	0.1463	0.1152		1.58	2.00	-21.2	30.0
Isopropylbenzene	Ave	1.019	0.8216		1.61	2.00	-19.3	30.0
Propylbenzene	Ave	0.2557	0.1988		1.56	2.00	-22.3	30.0
2-Chlorotoluene	Ave	0.2699	0.2108		1.56	2.00	-21.9	30.0
4-Ethyltoluene	Ave	0.8665	0.6762		1.56	2.00	-22.0	30.0
1,3,5-Trimethylbenzene	Ave	0.4585	0.3471		1.51	2.00	-24.3	30.0
Alpha Methyl Styrene	Ave	0.3179	0.2446		1.54	2.00	-23.0	30.0
Decane	Ave	0.5704	0.5143		1.80	2.00	-9.8	30.0
tert-Butylbenzene	Ave	0.9118	0.7128		1.56	2.00	-21.8	30.0
1,2,4-Trimethylbenzene	Ave	0.7762	0.6358		1.64	2.00	-18.1	30.0
sec-Butylbenzene	Ave	1.131	0.9215		1.63	2.00	-18.5	30.0
1,3-Dichlorobenzene	Ave	0.3965	0.2969		1.50	2.00	-25.1	30.0
Benzyl chloride	Ave	0.3894	0.3202		1.65	2.00	-17.8	30.0
1,4-Dichlorobenzene	Ave	0.3393	0.2543		1.50	2.00	-25.1	30.0
4-Isopropyltoluene	Ave	0.9296	0.7290		1.57	2.00	-21.6	30.0
1,2,3-Trimethylbenzene	Ave	0.6166	0.5127		1.66	2.00	-16.9	30.0
Butylcyclohexane	Ave	0.6728	0.5184		1.54	2.00	-23.0	30.0
1,2-Dichlorobenzene	Ave	0.4035	0.3024		1.50	2.00	-25.0	30.0
Indane	Ave	0.6488	0.4698		1.45	2.00	-27.6	30.0
Butylbenzene	Ave	0.7177	0.6064		1.69	2.00	-15.5	30.0
Indene	Ave	0.3721	0.3653		1.96	2.00	-1.8	30.0
Undecane	Ave	0.5442	0.4556		1.68	2.00	-16.3	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.6042	0.5592		1.85	2.00	-7.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1327	0.0587		0.886	2.00	-55.7*	30.0
1,2,4,5-Tetramethylbenzene	Ave	0.7390	0.5812		1.57	2.00	-21.4	30.0
1,2,3,5-Tetramethylbenzene	Ave	0.4769	0.3752		1.57	2.00	-21.3	30.0
1,2,3,4-Tetramethylbenzene	Ave	0.5881	0.4328		1.47	2.00	-26.4	30.0
Dodecane	Ave	0.4840	0.4157		1.72	2.00	-14.1	30.0
1,2,4-Trichlorobenzene	Ave	0.1070	0.0823		1.54	2.00	-23.1	30.0
Naphthalene	Ave	0.2839	0.2101		1.48	2.00	-26.0	30.0
Benzo (b) thiophene	Ave	0.0997	0.0860		1.73	2.00	-13.7	30.0
Hexachlorobutadiene	Ave	0.4264	0.2824		1.33	2.00	-33.8*	30.0
1,2,3-Trichlorobenzene	Ave	0.1175	0.0905		1.54	2.00	-23.0	30.0
2-Methylnaphthalene	Ave	0.0185	0.0145		4.90	6.25	-21.7	50.0
1-Methylnaphthalene	Ave	0.0195	0.0139		4.48	6.25	-28.3	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5906	0.6808		4.61	4.00	15.3	30.0

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JCCVI22.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 22-Sep-2016 11:33:30 ALS Bottle#: 15 Worklist Smp#: 2
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-002
 Misc. Info.: S17
 Operator ID: 007126 Instrument ID: MJ
 Sublist: chrom-MJ_TO15*sub5
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:18 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: tajh Date: 23-Sep-2016 10:21:18

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	9.335	9.335	0.000	95	262871	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.497	11.497	0.000	97	1201816	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.177	16.177	0.000	91	1109539	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.802	17.802	0.000	87	755411	4.00	4.61	
6 Chlorodifluoromethane	67	3.928	3.928	0.000	96	77422	2.00	2.37	
7 Propene	41	3.939	3.939	0.000	98	187928	2.00	2.48	
8 Dichlorodifluoromethane	85	3.998	3.998	0.000	100	698660	2.00	2.42	
9 Chloromethane	52	4.192	4.192	0.000	96	56730	2.00	2.78	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.203	4.203	0.000	90	370212	2.00	2.31	
11 Acetaldehyde	44	4.364	4.364	0.000	98	167715	10.0	9.47	
12 Vinyl chloride	62	4.380	4.380	0.000	99	175440	2.00	2.54	
14 Butadiene	54	4.477	4.477	0.000	72	128706	2.00	2.83	
13 Butane	43	4.477	4.477	0.000	82	236538	2.00	3.13	
15 Bromomethane	94	4.832	4.832	0.000	97	145815	2.00	2.24	
16 Chloroethane	64	4.983	4.983	0.000	94	62521	2.00	2.52	
17 Ethanol	31	5.074	5.074	0.000	94	137952	10.0	13.6	
18 Vinyl bromide	106	5.305	5.305	0.000	97	158257	2.00	2.06	
19 2-Methylbutane	43	5.359	5.359	0.000	89	226829	2.00	2.50	
20 Trichlorofluoromethane	101	5.596	5.596	0.000	99	595603	2.00	2.23	
21 Acrolein	56	5.607	5.607	0.000	92	36667	2.00	1.66	
22 Acetonitrile	40	5.677	5.677	0.000	98	50661	2.00	2.09	
23 Acetone	58	5.730	5.730	0.000	99	136871	6.00	4.54	
24 Isopropyl alcohol	45	5.806	5.806	0.000	95	570833	6.00	5.69	
25 Pentane	72	5.827	5.827	0.000	97	23469	2.00	2.07	
26 Ethyl ether	31	6.005	6.005	0.000	93	112197	2.00	2.18	
27 1,1-Dichloroethene	96	6.344	6.344	0.000	91	152555	2.00	1.96	
28 2-Methyl-2-propanol	59	6.430	6.430	0.000	95	262988	2.00	1.92	
29 Acrylonitrile	53	6.451	6.451	0.000	92	83530	2.00	1.81	
30 1,1,2-Trichloro-1,2,2-trif	101	6.521	6.521	0.000	94	374975	2.00	2.06	
31 Methylene Chloride	84	6.709	6.709	0.000	94	143398	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
32 3-Chloro-1-propene	39	6.720	6.720	0.000	96	175762	2.00	2.54	
33 Carbon disulfide	76	6.882	6.882	0.000	99	440466	2.00	2.00	
34 trans-1,2-Dichloroethene	96	7.549	7.549	0.000	92	153772	2.00	1.97	
35 2-Methylpentane	43	7.559	7.559	0.000	94	432990	2.00	2.72	
36 Methyl tert-butyl ether	73	7.678	7.678	0.000	96	294622	2.00	1.84	
37 1,1-Dichloroethane	63	7.984	7.984	0.000	100	353364	2.00	2.22	
38 Vinyl acetate	43	8.081	8.081	0.000	100	275656	2.00	2.10	
39 2-Butanone (MEK)	72	8.555	8.555	0.000	94	38388	2.00	1.52	
40 Hexane	56	8.571	8.571	0.000	89	157423	2.00	2.30	
41 Isopropyl ether	45	8.727	8.727	0.000	96	376467	2.00	1.90	
42 cis-1,2-Dichloroethene	96	8.990	8.990	0.000	97	157665	2.00	2.03	
43 Ethyl acetate	43	9.173	9.173	0.000	98	213072	2.00	2.03	
44 Chloroform	83	9.345	9.345	0.000	98	364351	2.00	2.07	
45 Tert-butyl ethyl ether	59	9.421	9.421	0.000	95	387690	2.00	1.97	
46 Tetrahydrofuran	42	9.765	9.765	0.000	92	116147	2.00	2.07	
47 1,1,1-Trichloroethane	97	10.384	10.384	0.000	97	454122	2.00	2.23	
48 1,2-Dichloroethane	62	10.497	10.497	0.000	98	284013	2.00	2.16	
49 n-Butanol	31	10.905	10.905	0.000	85	39898	2.00	2.18	
51 Benzene	78	10.975	10.975	0.000	95	383482	2.00	1.83	
50 Cyclohexane	69	10.975	10.975	0.000	79	73208	2.00	2.08	
52 Carbon tetrachloride	117	10.997	10.997	0.000	97	497084	2.00	2.23	
53 2,3-Dimethylpentane	71	11.083	11.083	0.000	89	87368	2.00	1.81	
54 Thiophene	84	11.244	11.244	0.000	96	230557	2.00	1.92	
55 Tert-amyl methyl ether	73	11.427	11.427	0.000	94	276385	2.00	1.62	
56 Isooctane	57	11.707	11.707	0.000	98	790047	2.00	2.00	
57 n-Heptane	71	12.073	12.073	0.000	92	125656	2.00	1.81	
58 1,2-Dichloropropane	63	12.170	12.170	0.000	85	148102	2.00	1.75	
59 Trichloroethene	130	12.202	12.202	0.000	92	186073	2.00	1.76	
60 Dibromomethane	93	12.288	12.288	0.000	91	184772	2.00	1.97	
62 Dichlorobromomethane	83	12.428	12.428	0.000	99	321540	2.00	1.88	
61 1,4-Dioxane	88	12.444	12.444	0.000	92	39220	2.00	1.57	
63 Methyl methacrylate	41	12.508	12.508	0.000	93	119257	2.00	1.84	
64 Methylcyclohexane	83	12.960	12.960	0.000	88	244398	2.00	1.52	
65 4-Methyl-2-pentanone (MIBK)	43	13.348	13.348	0.000	98	240998	2.00	1.70	
66 cis-1,3-Dichloropropene	75	13.407	13.407	0.000	99	199845	2.00	1.81	
67 trans-1,3-Dichloropropene	75	14.095	14.095	0.000	97	162627	2.00	1.79	
68 Toluene	91	14.225	14.225	0.000	92	361159	2.00	1.53	
69 1,1,2-Trichloroethane	83	14.294	14.294	0.000	95	106071	2.00	1.55	
70 2-Methylthiophene	97	14.375	14.375	0.000	98	315308	2.00	1.60	
71 3-Methylthiophene	97	14.574	14.574	0.000	99	312033	2.00	1.65	
72 2-Hexanone	58	14.666	14.666	0.000	93	109775	2.00	1.60	
73 n-Octane	85	14.886	14.886	0.000	93	124574	2.00	1.61	
74 Chlorodibromomethane	129	14.999	14.999	0.000	98	270946	2.00	1.65	
75 Ethylene Dibromide	107	15.290	15.290	0.000	98	196360	2.00	1.57	
76 Tetrachloroethene	129	15.354	15.354	0.000	91	172065	2.00	1.55	
77 2,3-Dimethylheptane	43	16.226	16.226	0.000	93	422269	2.00	1.92	
78 Chlorobenzene	112	16.226	16.226	0.000	88	277554	2.00	1.56	
79 Ethylbenzene	91	16.505	16.505	0.000	99	422967	2.00	1.57	
80 2-Ethylthiophene	97	16.608	16.608	0.000	99	319669	2.00	1.57	
81 m-Xylene & p-Xylene	91	16.667	16.667	0.000	99	665639	4.00	3.18	
82 n-Nonane	57	17.065	17.065	0.000	92	285703	2.00	1.85	
83 Bromoform	173	17.129	17.129	0.000	93	198024	2.00	1.61	

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	17.129	17.129	0.000	98	210655	2.00	1.64	
85 o-Xylene	91	17.189	17.189	0.000	98	347396	2.00	1.55	
86 1,1,2,2-Tetrachloroethane	83	17.511	17.511	0.000	97	221653	2.00	1.55	
87 1,2,3-Trichloropropane	110	17.673	17.673	0.000	96	63941	2.00	1.58	
88 Isopropylbenzene	105	17.770	17.770	0.000	98	456052	2.00	1.61	
89 N-Propylbenzene	120	18.286	18.286	0.000	98	110329	2.00	1.56	
90 2-Chlorotoluene	126	18.340	18.340	0.000	97	117005	2.00	1.56	
91 4-Ethyltoluene	105	18.431	18.431	0.000	98	375318	2.00	1.56	
92 1,3,5-Trimethylbenzene	120	18.501	18.501	0.000	91	192670	2.00	1.51	
93 Alpha Methyl Styrene	118	18.727	18.727	0.000	85	135766	2.00	1.54	
94 n-Decane	57	18.765	18.765	0.000	89	285483	2.00	1.80	
95 tert-Butylbenzene	119	18.915	18.915	0.000	88	395621	2.00	1.56	
96 1,2,4-Trimethylbenzene	105	18.926	18.926	0.000	96	352917	2.00	1.64	
97 sec-Butylbenzene	105	19.179	19.179	0.000	97	511504	2.00	1.63	
98 1,3-Dichlorobenzene	146	19.201	19.201	0.000	97	164776	2.00	1.50	
99 Benzyl chloride	91	19.270	19.270	0.000	97	177702	2.00	1.65	
100 1,4-Dichlorobenzene	146	19.287	19.287	0.000	90	141148	2.00	1.50	
101 4-Isopropyltoluene	119	19.335	19.335	0.000	96	404643	2.00	1.57	
102 1,2,3-Trimethylbenzene	105	19.389	19.389	0.000	99	284559	2.00	1.66	
103 Butylcyclohexane	83	19.437	19.437	0.000	85	287730	2.00	1.54	
104 2,3-Dihydroindene	117	19.636	19.636	0.000	92	260754	2.00	1.45	
105 1,2-Dichlorobenzene	146	19.636	19.636	0.000	77	167870	2.00	1.50	
106 n-Butylbenzene	91	19.760	19.760	0.000	97	336574	2.00	1.69	
107 Indene	116	19.765	19.765	0.000	94	202758	2.00	1.96	
108 Undecane	57	20.050	20.050	0.000	94	252870	2.00	1.68	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.120	20.120	0.000	97	310413	2.00	1.85	
110 1,2-Dibromo-3-Chloropropan	157	20.228	20.228	0.000	86	32596	2.00	0.8859	
111 1,2,4,5-Tetramethylbenzene	119	20.508	20.508	0.000	96	322596	2.00	1.57	
112 1,2,3,5-Tetramethylbenzene	119	20.562	20.562	0.000	93	208255	2.00	1.57	
113 1,2,3,4-Tetramethylbenzene	119	20.981	20.981	0.000	96	240208	2.00	1.47	
114 Dodecane	57	21.126	21.126	0.000	93	230750	2.00	1.72	
115 1,2,4-Trichlorobenzene	180	21.358	21.358	0.000	93	45663	2.00	1.54	
116 Naphthalene	128	21.503	21.503	0.000	98	116615	2.00	1.48	
117 Benzo(b)thiophene	134	21.600	21.600	0.000	99	47739	2.00	1.73	
118 Hexachlorobutadiene	225	21.680	21.680	0.000	96	156762	2.00	1.33	
119 1,2,3-Trichlorobenzene	180	21.745	21.745	0.000	95	50239	2.00	1.54	
120 2-Methylnaphthalene	142	22.288	22.288	0.000	99	25169	6.25	4.90	
121 1-Methylnaphthalene	142	22.412	22.412	0.000	98	24180	6.25	4.48	
A 124 Toluene Range	1	14.225	(14.195-14.255)	0	0	907009	2.00	1.73	
A 125 C8 Range	1	14.893	(14.848-14.938)	0	0	1326355	2.00	1.92	
S 126 Xylenes, Total	100				0		6.00	4.73	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.00	

Reagents:

40CV101S_00017

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JCCVI22.D

Injection Date: 22-Sep-2016 11:33:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 500.000 mL

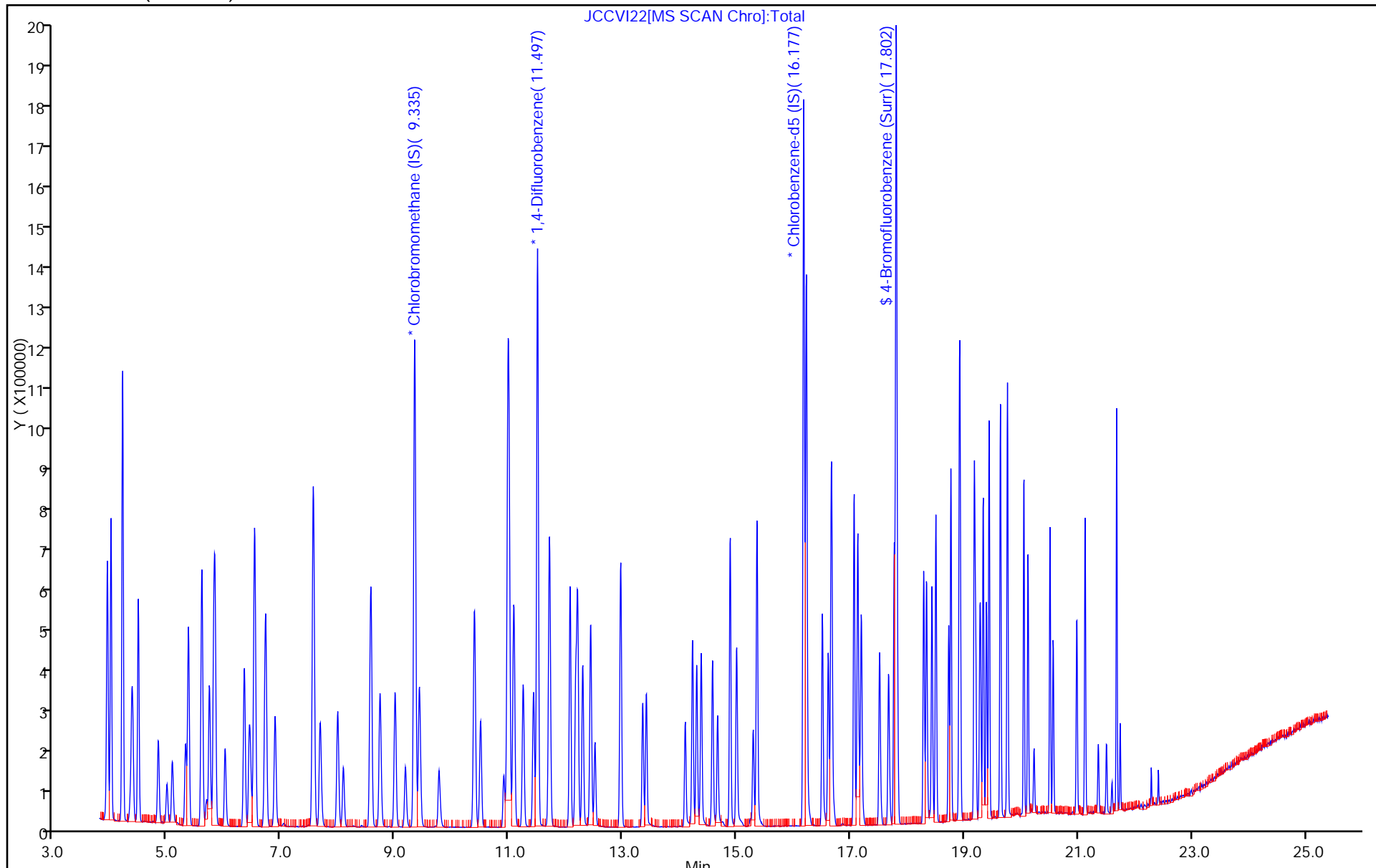
Dil. Factor: 1.0000

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\20160719-3204.b\GBFBG20.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 20-Jul-2016 14:02:30 ALS Bottle#: 16 Worklist Smp#: 1
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Sample Info: bfb,,3,,,
 Misc. Info.: 140-0003157-001140-0003204-001
 Operator ID: 403648 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Jul-2016 15:55:48 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK015

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	5.030	5.030	0.000	0	491365	NR	NR	
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QC Flag Legend

Processing Flags
 NR - Missing Quant Standard

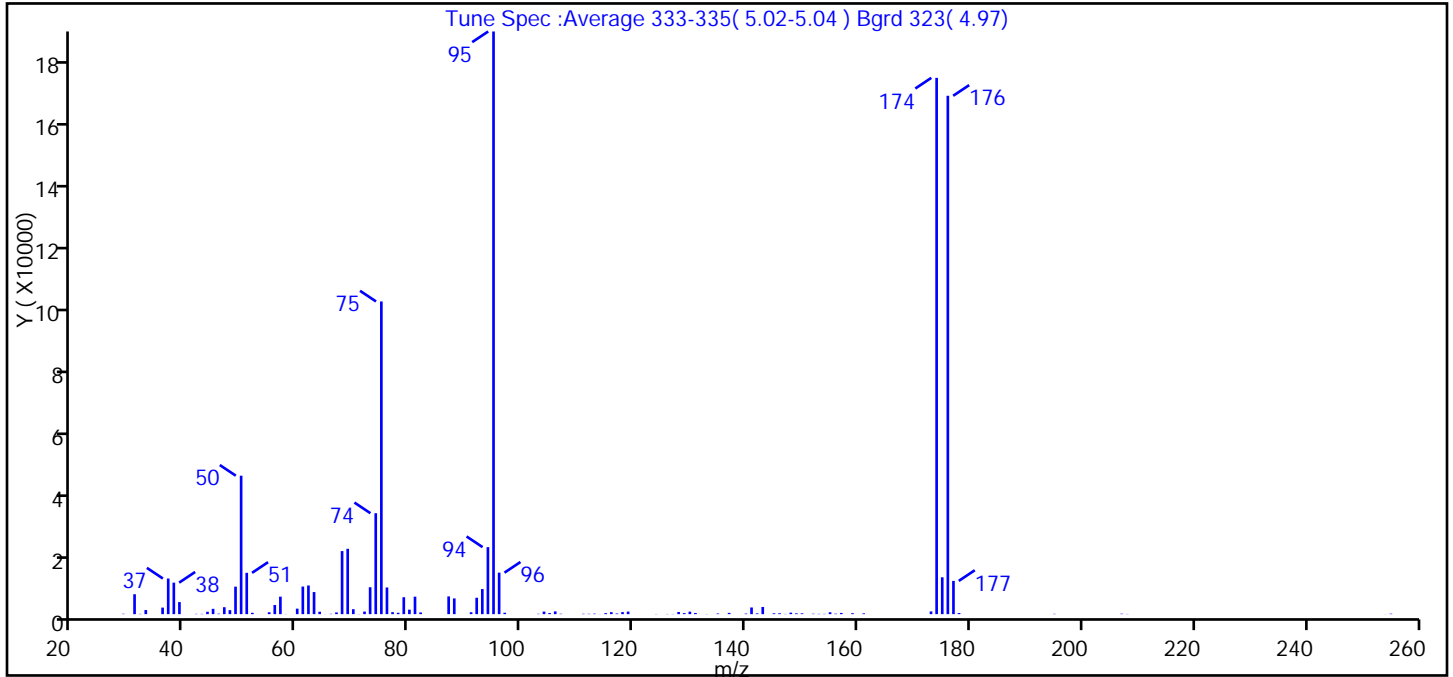
Reagents:

40MXSUR_00001 Amount Added: 40.00 Units: mL

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GBFBG20.D
 Injection Date: 20-Jul-2016 14:02:30 Instrument ID: MG
 Lims ID: BFB
 Client ID:
 Operator ID: 403648 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	23.8
75	30 to 60% of m/z 95	53.7
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.5 (0.5)
174	50 to 120% of m/z 95	92.0
175	5 to 9% of m/z 174	6.3 (6.9)
176	Greater than 95% but less than 101% of m/z 174	89.0 (96.7)
177	5 to 9% of m/z 176	5.7 (6.4)

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GBFBG20.D\MG_TO15.rslt\spectra.d
 Injection Date: 20-Jul-2016 14:02:30
 Spectrum: Tune Spec :Average 333-335(5.02-5.04) Bgrd 323(4.97)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	119	63.00	7098	96.00	13339	142.00	248
31.00	6407	64.00	770	97.00	448	143.00	2307
32.00	86	65.00	19	103.00	106	145.00	267
33.00	1322	66.00	104	104.00	826	146.00	279
36.00	2103	67.00	557	105.00	348	147.00	61
37.00	11452	68.00	20272	106.00	886	148.00	491
38.00	10129	69.00	21000	107.00	125	149.00	261
39.00	3883	70.00	1590	111.00	122	150.00	264
40.00	10	71.00	53	112.00	112	152.00	126
42.00	96	72.00	830	113.00	155	153.00	94
43.00	83	73.00	8652	114.00	23	154.00	93
44.00	762	74.00	32448	115.00	325	155.00	605
45.00	1706	75.00	100528	116.00	632	156.00	158
46.00	154	76.00	8573	117.00	212	157.00	387
47.00	2229	77.00	639	118.00	655	159.00	302
48.00	1285	78.00	442	119.00	819	161.00	258
49.00	8839	79.00	5445	124.00	53	173.00	873
50.00	44512	80.00	1442	126.00	62	174.00	172416
51.00	13280	81.00	5621	127.00	57	175.00	11844
52.00	430	82.00	547	128.00	690	176.00	166656
53.00	11	83.00	4	129.00	332	177.00	10685
55.00	603	87.00	5704	130.00	797	178.00	356
56.00	2942	88.00	5053	131.00	375	195.00	104
57.00	5620	91.00	606	133.00	50	207.00	142
58.00	36	92.00	5266	135.00	206	208.00	58
60.00	1767	93.00	8068	137.00	408	254.00	24
61.00	8871	94.00	21544	140.00	181	255.00	151
62.00	9207	95.00	187328	141.00	2144		

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GBFBG20.D

Injection Date: 20-Jul-2016 14:02:30

Instrument ID: MG

Operator ID: 403648

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 500.0 mL

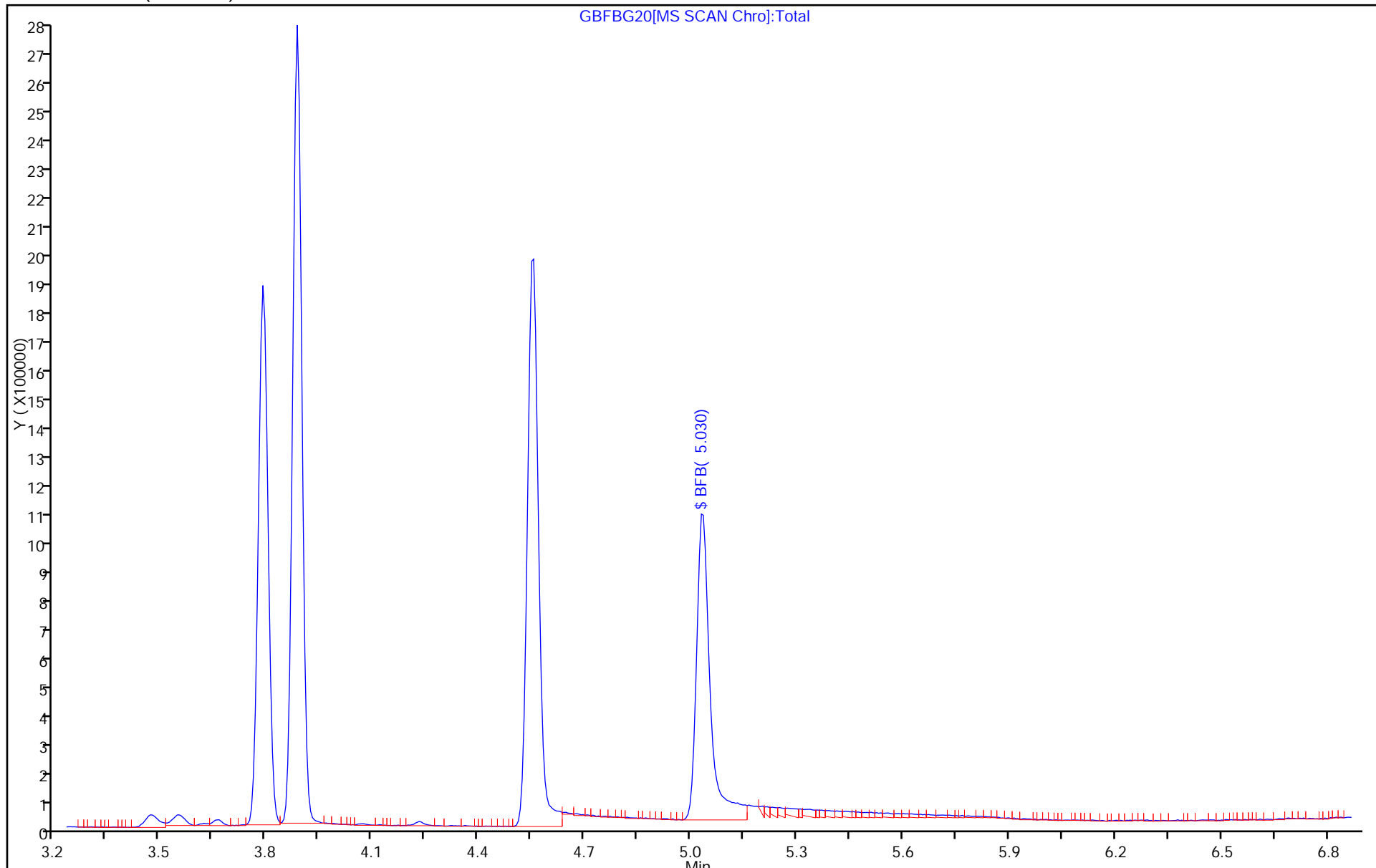
Dil. Factor: 1.0000

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\20160919-3444.b\GBFBI21.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 21-Sep-2016 12:42:30 ALS Bottle#: 16 Worklist Smp#: 1
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-001
 Misc. Info.: BFB
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:12 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

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	5.100	5.100	0.000	0	407322	NR	NR	

QC Flag Legend

Processing Flags
 NR - Missing Quant Standard

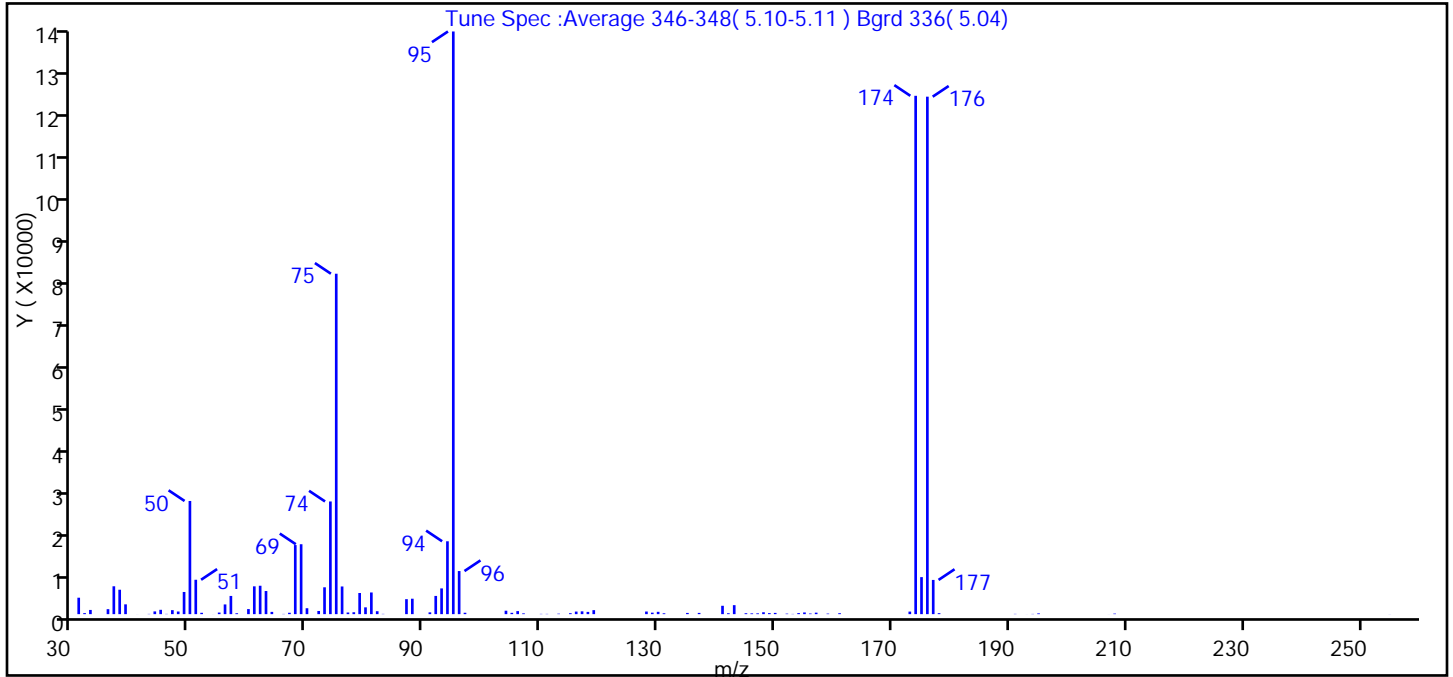
Reagents:

40MXSUR_00001 Amount Added: 40.00 Units: mL

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GBFBI21.D
 Injection Date: 21-Sep-2016 12:42:30 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	19.4
75	30 to 60% of m/z 95	58.4
96	5 to 9% of m/z 95	7.4
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	89.0
175	5 to 9% of m/z 174	6.4 (7.1)
176	Greater than 95% but less than 101% of m/z 174	88.8 (99.8)
177	5 to 9% of m/z 176	5.9 (6.6)

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GBFBI21.DMG_TO15.rslt\spectra.d
 Injection Date: 21-Sep-2016 12:42:30
 Spectrum: Tune Spec :Average 346-348(5.10-5.11) Bgrd 336(5.04)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 102

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	3770	63.00	5306	96.00	9887	148.00	435
32.00	239	64.00	519	97.00	319	149.00	234
33.00	964	66.00	51	104.00	786	150.00	287
36.00	1143	67.00	316	105.00	303	152.00	117
37.00	6394	68.00	15848	106.00	698	153.00	51
38.00	5602	69.00	16042	107.00	180	154.00	244
39.00	2249	70.00	1356	110.00	61	155.00	388
41.00	8	72.00	728	111.00	58	156.00	142
43.00	55	73.00	6159	113.00	106	157.00	340
44.00	625	74.00	25856	115.00	218	159.00	127
45.00	994	75.00	78112	116.00	592	161.00	218
46.00	57	76.00	6349	117.00	643	173.00	587
47.00	919	77.00	376	118.00	516	174.00	118936
48.00	604	78.00	434	119.00	917	175.00	8494
49.00	5085	79.00	4851	128.00	602	176.00	118736
50.00	25968	80.00	1560	129.00	342	177.00	7851
51.00	7890	81.00	4973	130.00	533	178.00	224
52.00	311	82.00	672	131.00	199	191.00	61
54.00	9	83.00	60	135.00	279	193.00	8
55.00	364	87.00	3438	137.00	284	194.00	53
56.00	2229	88.00	3541	141.00	1918	195.00	171
57.00	4177	91.00	411	142.00	209	207.00	9
58.00	203	92.00	4179	143.00	2062	208.00	124
60.00	1161	93.00	5904	145.00	213	255.00	15
61.00	6380	94.00	16720	146.00	179		
62.00	6517	95.00	133696	147.00	184		

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GBFBI21.D

Injection Date: 21-Sep-2016 12:42:30

Instrument ID: MG

Operator ID: 7126

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 500.0 mL

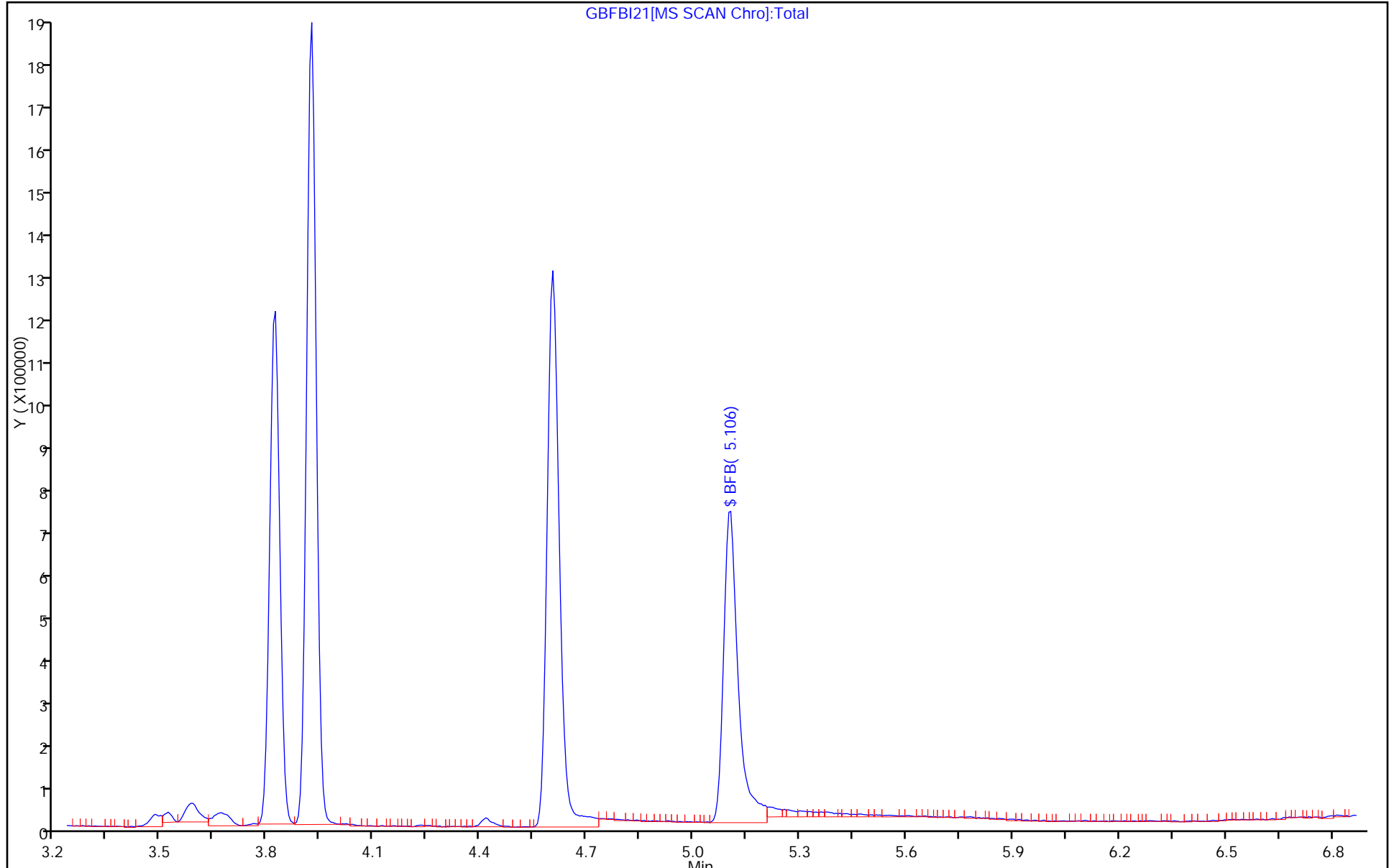
Dil. Factor: 1.0000

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\MJ\20160622-3070.b\JBFBF22Z.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 22-Jun-2016 15:21:30 ALS Bottle#: 16 Worklist Smp#: 1
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Sample Info: 140-0003070-001
 Misc. Info.: J062216,BFB,,
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 27-Jun-2016 15:11:57 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK048

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	4.055	4.055	0.000	0	236566	NR	NR	

QC Flag Legend

Processing Flags
 NR - Missing Quant Standard

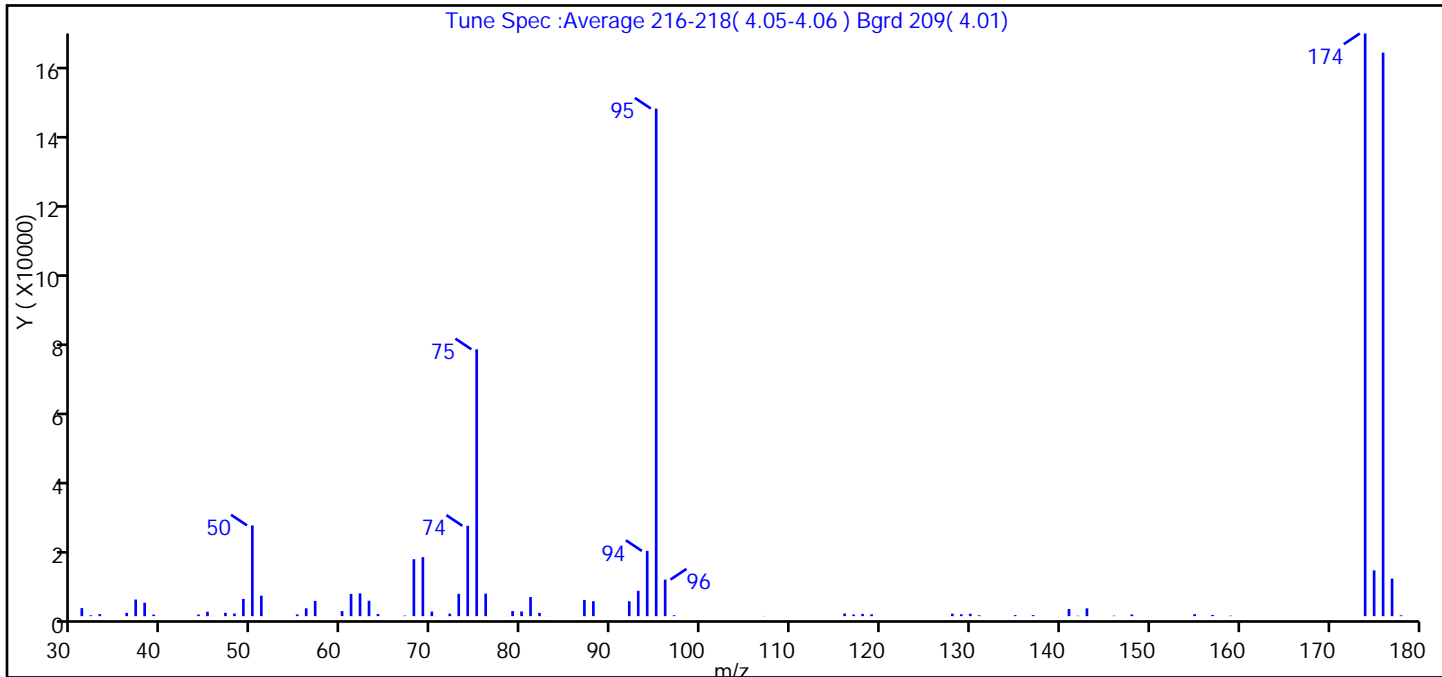
Reagents:

40MXSUR_00001 Amount Added: 40.00 Units: mL

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JBFBF22Z.D
 Injection Date: 22-Jun-2016 15:21:30 Instrument ID: MJ
 Lims ID: BFB
 Client ID:
 Operator ID: 7126 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	17.9
75	30 to 60% of m/z 95	52.6
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	114.8
175	5 to 9% of m/z 174	9.0 (7.9)
176	Greater than 95% but less than 101% of m/z 174	111.0 (96.7)
177	5 to 9% of m/z 176	7.4 (6.7)

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JBFBF22Z.D\MJ_TO15.rsl\spectra.d
Injection Date: 22-Jun-2016 15:21:30
Spectrum: Tune Spec :Average 216-218(4.05-4.06) Bgrd 209(4.01)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 68

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	2239	60.00	1409	82.00	893	130.00	667
32.00	238	61.00	6173	83.00	14	131.00	234
33.00	574	62.00	6331	87.00	4472	135.00	281
36.00	904	63.00	4276	88.00	4153	137.00	294
37.00	4614	64.00	590	92.00	4134	141.00	1992
38.00	3722	67.00	160	93.00	7037	142.00	116
39.00	425	68.00	15827	94.00	18120	143.00	2165
44.00	445	69.00	16400	95.00	141056	146.00	125
45.00	1222	70.00	1273	96.00	10159	148.00	470
47.00	922	72.00	684	97.00	248	155.00	548
48.00	718	73.00	6192	107.00	52	157.00	333
49.00	4792	74.00	25104	116.00	729	159.00	129
50.00	25208	75.00	74152	117.00	460	174.00	161920
51.00	5688	76.00	6247	118.00	630	175.00	12717
55.00	477	79.00	1421	119.00	512	176.00	156608
56.00	2184	80.00	1307	128.00	684	177.00	10446
57.00	4237	81.00	5299	129.00	516	178.00	229

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JBFBF22Z.D

Injection Date: 22-Jun-2016 15:21:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 500.0 mL

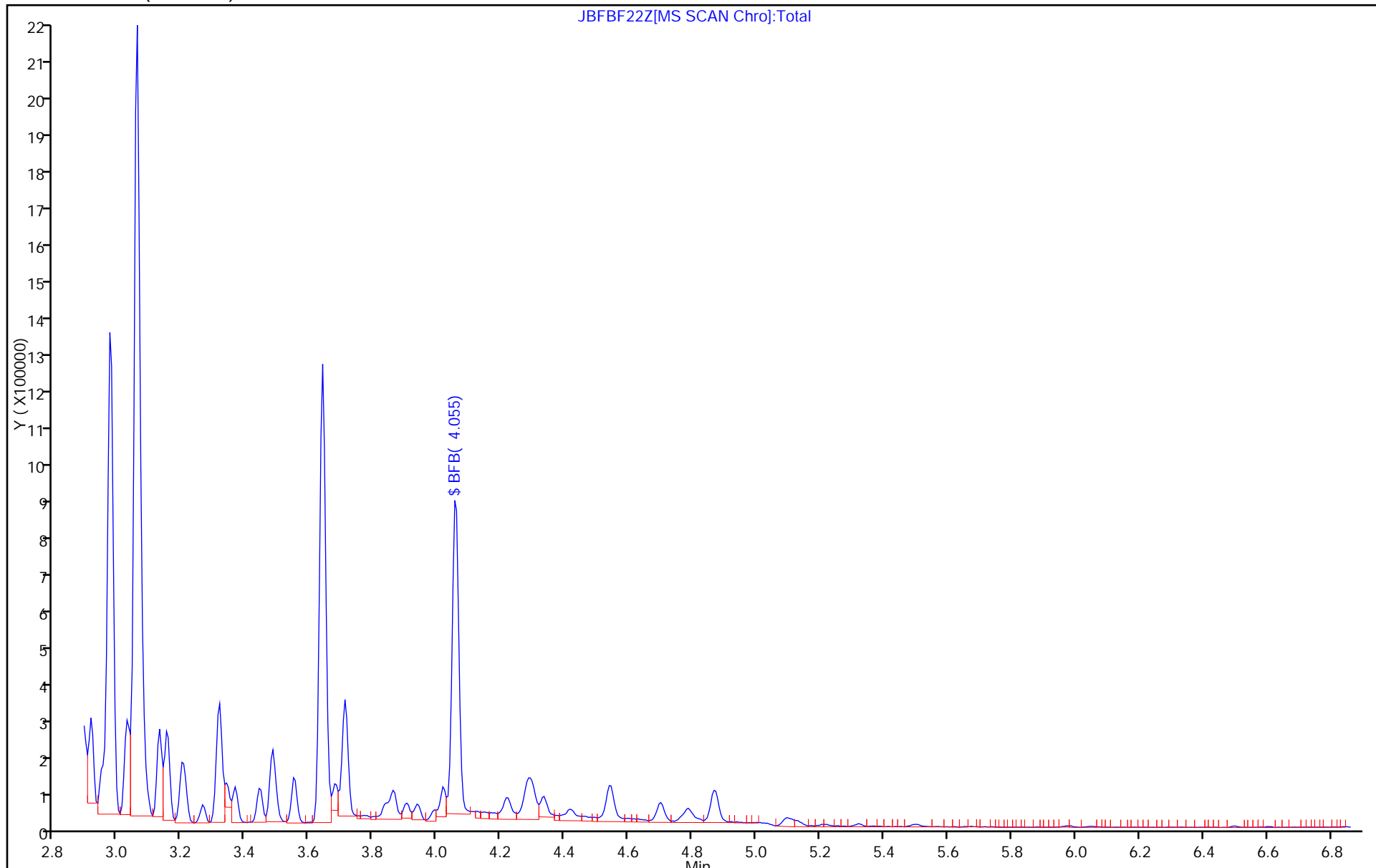
Dil. Factor: 1.0000

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\20160920-3446.b\JBFB122.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 22-Sep-2016 11:06:30 ALS Bottle#: 16 Worklist Smp#: 1
 Injection Vol: 500.0 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-001
 Misc. Info.: BFB
 Operator ID: 007126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:20:23 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: tajh Date: 23-Sep-2016 10:20:22

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	4.052	4.052	0.000	0	338483	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

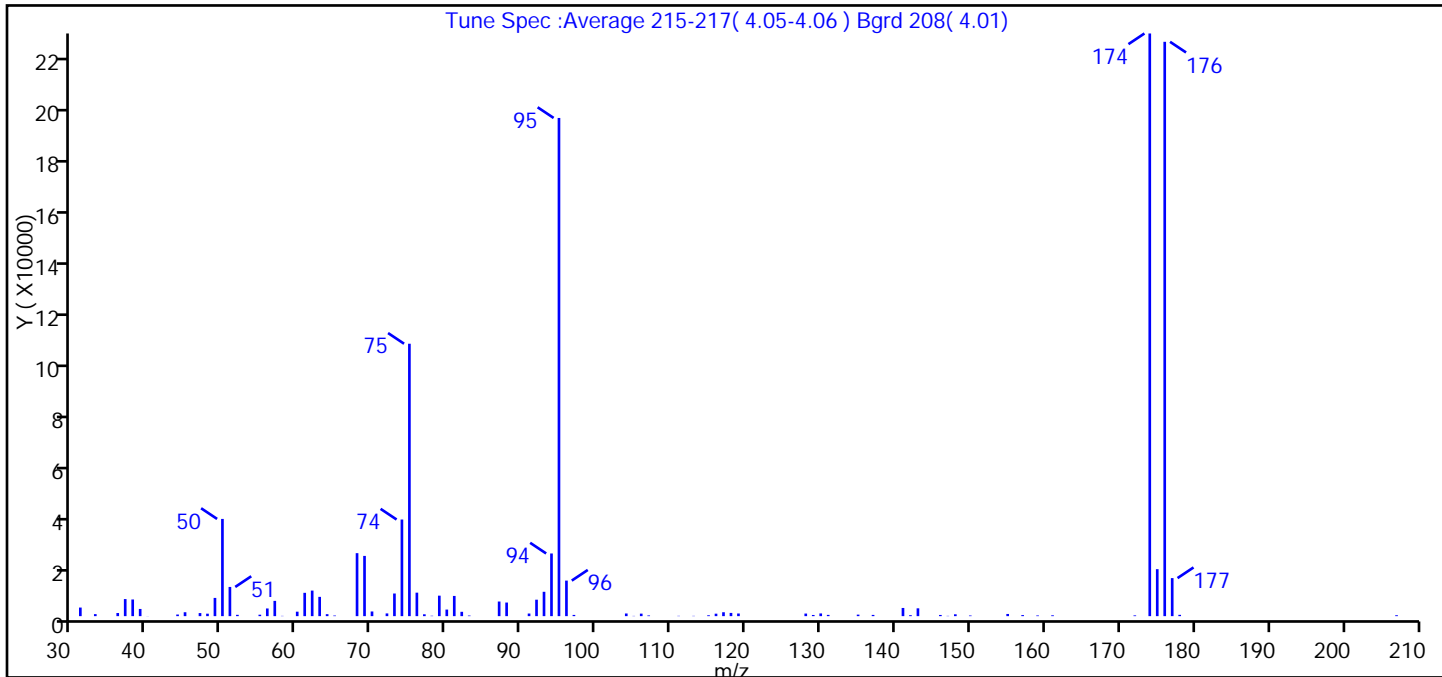
Reagents:

40MXSUR_00001 Amount Added: 40.00 Units: mL

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JBFB122.D
 Injection Date: 22-Sep-2016 11:06:30 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	54.7
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	117.0
175	5 to 9% of m/z 174	9.4 (8.1)
176	Greater than 95% but less than 101% of m/z 174	115.3 (98.6)
177	5 to 9% of m/z 176	7.6 (6.6)

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JBFBI22.D\MJ_TO15.rslt\spectra.d
Injection Date: 22-Sep-2016 11:06:30
Spectrum: Tune Spec :Average 215-217(4.05-4.06) Bgrd 208(4.01)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	3300	62.00	9816	91.00	1004	131.00	481
33.00	777	63.00	7406	92.00	6318	135.00	585
36.00	1200	64.00	759	93.00	9353	137.00	476
37.00	6556	65.00	234	94.00	24072	141.00	3145
38.00	6398	68.00	24192	95.00	191360	142.00	367
39.00	2763	69.00	23136	96.00	13651	143.00	3004
40.00	40	70.00	1794	97.00	473	146.00	456
44.00	622	72.00	1045	104.00	1021	147.00	102
45.00	1499	73.00	8694	105.00	91	148.00	711
47.00	1180	74.00	37112	106.00	967	150.00	242
48.00	945	75.00	104640	107.00	261	155.00	839
49.00	7002	76.00	9019	111.00	112	157.00	406
50.00	37344	77.00	712	113.00	104	159.00	260
51.00	11218	78.00	145	115.00	333	161.00	319
52.00	507	79.00	7869	116.00	947	172.00	289
55.00	553	80.00	2521	117.00	1501	174.00	223808
56.00	2947	81.00	7760	118.00	1237	175.00	18040
57.00	5862	82.00	1668	119.00	1016	176.00	220608
58.00	100	83.00	225	128.00	993	177.00	14612
60.00	1713	87.00	5617	129.00	450	178.00	505
61.00	8957	88.00	5224	130.00	1040	207.00	346

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JBFB122.D

Injection Date: 22-Sep-2016 11:06:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 500.0 mL

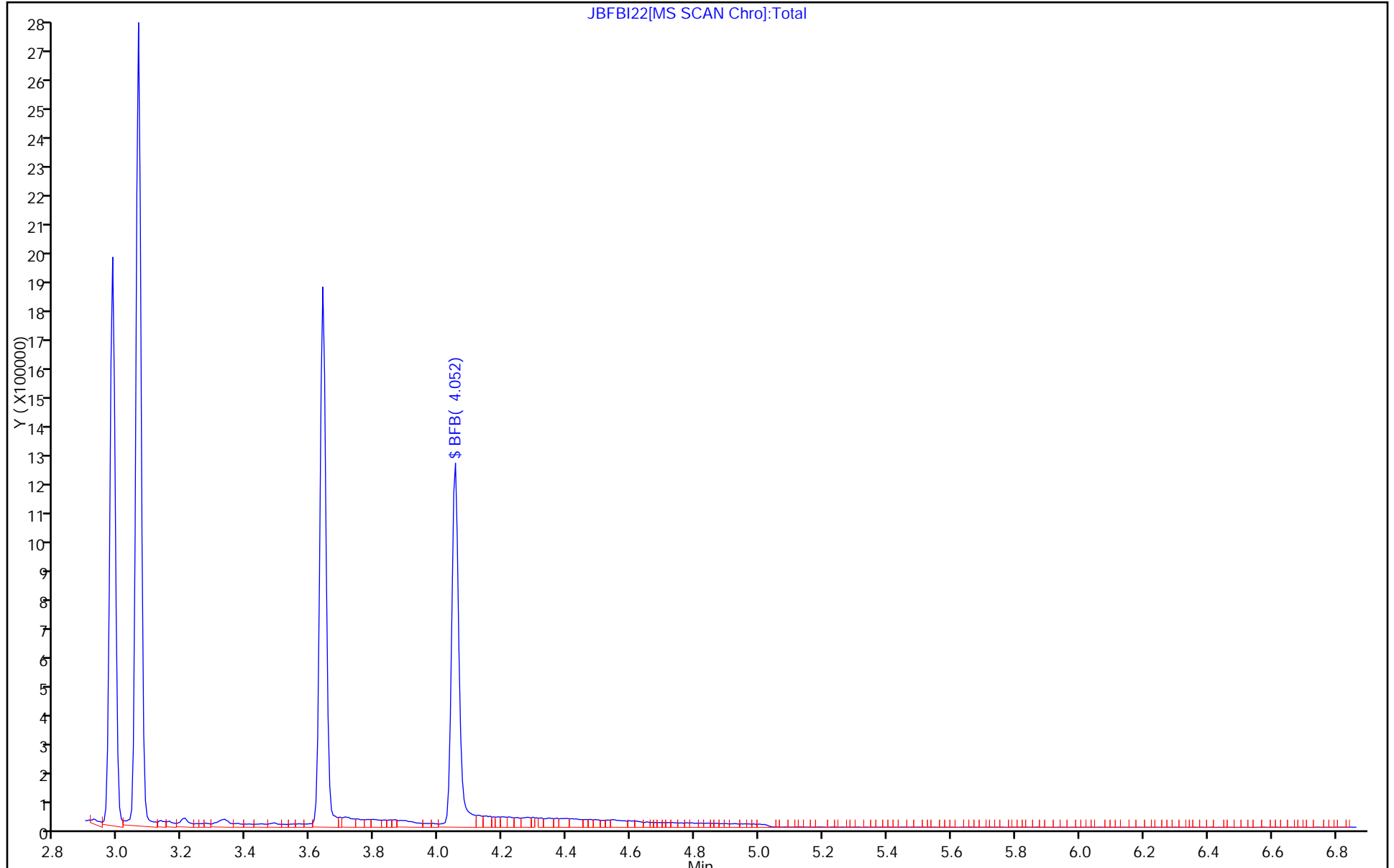
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-6625/4
 Matrix: Air Lab File ID: GMB500I21.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 09/21/2016 15:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-6625/4
 Matrix: Air Lab File ID: GMB500I21.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 09/21/2016 15:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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)	103		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-6625/4
 Matrix: Air Lab File ID: GMB500I21.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 15:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-6625/4
 Matrix: Air Lab File ID: GMB500I21.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 15:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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)	103		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GMB500I21.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Sep-2016 15:19:30 ALS Bottle#: 16 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-004
 Misc. Info.: 500ML BLK
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 21-Sep-2016 16:00:50

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	8.444	8.454	-0.010	91	229447	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.611	10.617	-0.006	96	1113400	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.389	15.394	-0.005	93	993343	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	91	711078	4.00	4.10	
31 Methylene Chloride	84	6.055	6.055	0.000	88	3177		0.0569	
T 129 Methanol TIC	31	4.049	4.040	0.009	72	37946		0.6615	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GMB500I21.D

Injection Date: 21-Sep-2016 15:19:30

Instrument ID: MG

Operator ID: 7126

Lims ID: mb

Worklist Smp#: 4

Client ID:

Purge Vol: 500.000 mL

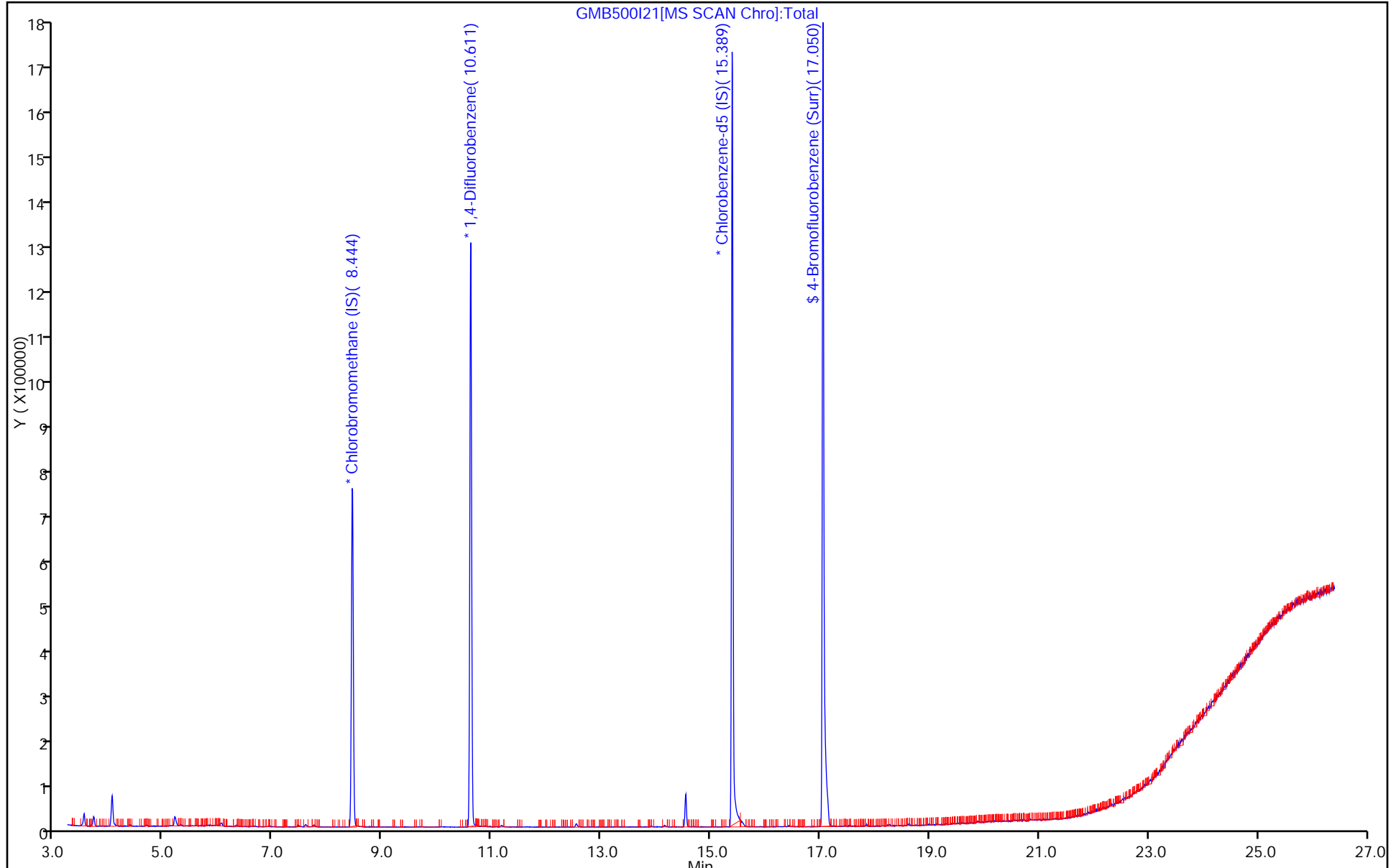
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



GMB500I21[MS SCAN Chro]:Total

TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GMB500I21.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Sep-2016 15:19:30 ALS Bottle#: 16 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-004
 Misc. Info.: 500ML BLK
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 21-Sep-2016 16:00:50

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.10	102.52

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-6632/17
 Matrix: Air Lab File ID: LOT5871MB.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-6632/17
 Matrix: Air Lab File ID: LOT5871MB.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 09/22/2016 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 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)	107		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-6632/17
 Matrix: Air Lab File ID: LOT5871MB.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 140-6632/17
 Matrix: Air Lab File ID: LOT5871MB.D
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 09/22/2016 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6632 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)	107		60-140

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\LOT5871MB.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 22-Sep-2016 15:32:30 ALS Bottle#: 3 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-006
 Misc. Info.: 10332
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: barlozhetskayaa Date: 22-Sep-2016 17:47:38

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	9.329	9.335	-0.006	96	275210	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.491	11.497	-0.006	97	1256746	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.177	16.177	0.000	90	1112230	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.807	17.802	0.005	96	700102	4.00	4.26	
13 Butane	43	4.471	4.477	-0.006	90	4046		0.0511	
19 2-Methylbutane	43	5.348	5.359	-0.011	93	3461		0.0365	
28 2-Methyl-2-propanol	59	6.435	6.430	0.005	92	6242		0.0435	
31 Methylene Chloride	84	6.698	6.709	-0.011	93	6603		0.0873	
39 2-Butanone (MEK)	72	8.554	8.555	-0.001	97	4046		0.1532	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\LOT5871MB.D

Injection Date: 22-Sep-2016 15:32:30

Instrument ID: MJ

Operator ID: 7126

Lims ID: MB

Worklist Smp#: 17

Client ID:

Purge Vol: 500.000 mL

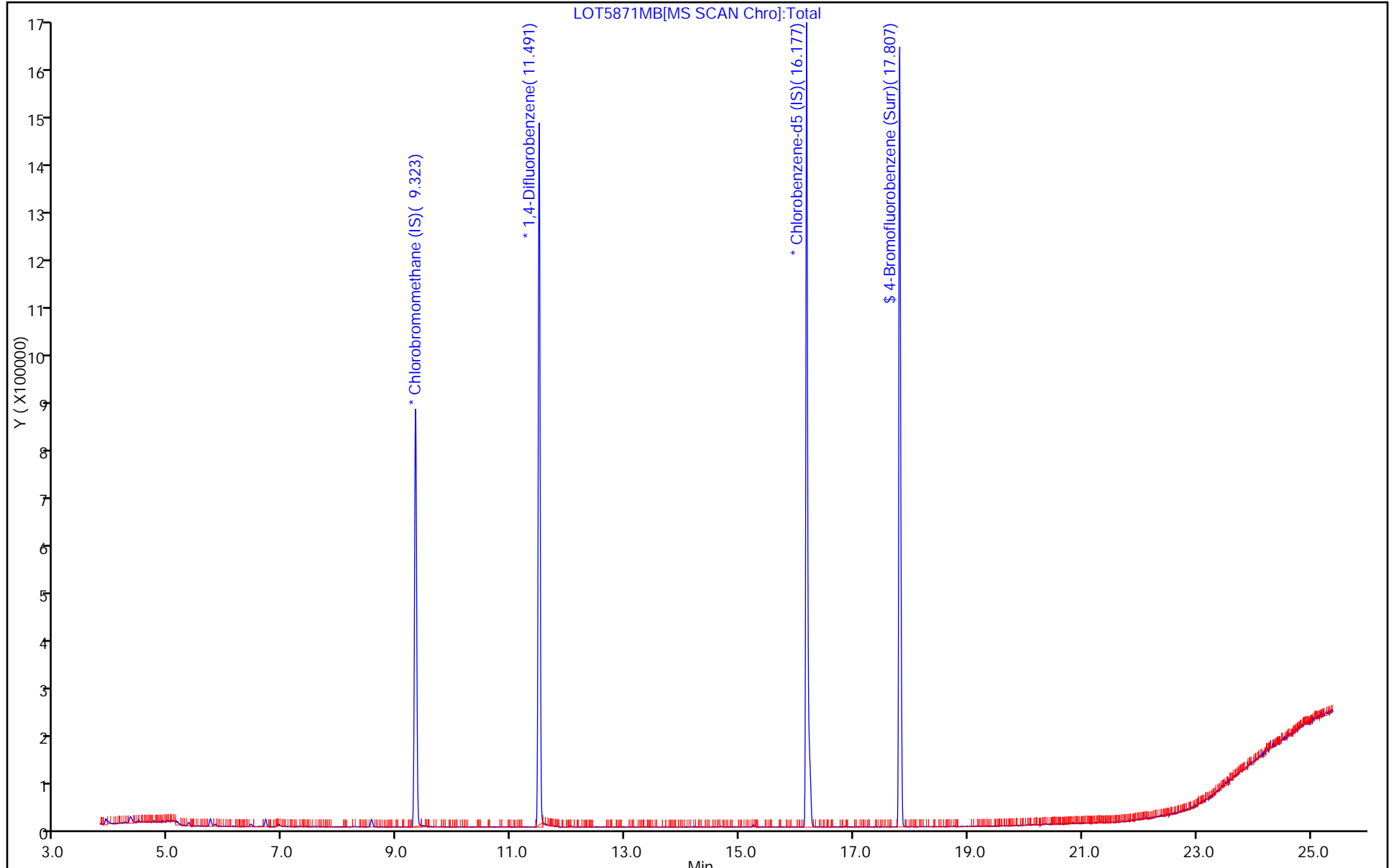
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



TestAmerica Knoxville
Recovery Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\LOT5871MB.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 22-Sep-2016 15:32:30 ALS Bottle#: 3 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-006
 Misc. Info.: 10332
 Operator ID: 7126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:41 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: barlozhetskayaa Date: 22-Sep-2016 17:47:38

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.26	106.58

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-6625/1002
 Matrix: Air Lab File ID: GCCVI21-LCS.d
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 13:15
 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.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	2.37		0.080
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.02		0.080
79-00-5	1,1,2-Trichloroethane	133.41	2.10		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	2.42		0.080
75-34-3	1,1-Dichloroethane	98.96	1.95		0.080
75-35-4	1,1-Dichloroethene	96.94	2.07		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	1.86		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	1.85		0.080
106-93-4	1,2-Dibromoethane	187.87	2.11		0.080
95-50-1	1,2-Dichlorobenzene	147.00	1.83		0.080
107-06-2	1,2-Dichloroethane	98.96	2.12		0.080
78-87-5	1,2-Dichloropropane	112.99	1.75		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.20		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	1.81		0.080
541-73-1	1,3-Dichlorobenzene	147.00	1.89		0.080
106-46-7	1,4-Dichlorobenzene	147.00	1.93		0.080
123-91-1	1,4-Dioxane	88.11	1.57		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	1.66		0.20
78-93-3	2-Butanone	72.11	1.71		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.27		0.20
71-43-2	Benzene	78.11	1.92		0.080
100-44-7	Benzyl chloride	126.58	1.97		0.16
75-27-4	Bromodichloromethane	163.83	2.24		0.080
75-25-2	Bromoform	252.75	1.82		0.080
74-83-9	Bromomethane	94.94	2.05		0.080
56-23-5	Carbon tetrachloride	153.81	2.42		0.040
108-90-7	Chlorobenzene	112.56	1.97		0.080
75-00-3	Chloroethane	64.52	1.75		0.080
67-66-3	Chloroform	119.38	2.28		0.080
74-87-3	Chloromethane	50.49	1.52		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	1.93		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	2.12		0.080
110-82-7	Cyclohexane	84.16	2.13		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-6625/1002
 Matrix: Air Lab File ID: GCCVI21-LCS.d
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 09/21/2016 13:15
 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.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	2.24		0.080
75-71-8	Dichlorodifluoromethane	120.91	2.62		0.080
64-17-5	Ethanol	46.07	5.65		2.0
100-41-4	Ethylbenzene	106.17	2.01		0.080
87-68-3	Hexachlorobutadiene	260.76	1.84		0.080
110-54-3	Hexane	86.17	1.72		0.20
1634-04-4	Methyl tert-butyl ether	88.15	2.08		0.16
75-09-2	Methylene Chloride	84.93	1.73		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	4.07		0.080
95-47-6	o-Xylene	106.17	1.97		0.080
100-42-5	Styrene	104.15	2.00		0.080
75-65-0	t-Butyl alcohol	74.12	1.63		0.32
127-18-4	Tetrachloroethene	165.83	2.02		0.080
108-88-3	Toluene	92.14	1.95		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	2.06		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	2.31		0.080
79-01-6	Trichloroethene	131.39	1.81		0.040
75-69-4	Trichlorofluoromethane	137.37	2.62		0.080
75-01-4	Vinyl chloride	62.50	1.76		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GCCVI21-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Sep-2016 13:15:30 ALS Bottle#: 15 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-002
 Misc. Info.: P23
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 21-Sep-2016 14:08:45

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	8.454	8.454	0.000	90	240717	4.00	4.00	
* 2 1,4-Difluorobenzene	114	10.617	10.617	0.000	96	1209351	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.394	15.394	0.000	91	1100545	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.050	17.050	0.000	92	861607	4.00	4.48	
6 Chlorodifluoromethane	67	3.698	3.698	0.000	96	57090	2.00	2.85	
7 Propene	41	3.709	3.709	0.000	96	125226	2.00	1.46	
8 Dichlorodifluoromethane	85	3.758	3.758	0.000	100	542676	2.00	2.62	
9 Chloromethane	52	3.919	3.919	0.000	97	35698	2.00	1.52	
10 1,2-Dichloro-1,1,2,2-tetra	135	3.930	3.930	0.000	95	286370	2.00	2.20	
11 Acetaldehyde	44	4.054	4.054	0.000	85	190945	10.0	4.93	
12 Vinyl chloride	62	4.076	4.076	0.000	99	133404	2.00	1.76	
14 Butane	43	4.157	4.157	0.000	84	190175	2.00	1.41	
13 Butadiene	54	4.157	4.157	0.000	69	95649	2.00	1.54	
15 Bromomethane	94	4.442	4.442	0.000	97	131739	2.00	2.05	
16 Chloroethane	64	4.566	4.566	0.000	90	64180	2.00	1.75	
17 Ethanol	31	4.663	4.663	0.000	97	195213	10.0	5.65	
18 Vinyl bromide	106	4.841	4.841	0.000	95	115487	2.00	1.87	
19 2-Methylbutane	43	4.890	4.890	0.000	89	121792	2.00	1.34	
21 Acrolein	56	5.089	5.089	0.000	29	22923	2.00	1.47	
20 Trichlorofluoromethane	101	5.095	5.095	0.000	99	510488	2.00	2.62	
22 Acetonitrile	40	5.149	5.149	0.000	96	32670	2.00	1.06	
23 Acetone	58	5.192	5.192	0.000	99	113288	6.00	3.38	
25 Isopropyl alcohol	45	5.284	5.284	0.000	94	338491	6.00	3.17	
24 Pentane	72	5.300	5.300	0.000	95	23194	2.00	2.05	
26 Ethyl ether	31	5.440	5.440	0.000	91	86169	2.00	1.12	
27 1,1-Dichloroethene	96	5.737	5.737	0.000	97	121340	2.00	2.07	
28 Acrylonitrile	53	5.823	5.823	0.000	92	45094	2.00	1.15	
29 2-Methyl-2-propanol	59	5.834	5.834	0.000	95	170911	2.00	1.63	
30 1,1,2-Trichloro-1,2,2-trif	101	5.909	5.909	0.000	90	287385	2.00	2.42	
31 Methylene Chloride	84	6.055	6.055	0.000	89	101538	2.00	1.73	
32 3-Chloro-1-propene	39	6.071	6.071	0.000	93	125373	2.00	1.47	

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	6.200	6.200	0.000	100	410572	2.00	2.16	
34 trans-1,2-Dichloroethene	96	6.815	6.815	0.000	96	145153	2.00	2.06	
35 2-Methylpentane	43	6.842	6.842	0.000	93	299573	2.00	1.65	
36 Methyl tert-butyl ether	73	6.934	6.934	0.000	95	387794	2.00	2.08	
37 1,1-Dichloroethane	63	7.203	7.203	0.000	100	280317	2.00	1.95	
38 Vinyl acetate	43	7.311	7.311	0.000	100	322760	2.00	1.53	
39 2-Butanone (MEK)	72	7.721	7.721	0.000	100	58197	2.00	1.71	
40 Hexane	56	7.775	7.775	0.000	89	109368	2.00	1.72	
41 Isopropyl ether	45	7.920	7.920	0.000	95	400957	2.00	1.45	
42 cis-1,2-Dichloroethene	96	8.142	8.142	0.000	97	143967	2.00	1.93	
43 Ethyl acetate	43	8.325	8.325	0.000	98	262121	2.00	1.51	
44 Chloroform	83	8.476	8.476	0.000	96	367068	2.00	2.28	
45 Tert-butyl ethyl ether	59	8.568	8.568	0.000	95	379426	2.00	1.73	
46 Tetrahydrofuran	42	8.848	8.848	0.000	91	130181	2.00	1.39	
47 1,1,1-Trichloroethane	97	9.463	9.463	0.000	95	420443	2.00	2.37	
48 1,2-Dichloroethane	62	9.560	9.560	0.000	99	254107	2.00	2.12	
51 n-Butanol	31	10.040	10.040	0.000	70	47113	2.00	1.32	
49 Benzene	78	10.056	10.056	0.000	96	426289	2.00	1.92	
50 Cyclohexane	69	10.067	10.067	0.000	92	81125	2.00	2.13	
52 Carbon tetrachloride	117	10.088	10.088	0.000	96	422659	2.00	2.42	
53 2,3-Dimethylpentane	71	10.201	10.201	0.000	90	104663	2.00	1.99	
54 Thiophene	84	10.331	10.331	0.000	96	243957	2.00	1.90	
55 Tert-amyl methyl ether	73	10.547	10.547	0.000	98	398889	2.00	1.95	
56 Isooctane	57	10.854	10.854	0.000	97	693375	2.00	1.66	
57 n-Heptane	71	11.237	11.237	0.000	92	166233	2.00	1.99	
58 1,2-Dichloropropane	63	11.285	11.285	0.000	89	157345	2.00	1.75	
59 Trichloroethene	130	11.334	11.334	0.000	92	202812	2.00	1.81	
60 Dibromomethane	93	11.399	11.399	0.000	95	189653	2.00	1.98	
61 Dichlorobromomethane	83	11.555	11.555	0.000	98	386358	2.00	2.24	
62 1,4-Dioxane	88	11.571	11.571	0.000	96	49470	2.00	1.57	
63 Methyl methacrylate	41	11.668	11.668	0.000	89	171064	2.00	1.39	
64 Methylcyclohexane	83	12.116	12.116	0.000	96	345962	2.00	2.01	
65 4-Methyl-2-pentanone (MIBK)	43	12.520	12.520	0.000	98	250690	2.00	1.27	
66 cis-1,3-Dichloropropene	75	12.574	12.574	0.000	96	277288	2.00	2.12	
67 trans-1,3-Dichloropropene	75	13.275	13.275	0.000	97	258829	2.00	2.31	
68 Toluene	91	13.405	13.405	0.000	93	468510	2.00	1.95	
69 1,1,2-Trichloroethane	83	13.475	13.475	0.000	97	147857	2.00	2.10	
70 2-Methylthiophene	97	13.555	13.555	0.000	97	386767	2.00	1.93	
71 3-Methylthiophene	97	13.760	13.760	0.000	99	386165	2.00	1.97	
72 2-Hexanone	58	13.879	13.879	0.000	94	109162	2.00	1.40	
73 n-Octane	85	14.132	14.132	0.000	91	179047	2.00	2.10	
74 Chlorodibromomethane	129	14.181	14.181	0.000	97	337556	2.00	2.24	
75 Ethylene Dibromide	107	14.467	14.467	0.000	97	278225	2.00	2.11	
76 Tetrachloroethene	129	14.564	14.564	0.000	92	193908	2.00	2.02	
77 Chlorobenzene	112	15.443	15.443	0.000	90	376561	2.00	1.97	
78 2,3-Dimethylheptane	43	15.497	15.497	0.000	93	470237	2.00	1.65	
79 Ethylbenzene	91	15.739	15.739	0.000	99	641245	2.00	2.01	
80 2-Ethylthiophene	97	15.842	15.842	0.000	99	507320	2.00	2.04	
81 m-Xylene & p-Xylene	91	15.907	15.907	0.000	98	1004629	4.00	4.07	
83 Bromoform	173	16.338	16.338	0.000	96	299362	2.00	1.82	
82 n-Nonane	57	16.360	16.360	0.000	91	323854	2.00	1.88	
84 Styrene	104	16.370	16.370	0.000	97	325896	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
85 o-Xylene	91	16.435	16.435	0.000	97	522351	2.00	1.97	
86 1,1,2,2-Tetrachloroethane	83	16.753	16.753	0.000	98	364176	2.00	2.02	
87 1,2,3-Trichloropropane	110	16.910	16.910	0.000	97	113995	2.00	2.03	
88 Isopropylbenzene	105	17.028	17.028	0.000	98	684018	2.00	1.85	
89 N-Propylbenzene	120	17.584	17.584	0.000	99	180124	2.00	1.86	
90 2-Chlorotoluene	126	17.621	17.621	0.000	97	166596	2.00	1.85	
91 4-Ethyltoluene	105	17.740	17.740	0.000	98	643467	2.00	1.82	
92 1,3,5-Trimethylbenzene	120	17.821	17.821	0.000	91	304765	2.00	1.81	
93 Alpha Methyl Styrene	118	18.053	18.053	0.000	86	239046	2.00	1.81	
94 n-Decane	57	18.139	18.139	0.000	93	369613	2.00	1.75	
95 tert-Butylbenzene	119	18.252	18.252	0.000	93	612528	2.00	1.87	
96 1,2,4-Trimethylbenzene	105	18.268	18.268	0.000	96	571383	2.00	1.85	
97 sec-Butylbenzene	105	18.533	18.533	0.000	97	796276	2.00	1.78	
98 1,3-Dichlorobenzene	146	18.533	18.533	0.000	98	379357	2.00	1.89	
99 Benzyl chloride	91	18.614	18.614	0.000	97	468160	2.00	1.97	
100 1,4-Dichlorobenzene	146	18.624	18.624	0.000	93	370014	2.00	1.93	
101 4-Isopropyltoluene	119	18.700	18.700	0.000	97	678931	2.00	1.84	
102 1,2,3-Trimethylbenzene	105	18.743	18.743	0.000	99	425172	2.00	1.77	
103 Butylcyclohexane	83	18.813	18.813	0.000	94	478399	2.00	2.02	
104 1,2-Dichlorobenzene	146	18.991	18.991	0.000	91	357244	2.00	1.83	
105 2,3-Dihydroindene	117	18.991	18.991	0.000	93	470306	2.00	1.71	
106 Indene	116	19.126	19.126	0.000	90	329178	2.00	1.69	
107 n-Butylbenzene	91	19.142	19.142	0.000	98	623437	2.00	1.89	
108 Undecane	57	19.482	19.482	0.000	93	366337	2.00	1.65	
109 1,2-Dimethyl-4-Ethylbenzen	119	19.519	19.519	0.000	97	457679	2.00	1.74	
110 1,2-Dibromo-3-Chloropropan	157	19.600	19.600	0.000	94	122524	2.00	1.63	
111 1,2,4,5-Tetramethylbenzene	119	19.908	19.908	0.000	95	544184	2.00	1.70	
112 1,2,3,5-Tetramethylbenzene	119	19.962	19.962	0.000	93	330178	2.00	1.68	
113 1,2,3,4-Tetramethylbenzene	119	20.361	20.361	0.000	96	425575	2.00	1.62	
114 Dodecane	57	20.544	20.544	0.000	93	281057	2.00	1.56	
115 1,2,4-Trichlorobenzene	180	20.706	20.706	0.000	94	202896	2.00	1.86	
116 Naphthalene	128	20.835	20.835	0.000	99	403189	2.00	1.56	
117 Benzo(b)thiophene	134	20.938	20.938	0.000	99	175259	2.00	1.30	
118 Hexachlorobutadiene	225	21.062	21.062	0.000	96	367921	2.00	1.84	
119 1,2,3-Trichlorobenzene	180	21.116	21.116	0.000	95	196209	2.00	1.59	
120 2-Methylnaphthalene	142	21.903	21.903	0.000	99	163923	6.25	6.86	
121 1-Methylnaphthalene	142	22.081	22.081	0.000	99	164948	6.25	6.94	
A 124 Toluene Range	1	13.400	(13.365-13.435)		0	1167026	2.00	1.88	
A 125 C8 Range	1	14.126	(14.102-14.172)		0	1696457	2.00	1.85	
S 126 Xylenes, Total	100				0		6.00	6.05	
S 127 1,2-Dichloroethene, Total	1				0		4.00	3.99	

Reagents:

40CV101P_00023

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Laboratories

Data File: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\GCCVI21-LCS.d

Injection Date: 21-Sep-2016 13:15:30

Instrument ID: MG

Operator ID: 7126

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

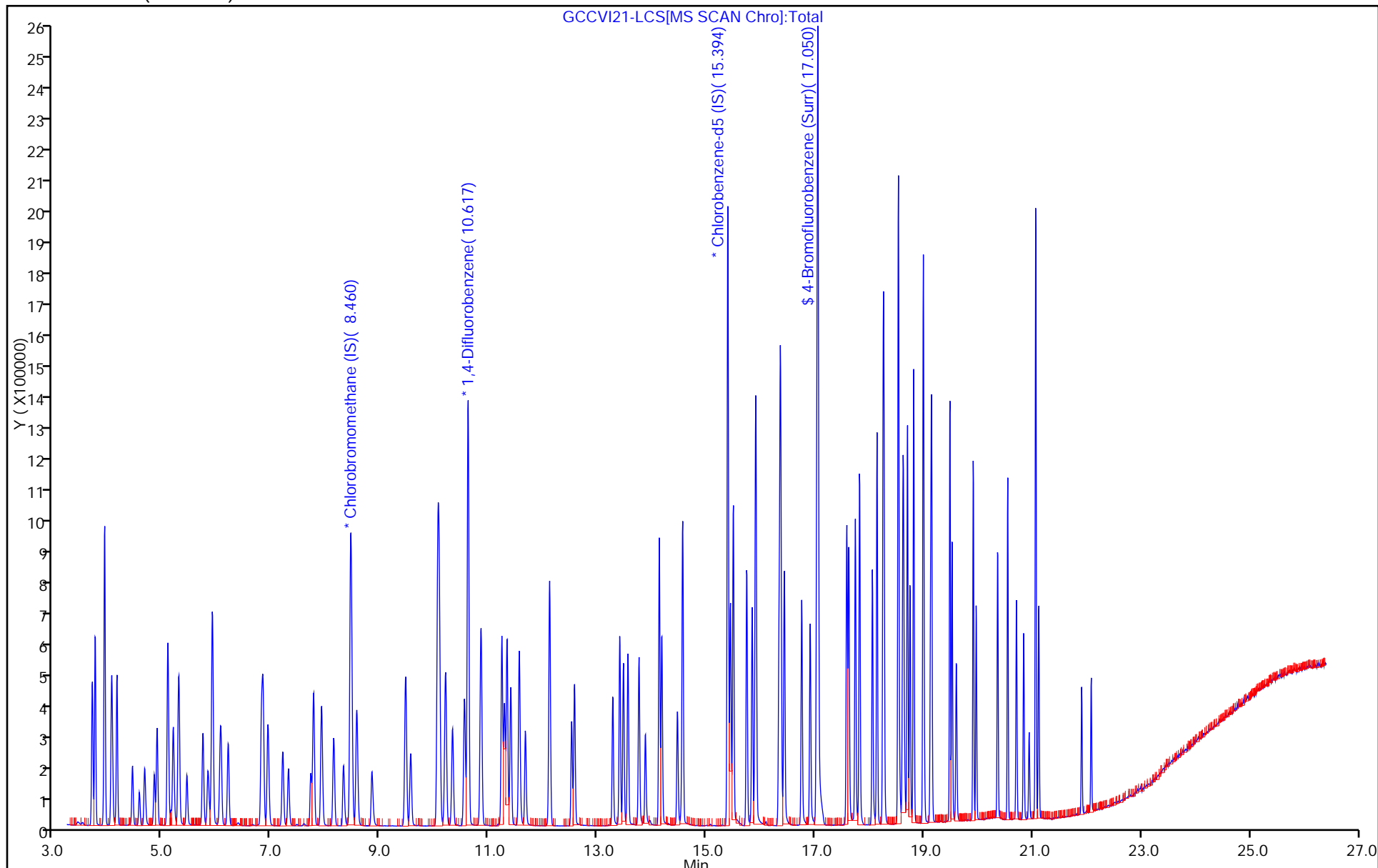
Dil. Factor: 1.0000

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\20160919-3444.b\GCCVI21-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Sep-2016 13:15:30 ALS Bottle#: 15 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003444-002
 Misc. Info.: P23
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160919-3444.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Sep-2016 14:04:16 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: tajh Date: 21-Sep-2016 14:08:45

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.48	112.12

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-6632/1002
 Matrix: Air Lab File ID: JCCVI22-LCS.d
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 11:33
 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.: 6632 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	2.23		0.080
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.55		0.080
79-00-5	1,1,2-Trichloroethane	133.41	1.55		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	2.06		0.080
75-34-3	1,1-Dichloroethane	98.96	2.22		0.080
75-35-4	1,1-Dichloroethene	96.94	1.96		0.080
120-82-1	1,2,4-Trichlorobenzene	181.45	1.54		0.080
95-63-6	1,2,4-Trimethylbenzene	120.20	1.64		0.080
106-93-4	1,2-Dibromoethane	187.87	1.57		0.080
95-50-1	1,2-Dichlorobenzene	147.00	1.50		0.080
107-06-2	1,2-Dichloroethane	98.96	2.16		0.080
78-87-5	1,2-Dichloropropane	112.99	1.75		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.31		0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	1.51		0.080
541-73-1	1,3-Dichlorobenzene	147.00	1.50		0.080
106-46-7	1,4-Dichlorobenzene	147.00	1.50		0.080
123-91-1	1,4-Dioxane	88.11	1.57		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	2.00		0.20
78-93-3	2-Butanone	72.11	1.52		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.70		0.20
71-43-2	Benzene	78.11	1.83		0.080
100-44-7	Benzyl chloride	126.58	1.65		0.16
75-27-4	Bromodichloromethane	163.83	1.88		0.080
75-25-2	Bromoform	252.75	1.61		0.080
74-83-9	Bromomethane	94.94	2.24		0.080
56-23-5	Carbon tetrachloride	153.81	2.23		0.040
108-90-7	Chlorobenzene	112.56	1.56		0.080
75-00-3	Chloroethane	64.52	2.52		0.080
67-66-3	Chloroform	119.38	2.07		0.080
74-87-3	Chloromethane	50.49	2.78		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	2.03		0.080
10061-01-5	cis-1,3-Dichloropropene	110.97	1.81		0.080
110-82-7	Cyclohexane	84.16	2.08		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 140-6632/1002
 Matrix: Air Lab File ID: JCCVI22-LCS.d
 Analysis Method: TO 15 LL Date Collected: _____
 Sample wt/vol: 500 (mL) Date Analyzed: 09/22/2016 11:33
 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.: 6632 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	1.65		0.080
75-71-8	Dichlorodifluoromethane	120.91	2.42		0.080
64-17-5	Ethanol	46.07	13.6		2.0
100-41-4	Ethylbenzene	106.17	1.57		0.080
87-68-3	Hexachlorobutadiene	260.76	1.33		0.080
110-54-3	Hexane	86.17	2.30		0.20
1634-04-4	Methyl tert-butyl ether	88.15	1.84		0.16
75-09-2	Methylene Chloride	84.93	1.98		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	3.18		0.080
95-47-6	o-Xylene	106.17	1.55		0.080
100-42-5	Styrene	104.15	1.64		0.080
75-65-0	t-Butyl alcohol	74.12	1.92		0.32
127-18-4	Tetrachloroethene	165.83	1.55		0.080
108-88-3	Toluene	92.14	1.53		0.12
156-60-5	trans-1,2-Dichloroethene	96.94	1.97		0.080
10061-02-6	trans-1,3-Dichloropropene	110.97	1.79		0.080
79-01-6	Trichloroethene	131.39	1.76		0.040
75-69-4	Trichlorofluoromethane	137.37	2.23		0.080
75-01-4	Vinyl chloride	62.50	2.54		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	115		60-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JCCVI22-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 22-Sep-2016 11:33:30 ALS Bottle#: 15 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-002
 Misc. Info.: S17
 Operator ID: 007126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:18 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: tajh

Date: 23-Sep-2016 10:21:18

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	9.335	9.335	0.000	95	262871	4.00	4.00	
* 2 1,4-Difluorobenzene	114	11.497	11.497	0.000	97	1201816	4.00	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.177	16.177	0.000	91	1109539	4.00	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.802	17.802	0.000	87	755411	4.00	4.61	
6 Chlorodifluoromethane	67	3.928	3.928	0.000	96	77422	2.00	2.37	
7 Propene	41	3.939	3.939	0.000	98	187928	2.00	2.48	
8 Dichlorodifluoromethane	85	3.998	3.998	0.000	100	698660	2.00	2.42	
9 Chloromethane	52	4.192	4.192	0.000	96	56730	2.00	2.78	
10 1,2-Dichloro-1,1,2,2-tetra	135	4.203	4.203	0.000	90	370212	2.00	2.31	
11 Acetaldehyde	44	4.364	4.364	0.000	98	167715	10.0	9.47	
12 Vinyl chloride	62	4.380	4.380	0.000	99	175440	2.00	2.54	
14 Butadiene	54	4.477	4.477	0.000	72	128706	2.00	2.83	
13 Butane	43	4.477	4.477	0.000	82	236538	2.00	3.13	
15 Bromomethane	94	4.832	4.832	0.000	97	145815	2.00	2.24	
16 Chloroethane	64	4.983	4.983	0.000	94	62521	2.00	2.52	
17 Ethanol	31	5.074	5.074	0.000	94	137952	10.0	13.6	
18 Vinyl bromide	106	5.305	5.305	0.000	97	158257	2.00	2.06	
19 2-Methylbutane	43	5.359	5.359	0.000	89	226829	2.00	2.50	
20 Trichlorofluoromethane	101	5.596	5.596	0.000	99	595603	2.00	2.23	
21 Acrolein	56	5.607	5.607	0.000	92	36667	2.00	1.66	
22 Acetonitrile	40	5.677	5.677	0.000	98	50661	2.00	2.09	
23 Acetone	58	5.730	5.730	0.000	99	136871	6.00	4.54	
24 Isopropyl alcohol	45	5.806	5.806	0.000	95	570833	6.00	5.69	
25 Pentane	72	5.827	5.827	0.000	97	23469	2.00	2.07	
26 Ethyl ether	31	6.005	6.005	0.000	93	112197	2.00	2.18	
27 1,1-Dichloroethene	96	6.344	6.344	0.000	91	152555	2.00	1.96	
28 2-Methyl-2-propanol	59	6.430	6.430	0.000	95	262988	2.00	1.92	
29 Acrylonitrile	53	6.451	6.451	0.000	92	83530	2.00	1.81	
30 1,1,2-Trichloro-1,2,2-trif	101	6.521	6.521	0.000	94	374975	2.00	2.06	
31 Methylene Chloride	84	6.709	6.709	0.000	94	143398	2.00	1.98	
32 3-Chloro-1-propene	39	6.720	6.720	0.000	96	175762	2.00	2.54	

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	6.882	6.882	0.000	99	440466	2.00	2.00	
34 trans-1,2-Dichloroethene	96	7.549	7.549	0.000	92	153772	2.00	1.97	
35 2-Methylpentane	43	7.559	7.559	0.000	94	432990	2.00	2.72	
36 Methyl tert-butyl ether	73	7.678	7.678	0.000	96	294622	2.00	1.84	
37 1,1-Dichloroethane	63	7.984	7.984	0.000	100	353364	2.00	2.22	
38 Vinyl acetate	43	8.081	8.081	0.000	100	275656	2.00	2.10	
39 2-Butanone (MEK)	72	8.555	8.555	0.000	94	38388	2.00	1.52	
40 Hexane	56	8.571	8.571	0.000	89	157423	2.00	2.30	
41 Isopropyl ether	45	8.727	8.727	0.000	96	376467	2.00	1.90	
42 cis-1,2-Dichloroethene	96	8.990	8.990	0.000	97	157665	2.00	2.03	
43 Ethyl acetate	43	9.173	9.173	0.000	98	213072	2.00	2.03	
44 Chloroform	83	9.345	9.345	0.000	98	364351	2.00	2.07	
45 Tert-butyl ethyl ether	59	9.421	9.421	0.000	95	387690	2.00	1.97	
46 Tetrahydrofuran	42	9.765	9.765	0.000	92	116147	2.00	2.07	
47 1,1,1-Trichloroethane	97	10.384	10.384	0.000	97	454122	2.00	2.23	
48 1,2-Dichloroethane	62	10.497	10.497	0.000	98	284013	2.00	2.16	
49 n-Butanol	31	10.905	10.905	0.000	85	39898	2.00	2.18	
51 Benzene	78	10.975	10.975	0.000	95	383482	2.00	1.83	
50 Cyclohexane	69	10.975	10.975	0.000	79	73208	2.00	2.08	
52 Carbon tetrachloride	117	10.997	10.997	0.000	97	497084	2.00	2.23	
53 2,3-Dimethylpentane	71	11.083	11.083	0.000	89	87368	2.00	1.81	
54 Thiophene	84	11.244	11.244	0.000	96	230557	2.00	1.92	
55 Tert-amyl methyl ether	73	11.427	11.427	0.000	94	276385	2.00	1.62	
56 Isooctane	57	11.707	11.707	0.000	98	790047	2.00	2.00	
57 n-Heptane	71	12.073	12.073	0.000	92	125656	2.00	1.81	
58 1,2-Dichloropropane	63	12.170	12.170	0.000	85	148102	2.00	1.75	
59 Trichloroethene	130	12.202	12.202	0.000	92	186073	2.00	1.76	
60 Dibromomethane	93	12.288	12.288	0.000	91	184772	2.00	1.97	
62 Dichlorobromomethane	83	12.428	12.428	0.000	99	321540	2.00	1.88	
61 1,4-Dioxane	88	12.444	12.444	0.000	92	39220	2.00	1.57	
63 Methyl methacrylate	41	12.508	12.508	0.000	93	119257	2.00	1.84	
64 Methylcyclohexane	83	12.960	12.960	0.000	88	244398	2.00	1.52	
65 4-Methyl-2-pentanone (MIBK)	43	13.348	13.348	0.000	98	240998	2.00	1.70	
66 cis-1,3-Dichloropropene	75	13.407	13.407	0.000	99	199845	2.00	1.81	
67 trans-1,3-Dichloropropene	75	14.095	14.095	0.000	97	162627	2.00	1.79	
68 Toluene	91	14.225	14.225	0.000	92	361159	2.00	1.53	
69 1,1,2-Trichloroethane	83	14.294	14.294	0.000	95	106071	2.00	1.55	
70 2-Methylthiophene	97	14.375	14.375	0.000	98	315308	2.00	1.60	
71 3-Methylthiophene	97	14.574	14.574	0.000	99	312033	2.00	1.65	
72 2-Hexanone	58	14.666	14.666	0.000	93	109775	2.00	1.60	
73 n-Octane	85	14.886	14.886	0.000	93	124574	2.00	1.61	
74 Chlorodibromomethane	129	14.999	14.999	0.000	98	270946	2.00	1.65	
75 Ethylene Dibromide	107	15.290	15.290	0.000	98	196360	2.00	1.57	
76 Tetrachloroethene	129	15.354	15.354	0.000	91	172065	2.00	1.55	
77 2,3-Dimethylheptane	43	16.226	16.226	0.000	93	422269	2.00	1.92	
78 Chlorobenzene	112	16.226	16.226	0.000	88	277554	2.00	1.56	
79 Ethylbenzene	91	16.505	16.505	0.000	99	422967	2.00	1.57	
80 2-Ethylthiophene	97	16.608	16.608	0.000	99	319669	2.00	1.57	
81 m-Xylene & p-Xylene	91	16.667	16.667	0.000	99	665639	4.00	3.18	
82 n-Nonane	57	17.065	17.065	0.000	92	285703	2.00	1.85	
84 Styrene	104	17.129	17.129	0.000	98	210655	2.00	1.64	
83 Bromoform	173	17.129	17.129	0.000	93	198024	2.00	1.61	

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	17.189	17.189	0.000	98	347396	2.00	1.55	
86 1,1,2,2-Tetrachloroethane	83	17.511	17.511	0.000	97	221653	2.00	1.55	
87 1,2,3-Trichloropropane	110	17.673	17.673	0.000	96	63941	2.00	1.58	
88 Isopropylbenzene	105	17.770	17.770	0.000	98	456052	2.00	1.61	
89 N-Propylbenzene	120	18.286	18.286	0.000	98	110329	2.00	1.56	
90 2-Chlorotoluene	126	18.340	18.340	0.000	97	117005	2.00	1.56	
91 4-Ethyltoluene	105	18.431	18.431	0.000	98	375318	2.00	1.56	
92 1,3,5-Trimethylbenzene	120	18.501	18.501	0.000	91	192670	2.00	1.51	
93 Alpha Methyl Styrene	118	18.727	18.727	0.000	85	135766	2.00	1.54	
94 n-Decane	57	18.765	18.765	0.000	89	285483	2.00	1.80	
95 tert-Butylbenzene	119	18.915	18.915	0.000	88	395621	2.00	1.56	
96 1,2,4-Trimethylbenzene	105	18.926	18.926	0.000	96	352917	2.00	1.64	
97 sec-Butylbenzene	105	19.179	19.179	0.000	97	511504	2.00	1.63	
98 1,3-Dichlorobenzene	146	19.201	19.201	0.000	97	164776	2.00	1.50	
99 Benzyl chloride	91	19.270	19.270	0.000	97	177702	2.00	1.65	
100 1,4-Dichlorobenzene	146	19.287	19.287	0.000	90	141148	2.00	1.50	
101 4-Isopropyltoluene	119	19.335	19.335	0.000	96	404643	2.00	1.57	
102 1,2,3-Trimethylbenzene	105	19.389	19.389	0.000	99	284559	2.00	1.66	
103 Butylcyclohexane	83	19.437	19.437	0.000	85	287730	2.00	1.54	
105 1,2-Dichlorobenzene	146	19.636	19.636	0.000	77	167870	2.00	1.50	
104 2,3-Dihydroindene	117	19.636	19.636	0.000	92	260754	2.00	1.45	
106 n-Butylbenzene	91	19.760	19.760	0.000	97	336574	2.00	1.69	
107 Indene	116	19.765	19.765	0.000	94	202758	2.00	1.96	
108 Undecane	57	20.050	20.050	0.000	94	252870	2.00	1.68	
109 1,2-Dimethyl-4-Ethylbenzen	119	20.120	20.120	0.000	97	310413	2.00	1.85	
110 1,2-Dibromo-3-Chloropropan	157	20.228	20.228	0.000	86	32596	2.00	0.8859	
111 1,2,4,5-Tetramethylbenzene	119	20.508	20.508	0.000	96	322596	2.00	1.57	
112 1,2,3,5-Tetramethylbenzene	119	20.562	20.562	0.000	93	208255	2.00	1.57	
113 1,2,3,4-Tetramethylbenzene	119	20.981	20.981	0.000	96	240208	2.00	1.47	
114 Dodecane	57	21.126	21.126	0.000	93	230750	2.00	1.72	
115 1,2,4-Trichlorobenzene	180	21.358	21.358	0.000	93	45663	2.00	1.54	
116 Naphthalene	128	21.503	21.503	0.000	98	116615	2.00	1.48	
117 Benzo(b)thiophene	134	21.600	21.600	0.000	99	47739	2.00	1.73	
118 Hexachlorobutadiene	225	21.680	21.680	0.000	96	156762	2.00	1.33	
119 1,2,3-Trichlorobenzene	180	21.745	21.745	0.000	95	50239	2.00	1.54	
120 2-Methylnaphthalene	142	22.288	22.288	0.000	99	25169	6.25	4.90	
121 1-Methylnaphthalene	142	22.412	22.412	0.000	98	24180	6.25	4.48	
A 124 Toluene Range	1	14.225	(14.195-14.255)		0	907009	2.00	1.73	
A 125 C8 Range	1	14.893	(14.848-14.938)		0	1326355	2.00	1.92	
S 126 Xylenes, Total	100				0		6.00	4.73	
S 127 1,2-Dichloroethene, Total	1				0		4.00	4.00	

Reagents:

40CV101S_00017

Amount Added: 100.00

Units: mL

40MXISSURP_00001

Amount Added: 40.00

Units: mL

Run Reagent

TestAmerica Laboratories

Data File: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\JCCVI22-LCS.d

Injection Date: 22-Sep-2016 11:33:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: LCS

Worklist Smp#: 1002

Client ID:

Purge Vol: 500.000 mL

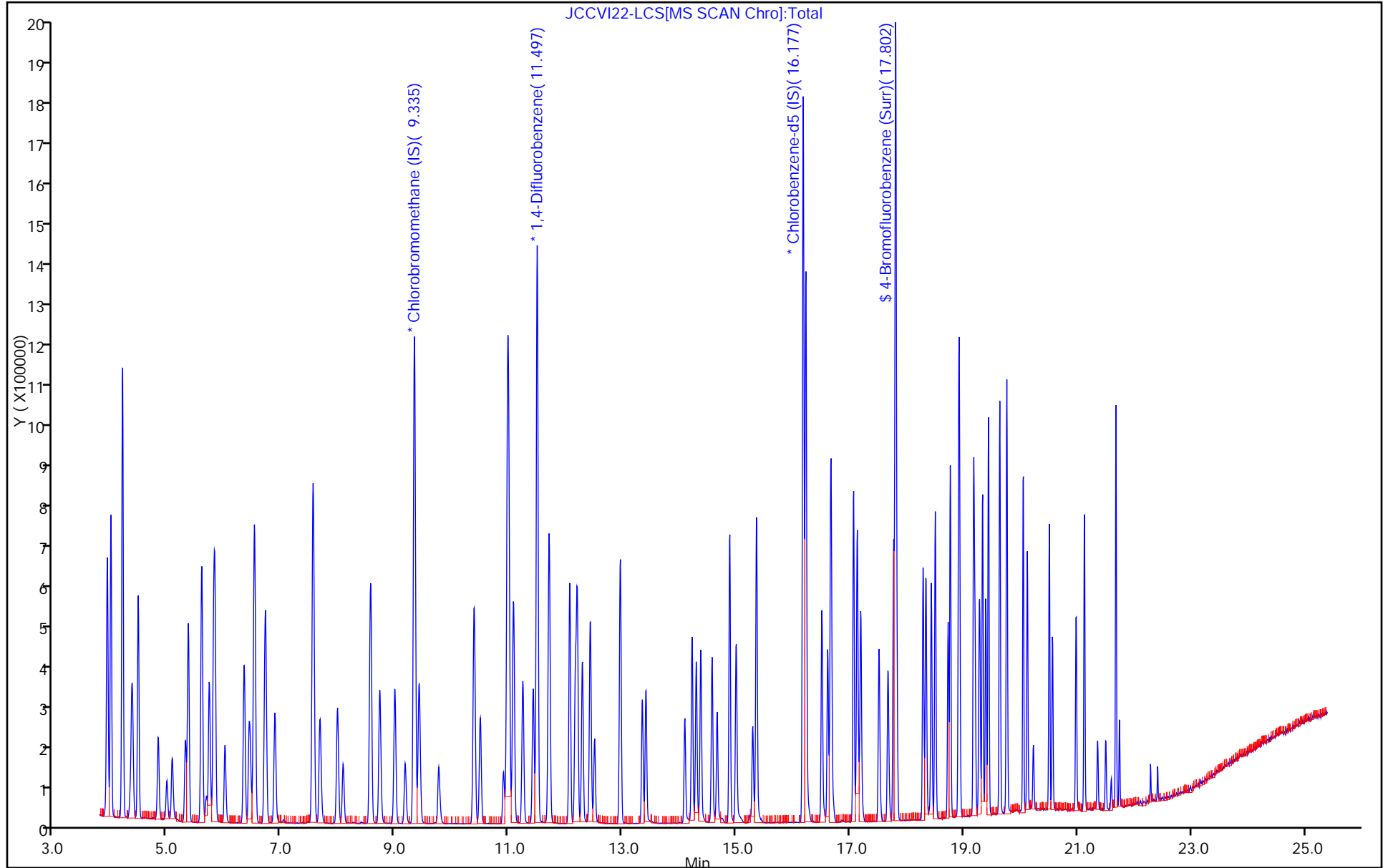
Dil. Factor: 1.0000

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\20160920-3446.b\JCCVI22-LCS.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 22-Sep-2016 11:33:30 ALS Bottle#: 15 Worklist Smp#: 1002
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003446-002
 Misc. Info.: S17
 Operator ID: 007126 Instrument ID: MJ
 Method: \\ChromNA\Knoxville\ChromData\MJ\20160920-3446.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Sep-2016 10:21:18 Calib Date: 22-Jun-2016 23:00:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MJ\20160622-3070.b\JF22IC09.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: tajh Date: 23-Sep-2016 10:21:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 4-Bromofluorobenzene (Surr)	4.00	4.61	115.28

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1

SDG No.: _____

Instrument ID: MJ Start Date: 06/22/2016 15:21

Analysis Batch Number: 5523 End Date: 06/23/2016 09:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-5523/1		06/22/2016 15:21	1	JBFBF22Z.D	RTX-5 0.32 (mm)
IC 140-5523/2		06/22/2016 15:49	1	JF22IC01.D	RTX-5 0.32 (mm)
IC 140-5523/3		06/22/2016 16:44	1	JF22IC02.D	RTX-5 0.32 (mm)
IC 140-5523/4		06/22/2016 17:38	1	JF22IC03.D	RTX-5 0.32 (mm)
IC 140-5523/5		06/22/2016 18:32	1	JF22IC04.D	RTX-5 0.32 (mm)
IC 140-5523/6		06/22/2016 19:26	1	JF22IC05.D	RTX-5 0.32 (mm)
ICIS 140-5523/7		06/22/2016 20:20	1	JF22IC06.D	RTX-5 0.32 (mm)
IC 140-5523/8		06/22/2016 21:14	1	JF22IC07.D	RTX-5 0.32 (mm)
IC 140-5523/9		06/22/2016 22:07	1	JF22IC08.D	RTX-5 0.32 (mm)
IC 140-5523/10		06/22/2016 23:00	1	JF22IC09.D	RTX-5 0.32 (mm)
ICV 140-5523/17		06/23/2016 09:52	1	JF22ICVR.D	RTX-5 0.32 (mm)

160622

TA-Knoxville
TO-14 Autosampler Log

sample	Position/Volume	psia	Date	Time
BFB	16 - 100 mL	21.6	6/22/2016	3:21:41 PM
ICAL01	7 - 102 mL	33.5	6/22/2016	3:49:35 PM
ICAL02	7 - 201 mL	32.7	6/22/2016	4:44:18 PM
ICAL03	8 - 201 mL	33.6	6/22/2016	5:38:34 PM
ICAL04	9 - 201 mL	34.1	6/22/2016	6:32:36 PM
ICAL05	10 - 201 mL	33.9	6/22/2016	7:26:38 PM
ICAL06	11 - 201 mL	34.1	6/22/2016	8:20:39 PM
ICAL07	12 - 200 mL	32.1	6/22/2016	9:14:20 PM
ICAL08	13 - 200 mL	30.6	6/22/2016	10:07:38 PM
ICAL09	14 - 202 mL	33.7	6/22/2016	11:00:52 PM
PRIME	15 - 51 mL	31.4	6/22/2016	11:53:57 PM
ICV	15 - 100 mL	30.6	6/23/2016	12:47:06 AM
DNUFLUSH	16 - 100 mL	21.2	6/23/2016	1:35:22 AM
MB	16 - 500 mL	20.2	6/23/2016	2:04:58 AM
MDL	7 - 50 mL	32.1	6/23/2016	2:58:15 AM
LCS	5 - 100 mL	33.5	6/23/2016	9:06:17 AM
ICV	15 - 100 mL	29.7	6/23/2016	9:52:34 AM

ICAL MJ WL3070

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:	6/23/16	Instrument:	MJ	Chrom WL #:	3070	TALS Batch & Event #	TO14/15: 5523 642	AFCEE: 5522 / 641							
							DOD: 5520 / 639	OHIO: 5521 / 640							
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]						NA			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?						✓	DNU TPH as Hexane		✓						
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]						✓				NA ³³	✓	✓	✓	✓	
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. [Cntrl-C, details]						NA					NA				
21. Is the second source analysis within limits? [F8, icv]						✓					✓	✓	✓	✓	
22. Analyst/Date:						6/23/16				2nd Level Reviewer/Date: ARS 6/27/16					
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?						✓	✓	✓	✓	OK	✓	✓	✓	✓	
Analyst:						ARS				2nd Level Reviewer: [Signature]					
Date:						6/27/16				Date: 6/27/16					
Comments:						OK									
OR 48 124 TCB2, URB benzo(b) thiophene															
OR CS. 8W. 8/23/16 H															

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1

SDG No.: _____

Instrument ID: MG Start Date: 07/20/2016 14:02

Analysis Batch Number: 5925 End Date: 07/20/2016 21:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-5925/1		07/20/2016 14:02	1	GBFBG20.D	RTX-5 0.32 (mm)
IC 140-5925/2		07/20/2016 14:35	1	GG20ICL1.D	RTX-5 0.32 (mm)
IC 140-5925/3		07/20/2016 15:19	1	GG20ICL2.D	RTX-5 0.32 (mm)
IC 140-5925/4		07/20/2016 16:03	1	GG20ICL3.D	RTX-5 0.32 (mm)
IC 140-5925/5		07/20/2016 16:46	1	GG20ICL4.D	RTX-5 0.32 (mm)
IC 140-5925/6		07/20/2016 17:27	1	GG20ICL5.D	RTX-5 0.32 (mm)
ICIS 140-5925/7		07/20/2016 18:08	1	GG20ICL6.D	RTX-5 0.32 (mm)
IC 140-5925/8		07/20/2016 18:53	1	GG20ICL7.D	RTX-5 0.32 (mm)
IC 140-5925/9		07/20/2016 19:37	1	GG20ICL8.D	RTX-5 0.32 (mm)
IC 140-5925/10		07/20/2016 20:22	1	GG20ICL9.D	RTX-5 0.32 (mm)
ICV 140-5925/12		07/20/2016 21:45	1	GG20ICV.D	RTX-5 0.32 (mm)

160720.ZZZ

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	psia	Date	Time
BFB	16 - 101 mL ✓	29.6	7/20/2016	2:02:56 PM
ICAL01	7 - 101 mL ✓	26.3	7/20/2016	2:35:48 PM
ICAL02	7 - 201 mL ✓	25.6	7/20/2016	3:19:52 PM
ICAL03	8 - 201 mL ✓	25.8	7/20/2016	4:03:10 PM
ICAL04	9 - 201 mL ✓	26.7	7/20/2016	4:46:13 PM
ICAL05	10 - 201 mL ✓	24.9	7/20/2016	5:27:32 PM
ICAL06	11 - 201 mL ✓	24.6	7/20/2016	6:08:54 PM
ICAL07	12 - 201 mL ✓	23.7	7/20/2016	6:53:53 PM
ICAL08	13 - 201 mL ✓	16.8	7/20/2016	7:37:27 PM
ICAL09	14 - 201 mL ✓	24.5	7/20/2016	8:21:59 PM
PRIME	15 - 21 mL ✓	18.8	7/20/2016	9:03:35 PM
ICV	15 - 101 mL ✓	18.1	7/20/2016	9:45:39 PM
DNU	16 - 20 mL ✓	29.5	7/20/2016	10:28:55 PM
mb500	16 - 501 mL ✓	27.2	7/20/2016	11:05:30 PM
MDL	7 - 51 mL ✓	25.9	7/20/2016	11:47:23 PM
LCS	1 - 101 mL ✓	22.3	7/21/2016	12:29:37 AM
EXPSTD	2 - 51 mL ✓	13.4	7/21/2016	1:12:14 AM
EXPSTD	3 - 51 mL ✓	17	7/21/2016	1:53:56 AM
FLOW10896	4 - 500 mL ✓	16.4	7/21/2016	2:40:34 AM
CAN10273	5 - 500 mL ✓	18.4	7/21/2016	3:25:43 AM

MG ICAL WL3204

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:	7/20/16	Instrument:	MG	Chrom WL #:	3204	TALS Batch & Event #	TO14/15: 5925/ 721	AFCEE: 5924/ 720									
						DOD:	5922/ 718	OHIO: 5923/ 719									
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]						✓	(6) sec-butyl benz.		✓								
8. If manual integrations performed, are they properly performed, correct, baseline clearly identified, and correct reason given? [Chrom]						✓	(a) 1V1 #9 1,2,3,5 TMbz.		✓								
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						✓	1,2,3,5 TMbz - m 1V1 #9 (a)		✓								
• 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 Clp		✓								
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]						✓	✓	✓	✓	acetaldhyde 40 acetone 31%	✓	✓	✓	✓			
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]						✓	✓	✓	✓	acrolein @ 21 MEK @ 29 MIBK @ 38	✓	✓	✓	✓			
18. If curves were used, is correlation coefficient ≥ 0.990? [F6]						✓	✓	✓	✓		✓	✓	✓	✓			
19. Is the intercept less than the RL for each curve? [F6]						✓	✓	✓	✓		✓	✓	✓	✓			
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 - ic]						✓	✓	✓	✓		✓	✓	✓	✓			
22. Analyst/Date:						7/21/16				2nd Level Reviewer/Date:				7/22/16			
Comments:										APC 30.3% OK							
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:						7/22/16				2nd Level Reviewer:				7/22/16			
Comments:																	

UR 4D Acetaldehyde.
 UR 8 1M TMBZ.
 8 sec-butyl benzene (5)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1

SDG No.: _____

Instrument ID: MG Start Date: 09/21/2016 12:42

Analysis Batch Number: 6625 End Date: 09/22/2016 03:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-6625/1		09/21/2016 12:42	1	GBFBI21.D	RTX-5 0.32 (mm)
CCVIS 140-6625/2		09/21/2016 13:15	1	GCCVI21.D	RTX-5 0.32 (mm)
LCS 140-6625/1002		09/21/2016 13:15	1	GCCVI21-LCS.d	RTX-5 0.32 (mm)
MB 140-6625/4		09/21/2016 15:19	1	GMB500I21.D	RTX-5 0.32 (mm)
140-5852-8		09/21/2016 16:01	1	GI21P101.D	RTX-5 0.32 (mm)
140-5852-1		09/21/2016 16:46	1	GI21P102.D	RTX-5 0.32 (mm)
140-5852-2		09/21/2016 17:32	1	GI21P103.D	RTX-5 0.32 (mm)
140-5852-3		09/21/2016 18:15	1	GI21P104.D	RTX-5 0.32 (mm)
140-5852-4		09/21/2016 19:01	1	GI21P105.D	RTX-5 0.32 (mm)
140-5852-5		09/21/2016 19:50	1.46	GI21P106.D	RTX-5 0.32 (mm)
140-5852-6		09/21/2016 20:35	1	GI21P107.D	RTX-5 0.32 (mm)
140-5852-7		09/21/2016 21:24	1	GI21P108.D	RTX-5 0.32 (mm)
140-5852-9		09/21/2016 22:16	1	GI21P109.D	RTX-5 0.32 (mm)
ZZZZZ		09/21/2016 23:00	4.26		RTX-5 0.32 (mm)
140-5852-11		09/21/2016 23:52	1	GI21P111.D	RTX-5 0.32 (mm)
140-5852-12		09/22/2016 00:42	1	GI21P112.D	RTX-5 0.32 (mm)
140-5852-13		09/22/2016 01:31	1	GI21P113.D	RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 02:21	1		RTX-5 0.32 (mm)
140-5852-14		09/22/2016 03:11	1	GI21P114.D	RTX-5 0.32 (mm)

160921.zzz

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	psia	Date	Time
BFB	16 - 101 mL	29.9	9/21/2016	12:42:18 PM
CCV	15 - 101 mL	14.8	9/21/2016	1:15:09 PM
DNULEAK	16 - 21 mL	30	9/21/2016	2:43:36 PM
BLANK	16 - 500 mL	23.8	9/21/2016	3:19:38 PM
5852-08	1 - 100 mL	5.7	9/21/2016	4:01:02 PM
5852-01	2 - 500 mL	1.5	9/21/2016	4:46:24 PM
5852-02	3 - 501 mL	1	9/21/2016	5:32:44 PM
5852-03	4 - 10 mL	8.7	9/21/2016	6:15:08 PM
5852-04	5 - 501 mL	5.2	9/21/2016	7:01:18 PM
5852-05	6 - 730 mL	7.2	9/21/2016	7:50:31 PM
5852-06	7 - 101 mL	4.7	9/21/2016	8:35:26 PM
5852-07	8 - 501 mL	7	9/21/2016	9:24:21 PM
5852-09	9 - 500 mL	.8	9/21/2016	10:16:36 PM
5852-10	10 - 11 mL	13.1	9/21/2016	11:00:48 PM
5852-11	11 - 500 mL	.6	9/21/2016	11:52:58 PM
5852-12	12 - 501 mL	2.1	9/22/2016	12:42:30 AM
5852-13	13 - 500 mL	8.6	9/22/2016	1:31:19 AM
5852-13	13 - 500 mL	1.3	9/22/2016	2:21:18 AM
5852-14	14 - 502 mL	4.8	9/22/2016	3:11:15 AM
DNULEAK	16 - 22 mL	29.4	9/22/2016	11:03:16 AM

MG WL 3444

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>MG 9/21/16</u>	Routine	AFCEE	DOD	OHIO
CCAL Chrom WL #	<u>3444</u>	CCAL Batch #	<u>6625</u>		
ICAL Chrom WL #	<u>389</u>	ICAL Batch # / Event #	<u>5925 / 721</u>	/	/
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]			/	<u>MIBK DCDFM TCFM SIP</u>	/
4. Is the %D ≤ 30% for all target analytes? <u>Ethanol</u> [≤ 40% for AFCEE non-table analytes] [≤ 50% for 1&2 methylnaphthalene] [Chrom-F8] [TALS-Sample Results Tab] <u>IPA 47.</u>			/	<input type="checkbox"/> CCV - %D - LCS criteria met (NCM# <u>SIP</u>) <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: <u>[Signature]</u> Date: <u>9/21/16</u>			2nd Level Reviewer: <u>[Signature]</u>	Date: <u>09/23/16</u>	
Comments:			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:			/	<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:			/	<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					
17. RIC inspected for proper integration for TPH?			/		/
18. Obvious non-TPH peaks excluded?			/		/

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1

SDG No.: _____

Instrument ID: MJ Start Date: 09/22/2016 11:06

Analysis Batch Number: 6632 End Date: 09/23/2016 09:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 140-6632/1		09/22/2016 11:06	1	JBFBI22.D	RTX-5 0.32 (mm)
CCVIS 140-6632/2		09/22/2016 11:33	1	JCCVI22.D	RTX-5 0.32 (mm)
LCS 140-6632/1002		09/22/2016 11:33	1	JCCVI22-LCS.d	RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 13:50	1		RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 14:45	1		RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 15:32	1		RTX-5 0.32 (mm)
MB 140-6632/17		09/22/2016 15:32	1	LOT5871MB.D	RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 16:44	1		RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 18:32	1		RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 19:26	1		RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 20:19	1		RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 21:14	1		RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 22:08	1		RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 23:01	1		RTX-5 0.32 (mm)
ZZZZZ		09/22/2016 23:56	1		RTX-5 0.32 (mm)
ZZZZZ		09/23/2016 00:50	697.96		RTX-5 0.32 (mm)
ZZZZZ		09/23/2016 01:44	1.49		RTX-5 0.32 (mm)
140-5852-10		09/23/2016 02:39	4.26	JI22P112.D	RTX-5 0.32 (mm)
140-5852-3 DL		09/23/2016 03:32	3.32	JI22P113.D	RTX-5 0.32 (mm)
140-5852-5 DL		09/23/2016 04:27	1.46	JI22P114.D	RTX-5 0.32 (mm)
140-5852-9 DL		09/23/2016 05:21	1	JI22P115.D	RTX-5 0.32 (mm)
140-5852-11 DL		09/23/2016 06:15	1	JI22P201.D	RTX-5 0.32 (mm)
140-5852-12 DL		09/23/2016 07:10	1	JI22P202.D	RTX-5 0.32 (mm)
ZZZZZ		09/23/2016 09:47	1		RTX-5 0.32 (mm)

160922

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	psia	Date	Time
BFB	16 - 101 mL	32	9/22/2016	11:06:00 AM
CCV	15 - 100 mL	14.3	9/22/2016	11:33:28 AM
dnuflush	16 - 101 mL	33.4	9/22/2016	1:23:59 PM
LOT5872	1 - 201 mL	5	9/22/2016	1:50:40 PM
LOT5870	2 - 501 mL	16.3	9/22/2016	2:45:12 PM
LOT5871	3 - 502 mL	19.3	9/22/2016	3:32:06 PM
dnuflush	16 - 101 mL	30.4	9/22/2016	4:16:49 PM
POS	16 - 201 mL	33.3	9/22/2016	4:44:44 PM
POS	1 - 201 mL	19.6	9/22/2016	5:38:01 PM
5855-01	4 - 21 mL	1.7	9/22/2016	6:32:42 PM
5855-02	5 - 51 mL	1.6	9/22/2016	7:26:02 PM
5855-03	6 - 51 mL	2.4	9/22/2016	8:19:38 PM
5855-04	7 - 51 mL	1.5	9/22/2016	9:14:06 PM
5855-05	8 - 50 mL	1.5	9/22/2016	10:08:12 PM
5855-06	9 - 50 mL	1.4	9/22/2016	11:01:43 PM
5855-06	9 - 50 mL	1.7	9/22/2016	11:56:35 PM
5858-01	10 - 400 mL	2.2	9/23/2016	12:50:29 AM
5874-01	11 - 152 mL	4.7	9/23/2016	1:44:39 AM
5852-10	12 - 40 mL	9.8	9/23/2016	2:39:13 AM
5852-03	13 - 11 mL	12.5	9/23/2016	3:32:39 AM
5852-05	14 - 81 mL	2	9/23/2016	4:27:28 AM
5852-09	15 - 100 mL	1.5	9/23/2016	5:20:59 AM
5852-11	2 - 50 mL	1.7	9/23/2016	6:15:49 AM
5852-12	3 - 51 mL	1.8	9/23/2016	7:10:54 AM
POS	16 - 501 mL	30.9	9/23/2016	8:04:19 AM
5855-03	6 - 22 mL	3.9	9/23/2016	9:47:39 AM

MJ WL 3446

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	MJ 9/22/16	Routine	AFCEE	DOD	OHIO
CCAL Chrom WL #	3446	CCAL Batch #	6632		
ICAL Chrom WL #	3090	ICAL Batch # / Event #	3523 / 642	/	/
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 methyl naphthalene] [Chrom-F8] [TALS-Sample Results Tab]	Chloro methane Benzene Hexane	/	<input checked="" type="checkbox"/> CCV - %D - LCS criteria met (NCM# 518) <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:		Date: 9/23/16	2nd Level Reviewer: [Signature]	Date: 9/23/16	
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:		/	<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:		/	<input type="checkbox"/> (1) Reporting Limit - Dilution, Matrix (NCM# _____) <input checked="" type="checkbox"/> (2) Reporting Limit - Dilution, Non-Target (NCM# 518) <input type="checkbox"/> (3) Issues with initial collection volume; see DRC.		/
Sample Reason Sample Reason					
5852-10 - Chlor					
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?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>														
TALS Review	1 st	If No, why is data reportable?	2 nd														
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			<input checked="" type="checkbox"/>
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: <u>17</u> 200 mL blank ID: <u>18</u>	<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: <u>[Signature]</u>	Date: <u>9/23/16</u>	2nd Level Reviewer: <u>[Signature]</u>	Date: <u>9/23/16</u>
Comments:	Comments:		
<p><u>all acc. NCM 58904</u> <u>5855-2, 6 9/23/16#</u></p>			
<p>Example Calculation: <u>5858.1 TLE</u></p> <p>On-column ppbv x Final Vol (mL)/Entech Initial Vol (mL) x Canister Dilution Log DF</p> <p><u>3.3929 x 400mL x 647.76 = 2960.14</u></p>			

Summa Canister Dilution Worksheet

Client: New York State D.E.C.

Job No.: 140-5852-1

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
140-5852-3	6	-6.0	0.80	4.80	24.3	2.65	15.92		3.32	3.32	09/22/16	13:04	Barlozhetskaya, Anna F
140-5852-5	6	-7.4	0.75	4.52	1.4	1.10	6.57		1.46	1.46	09/20/16	13:14	Barlozhetskaya, Anna F
140-5852-10	6	-6.3	0.79	4.74	34.7	3.36	20.16		4.26	4.26	09/21/16	10:13	Barlozhetskaya, Anna F

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.: 140-5634-1
 SDG No.: _____
 Client Sample ID: 10171 Lab Sample ID: 140-5634-7
 Matrix: Air Lab File ID: LOT5634.D
 Analysis Method: TO 15 LL Date Collected: 08/18/2016 10:15
 Sample wt/vol: 500(mL) Date Analyzed: 08/19/2016 14:07
 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.: 6292 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.: 140-5634-1
 SDG No.: _____
 Client Sample ID: 10171 Lab Sample ID: 140-5634-7
 Matrix: Air Lab File ID: LOT5634.D
 Analysis Method: TO 15 LL Date Collected: 08/18/2016 10:15
 Sample wt/vol: 500(mL) Date Analyzed: 08/19/2016 14:07
 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.: 6292 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.: 140-5634-1
 SDG No.: _____
 Client Sample ID: 10171 Lab Sample ID: 140-5634-7
 Matrix: Air Lab File ID: LOT5634.D
 Analysis Method: TO 15 LL Date Collected: 08/18/2016 10:15
 Sample wt/vol: 500(mL) Date Analyzed: 08/19/2016 14:07
 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.: 6292 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.: 140-5634-1
 SDG No.: _____
 Client Sample ID: 10171 Lab Sample ID: 140-5634-7
 Matrix: Air Lab File ID: LOT5634.D
 Analysis Method: TO 15 LL Date Collected: 08/18/2016 10:15
 Sample wt/vol: 500 (mL) Date Analyzed: 08/19/2016 14:07
 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.: 6292 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\MG\20160815-3311.b\LOT5634.D
 Lims ID: 140-5634-A-7
 Client ID: 10171
 Sample Type: Client
 Inject. Date: 19-Aug-2016 14:07:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003311-004
 Misc. Info.: 10171
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160815-3311.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 19-Aug-2016 14:49:33 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: tajh Date: 19-Aug-2016 14:49:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.471	8.476	-0.005	97	308897	4.00	
* 2 1,4-Difluorobenzene	114	10.633	10.644	-0.011	96	1294840	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.416	15.416	0.000	90	1280364	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.071	17.071	0.000	93	828689	3.71	
31 Methylene Chloride	84	6.060	6.071	-0.011	96	4615	0.0614	
51 n-Butanol	31	10.126	10.072	0.054	90	1972	0.0515	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160815-3311.b\LOT5634.D

Injection Date: 19-Aug-2016 14:07:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5634-A-7

Lab Sample ID: 140-5634-7

Worklist Smp#: 4

Client ID: 10171

Purge Vol: 500.000 mL

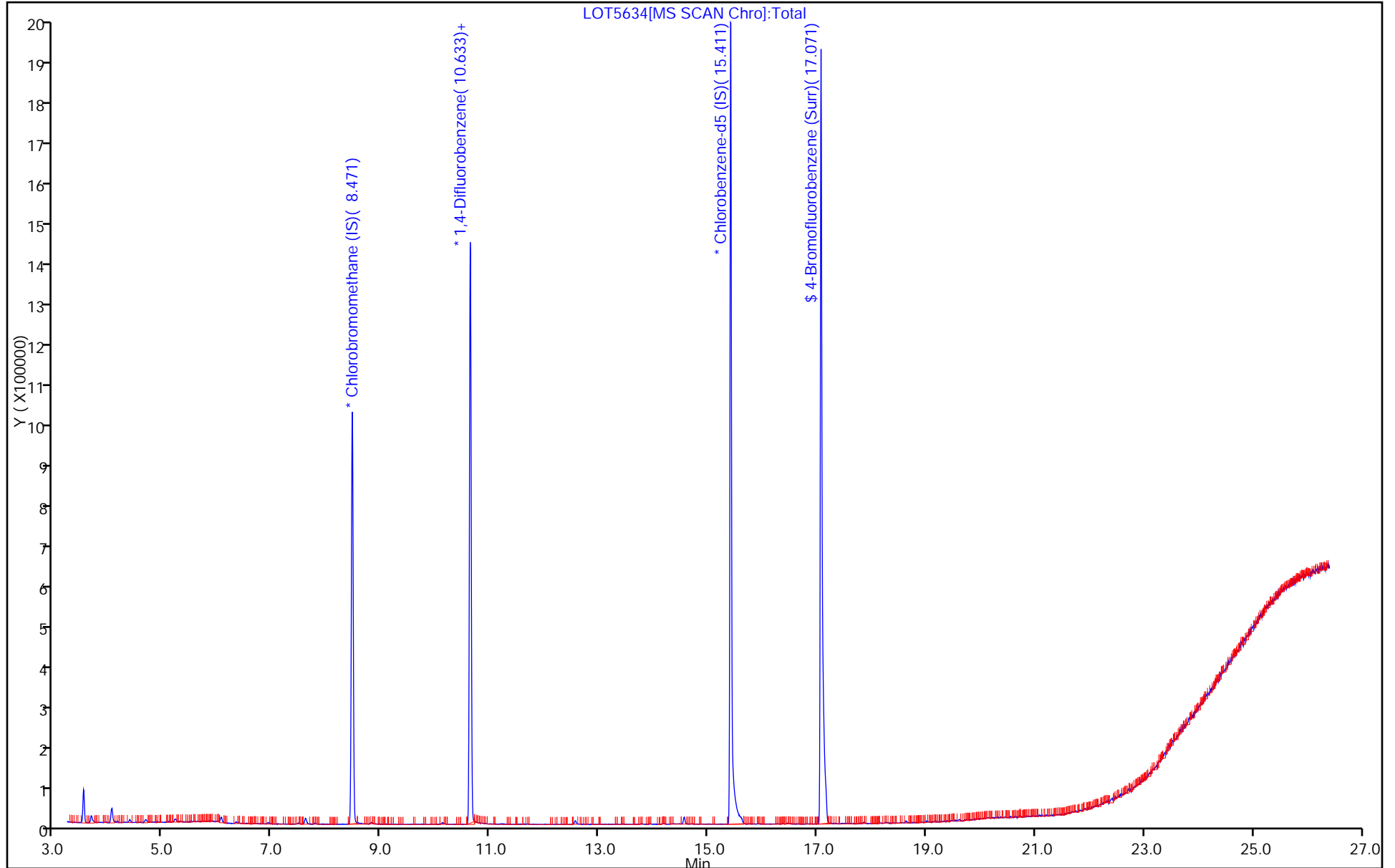
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



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

Lab Name: TestAmerica Knoxville Job No.: 140-5647-1
 SDG No.: _____
 Client Sample ID: 11207 Lab Sample ID: 140-5647-5
 Matrix: Air Lab File ID: LOT5647.D
 Analysis Method: TO 15 LL Date Collected: 08/19/2016 11:40
 Sample wt/vol: 500(mL) Date Analyzed: 08/22/2016 13:17
 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.: 6336 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.: 140-5647-1
 SDG No.: _____
 Client Sample ID: 11207 Lab Sample ID: 140-5647-5
 Matrix: Air Lab File ID: LOT5647.D
 Analysis Method: TO 15 LL Date Collected: 08/19/2016 11:40
 Sample wt/vol: 500(mL) Date Analyzed: 08/22/2016 13:17
 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.: 6336 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.: 140-5647-1
 SDG No.: _____
 Client Sample ID: 11207 Lab Sample ID: 140-5647-5
 Matrix: Air Lab File ID: LOT5647.D
 Analysis Method: TO 15 LL Date Collected: 08/19/2016 11:40
 Sample wt/vol: 500(mL) Date Analyzed: 08/22/2016 13:17
 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.: 6336 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.: 140-5647-1
 SDG No.: _____
 Client Sample ID: 11207 Lab Sample ID: 140-5647-5
 Matrix: Air Lab File ID: LOT5647.D
 Analysis Method: TO 15 LL Date Collected: 08/19/2016 11:40
 Sample wt/vol: 500 (mL) Date Analyzed: 08/22/2016 13:17
 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.: 6336 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\MG\20160819-3325.b\LOT5647.D
 Lims ID: 140-5647-A-5
 Client ID: 11207
 Sample Type: Client
 Inject. Date: 22-Aug-2016 13:17:30 ALS Bottle#: 16 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003225-004
 Misc. Info.: 11207
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160819-3325.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Aug-2016 15:02:21 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: tajh Date: 22-Aug-2016 13:50:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.481	8.476	0.005	97	341265	4.00	
* 2 1,4-Difluorobenzene	114	10.644	10.638	0.006	96	1621433	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.416	15.416	0.000	90	1528169	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.071	17.071	0.000	95	997827	3.74	
31 Methylene Chloride	84	6.082	6.066	0.016	97	5352	0.0644	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160819-3325.b\LOT5647.D

Injection Date: 22-Aug-2016 13:17:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5647-A-5

Lab Sample ID: 140-5647-5

Worklist Smp#: 4

Client ID: 11207

Purge Vol: 500.000 mL

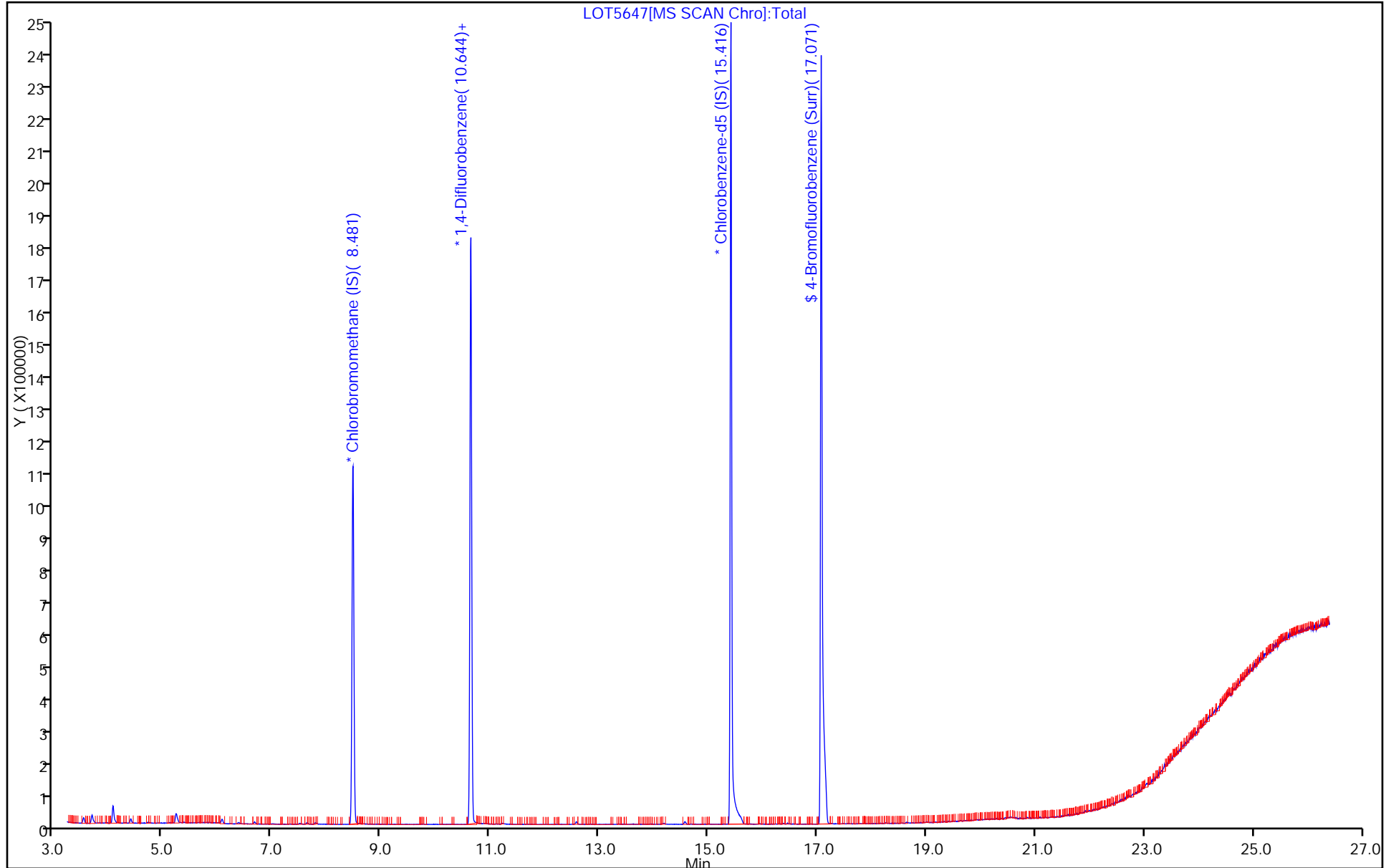
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



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

Lab Name: TestAmerica Knoxville Job No.: 140-5654-1
 SDG No.: _____
 Client Sample ID: 09979 Lab Sample ID: 140-5654-11
 Matrix: Air Lab File ID: LOT5654.D
 Analysis Method: TO 15 LL Date Collected: 08/21/2016 10:10
 Sample wt/vol: 500(mL) Date Analyzed: 08/22/2016 14:06
 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.: 6336 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.: 140-5654-1
 SDG No.: _____
 Client Sample ID: 09979 Lab Sample ID: 140-5654-11
 Matrix: Air Lab File ID: LOT5654.D
 Analysis Method: TO 15 LL Date Collected: 08/21/2016 10:10
 Sample wt/vol: 500(mL) Date Analyzed: 08/22/2016 14:06
 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.: 6336 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.: 140-5654-1
 SDG No.: _____
 Client Sample ID: 09979 Lab Sample ID: 140-5654-11
 Matrix: Air Lab File ID: LOT5654.D
 Analysis Method: TO 15 LL Date Collected: 08/21/2016 10:10
 Sample wt/vol: 500(mL) Date Analyzed: 08/22/2016 14:06
 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.: 6336 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-Methyl-naphthalene	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-Methyl-naphthalene	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.: 140-5654-1
 SDG No.: _____
 Client Sample ID: 09979 Lab Sample ID: 140-5654-11
 Matrix: Air Lab File ID: LOT5654.D
 Analysis Method: TO 15 LL Date Collected: 08/21/2016 10:10
 Sample wt/vol: 500 (mL) Date Analyzed: 08/22/2016 14:06
 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.: 6336 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\MG\20160819-3325.b\LOT5654.D
 Lims ID: 140-5654-A-11
 Client ID: 09979
 Sample Type: Client
 Inject. Date: 22-Aug-2016 14:06:30 ALS Bottle#: 16 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0003225-005
 Misc. Info.: 09979
 Operator ID: 7126 Instrument ID: MG
 Method: \\ChromNA\Knoxville\ChromData\MG\20160819-3325.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 22-Aug-2016 15:02:21 Calib Date: 20-Jul-2016 20:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Knoxville\ChromData\MG\20160719-3204.b\GG20ICL9.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK021

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.465	8.476	-0.011	97	326474	4.00	
* 2 1,4-Difluorobenzene	114	10.633	10.638	-0.005	96	1293074	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.411	15.416	-0.005	90	1228846	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.071	17.071	0.000	95	781812	3.64	
31 Methylene Chloride	84	6.060	6.066	-0.006	95	5599	0.0705	

Reagents:

40MXISSURP_00001 Amount Added: 40.00 Units: mL Run Reagent

TestAmerica Knoxville

Data File: \\ChromNA\Knoxville\ChromData\MG\20160819-3325.b\LOT5654.D

Injection Date: 22-Aug-2016 14:06:30

Instrument ID: MG

Operator ID: 7126

Lims ID: 140-5654-A-11

Lab Sample ID: 140-5654-11

Worklist Smp#: 5

Client ID: 09979

Purge Vol: 500.000 mL

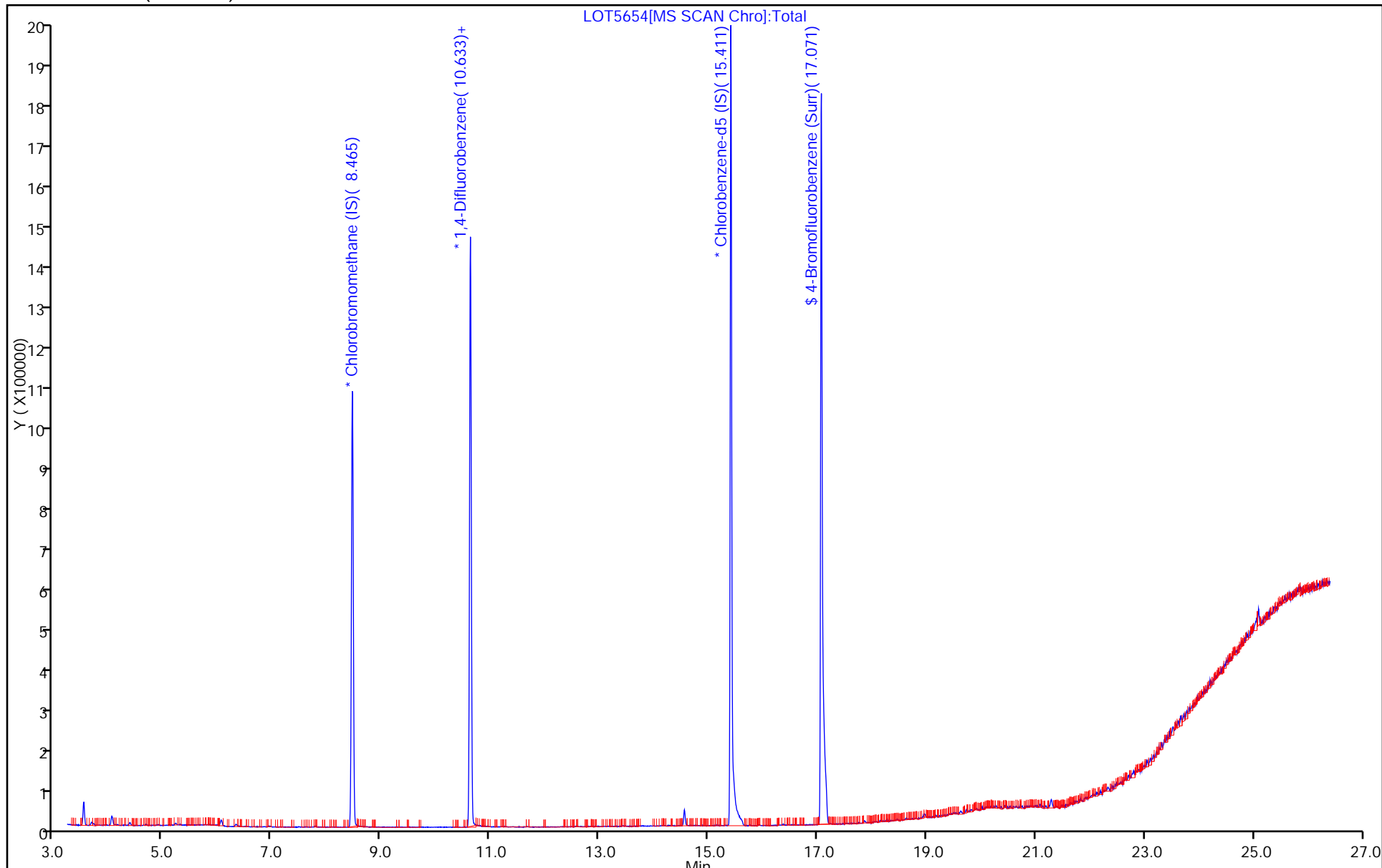
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



Shipping and Receiving Documents

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information Company: ENVIROTRAK, LTD Address: 5 OLD DICK RD City/State/Zip: WASHINGTON NY Phone: 631-994-3001 NY FAX: 631-994-3001 Project Name: 231008-1ST+40TH Site/location: Manhattan, NY PO #		Project Manager: JEFF BOHLEN Phone: 631-994-3001 Site Contact: DAVE HARRINGTON TAL Contact: JAMIE MCKINNEY		Sampled By: TRACY WALL WALA CANARIO		2 of 3 COCs																																			
Analysis Turnaround Time Standard (Specify) X Rush (Specify)		Sample Identification VP-104 VP-102 VP-100 VP-113 VP-119 VP-110		Sample Date(s) 9/15/16 ↓ ↓ ↓		Time Start 		Time Stop 		Canister Vacuum in Field, "Hg (Start) 		Canister Vacuum in Field, "Hg (Stop) 		Flow Controller ID 153 10853 10196 10467 09916 10021		Canister ID 09679 10375 11029 16985 11225 09733		TO-15 X X X X X X		TO-14A 		EPA 3C 		EPA 25C 		ASTM D-1946 		Other (Please specify in notes section) 		Sample Type 		Indoor Air 		Ambient Air 		Soil Gas X X X X X X		Landfill Gas 		Other (Please specify in notes section) 	
Sampled by:		Temperature (Fahrenheit) Interior Ambient		Start 		Stop 		Pressure (inches of Hg) Interior Ambient		Start 		Stop 		Special Instructions/QC Requirements & Comments:																											
Canisters Shipped by:		Date/Time:		Canisters Received by:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:		Relinquished by:		Date/Time:																			
[Signature]		9/16/16 / 1100		[Signature]		9/16/16 / 14130		[Signature]		9/16/16		[Signature]		9/17/16		[Signature]		110		[Signature]		110																			

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Knoxville, TN 37921
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Canister Samples Chain of Custody Record

TestAmerica

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THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information Company: ENVIROTEL LTD. Address: 5 OLD DUCK RD. City/State/Zip: WOODBURY, NY Phone: 937-924-3001 FAX: 937-924-5001 Project Name: 231008-1st + 90th Site/location: Manhattan, NY PO #		Project Manager: JEFF BOHLEN Phone: 631-924-3001 Site Contact: DAVE HARRINGTON TAL Contact: JAMIE MCKINNEY		Sampled By: TRACY WALL WACH CANARIO		3 of 3 COCS													
Sample Identification VP-125 Ambient Air	Sample Date(s) 9/15/16 ↓	Time Start 	Time Stop 	Canister Vacuum in Field, "Hg (Start) 	Canister Vacuum in Field, "Hg (Stop) 	Flow Controller ID 11237 10657	Canister ID 10069 10990	TO-15 X X	TO-14A 	EPA 3C 	EPA 25C 	ASTM D-1946 	Other (Please specify in notes section) 	Sample Type 	Indoor Air 	Ambient Air X	Soil Gas X	Landfill Gas 	Other (Please specify in notes section)
	Analysis Turnaround Time Standard (Specify) X Rush (Specify)																		
Sampled by:																			
Temperature (Fahrenheit)																			
Interior Ambient																			
Start Stop																			
Pressure (inches of Hg)																			
Interior Ambient																			
Start Stop																			
Special Instructions/QC Requirements & Comments:																			
Canisters Shipped by:		Date/Time:		Canisters Received by:															
Samples Requisitioned by:		Date/Time: 9/16/16 / 11:00		Received by:															
Requisitioned by:		Date/Time: 9/16/16 / 14:25		Received by:															

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 Knoxville, TN 37921
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Canister Samples Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information Company: ENVIROTRAC LTD Address: 5 OLD BOOK RD. City/State/Zip: 00001, NY Phone: 631-984-3001 FAX: 631-984-3001 Project Name: 231008-1ST-90th Site/location: Manhattan, NY PO #		Project Manager: JEFF BOHLEN Phone: 631-984-3001 Site Contact: DAVE HARRINGTON TAL Contact: JAMIE MCKINNEY		Sampled By: TRACY WALL WILMA CANARIO		1 of 3 COCs	
Analysis Turnaround Time Standard (Specify) X Rush (Specify)		Sample Date(s) 9/15/16 ↓ ↓ ↓ ↓ ↓		Time Start 1420 1119 1133 1205 1215 1143		Time Stop 1510 1258 1242 1315 1321 1258	
Sample Identification VP-Blind Dup VP-127 VP-128 VP-129 VP-130 VP-126		Canister Vacuum in Field, "Hg (Start) -6 -30 -30 -30 -30 -30		Canister Vacuum in Field, "Hg (Stop) -1 -7 -9 -2 -9 -9		Flow Controller ID 0971210761 X 11289 10169 X 10984 10369 X 10024 10134 X 10054 10043 X 11245 10550 X	
Temperature (Fahrenheit) Interior Start Stop		Temperature (Fahrenheit) Ambient Start Stop		Pressure (inches of Hg) Interior Start Stop		Other (Please specify in notes section) ASTM D-1946 EPA 26C EPA 3C TO-14A TO-15	
Sampled by: Tracy Wall		Indoor Air <input type="checkbox"/>		Ambient Air <input type="checkbox"/>		Soil Gas <input checked="" type="checkbox"/>	
Special Instructions/QC Requirements & Comments: * The regulators for the blind duplicate + VP104 were faulty and retrieved a lot of vacuum before a sample could be taken. Regulator was switched out and sample was collected over 1 hr before a sample could be taken.		Canisters Shipped by: [Signature]		Canisters Received by: [Signature]		Other (Please specify in notes section) Landfill Gas <input type="checkbox"/>	
Date/Time: 9/16/16 1100		Date/Time: 9/16/16 1100		Date/Time: 9/16/16 1100		Date/Time: 9/16/16 1100	

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Canister Samples Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: <u>JEFF BOHLEN</u>		Sampled By: <u>TRACY WALL</u>		2 of 3 COCs														
Company: <u>ENVIROTRAC, LTD</u>		Phone: <u>631-994-3001</u>		WALA CANARIO																
Address: <u>5 OLD DICK RD</u>		Site Contact: <u>DAVE HARRINGTON</u>																		
City/State/Zip: <u>YONKONK, NY</u>		TAL Contact: <u>JAMIE MCKINNEY</u>																		
Phone: <u>631-994-3001</u>																				
FAX: <u>631-994-3001</u>																				
Project Name: <u>231008-1ST+90th</u>																				
Site/location: <u>MOONSHAN, NY</u>																				
PO #																				
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	
																				Analysis Turnaround Time Standard (Specify) <input checked="" type="checkbox"/>
VP-104	9/15/16	1420	1510	-6	-1	153	09679	X												
VP-102		1512	1622	-30	-6	10853	10375	X												
VP-100		1552	1701	-30	-9	10196	11099	X												
VP-113		1433	1542	-30	-7	10467	10905	X												
VP-118		1440	1553	-30	-8	09710	11225	X												
VP-110		1447	1557	-30	-5	10021	09133	X												
Sampled by: <u>Jaywan</u>																				
Start		Interior		Temperature (Fahrenheit)																
Stop		Interior		Ambient																
Start		Interior		Pressure (inches of Hg)																
Stop		Interior		Ambient																
Special Instructions/QC Requirements & Comments:																				
Canisters Shipped by:		Date/Time:		Canisters Received by:																
Samples Relinquished by: <u>Chloe</u>		Date/Time: <u>9/16/16/1100</u>		Received by: <u>[Signature]</u>																
Relinquished by:		Date/Time:		Received by:																

TAL Knoxville
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Knoxville, TN 37921

phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information Company: ENVIRO-TAL, LTD. Address: 5 OLD PARK RD. City/State/Zip: UPPON, NY Phone: 631-924-3001 FAX: 631-924-3001 Project Name: 231008-1ST + 904 Site/location: Manhattan, NY PO #		Project Manager: JEFF BOHLEN Phone: 631-924-3001 Site Contact: DAVE HARRINGTON TAL Contact: JAMIE MCKINNEY		Sampled By: TRACY WALL WADA CANARIO		3 of 3 COCs									
Sample Identification VP-128 Ambient Air		Sample Date(s) 9/15/16 ✓	Time Start 1152 1226	Time Stop 1305 1342	Canister Vacuum in Field, "Hg (Start) -30 -30	Canister Vacuum in Field, "Hg (Stop) -1 -8	Flow Controller ID 11237 10657	Canister ID 10069 10990	TO-15 TO-14A EPA 3C EPA 25C ASTM D-1946	Other (Please specify in notes section) Other (Please specify in notes section) Other (Please specify in notes section) Other (Please specify in notes section)	Landfill Gas Soil Gas Ambient Air Indoor Air	Ambient Air Ambient Air			
Sampled by: <i>Joey Wale</i>		Temperature (Fahrenheit) Interior Start Stop		Ambient Start Stop		Pressure (Inches of Hg) Interior Start Stop		Ambient Start Stop		Special Instructions/QC Requirements & Comments:					
Canisters Shipped by: <i>Joey Wale</i>		Date/Time: 9/16/16 1100		Canisters Received by: <i>[Signature]</i>		Date/Time: 9/16/16 1100		Relinquished by: <i>[Signature]</i>		Date/Time: 9/16/16 1100		Relinquished by: <i>[Signature]</i>		Date/Time: 9/16/16 1100	

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?				<input checked="" type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Yes <input type="checkbox"/> NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID: _____ Correction factor: _____	/		/	<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	
10. Was the sampler identified on the COC?	/			<input type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	
16. Were samples received with correct chemical preservative (excluding Encore)?				<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	
17. Were VOA samples received without headspace?			/	<input type="checkbox"/> Headspace (VOA only)	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			/	<input type="checkbox"/> Residual Chlorine	
19. For 1613B water samples is pH<9?			/	<input type="checkbox"/> If no, lab will adjust	
20. For rad samples was sample activity info. Provided?			/	<input type="checkbox"/> Project missing info	
Project #: <u>14003548</u> PM Instructions: _____					
Sample Receiving Associate: <u>[Signature]</u> Date: <u>9/17/16</u>					
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 F

Data Usability Summary Report

**DATA USABILITY SUMMARY REPORT
1st AVENUE AND EAST 90TH STREET, BRONX, NEW YORK**

Client: EnviroTrac Ltd., Yaphank, New York
 SDG: 140-5852-1
 Laboratory: TestAmerica, Inc., Knoxville, Tennessee
 Site: 1st Avenue and East 90th Street, Bronx, New York
 Date: November 11, 2016

EDS ID	Client ID	Laboratory ID	Matrix
1	VP-BLIND DUP	140-5852-1	Air
2	VP-127	140-5852-2	Air
3	VP-128	140-5852-3	Air
3DL	VP-128DL	140-5852-3DL	Air
4	VP-129	140-5852-4	Air
5	VP-130	140-5852-5	Air
5DL	VP-130DL	140-5852-5DL	Air
6	VP-126	140-5852-6	Air
7	VP-104	140-5852-7	Air
8	VP-102	140-5852-8	Air
9	VP-100	140-5852-9	Air
9DL	VP-100DL	140-5852-9DL	Air
10	VP-113	140-5852-10	Air
11	VP-112	140-5852-11	Air
11DL	VP-112DL	140-5852-11DL	Air
12	VP-110	140-5852-12	Air
12DL	VP-110DL	140-5852-12DL	Air
13	VP-125	140-5852-13	Air
14	AMBIENT AIR	140-5852-14	Air

A Data Usability Summary Review was performed on the analytical data for fourteen air samples collected on September 15, 2016 by EnviroTrac at the 1st Avenue and East 90th Street site in Bronx, New York, 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)*”, and *Natural Gas Analysis by Modified ASTM D-1946 for Helium*.

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.

Organics

The following items/criteria were reviewed for this report:

- 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 is acceptable for the intended purposes as qualified for the following deficiencies.

- Several compounds were qualified as estimated in all samples due to high continuing calibration %D values.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedences of QC criteria.

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

- All criteria were met

Holding Times

- All samples were analyzed within 30 days for air samples.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS ID	Compound	%R	Qualifier	Affected Samples
140-6625/1002	Ethanol	57	None	See CCAL

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 following table presents compounds that exceeded 30 percent deviation (%D) and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
09/21/16	Dichlorodifluoromethane	31.1%	J/UJ	1-9, 11-14
	Ethanol	43.5%	J/UJ	
	4-Methyl-2-pentanone	36.6%	J/UJ	
	Trichlorofluoromethane	31.2%	J/UJ	
09/22/16	Chloromethane	38.9%	J/UJ	10
	Ethanol	35.7%	J/UJ	
	Hexachlorobutadiene	33.8%	J/UJ	

Compound Quantitation

- EDS Sample ID #s 3, 5, 9, 11, and 12 exhibited a high concentration of 1,4-dichlorobenzene and/or tetrachloroethene over the calibration range of the instrument and were flagged (E) by the laboratory. The samples were diluted and reanalyzed and the dilution results for these compounds should be used for reporting purposes.
- EDS Sample ID #10 was analyzed at a 4.26X dilution due to high concentrations of non-target compounds. The reporting limits were adjusted accordingly. No action was taken on this basis.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	VP-104 ppbv	VP-BLIND DUP ppbv	RPD	Qualifier
1,2,4-Trimethylbenzene	0.099	0.12	19%	None
1,4-Dichlorobenzene	1.1	1.3	17%	
2-Butanone	0.32U	0.50	NC	
4-Methyl-2-pentanone	2.2	0.80	93%	None - See CCAL
Benzene	0.087	0.095	9%	None
Carbon tetrachloride	0.085	0.085	0%	
Chloroform	0.59	0.59	0%	
Chloromethane	0.33	0.31	6%	

Compound	VP-104 ppbv	VP-BLIND DUP ppbv	RPD	Qualifier
Dichlorodifluoromethane	0.55	0.54	2%	None
Ethanol	2.7	3.6	29%	
Methylene Chloride	0.47	0.29	47%	
m,p-Xylene	0.20	0.24	18%	
o-Xylene	0.082	0.092	11%	
t-Butyl Alcohol	0.32U	0.32	NC	
Tetrachloroethene	1.5	1.5	0%	
Toluene	0.33	0.36	9%	
Trichlorofluoromethane	0.31	0.29	7%	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed:

Nancy Weaver

Nancy Weaver
Senior Chemist

Dated: 11/14/16

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.: 140-5852-1

SDG No.:

Client Sample ID: VP-BLIND DUP

Lab Sample ID: 140-5852-1

Matrix: Air

Lab File ID: GI21P102.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 15:10

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 16:46

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.: 6625

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	0.12		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	1.3		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	0.50		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.80	J	0.20
71-43-2	Benzene	78.11	0.095		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	0.085		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	0.59		0.080
74-87-3	Chloromethane	50.49	0.31		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.: 140-5852-1

SDG No.:

Client Sample ID: VP-BLIND DUP

Lab Sample ID: 140-5852-1

Matrix: Air

Lab File ID: GI21P102.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 15:10

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 16:46

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.: 6625

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	0.54	J	0.080
64-17-5	Ethanol	46.07	3.6	J	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	0.29		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	0.24		0.080
95-47-6	o-Xylene	106.17	0.092		0.080
100-42-5	Styrene	104.15	ND		0.080
75-65-0	t-Butyl alcohol	74.12	0.32		0.32
127-18-4	Tetrachloroethene	165.83	1.5		0.080
108-88-3	Toluene	92.14	0.36		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	0.29	J	0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-BLIND DUP Lab Sample ID: 140-5852-1
 Matrix: Air Lab File ID: GI21P102.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 16:46
 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.: 6625 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	0.57		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	7.6		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	1.5		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	3.3	J	0.82
71-43-2	Benzene	78.11	0.30		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	0.53		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	2.9		0.39
74-87-3	Chloromethane	50.49	0.65		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.: 140-5852-1

SDG No.:

Client Sample ID: VP-BLIND DUP

Lab Sample ID: 140-5852-1

Matrix: Air

Lab File ID: GI21P102.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 15:10

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 16:46

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.: 6625

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	J	0.40
64-17-5	Ethanol	46.07	6.8	J	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	1.0		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	1.0		0.35
95-47-6	o-Xylene	106.17	0.40		0.35
100-42-5	Styrene	104.15	ND		0.34
75-65-0	t-Butyl alcohol	74.12	0.97		0.97
127-18-4	Tetrachloroethene	165.83	10		0.54
108-88-3	Toluene	92.14	1.3		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	1.6	J	0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

2

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-127 Lab Sample ID: 140-5852-2
 Matrix: Air Lab File ID: GI21P103.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:38
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 17:32
 Soil Aliquot Vol: Dilution Factor: 1
 Soil Extract Vol.: GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: Level: (low/med) Low
 Analysis Batch No.: 6625 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	1.7		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	0.42		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	2.3		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	1.9		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	3.3	J	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	0.059		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	10		0.080
74-87-3	Chloromethane	50.49	0.66		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	0.57		0.20

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-127 Lab Sample ID: 140-5852-2
 Matrix: Air Lab File ID: GI21P103.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:38
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 17:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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	0.41	J	0.080
64-17-5	Ethanol	46.07	ND	J	2.0
100-41-4	Ethylbenzene	106.17	0.69		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	0.51		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.89		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	3.1		0.080
95-47-6	o-Xylene	106.17	1.1		0.080
100-42-5	Styrene	104.15	0.94		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	12		0.080
108-88-3	Toluene	92.14	1.8		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	0.40	J	0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-127

Lab Sample ID: 140-5852-2

Matrix: Air

Lab File ID: GI21P103.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 12:38

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 17:32

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: RTX-5

ID: 0.32 (mm)

% Moisture:

Level: (low/med) Low

Analysis Batch No.: 6625

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	8.6		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	2.1		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	14		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	5.5		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	14	J	0.82
71-43-2	Benzene	78.11	0.55		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	0.37		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	49		0.39
74-87-3	Chloromethane	50.49	1.4		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	1.9		0.69

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-127

Lab Sample ID: 140-5852-2

Matrix: Air

Lab File ID: GI21P103.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 12:38

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 17:32

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

% Moisture:

Level: (low/med) Low

Analysis Batch No.: 6625

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	2.0	J	0.40
64-17-5	Ethanol	46.07	ND	UJ	3.8
100-41-4	Ethylbenzene	106.17	3.0		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	1.8		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	3.1		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	13		0.35
95-47-6	o-Xylene	106.17	4.8		0.35
100-42-5	Styrene	104.15	4.0		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	84		0.54
108-88-3	Toluene	92.14	6.7		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	2.2	J	0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-128

Lab Sample ID: 140-5852-3

Matrix: Air

Lab File ID: GI21P104.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 12:42

Sample wt/vol: 10(mL)

Date Analyzed: 09/21/2016 18:15

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.: 6625

Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		4.0
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		4.0
79-00-5	1,1,2-Trichloroethane	133.41	ND		4.0
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		4.0
75-34-3	1,1-Dichloroethane	98.96	ND		4.0
75-35-4	1,1-Dichloroethene	96.94	ND		4.0
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		4.0
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		4.0
106-93-4	1,2-Dibromoethane	187.87	ND		4.0
95-50-1	1,2-Dichlorobenzene	147.00	ND		4.0
107-06-2	1,2-Dichloroethane	98.96	ND		4.0
78-87-5	1,2-Dichloropropane	112.99	ND		4.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		4.0
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		4.0
541-73-1	1,3-Dichlorobenzene	147.00	ND		4.0
106-46-7	1,4-Dichlorobenzene	147.00	ND		4.0
123-91-1	1,4-Dioxane	88.11	ND		10
540-84-1	2,2,4-Trimethylpentane	114.23	ND		10
78-93-3	2-Butanone	72.11	ND		16
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND	UJ	10
71-43-2	Benzene	78.11	11		4.0
100-44-7	Benzyl chloride	126.58	ND		8.0
75-27-4	Bromodichloromethane	163.83	ND		4.0
75-25-2	Bromoform	252.75	ND		4.0
74-83-9	Bromomethane	94.94	ND		4.0
56-23-5	Carbon tetrachloride	153.81	ND		2.0
108-90-7	Chlorobenzene	112.56	ND		4.0
75-00-3	Chloroethane	64.52	ND		4.0
67-66-3	Chloroform	119.38	56		4.0
74-87-3	Chloromethane	50.49	ND		10
156-59-2	cis-1,2-Dichloroethene	96.94	420		4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		4.0
110-82-7	Cyclohexane	84.16	ND		10

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

3

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-128

Lab Sample ID: 140-5852-3

Matrix: Air

Lab File ID: GI21P104.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 12:42

Sample wt/vol: 10(mL)

Date Analyzed: 09/21/2016 18:15

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.: 6625

Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		4.0
75-71-8	Dichlorodifluoromethane	120.91	ND	WJ	4.0
64-17-5	Ethanol	46.07	ND	WJ	100
100-41-4	Ethylbenzene	106.17	ND		4.0
87-68-3	Hexachlorobutadiene	260.76	ND		4.0
110-54-3	Hexane	86.17	ND		10
1634-04-4	Methyl tert-butyl ether	88.15	ND		8.0
75-09-2	Methylene Chloride	84.93	ND		10
179601-23-1	m-Xylene & p-Xylene	106.17	ND		4.0
95-47-6	o-Xylene	106.17	ND		4.0
100-42-5	Styrene	104.15	ND		4.0
75-65-0	t-Butyl alcohol	74.12	ND		16
127-18-4	Tetrachloroethene	165.83	450	870	12 4.0
108-88-3	Toluene	92.14	14		6.0
156-60-5	trans-1,2-Dichloroethene	96.94	ND		4.0
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		4.0
79-01-6	Trichloroethene	131.39	140		2.0
75-69-4	Trichlorofluoromethane	137.37	ND	WJ	4.0
75-01-4	Vinyl chloride	62.50	4.5		2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

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

3PL

Lab Name: TestAmerica Knoxville	Job No.: 140-5852-1
SDG No.:	
Client Sample ID: VP-128 DL	Lab Sample ID: 140-5852-3 DL
Matrix: Air	Lab File ID: JI22P113.D
Analysis Method: TO 15 LL	Date Collected: 09/15/2016 12:42
Sample wt/vol: 11 (mL)	Date Analyzed: 09/23/2016 03:32
Soil Aliquot Vol:	Dilution Factor: 3.32
Soil Extract Vol.:	GC Column: RTX-5 ID: 0.32 (mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 6632	Units: ppb v/v

Use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
127-18-4	Tetrachloroethene	165.83	450	✓	12

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

3

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-128

Lab Sample ID: 140-5852-3

Matrix: Air

Lab File ID: GI21P104.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 12:42

Sample wt/vol: 10(mL)

Date Analyzed: 09/21/2016 18:15

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.: 6625

Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		34
75-71-8	Dichlorodifluoromethane	120.91	ND	UJ	20
64-17-5	Ethanol	46.07	ND	UJ	190
100-41-4	Ethylbenzene	106.17	ND		17
87-68-3	Hexachlorobutadiene	260.76	ND		43
110-54-3	Hexane	86.17	ND		35
1634-04-4	Methyl tert-butyl ether	88.15	ND		29
75-09-2	Methylene Chloride	84.93	ND		35
179601-23-1	m-Xylene & p-Xylene	106.17	ND		17
95-47-6	o-Xylene	106.17	ND		17
100-42-5	Styrene	104.15	ND		17
75-65-0	t-Butyl alcohol	74.12	ND		49
127-18-4	Tetrachloroethene	165.83	3000 5900 E		82 27
108-88-3	Toluene	92.14	54		23
156-60-5	trans-1,2-Dichloroethene	96.94	ND		16
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		18
79-01-6	Trichloroethene	131.39	750		11
75-69-4	Trichlorofluoromethane	137.37	ND	UJ	22
75-01-4	Vinyl chloride	62.50	11		5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		60-140

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

3DL

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-128 DL Lab Sample ID: 140-5852-3 DL
 Matrix: Air Lab File ID: JI22P113.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:42
 Sample wt/vol: 11(mL) Date Analyzed: 09/23/2016 03:32
 Soil Aliquot Vol: Dilution Factor: 3.32
 Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: Level: (low/med) Low
 Analysis Batch No.: 6632 Units: ug/m3

Use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
127-18-4	Tetrachloroethene	165.83	3000	1	82

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

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-129

Lab Sample ID: 140-5852-4

Matrix: Air

Lab File ID: GI21P105.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 13:15

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 19:01

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.: 6625

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	0.46		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	0.12		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	0.73		0.080
123-91-1	1,4-Dioxane	88.11	0.26		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20
78-93-3	2-Butanone	72.11	1.1		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND	LJ	0.20
71-43-2	Benzene	78.11	0.18		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	0.094		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	0.26		0.080
74-87-3	Chloromethane	50.49	0.40		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.: 140-5852-1

SDG No.:

Client Sample ID: VP-129

Lab Sample ID: 140-5852-4

Matrix: Air

Lab File ID: GI21P105.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 13:15

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 19:01

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.: 6625

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	0.59	J	0.080
64-17-5	Ethanol	46.07	5.1	J	2.0
100-41-4	Ethylbenzene	106.17	0.19		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	0.27		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	0.72		0.080
95-47-6	o-Xylene	106.17	0.25		0.080
100-42-5	Styrene	104.15	0.29		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	3.3		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	0.28	J	0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-129

Lab Sample ID: 140-5852-4

Matrix: Air

Lab File ID: GI21P105.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 13:15

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 19:01

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.: 6625

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	2.3		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	0.61		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	4.4		0.48
123-91-1	1,4-Dioxane	88.11	0.95		0.72
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93
78-93-3	2-Butanone	72.11	3.3		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND	WJ	0.82
71-43-2	Benzene	78.11	0.58		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	0.59		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	1.3		0.39
74-87-3	Chloromethane	50.49	0.82		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.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-130 Lab Sample ID: 140-5852-5
 Matrix: Air Lab File ID: GI21P106.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:21
 Sample wt/vol: 730(mL) Date Analyzed: 09/21/2016 19:50
 Soil Aliquot Vol: _____ Dilution Factor: 1.46
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	0.11		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	1.0		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	0.27		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	7.8		0.080
123-91-1	1,4-Dioxane	88.11	0.53		0.20
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20
78-93-3	2-Butanone	72.11	2.8		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND	WJ	0.20
71-43-2	Benzene	78.11	0.35		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	0.094		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	0.22		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	0.71		0.080
74-87-3	Chloromethane	50.49	ND		0.20
156-59-2	cis-1,2-Dichloroethene	96.94	0.15		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.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-130 Lab Sample ID: 140-5852-5
 Matrix: Air Lab File ID: GI21P106.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:21
 Sample wt/vol: 730(mL) Date Analyzed: 09/21/2016 19:50
 Soil Aliquot Vol: Dilution Factor: 1.46
 Soil Extract Vol.: GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: Level: (low/med) Low
 Analysis Batch No.: 6625 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	J	0.080
64-17-5	Ethanol	46.07	ND	*uj	2.0
100-41-4	Ethylbenzene	106.17	0.76		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	0.37		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	3.0		0.080
95-47-6	o-Xylene	106.17	0.97		0.080
100-42-5	Styrene	104.15	0.46		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	42	69 E	0.73 0.080
108-88-3	Toluene	92.14	2.8		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	0.27		0.040
75-69-4	Trichlorofluoromethane	137.37	0.32	J	0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

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

5 DL

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-130 DL

Lab Sample ID: 140-5852-5 DL

Matrix: Air

Lab File ID: JI22P114.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 13:21

Sample wt/vol: 80(mL)

Date Analyzed: 09/23/2016 04:27

Soil Aliquot Vol:

Dilution Factor: 1.46

Soil Extract Vol.:

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

% Moisture:

Level: (low/med) Low

Analysis Batch No.: 6632

Units: ppb v/v

Use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
127-18-4	Tetrachloroethene	165.83	42	D	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	114		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-130 Lab Sample ID: 140-5852-5
 Matrix: Air Lab File ID: GI21P106.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:21
 Sample wt/vol: 730(mL) Date Analyzed: 09/21/2016 19:50
 Soil Aliquot Vol: _____ Dilution Factor: 1.46
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 6625 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	J	0.40
64-17-5	Ethanol	46.07	ND	J	3.8
100-41-4	Ethylbenzene	106.17	3.3		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	1.3		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	13		0.35
95-47-6	o-Xylene	106.17	4.2		0.35
100-42-5	Styrene	104.15	2.0		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	280	470 E	5.0 0.54
108-88-3	Toluene	92.14	11		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	1.4		0.21
75-69-4	Trichlorofluoromethane	137.37	1.8	J	0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

5DL

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-130 DL

Lab Sample ID: 140-5852-5 DL

Matrix: Air

Lab File ID: JI22P114.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 13:21

Sample wt/vol: 80(mL)

Date Analyzed: 09/23/2016 04:27

Soil Aliquot Vol:

Dilution Factor: 1.46

Soil Extract Vol.:

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

% Moisture:

Level: (low/med) Low

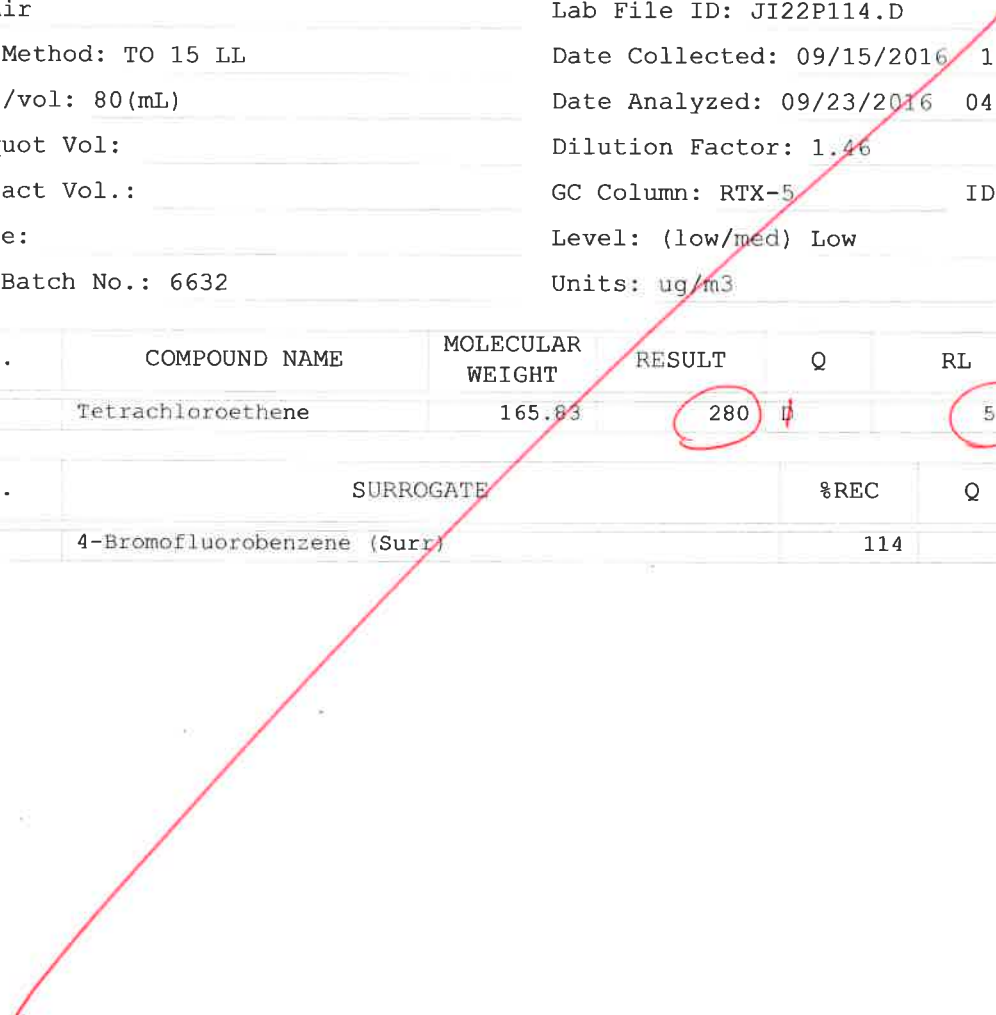
Analysis Batch No.: 6632

Units: ug/m3

Use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
127-18-4	Tetrachloroethene	165.83	280	1	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	114		60-140



Amberly

6

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-126

Lab Sample ID: 140-5852-6

Matrix: Air

Lab File ID: GI21P107.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 12:58

Sample wt/vol: 100(mL)

Date Analyzed: 09/21/2016 20:35

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.: 6625

Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.40
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.40
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.40
75-34-3	1,1-Dichloroethane	98.96	ND		0.40
75-35-4	1,1-Dichloroethene	96.94	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	120.20	5.2		0.40
106-93-4	1,2-Dibromoethane	187.87	ND		0.40
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.40
107-06-2	1,2-Dichloroethane	98.96	ND		0.40
78-87-5	1,2-Dichloropropane	112.99	ND		0.40
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.2		0.40
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.40
106-46-7	1,4-Dichlorobenzene	147.00	3.8		0.40
123-91-1	1,4-Dioxane	88.11	ND		1.0
540-84-1	2,2,4-Trimethylpentane	114.23	ND		1.0
78-93-3	2-Butanone	72.11	1.9		1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND	uj	1.0
71-43-2	Benzene	78.11	ND		0.40
100-44-7	Benzyl chloride	126.58	ND		0.80
75-27-4	Bromodichloromethane	163.83	0.48		0.40
75-25-2	Bromoform	252.75	ND		0.40
74-83-9	Bromomethane	94.94	ND		0.40
56-23-5	Carbon tetrachloride	153.81	ND		0.20
108-90-7	Chlorobenzene	112.56	ND		0.40
75-00-3	Chloroethane	64.52	ND		0.40
67-66-3	Chloroform	119.38	11		0.40
74-87-3	Chloromethane	50.49	ND		1.0
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.40
110-82-7	Cyclohexane	84.16	ND		1.0

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-126 Lab Sample ID: 140-5852-6
 Matrix: Air Lab File ID: GI21P107.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:58
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 20:35
 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.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.40
75-71-8	Dichlorodifluoromethane	120.91	0.69	J	0.40
64-17-5	Ethanol	46.07	ND	WJ	10
100-41-4	Ethylbenzene	106.17	1.9		0.40
87-68-3	Hexachlorobutadiene	260.76	ND		0.40
110-54-3	Hexane	86.17	ND		1.0
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.80
75-09-2	Methylene Chloride	84.93	1.7		1.0
179601-23-1	m-Xylene & p-Xylene	106.17	5.5		0.40
95-47-6	o-Xylene	106.17	2.5		0.40
100-42-5	Styrene	104.15	1.4		0.40
75-65-0	t-Butyl alcohol	74.12	ND		1.6
127-18-4	Tetrachloroethene	165.83	34		0.40
108-88-3	Toluene	92.14	1.2		0.60
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.40
79-01-6	Trichloroethene	131.39	ND		0.20
75-69-4	Trichlorofluoromethane	137.37	0.52	J	0.40
75-01-4	Vinyl chloride	62.50	ND		0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-126 Lab Sample ID: 140-5852-6
 Matrix: Air Lab File ID: GI21P107.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 12:58
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 20:35
 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.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		2.2
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.7
79-00-5	1,1,2-Trichloroethane	133.41	ND		2.2
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		3.1
75-34-3	1,1-Dichloroethane	98.96	ND		1.6
75-35-4	1,1-Dichloroethene	96.94	ND		1.6
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.0
95-63-6	1,2,4-Trimethylbenzene	120.20	26		2.0
106-93-4	1,2-Dibromoethane	187.87	ND		3.1
95-50-1	1,2-Dichlorobenzene	147.00	ND		2.4
107-06-2	1,2-Dichloroethane	98.96	ND		1.6
78-87-5	1,2-Dichloropropane	112.99	ND		1.8
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.8
108-67-8	1,3,5-Trimethylbenzene	120.20	11		2.0
541-73-1	1,3-Dichlorobenzene	147.00	ND		2.4
106-46-7	1,4-Dichlorobenzene	147.00	23		2.4
123-91-1	1,4-Dioxane	88.11	ND		3.6
540-84-1	2,2,4-Trimethylpentane	114.23	ND		4.7
78-93-3	2-Butanone	72.11	5.6		4.7
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND <i>WJ</i>		4.1
71-43-2	Benzene	78.11	ND		1.3
100-44-7	Benzyl chloride	126.58	ND		4.1
75-27-4	Bromodichloromethane	163.83	3.2		2.7
75-25-2	Bromoform	252.75	ND		4.1
74-83-9	Bromomethane	94.94	ND		1.6
56-23-5	Carbon tetrachloride	153.81	ND		1.3
108-90-7	Chlorobenzene	112.56	ND		1.8
75-00-3	Chloroethane	64.52	ND		1.1
67-66-3	Chloroform	119.38	53		2.0
74-87-3	Chloromethane	50.49	ND		2.1
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.6
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.8
110-82-7	Cyclohexane	84.16	ND		3.4

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-126

Lab Sample ID: 140-5852-6

Matrix: Air

Lab File ID: GI21P107.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 12:58

Sample wt/vol: 100(mL)

Date Analyzed: 09/21/2016 20:35

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.: 6625

Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		3.4
75-71-8	Dichlorodifluoromethane	120.91	3.4	J	2.0
64-17-5	Ethanol	46.07	ND	J	19
100-41-4	Ethylbenzene	106.17	8.2		1.7
87-68-3	Hexachlorobutadiene	260.76	ND		4.3
110-54-3	Hexane	86.17	ND		3.5
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.9
75-09-2	Methylene Chloride	84.93	5.8		3.5
179601-23-1	m-Xylene & p-Xylene	106.17	24		1.7
95-47-6	o-Xylene	106.17	11		1.7
100-42-5	Styrene	104.15	6.1		1.7
75-65-0	t-Butyl alcohol	74.12	ND		4.9
127-18-4	Tetrachloroethene	165.83	230		2.7
108-88-3	Toluene	92.14	4.4		2.3
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.6
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.8
79-01-6	Trichloroethene	131.39	ND		1.1
75-69-4	Trichlorofluoromethane	137.37	2.9	J	2.2
75-01-4	Vinyl chloride	62.50	ND		0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-104 Lab Sample ID: 140-5852-7
 Matrix: Air Lab File ID: GI21P108.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 21:24
 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.: 6625 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	0.099		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	1.1		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	2.2	J	0.20
71-43-2	Benzene	78.11	0.087		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	0.085		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	0.59		0.080
74-87-3	Chloromethane	50.49	0.33		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

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Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-104

Lab Sample ID: 140-5852-7

Matrix: Air

Lab File ID: GI21P108.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 15:10

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 21:24

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.: 6625

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	0.55	J	0.080
64-17-5	Ethanol	46.07	2.7	J	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	0.47		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	0.20		0.080
95-47-6	o-Xylene	106.17	0.082		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	1.5		0.080
108-88-3	Toluene	92.14	0.33		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	0.31	J	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.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-104 Lab Sample ID: 140-5852-7
 Matrix: Air Lab File ID: GI21P108.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 21:24
 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.: 6625 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	0.49		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	6.6		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	9.1	J	0.82
71-43-2	Benzene	78.11	0.28		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	0.53		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	2.9		0.39
74-87-3	Chloromethane	50.49	0.69		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.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-104 Lab Sample ID: 140-5852-7
 Matrix: Air Lab File ID: GI21P108.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:10
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 21:24
 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.: 6625 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	2.7		0.40
64-17-5	Ethanol	46.07	5.0	J	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	1.6		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	0.88		0.35
95-47-6	o-Xylene	106.17	0.36		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	10		0.54
108-88-3	Toluene	92.14	1.2		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	1.8	J	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

8

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-102

Lab Sample ID: 140-5852-8

Matrix: Air

Lab File ID: GI21P101.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 16:20

Sample wt/vol: 100(mL)

Date Analyzed: 09/21/2016 16:01

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.: 6625

Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.40
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.40
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		0.40
75-34-3	1,1-Dichloroethane	98.96	ND		0.40
75-35-4	1,1-Dichloroethene	96.94	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	120.20	1.3		0.40
106-93-4	1,2-Dibromoethane	187.87	ND		0.40
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.40
107-06-2	1,2-Dichloroethane	98.96	ND		0.40
78-87-5	1,2-Dichloropropane	112.99	ND		0.40
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.40
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.40
106-46-7	1,4-Dichlorobenzene	147.00	14		0.40
123-91-1	1,4-Dioxane	88.11	ND		1.0
540-84-1	2,2,4-Trimethylpentane	114.23	ND		1.0
78-93-3	2-Butanone	72.11	1.6		1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND 4J		1.0
71-43-2	Benzene	78.11	0.72		0.40
100-44-7	Benzyl chloride	126.58	ND		0.80
75-27-4	Bromodichloromethane	163.83	ND		0.40
75-25-2	Bromoform	252.75	ND		0.40
74-83-9	Bromomethane	94.94	ND		0.40
56-23-5	Carbon tetrachloride	153.81	ND		0.20
108-90-7	Chlorobenzene	112.56	ND		0.40
75-00-3	Chloroethane	64.52	ND		0.40
67-66-3	Chloroform	119.38	0.47		0.40
74-87-3	Chloromethane	50.49	3.9		1.0
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.40
110-82-7	Cyclohexane	84.16	ND		1.0

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-102 Lab Sample ID: 140-5852-8
 Matrix: Air Lab File ID: GI21P101.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 16:20
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 16:01
 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.: 6625 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		0.40
75-71-8	Dichlorodifluoromethane	120.91	0.46	J	0.40
64-17-5	Ethanol	46.07	ND	UJ	10
100-41-4	Ethylbenzene	106.17	0.58		0.40
87-68-3	Hexachlorobutadiene	260.76	ND		0.40
110-54-3	Hexane	86.17	1.2		1.0
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.80
75-09-2	Methylene Chloride	84.93	ND		1.0
179601-23-1	m-Xylene & p-Xylene	106.17	2.4		0.40
95-47-6	o-Xylene	106.17	0.93		0.40
100-42-5	Styrene	104.15	ND		0.40
75-65-0	t-Butyl alcohol	74.12	ND		1.6
127-18-4	Tetrachloroethene	165.83	20		0.40
108-88-3	Toluene	92.14	2.1		0.60
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.40
79-01-6	Trichloroethene	131.39	ND		0.20
75-69-4	Trichlorofluoromethane	137.37	ND	UJ	0.40
75-01-4	Vinyl chloride	62.50	ND		0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-102 Lab Sample ID: 140-5852-8
 Matrix: Air Lab File ID: GI21P101.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 16:20
 Sample wt/vol: 100(mL) Date Analyzed: 09/21/2016 16:01
 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.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		2.2
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		2.7
79-00-5	1,1,2-Trichloroethane	133.41	ND		2.2
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		3.1
75-34-3	1,1-Dichloroethane	98.96	ND		1.6
75-35-4	1,1-Dichloroethene	96.94	ND		1.6
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.0
95-63-6	1,2,4-Trimethylbenzene	120.20	6.3		2.0
106-93-4	1,2-Dibromoethane	187.87	ND		3.1
95-50-1	1,2-Dichlorobenzene	147.00	ND		2.4
107-06-2	1,2-Dichloroethane	98.96	ND		1.6
78-87-5	1,2-Dichloropropane	112.99	ND		1.8
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		2.8
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		2.0
541-73-1	1,3-Dichlorobenzene	147.00	ND		2.4
106-46-7	1,4-Dichlorobenzene	147.00	86		2.4
123-91-1	1,4-Dioxane	88.11	ND		3.6
540-84-1	2,2,4-Trimethylpentane	114.23	ND		4.7
78-93-3	2-Butanone	72.11	4.8		4.7
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND uJ		4.1
71-43-2	Benzene	78.11	2.3		1.3
100-44-7	Benzyl chloride	126.58	ND		4.1
75-27-4	Bromodichloromethane	163.83	ND		2.7
75-25-2	Bromoform	252.75	ND		4.1
74-83-9	Bromomethane	94.94	ND		1.6
56-23-5	Carbon tetrachloride	153.81	ND		1.3
108-90-7	Chlorobenzene	112.56	ND		1.8
75-00-3	Chloroethane	64.52	ND		1.1
67-66-3	Chloroform	119.38	2.3		2.0
74-87-3	Chloromethane	50.49	8.1		2.1
156-59-2	cis-1,2-Dichloroethene	96.94	ND		1.6
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		1.8
110-82-7	Cyclohexane	84.16	ND		3.4

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-102

Lab Sample ID: 140-5852-8

Matrix: Air

Lab File ID: GI21P101.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 16:20

Sample wt/vol: 100(mL)

Date Analyzed: 09/21/2016 16:01

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.: 6625

Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		3.4
75-71-8	Dichlorodifluoromethane	120.91	2.3	J	2.0
64-17-5	Ethanol	46.07	ND	UJ	19
100-41-4	Ethylbenzene	106.17	2.5		1.7
87-68-3	Hexachlorobutadiene	260.76	ND		4.3
110-54-3	Hexane	86.17	4.1		3.5
1634-04-4	Methyl tert-butyl ether	88.15	ND		2.9
75-09-2	Methylene Chloride	84.93	ND		3.5
179601-23-1	m-Xylene & p-Xylene	106.17	10		1.7
95-47-6	o-Xylene	106.17	4.0		1.7
100-42-5	Styrene	104.15	ND		1.7
75-65-0	t-Butyl alcohol	74.12	ND		4.9
127-18-4	Tetrachloroethene	165.83	140		2.7
108-88-3	Toluene	92.14	7.9		2.3
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1.6
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		1.8
79-01-6	Trichloroethene	131.39	ND		1.1
75-69-4	Trichlorofluoromethane	137.37	ND	UJ	2.2
75-01-4	Vinyl chloride	62.50	ND		0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

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

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Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-100

Lab Sample ID: 140-5852-9

Matrix: Air

Lab File ID: GI21P109.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 17:01

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 22:16

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.: 6625

Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	1.1		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	1.2		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	0.29		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	14 17 E		0.40 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	2.5		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND 45		0.20
71-43-2	Benzene	78.11	1.9		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	0.058		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	2.5		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	0.96		0.20

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-100

Lab Sample ID: 140-5852-9

Matrix: Air

Lab File ID: GI21P109.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 17:01

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 22:16

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.: 6625

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	J	0.080
64-17-5	Ethanol	46.07	ND	uj	2.0
100-41-4	Ethylbenzene	106.17	0.52		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	1.2		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.65		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	2.0		0.080
95-47-6	o-Xylene	106.17	0.90		0.080
100-42-5	Styrene	104.15	0.20		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	20		0.40
108-88-3	Toluene	92.14	1.5		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	0.14		0.040
75-69-4	Trichlorofluoromethane	137.37	0.35	J	0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		60-140

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

9DL

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-100 DL Lab Sample ID: 140-5852-9 DL
 Matrix: Air Lab File ID: JI22P115.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 17:01
 Sample wt/vol: 100(mL) Date Analyzed: 09/23/2016 05:21
 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.: 6632 Units: ppb v/v

USE ORIGINAL RESULTS

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	14	D	0.40
127-18-4	Tetrachloroethene	165.83	20	D	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

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9DL

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-100 DL

Lab Sample ID: 140-5852-9 DL

Matrix: Air

Lab File ID: JI22P115.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 17:01

Sample wt/vol: 100(mL)

Date Analyzed: 09/23/2016 05:21

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.: 6632

Units: ug/m3

use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	84	112	2.4
127-18-4	Tetrachloroethene	165.83	140	112	2.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-113

Lab Sample ID: 140-5852-10

Matrix: Air

Lab File ID: JI22P112.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 15:42

Sample wt/vol: 40(mL)

Date Analyzed: 09/23/2016 02:39

Soil Aliquot Vol:

Dilution Factor: 4.26

Soil Extract Vol.:

GC Column: RTX-5

ID: 0.32 (mm)

% Moisture:

Level: (low/med) Low

Analysis Batch No.: 6632

Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		4.3
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		4.3
79-00-5	1,1,2-Trichloroethane	133.41	ND		4.3
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		4.3
75-34-3	1,1-Dichloroethane	98.96	ND		4.3
75-35-4	1,1-Dichloroethene	96.94	ND		4.3
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		4.3
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		4.3
106-93-4	1,2-Dibromoethane	187.87	ND		4.3
95-50-1	1,2-Dichlorobenzene	147.00	ND		4.3
107-06-2	1,2-Dichloroethane	98.96	ND		4.3
78-87-5	1,2-Dichloropropane	112.99	ND		4.3
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		4.3
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		4.3
541-73-1	1,3-Dichlorobenzene	147.00	ND		4.3
106-46-7	1,4-Dichlorobenzene	147.00	11		4.3
123-91-1	1,4-Dioxane	88.11	ND		11
540-84-1	2,2,4-Trimethylpentane	114.23	ND		11
78-93-3	2-Butanone	72.11	ND		17
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		11
71-43-2	Benzene	78.11	38		4.3
100-44-7	Benzyl chloride	126.58	ND		8.5
75-27-4	Bromodichloromethane	163.83	ND		4.3
75-25-2	Bromoform	252.75	ND		4.3
74-83-9	Bromomethane	94.94	ND		4.3
56-23-5	Carbon tetrachloride	153.81	ND		2.1
108-90-7	Chlorobenzene	112.56	ND		4.3
75-00-3	Chloroethane	64.52	ND		4.3
67-66-3	Chloroform	119.38	ND		4.3
74-87-3	Chloromethane	50.49	ND	UJ	11
156-59-2	cis-1,2-Dichloroethene	96.94	ND		4.3
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		4.3
110-82-7	Cyclohexane	84.16	61		11

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-113 Lab Sample ID: 140-5852-10
 Matrix: Air Lab File ID: JI22P112.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:42
 Sample wt/vol: 40(mL) Date Analyzed: 09/23/2016 02:39
 Soil Aliquot Vol: Dilution Factor: 4.26
 Soil Extract Vol.: GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: Level: (low/med) Low
 Analysis Batch No.: 6632 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	ND		4.3
75-71-8	Dichlorodifluoromethane	120.91	ND		4.3
64-17-5	Ethanol	46.07	ND UJ		110
100-41-4	Ethylbenzene	106.17	ND		4.3
87-68-3	Hexachlorobutadiene	260.76	ND UJ		4.3
110-54-3	Hexane	86.17	150		11
1634-04-4	Methyl tert-butyl ether	88.15	ND		8.5
75-09-2	Methylene Chloride	84.93	23		11
179601-23-1	m-Xylene & p-Xylene	106.17	ND		4.3
95-47-6	o-Xylene	106.17	ND		4.3
100-42-5	Styrene	104.15	ND		4.3
75-65-0	t-Butyl alcohol	74.12	ND		17
127-18-4	Tetrachloroethene	165.83	11		4.3
108-88-3	Toluene	92.14	ND		6.4
156-60-5	trans-1,2-Dichloroethene	96.94	ND		4.3
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		4.3
79-01-6	Trichloroethene	131.39	ND		2.1
75-69-4	Trichlorofluoromethane	137.37	ND		4.3
75-01-4	Vinyl chloride	62.50	ND		2.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		60-140

10

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-113 Lab Sample ID: 140-5852-10
 Matrix: Air Lab File ID: JI22P112.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:42
 Sample wt/vol: 40(mL) Date Analyzed: 09/23/2016 02:39
 Soil Aliquot Vol: Dilution Factor: 4.26
 Soil Extract Vol.: GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: Level: (low/med) Low
 Analysis Batch No.: 6632 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		23
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		29
79-00-5	1,1,2-Trichloroethane	133.41	ND		23
76-13-1	1,1,2-Trichlorotrifluoroethane	187.38	ND		33
75-34-3	1,1-Dichloroethane	98.96	ND		17
75-35-4	1,1-Dichloroethene	96.94	ND		17
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		32
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		21
106-93-4	1,2-Dibromoethane	187.87	ND		33
95-50-1	1,2-Dichlorobenzene	147.00	ND		26
107-06-2	1,2-Dichloroethane	98.96	ND		17
78-87-5	1,2-Dichloropropane	112.99	ND		20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		30
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		21
541-73-1	1,3-Dichlorobenzene	147.00	ND		26
106-46-7	1,4-Dichlorobenzene	147.00	65		26
123-91-1	1,4-Dioxane	88.11	ND		38
540-84-1	2,2,4-Trimethylpentane	114.23	ND		50
78-93-3	2-Butanone	72.11	ND		50
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		44
71-43-2	Benzene	78.11	120		14
100-44-7	Benzyl chloride	126.58	ND		44
75-27-4	Bromodichloromethane	163.83	ND		29
75-25-2	Bromoform	252.75	ND		44
74-83-9	Bromomethane	94.94	ND		17
56-23-5	Carbon tetrachloride	153.81	ND		13
108-90-7	Chlorobenzene	112.56	ND		20
75-00-3	Chloroethane	64.52	ND		11
67-66-3	Chloroform	119.38	ND		21
74-87-3	Chloromethane	50.49	ND	WJ	22
156-59-2	cis-1,2-Dichloroethene	96.94	ND		17
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		19
110-82-7	Cyclohexane	84.16	210		37

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-112 Lab Sample ID: 140-5852-11
 Matrix: Air Lab File ID: GI21P111.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:53
 Sample wt/vol: 500(mL) Date Analyzed: 09/21/2016 23:52
 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.: 6625 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	0.080		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	1.4		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	0.29		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	12	12	0.80 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	12		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.47	J	0.20
71-43-2	Benzene	78.11	0.22		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	0.098		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	1.3		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

11DL

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-112 DL Lab Sample ID: 140-5852-11 DL
 Matrix: Air Lab File ID: JI22P201.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:53
 Sample wt/vol: 50(mL) Date Analyzed: 09/23/2016 06:15
 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.: 6632 Units: ppb v/v

Use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	12	D	0.80
127-18-4	Tetrachloroethene	165.83	35	D	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

11

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-112

Lab Sample ID: 140-5852-11

Matrix: Air

Lab File ID: GI21P111.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 15:53

Sample wt/vol: 500(mL)

Date Analyzed: 09/21/2016 23:52

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.: 6625

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	2.0	J	0.40
64-17-5	Ethanol	46.07	ND	UJ	3.8
100-41-4	Ethylbenzene	106.17	2.6		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	10		0.35
95-47-6	o-Xylene	106.17	4.1		0.35
100-42-5	Styrene	104.15	1.1		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	230	450	5.4 0.54
108-88-3	Toluene	92.14	8.0		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	1.3		0.21
75-69-4	Trichlorofluoromethane	137.37	1.6	J	0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		60-140

11DL

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-112 DL Lab Sample ID: 140-5852-11 DL
 Matrix: Air Lab File ID: JI22P201.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:53
 Sample wt/vol: 50(mL) Date Analyzed: 09/23/2016 06:15
 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.: 6632 Units: ug/m3

Use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	70	A	4.8
127-18-4	Tetrachloroethene	165.83	230	B	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

12

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-110

Lab Sample ID: 140-5852-12

Matrix: Air

Lab File ID: GI21P112.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 15:57

Sample wt/vol: 500(mL)

Date Analyzed: 09/22/2016 00:42

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.: 6625

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	0.098		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	0.32		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	13 20 E		0.80 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	5.6		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.60	J	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	0.078		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	1.5		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

12DL

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-110 DL Lab Sample ID: 140-5852-12 DL
 Matrix: Air Lab File ID: JI22P202.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:57
 Sample wt/vol: 50(mL) Date Analyzed: 09/23/2016 07:10
 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.: 6632 Units: ppb v/v

Use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	13	D	0.80
127-18-4	Tetrachloroethene	165.83	24	D	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

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

12

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-110

Lab Sample ID: 140-5852-12

Matrix: Air

Lab File ID: GI21P112.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 15:57

Sample wt/vol: 500(mL)

Date Analyzed: 09/22/2016 00:42

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.: 6625

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	0.75		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	7.6		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	1.6		0.39
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.48
106-46-7	1,4-Dichlorobenzene	147.00	7.6	1.20 E	4.8 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	17		0.94
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.5	J	0.82
71-43-2	Benzene	78.11	0.75		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	0.49		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	7.2		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

12

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-110 Lab Sample ID: 140-5852-12
 Matrix: Air Lab File ID: GI21P112.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:57
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 00:42
 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.: 6625 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	3.2	J	0.40
64-17-5	Ethanol	46.07	3.7	J	3.8
100-41-4	Ethylbenzene	106.17	2.8		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	0.71		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	12		0.35
95-47-6	o-Xylene	106.17	4.4		0.35
100-42-5	Styrene	104.15	1.2		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	170 290 E		5.4 0.54
108-88-3	Toluene	92.14	8.4		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	0.40		0.21
75-69-4	Trichlorofluoromethane	137.37	1.9	J	0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		60-140

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

12DL

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: VP-110 DL Lab Sample ID: 140-5852-12 DL
 Matrix: Air Lab File ID: JI22P202.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 15:57
 Sample wt/vol: 50 (mL) Date Analyzed: 09/23/2016 07:10
 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.: 6632 Units: ug/m3

Use original results

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	147.00	76	D	4.8
127-18-4	Tetrachloroethene	165.83	170	D	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		60-140

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

13

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: VP-125

Lab Sample ID: 140-5852-13

Matrix: Air

Lab File ID: GI21P113.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 13:05

Sample wt/vol: 500(mL)

Date Analyzed: 09/22/2016 01:31

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

% Moisture:

Level: (low/med) Low

Analysis Batch No.: 6625

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	0.085		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	1.7		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	0.34		0.080
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.080
106-46-7	1,4-Dichlorobenzene	147.00	2.9		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	1.1		0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	2.6	J	0.20
71-43-2	Benzene	78.11	0.47		0.080
100-44-7	Benzyl chloride	126.58	ND		0.16
75-27-4	Bromodichloromethane	163.83	0.37		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	8.2		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.: 140-5852-1

SDG No.:

Client Sample ID: VP-125

Lab Sample ID: 140-5852-13

Matrix: Air

Lab File ID: GI21P113.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 13:05

Sample wt/vol: 500(mL)

Date Analyzed: 09/22/2016 01:31

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: RTX-5

ID: 0.32 (mm)

% Moisture:

Level: (low/med) Low

Analysis Batch No.: 6625

Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	0.16		0.080
75-71-8	Dichlorodifluoromethane	120.91	0.55		0.080
64-17-5	Ethanol	46.07	ND	J KJ	2.0
100-41-4	Ethylbenzene	106.17	0.71		0.080
87-68-3	Hexachlorobutadiene	260.76	ND		0.080
110-54-3	Hexane	86.17	0.27		0.20
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.16
75-09-2	Methylene Chloride	84.93	0.47		0.20
179601-23-1	m-Xylene & p-Xylene	106.17	2.6		0.080
95-47-6	o-Xylene	106.17	0.95		0.080
100-42-5	Styrene	104.15	0.83		0.080
75-65-0	t-Butyl alcohol	74.12	ND		0.32
127-18-4	Tetrachloroethene	165.83	2.6		0.080
108-88-3	Toluene	92.14	1.9		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	0.30	J	0.080
75-01-4	Vinyl chloride	62.50	ND		0.040

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

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

Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.:
 Client Sample ID: VP-125 Lab Sample ID: 140-5852-13
 Matrix: Air Lab File ID: GI21P113.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:05
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 01:31
 Soil Aliquot Vol: Dilution Factor: 1
 Soil Extract Vol.: GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: Level: (low/med) Low
 Analysis Batch No.: 6625 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL
124-48-1	Dibromochloromethane	208.29	1.4		0.68
75-71-8	Dichlorodifluoromethane	120.91	2.7	J	0.40
64-17-5	Ethanol	46.07	ND	JUJ	3.8
100-41-4	Ethylbenzene	106.17	3.1		0.35
87-68-3	Hexachlorobutadiene	260.76	ND		0.85
110-54-3	Hexane	86.17	0.96		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	11		0.35
95-47-6	o-Xylene	106.17	4.1		0.35
100-42-5	Styrene	104.15	3.5		0.34
75-65-0	t-Butyl alcohol	74.12	ND		0.97
127-18-4	Tetrachloroethene	165.83	18		0.54
108-88-3	Toluene	92.14	7.1		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	1.7	J	0.45
75-01-4	Vinyl chloride	62.50	ND		0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		60-140

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

Lab Name: TestAmerica Knoxville

Job No.: 140-5852-1

SDG No.:

Client Sample ID: AMBIENT AIR

Lab Sample ID: 140-5852-14

Matrix: Air

Lab File ID: GI21P114.D

Analysis Method: TO 15 LL

Date Collected: 09/15/2016 13:42

Sample wt/vol: 500(mL)

Date Analyzed: 09/22/2016 03:11

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.: 6625

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	1.1	J	0.20
71-43-2	Benzene	78.11	0.18		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	0.092		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	0.44		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.: 140-5852-1
 SDG No.:
 Client Sample ID: AMBIENT AIR Lab Sample ID: 140-5852-14
 Matrix: Air Lab File ID: GI21P114.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:42
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 03:11
 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.: 6625 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	4.6	J	0.82
71-43-2	Benzene	78.11	0.57		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	0.58		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	0.91		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

Newville

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

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Lab Name: TestAmerica Knoxville Job No.: 140-5852-1
 SDG No.: _____
 Client Sample ID: AMBIENT AIR Lab Sample ID: 140-5852-14
 Matrix: Air Lab File ID: GI21P114.D
 Analysis Method: TO 15 LL Date Collected: 09/15/2016 13:42
 Sample wt/vol: 500(mL) Date Analyzed: 09/22/2016 03:11
 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.: 6625 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	3.0	J	0.40
64-17-5	Ethanol	46.07	11	J	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	0.87		0.70
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.58
75-09-2	Methylene Chloride	84.93	5.1		0.69
179601-23-1	m-Xylene & p-Xylene	106.17	0.73		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	2.3		0.54
108-88-3	Toluene	92.14	2.2		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	1.7	J	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