

2016-2017 Monitoring Report: NYSDEC BCP Site #C828159

Location:

690 Saint Paul Street
Rochester, New York 14605

Prepared for:

Genesee Valley Real Estate Company, LLC
First Federal Plaza
28 East Main Street, Suite 500
Rochester, New York 14614

LaBella Project No. 209280

August 18, 2017

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1.0 INTRODUCTION

LaBella Associates, D.P.C. (LaBella) is pleased to submit this 2016-2017 Annual Monitoring Report for the property located at 690 Saint Paul Street, City of Rochester, Monroe County, New York, herein after referred to as the "Site". The Site is associated with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Site (BCP) Site #C828159. A site Location Map is included as Figure 1.

LaBella was retained by Genesee Valley Real Estate Company, LLC to assist in the monitoring and reporting requirements associated with the Sub-Slab Depressurization System (SSDS) and indoor air sampling associated with BCP Site #C828159.

This report has been prepared in accordance with:

- Interim Site Management Plan: Sub-Slab Depressurization System (Interim SMP: SSDS) dated January 2010, Last Updated July 2013
- Modification to Remedial Design Work plan: AOC #8, C828159-390 St Paul Street, Rochester, New York 14605 dated October 5, 2015
- Contingency Plan Associated with Decrease in Sampling Frequency, Sub-Slab Depressurization System, 690 Saint Paul Street, Rochester, New York, NYSDEC BCP Site #C828159 dated November 25, 2013 and NYSDEC response letter dated December 30, 2013, 690 St. Paul Street, Site #C828159, Remedial Investigation Report Schedule Modification, City of Rochester, Monroe County

The summary of the annual monitoring of the Sub-Slab Depressurization System (SSDS) and indoor air monitoring is summarized below.

2.0 INDOOR AIR MONITORING

The following monitoring work associated with the indoor air monitoring was completed during 2016 and 2017:

Building 14B

- indoor air quality sampling events on February 17, 2016, April 4, 2016, April 18, 2017, and June 5, 2017
- verification that the sub-slab depressurization system is operational on February 17, 2016, April 18, 2017, and June 5, 2017
- monitoring of pressure field extension points on February 17, 2016 and April 18, 2017
- compilation of historic data for 2016 and 2017 testing results

Building 16

- indoor air quality sampling event on April 18, 2017
- compilation of 2017 testing results

Building 22

- indoor air quality sampling events on February 25, 2016 and April 18, 2017
- compilation of historic data for 2016 and 2017 testing results

2.1 Indoor Air Sampling

2.1.1 Sampling Locations

Building 14B

For each indoor air quality sampling event conducted on February 17, 2016, April 18, 2017, and June 5, 2017, the air samples were generally collected from Room 107 (nurses' suite), Room 112, Room 117 and Room 134 from inside the first floor of Building 14B. One sample was also collected from within the freight elevator in Building 14A (adjacent to Room 107C). It should be noted that the interior of the elevator is open to the shaft, allowing the interior sample to be representative of the elevator shaft. The attached Figure 2 depicts the sampling locations. An outside air sample was also collected from the roof of Building 14B near the air intake unit for the building. Additionally, a duplicate sample and one Matrix Spike/Matrix Spike Duplicate (MS/MSD) sample were collected during the sampling events.

The following variations from the sampling events are noted below:

- The elevator location was re-sampled on April 4, 2016 based on elevated detection of TCE in the air sample from this location collected on February 17, 2016. At the time of the February 17, 2016 sampling event, investigative derived waste was being disposed of and was likely the cause of the elevated TCE detection.
- The stairwell adjacent to Room 112 (refer to Figure 2 "109 SW STAIR") was sampled in place of Room 112 on April 18, 2017. Room 112 was not accessible at the time of the sampling event.
- On May 3, 2017 an air sample was collected from the groundwater pump and treat room to confirm the presence of TCE impacts to indoor air. This sample detected TCE at a concentration of 73 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).
- For the June 5, 2017 sampling event only, an additional air sample was collected from Room 126 at the request of the NYSDEC.

Building 16

The indoor air samples were collected on April 18, 2017. Samples were collected from the approximate interior center of the space occupied by a machine shop and one ambient air exterior sample from an upwind location. The attached Figure 2 depicts the sampling locations.

Building 22

The indoor air samples were collected on February 25, 2016 and April 18, 2017. Samples were collected from the approximate interior center of the space occupied by Geva Theater and one ambient air exterior sample from an upwind location. The attached Figure 2 depicts the sampling locations.

2.1.2 Indoor Air Sample Results

Air samples were sent under chain of custody procedures to Centek Laboratories, LLC of Syracuse, New York, a National Environmental Laboratory Accreditation Conference (NELAC) certified laboratory. The air samples were tested for the following:

TABLE 2.12A
Summary of Laboratory Analyses

Building	Laboratory Analysis
Building 14B	VOCs using USEPA Method TO-15
Building 16	Chloroethane , Trichloroethene, Cis-1,2-dichloroethene, 1,1-Dichloroethene , Trans-1,2-dischloroethene, Vinyl chloride using USEPA Method TO-15
Building 22	

The results of the sampling events are presented in tables included in Attachment A. An Analytical Services Protocol (ASP) Category B Deliverables data packages were provided and are included as Attachment B (pdf version on a CD-R). Data Usability Summary Reports (DUSRs) were also completed on the laboratory data packages, and are included as Attachment B. Overall the laboratory data was deemed usable with some minor changes. The minor changes (i.e., data qualifiers) are included in the summary tables in Attachment B.

These tables also include the USEPA Building Assessment and Survey Evaluation (BASE) Database – 90th Percentile for comparison purposes. The USEPA BASE was a study completed by the USEPA from 1994-1996. The BASE included measurement of VOCs in indoor and outdoor air at 100 randomly selected public and commercial office buildings across the United States. The study excluded any buildings with highly publicized indoor air quality complaints; therefore, data from the study should be representative of conventional office buildings.

In addition to the USEPA BASE Database 90th Percentile, for compounds with an established NYSDOH Air Guideline as found in Table 3.1 of the 2006 NYSDOH guidance (e.g. trichloroethene, tetrachloroethene, and methylene chloride) these values (as amended in 2013 for PCE and 2015 for TCE) were utilized in the data summary tables in Attachment A in favor of the USEPA BASE Database – 90th Percentile value.

A comparison of the sampling event results to the NYSDOH Air Guidelines and the USEPA BASE Database 90th Percentile value indicates the following.

TABLE 2.1.2B
Building 14B Summary of Air Sample Results

Sample Location	Sample Date							
	February 17, 2016		April 4, 2016 ²		April 18, 2017		June 5, 2017 ⁴	
	Result above USEPA Database - 90th Percentile	Result above NYSDOH Air Guidelines	Result above USEPA Database - 90th Percentile	Result above NYSDOH Air Guidelines	Result above USEPA Database - 90th Percentile	Result above NYSDOH Air Guidelines	Result above USEPA Database - 90th Percentile	Result above NYSDOH Air Guidelines
Room 107B	Chloroform	None	Not Applicable	Not Applicable	Chloroform	TCE	None	None
Room 112	Chloroform	None	Not Applicable	Not Applicable	Not Applicable ³	Not Applicable ³	None	None
Room 117	Chloroform	None	Not Applicable	Not Applicable	Cis-1,2-DCE	TCE	None	None
Room 134	Chloroform	None	Not Applicable	Not Applicable	None	None	None	None
Elevator (Bldg 14A)	None	TCE	None	None	Chloroform	None	Acetone	None
Roof (Exterior)	None	None	Not Applicable	Not Applicable	Chloroform	None	None	None
Room 126 ¹	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	None	None
Stairwell ³	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Cis-1,2-DCE	TCE	Not Applicable	Not Applicable

Note:

¹ Room 126 was sampled only on June 5, 2017 at the request of the NYSDEC.

² April 4, 2016 sampling event only included Building 14B elevator location due to a previous exceedance of TCE detected in the February 17, 2017 sampling event. The elevated concentration of TCE was attributed to investigative derived waste (refer to Section 2.1.1) stored in close proximity to the sample location. The investigative derived waste was removed prior to the April 4, 2016 resampling of the "Elevator" location.

³ Room 112 was not sampled during the April 18, 2017 event, as it was not accessible. As such, a sample was collected from the adjacent stairwell space.

⁴ The June 5, 2017 sampling event was conducted based on the exceedance of TCE at three sample locations during the April 18, 2017 sampling event. The elevated concentrations of TCE were attributed to off-gassing from the groundwater pump and treatment system located in the adjacent room in Building 14A (see Figure 2). The groundwater pump and treatment system was shut down and mitigation measures were installed in the groundwater pump and treatment system room to prevent future off gassing of chemicals of concern into the occupied building spaces.

TABLE 2.1.2C
Building 16 Summary of Air Sample Results

Sample Location	Sample Date	
	April 18, 2017	
	Result above USEPA Database - 90th Percentile	Result above NYSDOH Air Guidelines
Building 16 Inside	None	None
Outdoor	None	None

Note: Building 16 was not sampled in 2016

TABLE 2.1.2D
Building 22 Summary of Air Sample Results

Sample Location	Sample Date			
	February 25, 2016		April 18, 2017	
	Result above USEPA Database - 90th Percentile	Result above NYSDOH Air Guidelines	Result above USEPA Database - 90th Percentile	Result above NYSDOH Air Guidelines
Building 22 Inside	None	None	None	None
Outdoor	None	None	None	None

3.0 SUB-SLAB DEPRESSURIZATION SYSTEM

On February 17, 2016 and April 18, 2017, all systems were observed to be operating properly. Refer to the attached SSDS Inspection Forms included in Appendix C. Additional details on the recent performance of the SSDS are provided below along with changes that have been made to the system since its initial operation.

The system originally consisted of two separate systems (East and West). The effectiveness of these systems has been monitored via the accessible ten (10) small diameter holes (monitoring points MP-1 through MP-9 & MP-11). *[Note: Monitoring point MP-10 was located in the central portion of room #134 and was covered with carpet and thus not accessible after the initial sampling event.]* It should be noted that at the time of sampling MP-11 was covered by heavy furniture which could not be moved. Attachment C includes a table that presents the historical pressure readings obtained from each monitoring point. As indicated in this table, MP-5 and MP-6 (located in the southwest corner of Building 14B and in proximity to a void space under the southwest stairwell) had shown positive pressure in 2010 and 2011. A pilot test conducted in September 2011 demonstrated that connecting a system to vent this void space would produce negative pressure readings in MP-5 and MP-6 and thus, influence sub-slab pressure. However, monitoring points MP-7 and MP-8 only indicated marginal influence and thus it was discussed that a separate vent system would be necessary in this area to enhance vacuum in the area of MP-7 and MP-8.

In accordance with Section 6.4 of the ISMP: SSDS additional SSDS vent points and associated fans were proposed in a Corrective Measures Plan dated February 1, 2012 to further enhance the influence of the SSDS in the southwest portion of the building. The system was designed in accordance with the New York State Department of Health (NYSDOH) Final Guidance for Soil Vapor Intrusion in the State of New York dated October 2006. The system enhancements included installing two additional vertical points in the wall recesses of Rooms 114/115 and 115/117 and connecting these to a separate vent fan (identified as Vent System #3) and completing the void space venting system (identified as Vent System #4). Based on the initial vacuum readings, a deviation from the Corrective Measures Plan was made to increase the fan sizes. Specifically, Vent System #3 currently utilizes a Radonaway Model GP-501 fan and Vent System #4 currently utilizes a Radonaway Model RP-265 fan. Additional details on the installation of this system can be found in the revised ISMP dated October 2012.

The installation of the additional vent systems was initiated on February 20, 2012 and was completed on April 18, 2012. Pressure readings collected from monitoring points MP-5 and MP-6 from the time the additional vent system came online until June 2012 indicated a gradual change from equilibrium (i.e., 0.000 inches of water column ("WC)) to negative values.

An SSDS was installed in Building 22 in June 2015. It should be noted that the system was installed in the southern, occupied portion of Building 22; the northern portion of the building is currently utilized by the property owner for storage. The system is constructed with two (2) sets of three (3) vertical drops, each connecting to one (1) fan, as depicted on attached Figure 4. Two (2) PFE points were installed in Building 22 to monitor sub-slab pressures. As of October 2015, these points have not indicated that negative pressure is being sustained beneath the floor slab as a result of the SSDS operation. As such, annual indoor air monitoring is being completed in the occupied portion of Building 22 until the SSDS is properly operating or when approval is obtained from the NYSDEC to cease monitoring or modify the monitoring frequency.

3.1 Sub-Slab Depressurization System Maintenance

The following maintenance was completed on the SSDS for 2016 and 2017:

- SSDS Fan #1 was observed not to be operational on February 23, 2017. The building owner was notified that Fan #1 was not working and a new fan was installed at an unknown date. Fan #1 was observed to be operating on April 13, 2017.

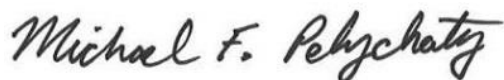
4.0 CERTIFICATION

The SSDS is in place and performing with a few exceptions as noted above. As discussed above, corrective measures were implemented to enhance the performance/influence of the overall SSDS.

If you have any questions, or require additional information, please do not hesitate to contact me at (585) 295-6253.

Sincerely,

LABELLA ASSOCIATES, D.P.C.

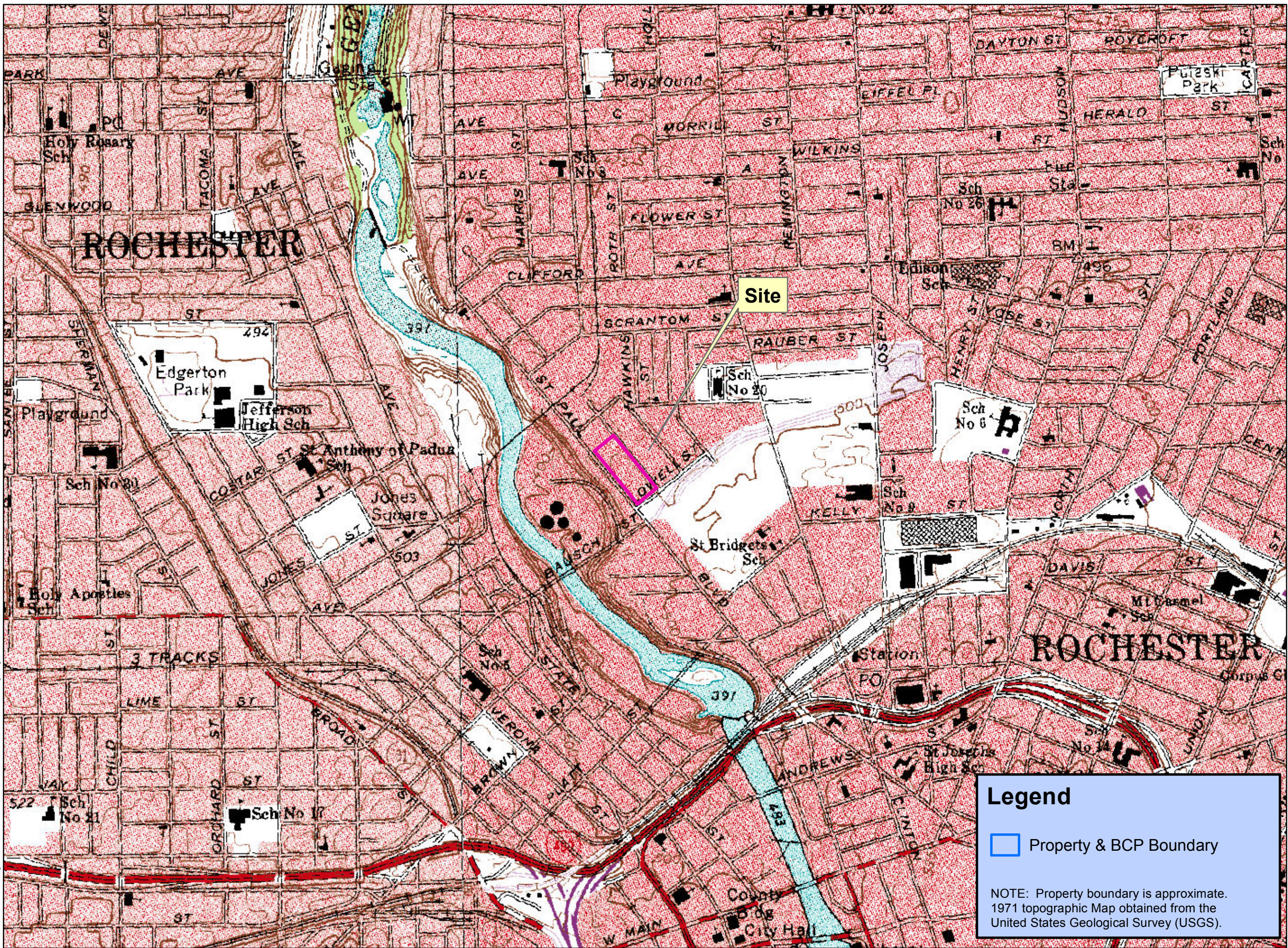


Michael F. Pelychaty, P.G.
Environmental Geologist

cc: Dante Gullace – GVRE (e-copy only)
Chris Gullace – GVRE (e-copy only)
Bridget Boyd – NYSDOH (e-copy only)
Stacie Darbey – RCSD (e-copy only)
John Frazer – MCDOH (e-copy only)

FIGURES

I:\Barotti Woodworking, Inc\213211 - 1445 Jefferson Rd, Phase II, ESA\Drawings\Figure2.mxd

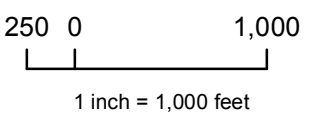
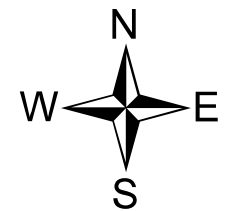


SITE LOCATION MAP

**BROWNFIELD CLEANUP
PROGRAM**

**690 SAINT PAUL STREET
ROCHESTER, NEW YORK**

**VOLUNTEER:
GENESEE VALLEY
REAL ESTATE COMPANY**



Legend

 Property & BCP Boundary

NOTE: Property boundary is approximate.
1971 topographic Map obtained from the
United States Geological Survey (USGS).

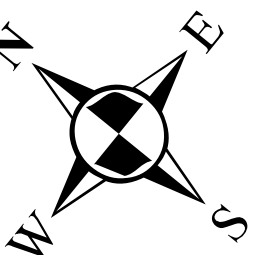
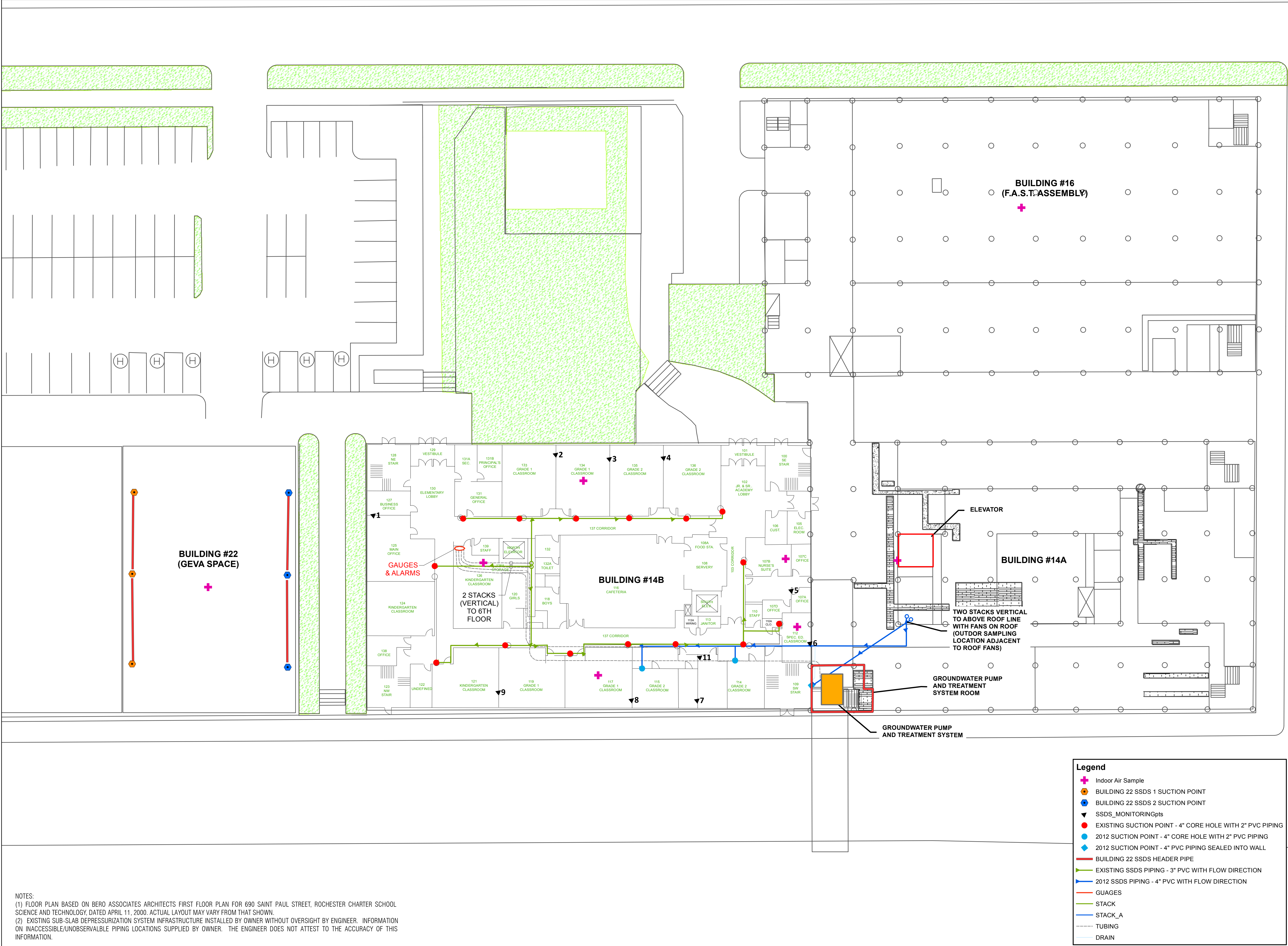
**INDOOR AIR SAMPLING
LOCATIONS**

ANNUAL MONITORING REPORT

**BROWNFIELD CLEANUP
PROGRAM**

**690 SAINT PAUL STREET
ROCHESTER, NEW YORK**

**VOLUNTEER:
GENESEE VALLEY
REAL ESTATE COMPANY**



0 10 20 40 Feet
1 inch = 20 feet

INTENDED TO PRINT ANSI D
DATE: 8/17/2017

209280

FIGURE 2

APPENDIX A

SUMMARY TABLES OF INDOOR AIR SAMPLING RESULTS

Building 22

Sample Sets Collected: 2

Compound	USEPA (2001) (BASE) Database - 90th Percentile	90th Percentile of Indoor Air Data	Mean	St Deviation	Range (Minimum)	Range (Maximum)	2/25/2016	4/18/2017
1,1-Dichloroethene	9.4	0.59	0.59	0.00	0.59	0.59	0.59 U	0.59 U
Chloroethane	<1.1	0.4	0.40	0.00	0.40	0.40	0.40 U	0.40 U
trans-1,2-Dichloroethene	1.1	0.59	0.59	0.00	0.59	0.59	0.59 U	0.59 U
Trichloroethene	2*	0.59	0.59	0.00	0.59	0.59	0.59 U	0.59 U
Vinyl Chloride	<1.8	0.21	0.21	0.00	0.21	0.21	0.21 U	0.21 U
Total VOCs			0.10	0.00	0.10	0.10	0.1 U	0.1 U

Notes:

* Asterik indicates the value listed is the New York State Department of Health (NYSDOH) Air Guideline established in Table 3.1 of the NYSDOH Guidance titled "Evaluating Soil Vapor Intrusion in the State of New York", October 2006 and ammendments for PCE in 2013 and TCE in 2015. The USEPA BASE Database (see below) was also provided for typical background for commercial buildings in order to evaluate compounds not listed in the Table 3.1 of the NYSDOH Guidance.

- Results reported in ug/m3

- USEPA Building Assessment and Survey Evaluation (BASE) Database (90th Percentile). As recommended in Section 3.2.4 of the NYSDOH Guidance (Refer to Footnote "1") this database is referenced for the indoor air sampling results. This database is also referenced to provide initial benchmarks for comparison to the air sampling data and does not represent regulatory standards or compliance values.

- **Bold** denotes value is greater than the NYSDOH Air Guideline (see above) or if there is no NYSDOH Air Guideline then the value is greater than the USEPA BASE Database 90th Percentile, see above.

- U qualifier denotes laboratory identified as 'non-detect' at the detection limit shown.

- R qualifier denotes data felt to be unreliable and therefore rejected

- Compounds listed represent sub-set of complete list of VOCs tested (USEPA TO-15)

- 90th Percentile of Indoor Air Data calculated based on the following Microsoft Excel formula: ROUND((90/100*number of data points+0.5),0)

- Mean, Standard Deviation, and Range are inclusive of all analytical results including "non-detect" concentrations (as qualified by "U" qualifier). Non-detect concentrations were determined by using the reported laboratory method detection limit provided by the analytical laboratory.

Tables

690 Saint Paul Street, Rochester, New York
NYSDEC BCP ID No. C828159

Building 16

Sample Sets Collected: 1

Compound	USEPA (2001) (BASE) Database - 90th Percentile	90th Percentile of Indoor Air Data	Mean	St Deviation	Range (Minimum)	Range (Maximum)	4/18/2017
1,1-Dichloroethene	9.4	0.59	NA	NA	NA	NA	0.59 UJ
Chloroethane	<1.1	0.4	NA	NA	NA	NA	0.40 UJ
trans-1,2-Dichloroethene	1.1	0.59	NA	NA	NA	NA	0.59 UJ
Trichloroethene	2*	0.59	NA	NA	NA	NA	0.59 UJ
Vinyl Chloride	<1.8	0.48	NA	NA	NA	NA	0.48 J
Total VOCs			NA	NA	NA	NA	0.1 UJ

Notes:

* Asterik indicates the value listed is the New York State Department of Health (NYSDOH) Air Guideline established in Table 3.1 of the NYSDOH Guidance titled "Evaluating Soil Vapor Intrusion in the State of New York", October 2006 and ammendments for PCE in 2013 and TCE in 2015. The USEPA BASE Database (see below) was also provided for typical background for commercial buildings in order to evaluate compounds not listed in the Table 3.1 of the NYSDOH Guidance.

- Results reported in ug/m3
- USEPA Building Assessment and Survey Evaluation (BASE) Database (90th Percentile). As recommended in Section 3.2.4 of the NYSDOH Guidance (Refer to Footnote "1") this database is referenced for the indoor air sampling results. This database is also referenced to provide initial benchmarks for comparison to the air sampling data and does not represent regulatory standards or compliance values.
- **Bold** denotes value is greater than the NYSDOH Air Guideline (see above) or if there is no NYSDOH Air Guideline then the value is greater than the USEPA BASE Database 90th Percentile, see above.
- U qualifier denotes laboratory identified as 'non-detect' at the detection limit shown.
- R qualifier denotes data felt to be unreliable and therefore rejected
- Compounds listed represent sub-set of complete list of VOCs tested (USEPA TO-15)
- 90th Percentile of Indoor Air Data calculated based on the following Microsoft Excel formula: ROUND((90/100*number of data points+0.5),0)
- Mean, Standard Deviation, and Range are inclusive of all analytical results including "non-detect" concentrations (as qualified by "U" qualifier). Non-detect concentrations were determined by using the reported laboratory method detection limit provided by the analytical laboratory.
- NA denotes Not Applicable

Tables

690 Saint Paul Street, Rochester, New York
NYSDEC BCP ID No. C828159

Building 14A Elevator

Sample Sets Collected: 13

Compound	USEPA (2001) (BASE) Database - 90th Percentile	90th Percentile of Indoor Air Data	Mean	St Deviation	Range (Minimum)	Range (Maximum)	Elevator Interior - July 24, 2012	1st Floor Elevator Exterior - July 24, 2012	4th Floor Elevator Exterior - July 24, 2012	Elevator Interior - Nov. 12, 2012	Elevator Interior - March 21, 2013	June 27, 2013	1st Floor Elevator - September 20, 2013	Elevator - January 28, 2014	Elevator - January 27, 2015	Elevator - February 17, 2016	Elevator (IN-01)- April 4, 2016	4/18/2017	6/5/2017
1,1,1-Trichloroethane	20.6	0.83	0.83	0.00	0.82	0.83	0.55 J	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-Trimethylbenzene	9.5	7	3.02	3.41	0.74	12.00	5.8	1.1 U	2.4	0.9	1.8 J	12	3.7	1.8 J	0.74 U	1.1 U	4.7 J	1.1 U	7.3
1,3,5-Trimethylbenzene	3.7	3.3	1.44	0.98	0.74	3.90	2.5	1.3	0.95	0.75 U	0.75 U	3.9	1.8	0.75 J	0.74 U	1.8	1.7 J	0.59 J	3.5
Acetone	98.9	76.4	30.27	17.89	7.70	54.00	82	45	46	41	11	47	22	54 J	7.7	17 J	12 J	18 J	100
Benzene	9.4	1.89	1.33	0.73	0.49	2.70	1.6	1.8	0.88	0.52	1.5	1.50	0.75	0.49 U	1.8	2.7	2.0 J	1.3	1.9
Chloroethane	<1.1	0.4	0.40	0.00	0.40	0.40	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	1.1	9.22	7.59	15.24	0.74	50.00	0.74 U	0.74 U	0.74 U	0.74 U	10	0.74 U	0.74	59 J	5.1	6.1	1 J	1.3	0.59
Chloromethane	3.7	1.66	0.97	0.42	0.31	1.70	1.0	0.90	0.90	0.31 U	0.31 U	1.30	1	1.2 J	0.99	1.1	1.7 J	1.5	1.9
cis-1,2-Dichloroethene	<1.9	1.206	0.88	0.68	0.44	2.70	0.60 U	0.60 U	0.60 U	0.60 U	0.77	2.70	0.60 U	0.64 J	0.59 U	1.3	0.44 J	0.83	0.59 U
Cyclohexane	NL	1.64	0.87	0.39	0.52	1.70	3.9	1.2	1.0	0.52 U	0.52 U	1.7	0.52 U	0.52 U	0.69	1.1	0.93 J	0.48 J	1.4
Ethylbenzene	5.7	1.72	1.32	1.05	0.66	4.10	1.3	1.4	0.66	0.66 U	0.75	4.1	0.66	1.0 J	0.96	1.8	1.2 J	0.69	1.2
Heptane	NL	3.28	2.64	3.70	0.62	13.00	3.4	1.5	1.0	0.62 U	0.83	2.8	1.7	13.0 J	1.2	1.8	1.9 J	0.78	1.4
Isopropyl Alcohol	NL	30	8.78	10.19	0.37	34.00	12 J	14 J	4.4 J	14	0.37 U	9.5	0.37 U	34 J	5.1 J	4.3 J	1.8 J	5	100
m&p-Xylene	22.2	6.36	4.83	4.87	0.93	18.00	5.0	4.5	2.3	0.93 J	2.6	18	3.2	3.7 J	2.5	6.7	3.9 J	2.5	5
Methyl Ethyl Ketone	NL	5.28	2.33	1.37	0.88	5.40	4.8	5.4	3.0	1.4 J	0.90 U	3.1	2.2	2.7 J	0.88 U	2.5 J	1.2 U	1.6 J	9.4
Methyl Isobutyl Ketone	NL	1.2	1.13	0.21	0.58	1.20	0.50 J	0.58 J	1.2 U	1.20 U	1.2 U	1.2 U	NA R	1.2 U	1.2 U	1.2 U	1.2 U	0.57 J	0.78
Methylene Chloride	60*	6.92	2.85	2.64	0.53	7.00	5.4	7.0	2.7	0.95	5.6	7.0	0.53	0.95 J	0.73	1.8 J	1.2 J	1.2 J	6.6
o-Xylene	7.9	2.52	1.78	1.36	0.66	5.30	2.2	2.0	1.1	0.66 U	0.93	5.3	1.2	1.5 J	0.96	2.6	1.5 J	0.96	2
Tetrachloroethylene	30*	1.24	2.10	3.48	0.68	12.00	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	12.0 J	1.3	1.0 U	1.0 U	1 U	0.68 J	1 U	1 U
Toluene	43.0	11.6	6.86	3.73	1.60	13.00	9.6	13	4.9	1.6	4.0	12	10	4.5 J	5.8	7.9 J	4.9 J	3.4	7.5
Trichloroethene	2*	1.52	1.12	0.91	0.38	3.60	0.66 J	0.38 J	0.82 U	0.98	0.66	1.2 J	0.87	0.98 J	0.59	3.6	1.1 J	0.91	1.6
Total VOCs			81.84	47.02	34.12	175.16	144.95	104.63	77.78	70.57	46.72	148.27	54.37	175.16	34.12	64.1	42.65	41.54	243.48
BTEX & Trimethylbenzenes			18.88	14.99	0.00	55.30	28	25.1	13.19	6.02	0	55.3	20.56	13.25	12.02	23.5	19.9	10.54	28.4

Notes:

* Asterik indicates the value listed is the New York State Department of Health (NYSDOH) Air Guideline established in Table 3.1 of the NYSDOH Guidance titled "Evaluating Soil Vapor Intrusion in the State of New York", October 2006 and ammendments for PCE in 2013 and TCE in 2015. The USEPA BASE Database (see below) was also provided for typical background for commercial buildings in order to evaluate compounds not listed in the Table 3.1 of the NYSDOH Guidance.

- Results reported in ug/m3

- USEPA Building Assessment and Survey Evaluation (BASE) Database (90th Percentile). As recommended in Section 3.2.4 of the NYSDOH Guidance (Refer to Footnote "1") this database is referenced for the indoor air sampling results. This database is also referenced to provide initial benchmarks for comparison to the air sampling data and does not represent regulatory standards or compliance values.

- Bold denotes value is greater than the NYSDOH Air Guideline (see above) or if there is no NYSDOH Air Guideline then the value is greater than the USEPA BASE Database

- 90th Percentile, see above.

- U qualifier denotes laboratory identified as 'non-detect' at the detection limit shown.

- R qualifier denotes data felt to be unreliable and therefore rejected

- Compounds listed represent sub-set of complete list of VOCs tested (USEPA TO-15)

- 90th Percentile of Indoor Air Data calculated based on the following Microsoft Excel formula: ROUND((90/100*number of data points+0.5),0)

- Mean, Standard Deviation, and Range are inclusive of all analytical results including "non-detect" concentrations (as qualified by "U" qualifier). Non-detect concentrations were determined by using the reported laboratory method detection limit provided by the analytical laboratory.

Total Samples Collected: 57

Room 117	USEPA (2001) (BASE)	90th Percentile of Indoor Air Data																															
	Database - 90th Percentile	5/6/2010	6/1/2010	6/29/2010	7/26/2010	7/26/2010	10/8/2010	12/28/2010	2/17/2011	6/30/2011	8/8/2011	12/28/2011	3/30/2012	6/19/2012	7/24/2012	7/24/2012	11/12/2012	11/12/2012	3/21/2013	3/21/2013	6/27/2013	9/20/2013	9/20/2013	1/28/2014	1/28/2014	1/27/2015	1/27/2015	2/17/2016	2/17/2016	4/18/2017	4/18/2017	6/5/2017	
1,1,1-Trichloroethane	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	
1,2,4-Trimethylbenzene	9.5	5.86	4.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
1,3,5-Trimethylbenzene	9.7	2.78	1.1	0.75	0.95	2.9	3.3	1.4	1.4	2.6	2.7	2.10	0.7	0.50	1	3.5	0.75	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Acetone	38.9	98.20	59	34	34	110	87	46	58	85	120	110	35	20	66	140	210	142	52	21	5.7	1.6	2.3	25	6.60	9	46	0.9	0.74	0.4	0.4	0.4	0.4
Benzene	1.68	0.45	0.39	0.29	0.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
Chloroethane	<1.1	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
Chloroform	1.1	6.82	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	
Chloroethanol	3.7	0.78	1.1	0.76	0.31	0.1	0.31	0.1	0.1	0.31	0.1	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	
cis-1,2-Dichloroethane	<1.30	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	
Cyclohexane	1.66	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
Ethylbenzene	5.7	1.16	0.93	0.66	1.1	3.4	3.9	5.9	2.0	1.7	4.2	2.1	3.0	0.88	0.62	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
Heptane	4.58	4.18	1.4	2.3	1.5	4.5	4.7	2.6	3.3	5.1	2.4	6.5	4.0	4.5	0.92	0.75	0.92	0.62	0.53	1.2	1.2	0.71	0.71	0.87	0.43	0.48	0.65	0.65	0.65	0.65	0.65	0.65	
Isopropyl Alcohol	31	102.14	31	11	30	58	47	30	49	58	12	102.14	30	49	58	12	102.14	30	49	58	12	102.14	30	49	58	12	102.14	30	49	58	12	102.14	30
m,p-Xylene	22.2	6.58	3.1	1.3	2.2	8.9	9.6	6.3	5.6	12	7.0	9.2	3.2	2.0	5.3	4.4	4.6	2.1	3.4	1.8	0.79	1.1	5.3	5.3	2.3	2.8	2.1	1.1	1.0	0.65	0.61	1.5	
Methyl Ethyl Ketone	N/A	5.30	1.6	0.90	2.9	1.2	2.6	3.1	0.90	0.90	5.1	1.2	1.3	1.3	6.3	9.9	2.8	3.1	3.1	2.2	1.2	0.90	2.8	3.1	3.1	1.2	1.3	1.0	0.83	1.6	1.4	1.5	2.2
Methyl Isobutyl Ketone	12.2	1.2	0.7	1.0	1.2	1.2	1.2	1.0	1.2	1.2	1.3	1.2	1.2	1.2	0.83	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
Methylene Chloride	0.26	1.1	0.5	1.1	5.7	1.9	5.8	1.5	5.7	1.9	5.8	1.5	5.7	1.9	5.8	1.5	5.7	1.9	5.8	1.5	5.7	1.9	5.8	1.5	5.7	1.9	5.8	1.5	5.7	1.9	5.8	1.5	5.7
n-Pentane	7.9	2.63	1.5	0.52	1	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5
Trichloroethylene	30*	1.51	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Toluene	43.0	13.40	6.9	3.4	4.5	1.8	150	8.8	10	15	3.6	4.0	12	11	14	7.1	13	2.3	1.1	5.2	16	10	2.4	2.4	7.2	1.5	3.4	1	1	0.83	0.83	6.8	
Trichloroethene	2*	3.26	1.1	0.22	0.44	0.38	3.8	1.7	3.8	1.7	3.8	1.7	3.8	1.7	3.8	1.7	3.8	1.7	3.8	1.7	3.8	1.7	3.8	1.7	3.8	1.7	3.8	1.7	3.8	1.7	3.8	1.7	3.8
Total VOCs		119.1	77.6	85.04	249.51	333.13	150.25	159.5	164.44	283.66	232.13	79.86	67.25	153.21	295.54	433.84	86.44	108.09	65.85	21.09	84.48	125.96	78.71	88.47	106.55	21.4	28.6	35.7	29.92	58.36	44.83	438.02	
BTEX & Trimethylbenzenes		17.53	7.78	10.85	48.2	17.17	26.5	26.9	39.6	27.5	39.6	14.2	23.57	8.44	5.33	28.85	14.2	23.57	8.44	5.33	11.18	32.1	26.1	9.41	10.51	13.63	6.3	9.3	6.58	3.35	10.61		

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NYSDEC BCP ID No. C828159
LaBella Project No. 209280

Total Samples Collected: 52

Room 134	USEPA #0013 (BASE) Database - 90th Percentile	90th Percentile of Indoor Air Data	10/29/2009	11/18/2009	12/21/2009	1/27/2010	3/1/2010	3/30/2010	5/6/2010	6/1/2010	6/29/2010	7/26/2010	10/8/2010	12/28/2010	2/17/2011	6/30/2011	8/8/2011	12/28/2011	3/30/2012	6/19/2012	7/24/2012	11/12/2012	3/21/2013 NOT VALIDATED	6/27/2013	6/27/2013	9/20/2013	1/28/2014	1/27/2014	2/17/2016	4/18/2017	6/5/2017
1,1,1-Trichloroethane	20.6	0.832	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	1.4	0.83 U	0.83 U	0.83	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	1.3	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.82 U	0.82 U	0.82 U	
1,2,4-Trimethylbenzene	9.5	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.2	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.1	0.75	0.75	0.75	0.75	0.75	0.75	0.74 U	0.74 U	0.74 U	
1,3,5-Trimethylbenzene	3.7	2.825	0.75 U	0.65	0.75 U	1	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	2.6	1.2	1.5	2.2	2.1	0.75 U	0.75 U	0.75 U	1.6	0.75 U	0.7	0.75 U	0.75 U	0.75 U	0.75 U	0.74 U	0.74 U	0.74 U	0.74 U	
Acetone	98.9	50.53	17	9.9	13	20	20	14	29	35	33	110	41	60	70	220	48	17	21	41	230	48	21	49	42	32	31	10	14	22	40
Benzene	9.4	1.769	0.68	0.81	0.39	0.75	0.49	0.45 J	0.32 J	0.49 U	0.36 J	1.4	1.1	1.8	2.7	1.2	0.49 U	0.97	0.81	0.52	1.1	0.62	0.84	0.45 J	0.42 J	1	1	0.83	1.3	0.38 J	0.57
Chloroethane	<1.1	0.402	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Chloroform	1.1	2.888	0.74 U	0.74 U	0.74 U	2.3	0.74 U	0.74 U	0.74 U	0.74 U	0.99	3.4	0.79	0.91	0.91	0.74	0.9	2.9	0.50 U	3.4	0.74	2.1	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U
Chlorobenzene	3.7	1.2	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	1.8	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	1.2	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
cis-1,2-Dichloroethene	<1.9	0.981	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	1.2	0.81	0.69	0.6	0.6	0.6	0.56 J	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Cyclohexane	NL	0.937	0.52 U	0.52 U	0.52 U	0.59	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Ethylbenzene	5.7	2.812	0.49	0.66 U	0.66 U	0.44	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	2.7	1.3	1.5	3.9	1.7	0.66 U	0.57 J	0.66 U	0.66 U	1.1	0.49 J	0.66 U	0.49 J	0.66 U	0.84	0.66 U	0.65 U	0.65 U	0.65 U	0.65 U
Heptane	NL	3.06	0.62 U	0.75	0.62 U	0.75	0.62 U	0.62 U	0.62 U	0.54 J	1.5	0.83	3.7	2.4	2.5	2.7	0.62 U	1	2.5	0.62 U	4.3	0.54 J	1.3	0.67	1	5.4	2.5	0.66	3.1 J	1.8	1.4
Isopropyl Alcohol	NL	64.75	14	8.2	14	23	7.1	8.2	19	17	24	49	64	38	35	220	48	17	21	41	230	48	21	49	42	32	31	10	14	22	40
m,p-Xylene	10.605	1.3	0.49	0.49	0.49	1.3	0.71 J	1.3	1.7	1.7	1.7	5.6	4.3	5.7	1.5	1.6	0.97 J	1.2	1.6	1.6	1.4	0.97	1.2	1.6	1.4	0.97	1.2	1.6	1.4	0.97	1.2
Methyl Ethyl Ketone	NL	5.616	0.84	0.66	0.93	1.2	0.69	0.75 J	0.96	1.5	0.81 J	5.4	2.5	1.5	3.2	6.7	0.9 U	1.8	5.8 J	3.7	8.7 J	21 J	1.3	2.4	2.1	2.7	0.87	0.88 U	1.2 U	1.2 U	1.2 U
Methyl Isobutyl Ketone	NL	2.17	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Methylene Chloride	60*	4.379	0.6	0.67	0.53	0.99	0.67	1.0	0.42 J	0.81	0.81	33	4.1	5.1	4.5	4.7	0.53 U	3.2	2.6	1.4	3.1	0.92	1.7	0.64	0.6	0.67	0.6	1.4	1.6	1.1	4.7
o-Xylene	7.9	3.253	0.53	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	3.1	1.6	2.4	4.9	1.9	0.66 U	0.79	0.67	0.57	1.7	0.71	0.49 J	0.66 U	0.66 U	1.3	0.44	0.65 U	0.62	0.65 U	0.65 U
TetraChloroethene	38*	1.183	1 U	1 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	43.0	2.6	2.2	2.4	2.4	2.4	1.5	1.2	1.6	1.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Trichloroethene	2*	2.294	0.27	0.76	0.27	0.33	0.98	0.55	0.22 U	0.22 U	0.22 U	3.9	2.3	1.1	0.87	6.3 J	0.22	0.87	0.55	0.22 U	1.4 J	0.76 J	0.22 U	0.87 J	0.93 J	0.66	0.32	0.32	0.32	0.32	0.32
Total VOCs			47.39	34.58	38.11	64.31	42.34	36.88	55.62	74.73	73.49	254.12	143.97	172.5	158.6	503.84	13.9	72.97	73.49	66.45	434.57	81.44	53.02	85.21	78.81	84.67	75.25	21.92	38.08	41.21	120.1
BTEX & Trimethylbenzenes			7.42	6.7	4.56	9.4	5.62	5.22	5.03	5.56	7.48	40.7	18.1	24.1	33.4	24.7	5.18	9.88	8.69	9.52	21.65	8.52	7.74	8.24	9.39	22.84	6.30	3.14	8.48	3.42	4.75

* Asterisk indicates the value listed is the New York State Department of Health (NYSDOH) Air Guideline established in Table 3.1 of the NYSDOH Guidance titled "Evaluating Soil Vapor Intrusion in the State of New York", October 2006 and amendments for PCE in 2013 and TCE in 2015. The USEPA BASE Database (see below) was also provided for typical background for commercial buildings in order to evaluate compounds not listed in the Table 3.1 of the NYSDOH Guidance.

- Mean, Standard Deviation, and Range are inclusive of all analytical results including "non-detect" concentrations (as qualified by "U" qualifier). Non-detect concentrations were determined by using the reported laboratory method detection limit provided by the analytical laboratory.

Total Samples Collected: 58

[illegible]

690 Saint Paul Street, Rochester, New York
NYSDEC BCP ID No. C828159
LaBella Project No. 209280

Outside - Roof

Total Samples Collected: 46

Values w/o 6/29/10 Outlier

Roof, Outside	USEPA (2001) (BASE) Database - 90th Percentile	90th Percentile of Indoor Air Data	Mean	St Deviation	Mean	St Deviation	Range (Minimum)	Range (Maximum)	Roof 8/21/2008	Sub-Slab Depressurization System Installed August 2008	Roof 9/3/2008	Roof 9/5/2008	Roof 9/10/2008	Roof 9/18/2008	Roof 9/25/2008	Roof 10/15/2008	Roof 11/25/2008	Roof 12/17/2008	Roof 12/23/2008	1/16/2009	Roof 4/17/2009	Roof 6/3/2009	Roof 6/24/2009	Roof 7/21/2009	Roof 8/20/2009	Roof 9/24/2009	Roof 10/29/2009	Roof 11/18/2009	Roof 12/21/2009	Roof 3/1/2010
1,1,1-Trichloroethane	20.6	0.83	0.83	0.00	0.83	0.00	0.82	0.832	0.832 U		0.832 U	0.832 U	0.832 U	0.832 U	0.832 U	0.832 U	0.832 U	0.832 U	0.832 U	0.832 U	0.832 U	0.832 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
1,2,4-Trimethylbenzene	9.5	3.65	5.07	21.63	1.66	21.63	0.55	4.7	1.95	1.7	2.7	3.65	0.899	2.35	1.3	4.7	3.65	4.3	2.15	0.85	1.5	1.8	1.8	2.5	2	1	2.1	0.75 U	0.55	
1,3,5-Trimethylbenzene	3.7	1.42	1.29	1.86	0.91	1.67	0.55	3.9	0.999	0.75 U	1.6	2.35	0.75 U	0.65	0.65	0.899	0.849	1.15	0.6	0.75 U	0.75 U	1	0.55 U	0.7	0.75 U	0.75 U	0.8	0.75 U	0.75 U	
Acetone	98.9	46.60	26.45	16.74	25.28	15.98	7.73	100	13	39.4	30.9	33.1	8.93	14.5	19.3	9.17	17.6	13.5	16.2	16	28	23	21	33	26	18	24	9.9	29	
Benzene	9.4	1.06	0.63	0.25	0.65	0.26	0.32	1.3	0.812	0.877	0.714	0.357	0.487 U	0.455	0.584	0.682	1.3	1.07	1.04	0.58	0.42	0.49	0.62	0.58	0.45	0.71	0.65	0.49 U	0.58	
Chloroethane	<1.1	0.40	0.40	0.00	0.41	0.03	0.40	0.59	0.59	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U	0.402 U
Chloroform	1.1	0.74	0.77	0.19	0.74	0.06	0.55	0.94	0.744 U	0.744 U	0.744 U	0.744 U	0.744 U	0.744 U	0.744 U	0.744 U	0.744 U	0.596	0.546	0.744 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	
Chloromethane	3.7	1.36	0.91	0.48	0.89	0.47	0.31	3.17	0.525	0.735	0.735	0.924	3.17	0.63	0.798	0.651	1.22	1.15	1.2	0.78	1.1	0.8	1.3	1.1	0.76	0.65	0.69	0.57	0.82	
cis-1,2-Dichloroethene	<1.9	0.70	0.82	1.19	0.63	0.13	0.44	1.13	0.604 U	0.604 U	0.604 U	0.766	0.604 U	1.13	0.484	0.604 U	0.604 U	0.604 U	0.604 U	0.604 U	0.604 U	0.6 U	1.1	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	
Cyclohexane	NL	0.56	0.64	0.60	0.64	0.60	0.52	4.3	0.525 U	0.525	0.525 U	0.525 U	0.525 U	0.525 U	0.56	0.525 U	0.525 U	0.525 U	0.525 U	0.525 U	0.525 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	
Ethylbenzene	5.7	0.69	0.70	0.31	0.68	0.29	0.40	1.94	0.662 U	0.662	0.574	0.485	0.662 U	0.441	0.485	1.94	1.28	0.662 U	0.53	0.662 U	0.71	0.4 U	0.66 U	0.57	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	
Heptane	NL	1.09	0.88	1.09	0.86	1.09	0.50	7.6	0.625	1.08	0.625 U	0.75	0.625 U	0.625 U	0.5	0.625 U	0.916	0.583	0.666	0.625 U	0.67	0.87	1.2	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	
Isopropyl Alcohol	NL	7.59	4.48	9.65	4.34	9.65	0.37	60	1.77	3.12	2.07	2.47	1.45	0.375 U	0.375 U	0.375 U	0.375 U	2.22	7.75	0.375 U	1.5	3.8	0.37 U	5.2	3	2.8	9.7	0.37 U	2.3	
m&p-Xylene	22.2	2.40	1.57	1.45	1.50	1.41	0.44	7.94	0.883	1.59	1.54	2.6	0.839	0.794	1.06	7.94	4.46	1.06	1.19	0.57	1.1	1 U	1 U	2.1	0.93	1.1	0.93	1.3 U	0.75	
Methyl Ethyl Ketone	NL	2.88	1.71	1.85	1.70	1.85	0.54	12	0.779	2.1	1.83	1.17	3.87	1.02	2.94	0.899 U	1.08	0.63	1.14	0.81	0.87	1.6	1.7	2.3	0.84	0.93	0.9 U	0.54	0.9 U	
Methyl Isobutyl Ketone	NL	1.25	1.14	0.19	1.14	0.19	0.42	1.25	1.25 U	0.958	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	0.916	0.541	0.625	1.25 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Methylene Chloride	60*	2.32	1.26	1.30	1.04	0.84	0.42	5.12	0.6	0.706	0.494	0.989	0.883	5.12	0.812	0.777	0.918	0.918	2.54	0.64	0.74	1.4	0.56	0.53 U	0.46	0.95	0.59	0.49	1.2	
p-Xylene	7.9	1.22	0.86	0.82	0.81	0.79	0.43	5.34	0.485	0.75	0.662	1.37	0.662 U	0.53	0.574	5.34	1.63	0.53	0.485	0.662 U	0.66 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	
Tetrachloroethylene	30*	1.03	2.08	5.71	2.02	5.71	0.69	5.03	1.03 U	1.03 U	1.03 U	1.03 U	1.03 U	1.03 U	1.03 U	1.03 U	1.03 U	1.03 U	1.03 U	1.03 U	1 U	0.83 U	1 U	1 U	1.03 U	0.69	1 U	1 U	1 U	
Toluene	43.0	5.06	2.81	2.48	2.72	2.37	0.61	14	2.34	4.98	2.57	1.84	1.11	2.3	2.53	2.03	7.78	1.84	1.76	2.4	3.8	2.4	1.9	2.5	3.9	2.2	0.73	2.3	2.3	
Trichloroethene	2*	2.34	1.71	4.47	1.01	0.93	0.21	3.93	0.601	1.15	1.04	2.08	3.6	3.93	1.09	0.655	0.71	0.382	3.11	0.44	0.66	1	0.98	0.55	0.38	0.55	1.2	1.2	2.5	
Total VOCs			56.16	42.78	49.62	40.23	15.46	220.14		31.606	64.695	53.441	59.684	37.324	39.568	38.3	42.07	48.48	34.525	44.925	31.531	47.77	45.8	39.42	58.16	45.06	38.04	51.16	24.32	48.71
BTEX & Trimethylbenzenes			12.28	23.99	8.26	23.89	1.36	32.34		7.32	10.43	9.65	12.30	4.92	7.07	6.60	22.85	19.65	9.54	6.72	5.89	8.52	7.22	6.40	8.99	7.23	7.85	7.35	4.85	5.50

Roof, Outside	USEPA (2001) (BASE) Database - 90th Percentile	90th Percentile of Indoor Air Data	Roof 3/30/10	Roof 5/6/10	Roof 6/1/10	Roof 6/29/10	Roof 7/26/10	Roof 10/8/10	Roof 12/28/10	Roof 2/17/2011	Roof 6/30/2011	Roof 8/8/2011	Roof 12/28/2011	Roof 3/30/2012	Roof 6/19/2012	Roof 7/24/2012	Roof 11/12/2012	Roof 3/21/2013	Roof 6/27/2013	Roof 9/20/2013	Roof 1/28/2014	Roof 1/27/2015	Roof 2/17/2016	Roof (Ex-01) 4/4/2016	4/18/2017	6/5/2017
1,1,1-Trichloroethane	20.6	0.83	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-Trimethylbenzene	9.5	3.65	0.75 U	0.55 J	1.8	1.1 U	140	1.1	1.1 U	1.2	1.4	1.1 U	1.1 U	0.75 U	4.0	1.8	1.1 U	1.1 U	1.1 U	0.7	0.75 U	0.74 U	0.74 U	1.1 U	0.74 U	0.74
1,3,5-Trimethylbenzene	3.7	1.42	0.75 U	0.75 U	0.75 U	0.75 U	6.4	11	0.75 U	0.75 U	0.75 U	0.9	0.75 U	0.75 U	3.9	0.75	0.75 U	0.75 U	1.1	0.75 U	0.75 U	0.74 U	0.74 U	0.74 U	0.74 U	
Acetone	98.9	46.60	32	26	40	58 U	47	33 U	19	30	26	25	22	30	100	44	46	15	47	24	19	12	16 J	7.73 J	17 J	70
Benzene	9.4	1.06	0.45 J	0.49 U	0.49 U	0.35 U	0.58	0.49	0.71	1.4	0.36 J	0.49 U	0.36	0.32 J	0.84	0.42 J	0.49	0.65	0.68	1	0.80	1.1 J	0.57	0.48 U	0.4 U	
Chloroethane	<1.1	0.40	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40	0.40 U	0.4 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroform	1.1	0.74	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.60	0.74 U	0.74 U	0.89	0.73 U	0.73 U	0.73 U	0.73 U	
Chloromethane	3.7	1.36	0.73 U	0.71	0.97	1.0	0.97	0.78	1.0	0.3	0.31 U	0.9	0.31 U	0.78	0.31 U	0.90	0.31 U	0.31 U	1.1	1.1	1.4	1.2	0.95 J	1.6	1.4	1.5
cis-1,2-Dichloroethene	<1.9	0.70	0.60	0.60 U	0.60 U	8.2	0.60 U	0.44	0.60 U	0.60	0.60 U	0.6 U	0.6 U	0.60 U	0.60 U	0.60 U	0.6 U	0.60 U	0.6 U	0.6 U	0.59 U	0.89 U	0.59 U	0.59 U	0.59 U	
Cyclohexane	NL	0.56	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52	0.91	4.3	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	1.1 J	0.55	0.52 U	1.4	
Ethylbenzene	5.7	0.69	0.66 U	0.66 U	0.66 U	1.4	0.62	0.49	0.66 U	0.44 J	0.66 U	0.57 J	0.66 U	0.66 U	1.7	0.44 J	0.66 U	0.66 U	0.49	0.66 U	0.66 U	0.65 U	0.66 U	0.65 U	0.65 U	
Heptane	NL	1.09	0.62 U	0.62 U	0.62 U	1.6	0.62 U	0.67	0.62 U	0.92	0.62 U	0.62 U	0.62 U	0.62 U	7.6	0.62 U	0.62 U	0.62 U	1.1	0.83	0.61 U	0.66 J	0.61 U	0.61 U	1.4	
Isopropyl Alcohol	NL	7.59	0.37 U	1.1	7.2	4.6	3.5	2.4	0.37 U	0.37	0.37 U	3.5	1.5	1.7 J	60	2.3 J	0.37 U	1.7	17	6.2	11	2.6	3.0 J	1.6	1.8	2.9
m&p-Xylene	22.2	2.40	1.3 U	0.44 J	0.75 J	3.6	1.8	1.3	0.53 J	1.2 J	0.97 J	1.6	1.3 U	1.3 U	5.8	0.97 J	0.93 J	1.3 U	1.6	0.97	1.1	1.3 U	0.87 J	1.3 U	1.3 U	0.74
Methyl Ethyl Ketone	NL	2.88	0.87 J	0.90 U	1.4 U	2.1	1.4	1.0	0.90 U	0.90	1.80	1.9	0.9 U	3.6 J	12	2.8	1.3 J	0.90 U	3.6	2	0.87	0.88 U	1.2 U	1.2 U	0.56 J	1.5
Methyl Isobutyl Ketone	NL	1.25	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.42 J	1.2 U	1.2 U	1.2 U	NA R	1.2 U	1.2 U	1.2 U	0.94 J	0.82 J	1.2 U
Methylene Chloride	60*	2.32	0.95	0.53 U	0.78	7.5	2.0	1.2	0.53 U	0.71	2.6	0.49 J	1.6	0.46	1.1	1.8	1.4	0.74	0.49	0.42	0.49	1.3 J	0.56 J	0.56 J	0.56 J	
o-Xylene	7.9	1.22	0.66 U	0.66 U	0.66 U	1.3	0.79	0.49 J	0.66 U	0.44 J	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.65 U	0.65 U	0.65 U	0.65 U	
Tetrachloroethylene	30*	1.03	1.0 U	1.0 U	1.0 U	2.3	0.76	1.0 U	37	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	43.0	5.06	1.0	0.80 U	2.1	7.5	3.3	1.9	1.2	3.3	1.6	5.0	0.69	1.1	14	5.7	1.7	0.61	5.1	4.2	1.1	0.90	3.5 J	0.79 J	0.53 J	3.2
Trichloroethene	2*	2.34	1.9	0.22 U	0.87	29	1.0	1.9	0.33	0.71	0.71 J	2.1	0.22 U	0.22 U	1.3	0.38 J	0.66 J	0.22 U	0.60 U	0.22 U	0.22 U	0.21	0.21 U	0.38	1.5	0.54
Total VOCs			48.3	39.72	64.34	142.1	219.63	52.6	69.65	47.94	44.49	53.86	37.96	27.41	220.14	68.1	62.24	30.21	86.56	47.82	46.6	18.91	27.38	15.46	24.61	102.84
BTEX & Trimethylbenzenes			5.12	3.86	6.72	22.30	157.51	6.03	4.90	7.33	6.04	9.79	5.16	5.54	32.34	10.79	6.29	5.57	10.61	8.96	7.76	1.70	5.9	1.36	1.01	4.3

Room 112
Total Samples Collected: 18

	USEPA (2001) (BASE)	90th Percentile of	Mean	St Deviation	Range	Range		MS/MSD										Duplicate		Duplicate		MS/MSD			
Room 112	Database - 90th Percentile	Indoor Air Data			(Minimum)	(Maximum)		12/28/2010	2/17/2011	6/30/2011	8/8/2011	12/28/2011	3/30/2012	6/19/2012	7/24/2012	11/12/2012	3/21/2013	6/27/2013	9/20/2013	1/28/2014	1/27/2015	1/27/2015	1/27/2015	2/17/2016	6/5/2017
1,1,1-Trichloroethane	20.6	0.83	0.83	0.00	0.82	0.83		0.83 U	0.83	0.83 U,J	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-Trimethylbenzene	9.5	9.04	3.32	2.48	0.64	8.2		11	14	5.8	5.4	3.4	2.1 J	6.6	4.2	8.2	1.9 UJ	1.2	5.6	2.4	0.69 J	0.64 J	0.74	1 J	0.79
1,3,5-Trimethylbenzene	3.7	3.64	1.61	1.20	0.55	4.7		2.5	4.2	2.3	1.9	1.3	0.70 J	4.7	0.75 U	3.4	0.55 J	1.1	2.4	2.1	0.74 U	0.74 U	0.74 U	0.74 U	0.74
Acetone	98.9	105.30	47.70	52.05	7.40	210		44	120	58	49	60	18	99	210	46	22	21	28	65 J	10	8.1	7.4	14 J	59
Benzene	9.4	2.86	1.23	0.56	0.45	2.2		3.0	3.8	2.1	2.2	1.5	1.6	0.81	2.0	0.65	1.2	0.45 J	1	0.49 U	1.1	0.99	0.96	1.4	2.8
Chloroethane	<1.1	0.40	0.40	0.00	0.40	0.40		0.40 U	0.40	0.40 U	0.4 U	0.4 U	0.40 U	0.40 U	0.40 U	0.4 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U	0.40 U	0.40 U	0.4 U	0.4 U
Chloroform	1.1	26.50	9.26	13.37	0.74	39		11 J	1.4	22	0.74 U	39	14	0.79	0.74 U	0.74 U	14	0.74 U	0.74 U	37	2.0	1.9	2.3	2.2	0.73 U
Chloromethane	3.7	1.07	0.42	0.30	0.31	1.3		0.84	1.7	0.31 U	0.31 U	0.31 U	0.97	0.31 U	0.31 U	0.31 U	0.31 U	1.3	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
cis-1,2,-Dichloroethene	<1.9	2.22	0.99	0.90	0.40	3.9		2.5	0.97	3.9	0.89	2.1	0.85	0.52	0.40	0.6 U	0.97	0.6 U	0.6 U	1.0	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U
Cyclohexane	NL	3.00	1.02	1.20	0.52	5.1		2.1	0.52	1.6	5.1	0.84	0.52 U	0.52 U	0.52	0.63	0.52 U	0.52 U	1.8	0.52 U	0.52 U	0.52 U	0.52 U	0.59	5.9
Ethylbenzene	5.7	2.86	1.25	0.72	0.56	3		2.8	9.2	2.3	3.0	1.9	0.93	1.7	1.6	0.93 J	0.79	0.66 U	1.1	1.4	0.65 U	0.65 U	0.65 U	0.56	0.65
Heptane	NL	7.28	2.74	2.46	0.61	7.7		3.0	4.5	3.5	5.2	1.4	1.4	7.7	3.9	0.62	0.79	0.62 U	4.5	7.1 J	0.61 U	0.61 U	0.61 U	2.5	17
Isopropyl Alcohol	NL	40.20	15.63	14.01	1.30	43		0.37 U	20	32	28	7.5	9.0 J	39	43 J	14	7.7	4.2	9.2	26 J	4.5 J	1.3 J	3.9 J	5.2 J	66
m&p-Xylene	22.2	8.99	4.20	2.67	0.96	8.6		9.9	19 J	8.6	7.5 J	6.8	3.2	6.1	5.5	4.9	2.6	1.1 J	6.1	6.0	1.0 J	0.96 J	1.0 J	1.7	1.4
Methyl Ethyl Ketone	NL	6.12	2.89	2.73	0.71	10		2.3	0.9	4.6	6.4	1.2 U	6.0 J	10	0.90	3 J	1.2	2.1	3.1	1.0 J	1.1	0.80 J	0.71 J	1.2 U	1.9
Methyl Isobutyl Ketone	NL	1.20	1.11	0.20	0.62	1.2		1.2 U	1.2	1.0	0.62 J	1.2 U	1.2 UJ	1.2 U	0.67	1.2 UJ	1.2 UJ	1.2 U	NA R	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Methylene Chloride	60*	6.91	2.68	2.52	0.52	7.4		8.5 J	5.2	5.5	1.9	7.4	6.2	1.0	6.7	0.85	3.7	0.67	0.78	2.0	0.52 U	0.80	0.52 U	1.6 J	1.7
o-Xylene	7.9	3.77	1.72	1.00	0.48	3.5		4.4	8.3	2.9	3.5	2.7	1.1	2.3	2.3	2.3	0.97	0.66 U	2.3	2.3	0.48 J	0.65 U	0.65 U	0.74	0.56
Tetrachloroethylene	30*	1.19	1.00	0.04	0.90	1.1		34	1.4	1.0 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1 U	1.0 UJ	1 U	0.9	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1 U
Toluene	43.0	14.30	6.54	4.25	1.90	14		15	15	11	14	6.3	6.0	13	11	3.4	3.4	4.2	11	4.1	2.4	2.0	1.9	4.4 J	3.2
Trichloroethene	2*	3.97	1.59	1.98	0.21	7.6		3.1	3.7	7.6 J	4.6	1.9	1.0	1.3	1.2 U	1.1	1.2	0.22 UJ	0.66	1.3	0.21 U	0.21 U	0.21 U	1.2	0.21 U
Total VOCs			106.14	80.48	17.49	297.92		162.74	236.22	177.24	142.49	148.98	77	198.78	297.92	95.06	67.23	44.77	81.32	163.45	23.3	17.49	18.9	38.19	160.94
BTEX & Trimethylbenzenes			17.29	10.27	4.59	35.3		45.6	69.7	32.9	35.3	22.4	10.63	23.21	17.35	23.78	11.41	9.37	29.5	18.79	5.7	4.59	4.6	9.8	9.4

Notes:

* Asterik indicates the value listed is the New York State Department of Health (NYSDOH) Air Guideline established in Table 3.1 of the NYSDOH Guidance titled "Evaluating Soil Vapor Intrusion in the State of New York", October 2006 and ammendments for PCE in 2013 and TCE in 2015. The USEPA BASE Database (see below) was also provided for typical background for commercial buildings in order to evaluate compounds not listed in the Table 3.1 of the NYSDOH Guidance..

- Results reported in ug/m³

- USEPA Building Assessment and Survey Evaluation (BASE) Database (90th Percentile). As recommended in Section 3.2.4 of the NYSDOH Guidance (Refer to Footnote "1") this database is referenced for the indoor air sampling results. This database is also referenced to provide initial benchmarks for comparison to the air sampling data and does not represent regulatory standards or compliance values.

- U qualifier denotes laboratory identified as 'non-detect' at the detection limit shown.

- R qualifier denotes data felt to be unreliable and therefore rejected

- Compounds listed represent sub-set of complete list of VOCs tested (USEPA TO-15)

- Duplicate identifies a Duplicate Sample collected from this location

- MS/MSD identifies a Matrix Spike/Matrix Spike Duplicate Sample was collected from this location for Quality Control purposes.

- NA indicates that insufficient data set for value calculation.

- 90th Percentile of Indoor Air Data calculated based on the following Microsoft Excel formula: ROUND((90/100*number of data points+0.5),0)

- Mean, Standard Deviation, and Range are inclusive of all analytical results including "non-detect" concentrations

(as qualified by "U" qualifier). Non-detect concentrations were determined by using the reported laboratory method detection limit provided by the analytical laboratory.

Room 126

Total Samples Collected:

1

	USEPA (2001) (BASE) Database - 90th Percentile	90th Percentile of Indoor Air Data	Mean	St Deviation	Range (Minimum)	Range (Maximum)	6/5/2017
Room 114							
1,1,1-Trichloroethane	20.6	0.82	0.82	NA	NA	NA	0.82 U
1,2,4-Trimethylbenzene	9.5	0.59	0.59	NA	NA	NA	0.59
1,3,5-Trimethylbenzene	3.7	0.74	0.74	NA	NA	NA	0.74 U
Acetone	98.9	49.00	49.00	NA	NA	NA	49
Benzene	9.4	1.20	1.20	NA	NA	NA	1.2
Chloroethane	<1.1	0.40	0.40	NA	NA	NA	0.40 U
Chloroform	1.1	0.73	0.73	NA	NA	NA	0.73 U
Chloromethane	3.7	1.30	1.30	NA	NA	NA	1.3
cis-1,2,-Dichloroethene	<1.9	0.59	0.59	NA	NA	NA	0.59 U
Cyclohexane	NL	1.00	1.00	NA	NA	NA	1
Ethylbenzene	5.7	0.78	0.78	NA	NA	NA	0.78
Heptane	NL	4.20	4.20	NA	NA	NA	4.2
Isopropyl Alcohol	NL	120.00	120.00	NA	NA	NA	120
m&p-Xylene	22.2	1.30	1.30	NA	NA	NA	1.3
Methyl Ethyl Ketone	NL	2.70	2.70	NA	NA	NA	2.7
Methyl Isobutyl Ketone	NL	1.20	1.20	NA	NA	NA	1.2 U
Methylene Chloride	60*	2.30	2.30	NA	NA	NA	2.3
o-Xylene	7.9	0.48	0.48	NA	NA	NA	0.48
Tetrachloroethylene	30*	1.00	1.00	NA	NA	NA	1.0
Toluene	43.0	2.70	2.70	NA	NA	NA	2.7
Trichloroethene	2*	0.21	0.21	NA	NA	NA	0.21 U
Total VOCs							193.24
BTEX & Trimethylbenzenes							6.6

Notes:

* Asterik indicates the value listed is the New York State Department of Health (NYSDOH) Air Guideline established in Table 3.1 of the NYSDOH Guidance titled "Evaluating Soil Vapor Intrusion in the State of New York", October 2006 and ammendments for PCE in 2013 and TCE in 2015. The USEPA BASE Database (see below) was also

- USEPA Building Assessment and Survey Evaluation (BASE) Database (90th Percentile). As recommended in Section 3.2.4 of the NYSDOH Guidance (Refer to Footnote
- U qualifier denotes laboratory identified as 'non-detect' at the detection limit shown.
- Compounds listed represent sub-set of complete list of VOCs tested (USEPA TO-15)
- Duplicate identifies a Duplicate Sample collected from this location
- MS/MSD identifies a Matrix Spike/Matrix Spike Duplicate Sample was collected from this location for Quality Control purposes.
- NA indicates that insufficient data set for value calculation.
- 90th Percentile of Indoor Air Data calculated based on the following Microsoft Excel formula: ROUND((90/100*number of data points+0.5),0)
- Mean, Standard Deviation, and Range are inclusive of all analytical results including "non-detect" concentrations

(as qualified by "U" qualifier). Non-detect concentrations were determined by using the reported laboratory method detection limit provided by the analytical laboratory.

Stairwell

Total Samples Collected:

2

Room 114	USEPA (2001) (BASE) Database - 90th Percentile	90th Percentile of Indoor Air Data	Duplicate	
			4/18/2017	4/18/2017
1,1,1-Trichloroethane	20.6	NA	0.82 U	0.82 U
1,2,4-Trimethylbenzene	9.5	NA	1 U	1 U
1,3,5-Trimethylbenzene	3.7	NA	0.74 U	0.74 U
Acetone	98.9	NA	28 J	20 J
Benzene	9.4	NA	0.48 U	0.32
Chloroethane	<1.1	NA	0.4 U	0.4 U
Chloroform	1.1	NA	0.88	0.88
Chloromethane	3.7	NA	2.1	1.7
cis-1,2-Dichloroethene	<1.9	NA	2.9	2.9
Cyclohexane	NL	NA	0.62 U	0.52 U
Ethylbenzene	5.7	NA	0.65 U	0.65 U
Heptane	NL	NA	0.53	0.61
Isopropyl Alcohol	NL	NA	20	15
m&p-Xylene	22.2	NA	0.65	0.61
Methyl Ethyl Ketone	NL	NA	1.4 J	1.5 J
Methyl Isobutyl Ketone	NL	NA	1.2 U	0.7
Methylene Chloride	60*	NA	0.63 J	0.52 J
o-Xylene	7.9	NA	0.65 U	0.65 J
Tetrachloroethylene	30*	NA	1 U	1 J
Toluene	43.0	NA	0.83	0.83
Trichloroethene	2*	NA	3	3.1
Total VOCs			58.92	45.69
BTEX & Trimethylbenzenes			4.26	4.06

Notes:

* Asterik indicates the value listed is the New York State Department of Health (NYSDOH) Air Guideline established in Table 3.1 of the NYSDOH Guidance titled "Evaluating Soil Vapor Intrusion in the State of New York", October 2006 and ammendments for PCE in 2013

- USEPA Building Assessment and Survey Evaluation (BASE) Database (90th Percentile). As recommended in Section 3.2.4 of the

- U qualifier denotes laboratory identified as 'non-detect' at the detection limit shown.

- Compounds listed represent sub-set of complete list of VOCs tested (USEPA TO-15)

- Duplicate identifies a Duplicate Sample collected from this location

- MS/MSD identifies a Matrix Spike/Matrix Spike Duplicate Sample was collected from this location for Quality Control purposes.

- NA indicates that insufficient data set for value calculation.

- 90th Percentile of Indoor Air Data calculated based on the following Microsoft Excel formula: ROUND((90/100*number of data points+0.5),0)

- Mean, Standard Deviation, and Range are inclusive of all analytical results including "non-detect" concentrations

(as qualified by "U" qualifier). Non-detect concentrations were determined by using the reported laboratory method detection limit provided by the analytical laboratory.

APPENDIX B

LABORATORY REPORT AND DUSR



Centek Laboratories TO-15 Package Review Checklist

Client: **LaBella Associates**

690 St Paul St

SDG:

C17060

Analytical Results
TIC's Present

Present and Complete
Present and Complete
Holdin Times Met

YES NO NA

Comments:

✓ — —
✓ — —
✓ — —

Chain of Custody

Surrogate

Present and Complete

Internal Standards
Recovery

Present and Complete
Recoveries within Limits
Sample(s) reanalyzed
Present and Complete
Recoveries within Limits
Sample(s) reanalyzed

Comments:

✓ — —
✓ — —
✓ — —
✓ — —
✓ — —
✓ — —

Lab Control Sample
(LCS)

Lab Control Sample Dupe
(LCSD)

MS/MSD

Comments:

Present and Complete
Recoveries within Limits
Present and Complete
Recoveries within Limits
Present and Complete
Recoveries within Limits

*SEE CASE NARRATIVE

✓ — —
✓ — —
✓ — —
✓ — —
✓ — —

Sample Raw Data

Comments:

Present and Complete
Spectra present

✓ — —
✓ — —
✓ — —



Centek Laboratories TO-15 Package Review Checklist

Client: Labella Associates Project: 690 St Paul St SDG: C1706015

<u>Standards Data</u>	YES	NO	NA
Initial Calibration	☒	☐	☐
Continuing Calibration	☒	☐	☐
	☒	☐	☐
	☒	☐	☐
Standards Raw Data	☒	☐	☐

Comments:

Raw Quality Control Data

Tune Criteria Report	Present and Complete	☒	☐	☐
Method Blank Data	MB Results <PQL	☒	☐	☐
	Associated results flagged "B"	☒	☐	☒
LCS Sample Data	Present and Complete	☒	☐	☐
LCSD Sample Data	Present and Complete	☒	☐	☐
MS/MSD Sample Data	Present and Complete	☒	☐	☐

Comments:

Logbooks

Injection Log	☒	☐	☐
Standards Log	☒	☐	☐
Can Cleaning Log	☒	☐	☐
Calculation Sheet	☒	☐	☐
IDL's	☒	☐	☐
Canister Order Form	☒	☐	☐
Sample Tracking Form	☒	☐	☐

Additional Comments:

Section Supervisor:

Will Dally

Date: 7/19/17

QC Supervisor:

Mark Clark

Date: 7/19/17



CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Michael Pelychaty
LaBella Associates, P.C.
300 State Street, Suite 201
Rochester, NY 14614

Thursday, June 15, 2017
Order No.: C1706015

TEL: (585) 454-6110
FAX (585) 454-3066
RE: 690 ST PAUL St

Dear Michael Pelychaty:

Centek Laboratories, LLC received 8 sample(s) on 6/7/2017 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Centek Laboratories SOP TS-80

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

This report cannot be reproduced except in its entirety, without prior written authorization.

Sincerely,



William Dobbins

Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, tetrahydrofuran, 4-PCB, sulfur derived and silicon series compounds.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration.

The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:

Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of

liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE

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CENTEK LABORATORIES, LLC

Date: 19-Jul-17

CLIENT: Labella Associates, P.C.

Project: 690 ST PAUL St

Lab Order: C1706015

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg ($\pm 2"$; vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg ($\pm 1"$; vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg $\pm 1"$. Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

See Corrective Action: [3547] MS/MSD did not meet criteria.

Centek Laboratories, LLC
Corrective Action Report

Date Initiated: 08-Jun-17 Corrective Action Report ID: 3547
Initiated By: Russell Pellegrino Department: MSVOA

Corrective Action Description

CAR Summary: MS/MSD did not meet criteria.

Description of Nonconformance MS/MSD did not meet criteria for a several compounds for samples C1706015-003A
Root/Cause(s): MS/MSD. Based on the chromatographic evidence this is most likely due to severe matrix interference.

Description of Corrective Action Since MS/MSD show similar results at this time no further corrective action taken. All other QC meets criteria. The samples show many hits in the matrix which will interfere w/Proposed C.A.: with spike results. All sets of data submitted

Performed By: Russell Pellegrino Completion Date: 09-Jun-17

Client Notification

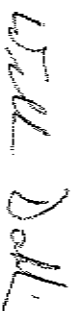
Client Notification Required: No Notified By:
Comment:

Quality Assurance Review

Nonconformance Type: Deficiency
Further Action Monitor all quality control for sample matrix interference. At this time no further corrective required by QA: action taken. All sets of data submitted

Approval and Closure

Technical Director /
Deputy Tech. Dir.:



Close Date: 10-Jun-17

William Dobbins

QA Officer Approval:



QA Date: 10-Jun-17

Nick Scala



Centek Labs - Chain of Custody

143 Midler Park Drive

Syracuse, NY 13206

315-431-9730

www.CentekLabs.com

Vapor Intrusion & L&O

Site Name: 690 ST. PAUL ST.

Project: 209230

PO#

Quote #	Q-
---------	----

Canister Order #:

Detection Limit

500biv

140343

150003 - TCE .25

Report Level

Level 1

Level 1

Cat 'B' Like

[illegible]

*** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

Date: 19-Jul-17

CENTEK LABORATORIES, LLC**CLIENT:** LaBella Associates, P.C.**Project:** 690 ST PAUL St**Lab Order:** C1706015**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1706015-001A	Rm 117	284.1162	6/5/2017	6/7/2017
C1706015-002A	Rm 107	419.260	6/5/2017	6/7/2017
C1706015-003A	Rm 112 +MS/MSD	215.439	6/5/2017	6/7/2017
C1706015-004A	Rm 134	102.345	6/5/2017	6/7/2017
C1706015-005A	Elevator	131.455	6/5/2017	6/7/2017
C1706015-006A	Roof	129.1160	6/5/2017	6/7/2017
C1706015-007A	Rm 126	225.265	6/5/2017	6/7/2017

CLIENT: Labella Associates, P.C.
Project: 690 ST PAUL St
Lab Order: C1706015

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1706015-008A	Rin 107 Dup	98.260	6/5/2017	6/7/2017

CEN TEK LABORATORIES, LLC
Sample Receipt ChecklistClient Name **LABELLA - ROCHESTER**

Date and Time Receive

6/7/2017Work Order Number **C1705015**

Received by

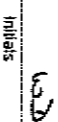
NIM

Checklist completed by


6-7-17

Date

Reviewed by


6/7/17

Initials

Date

Matrix:

Carrier name: **FedEx Ground**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Presen ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Presen ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☒	
	Adjusted? ☐	Checked by ☐	

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

Lab Order: C1706015
 Client: LaBella Associates, P.C.
 Project: 690 ST PAUL St

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1706015-001A	Rm 117	6/5/2017	Air	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/9/2017
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/9/2017
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/8/2017
C1706015-002A	Rm 107			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/8/2017
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/9/2017
C1706015-003A	Rm 112 +MS/MSD			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/8/2017
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/9/2017
C1706015-004A	Rm 134			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/15/2017
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/9/2017
C1706015-005A	Elevator			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/9/2017
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/15/2017
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/9/2017
C1706015-006A	Roof			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/9/2017
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/15/2017
C1706015-007A	Rm 126			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/9/2017
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/15/2017
C1706015-008A	Rm 107 Dup			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/15/2017
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			6/9/2017



CENTEK LABORATORIES, LLC

After Quality Testing... It's a Fact

143 Midler Park Drive * Syracuse, NY 13206
 TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

6537

19-Jul-17

SHIPPED TO:

Company: Labella Associates, P.C.
 Contact: Michael Pelychay
 Address: 300 State Street, Suite 201
 Rochester, NY 14614

Submitted By:
 MadeBy: rjp

Phone: (585) 454-6110
 Quote ID: 0
 Project:
 PO:

Ship Date: 5/31/2017
 VIA: FedEx Ground
 Due Date: 6/1/2017

Bottle Code	Bottle Type	TEST(s)	QTY
MC1400CC	1.4L Mini-Can	1ug/M3 by Method TO15	1
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	8

Can / Reg ID	Description
98	1L Mini-Can - 1099 VI
102	1L Mini-Can - 1084 VI
129	1L Mini-Can - 1077 VI
131	1L Mini-Can - 1079 VI
225	1L Mini-Can - 1187 VI
260	Time-Set Reg - 698 VI
265	Time-Set Reg - 703 VI
284	1L Mini-Can - 1059 VI
345	Time-Set Reg - 742 VI
357	1L Mini-Can - 1306 VI
378	Time-Set Reg - 752 VI
419	1L Mini-Can - 1343 VI
439	Time-Set Reg - 818 VI
455	Time-Set Reg - 834 VI
1160	Time-Set Reg-0673 VI
1162	Time-Set Reg-0675 VI

Comments: 7 IL @ 8hr + dupe + 1.4 L @ 8hr WAC 041217 F-G, 052517 A-C

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labelia Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-001A

Client Sample ID: Rm 117
 Tag Number: 284.1162
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses		Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS							
Lab Vacuum in		-4	FLD		"Hg		Analyst: 6/7/2017
Lab Vacuum Out		-30			"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC							
1,1,1-Trichloroethane		< 0.15	0.15	TO-15	ppbv	1	Analyst: RJP 6/8/2017 2:44:00 PM
1,1,2,2-Tetrachloroethane		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,1,2-Trichloroethane		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,1-Dichloroethane		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,1-Dichloroethene		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,2,4-Trichlorobenzene		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,2-Dibromoethane		0.13	0.15	J	ppbv	1	6/8/2017 2:44:00 PM
1,2-Dichlorobenzene		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,2-Dichloroethane		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,2-Dichloropropane		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,3,5-Trimethylbenzene		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,3-butadiene		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,3-Dichlorobenzene		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,4-Dichlorobenzene		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,4-Dioxane		< 0.30	0.30		ppbv	1	6/8/2017 2:44:00 PM
2,2,4-trimethylpentane		0.44	0.15		ppbv	1	6/8/2017 2:44:00 PM
4-ethyltoluene		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Acetone		17	3.0		ppbv	10	6/9/2017 1:13:00 AM
Allyl chloride		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Benzene		0.29	0.15		ppbv	1	6/8/2017 2:44:00 PM
Benzyl chloride		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Bromodichloromethane		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Bromoform		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Bromomethane		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Carbon disulfide		0.10	0.15	J	ppbv	1	6/8/2017 2:44:00 PM
Carbon tetrachloride		0.080	0.040		ppbv	1	6/8/2017 2:44:00 PM
Chlorobenzene		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Chloroethane		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Chloroform		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Chloromethane		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
cis-1,2-Dichloroethene		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
cis-1,3-Dichloropropene		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Cyclohexane		0.33	0.15		ppbv	1	6/8/2017 2:44:00 PM
Dibromochloromethane		< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Ethyl acetate		4.1	1.5		ppbv	10	6/9/2017 1:13:00 AM
Qualifiers: ** Quantitation Limit							
B	Analyte detected in the associated Method Blank	E Results reported are not blank corrected					
H	Holding times for preparation or analysis exceeded	J Estimated Value above quantitation range					
JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection					
S	Spike Recovery outside accepted recovery limits						

Page 1 of 16

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-001A

Client Sample ID: Rm 117
 Tag Number: 284.1162
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
4UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.15	TO-15		ppbv	1	Analyst: RJP 6/8/2017 2:44:00 PM
Freon 11	0.26	0.15		ppbv	1	6/8/2017 2:44:00 PM
Freon 113	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Freon 114	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Freon 12	0.50	0.15		ppbv	1	6/8/2017 2:44:00 PM
Heptane	0.72	0.15		ppbv	1	6/8/2017 2:44:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Hexane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Isopropyl alcohol	150	14		ppbv	90	6/9/2017 7:48:00 AM
m&p-Xylene	0.35	0.30		ppbv	1	6/8/2017 2:44:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 2:44:00 PM
Methyl Ethyl Ketone	0.73	0.30		ppbv	1	6/8/2017 2:44:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 2:44:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Methylene chloride	0.62	0.15		ppbv	1	6/8/2017 2:44:00 PM
o-Xylene	0.17	0.15		ppbv	1	6/8/2017 2:44:00 PM
Propylene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Styrene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Toluene	1.8	0.15		ppbv	1	6/8/2017 2:44:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Trichloroethene	< 0.040	0.040		ppbv	1	6/8/2017 2:44:00 PM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/8/2017 2:44:00 PM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	6/8/2017 2:44:00 PM

Qualifiers:	**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.

Client Sample ID: Rm 117

Lab Order: C1706015

Tag Number: 284.1162

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-001A

Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82	TO-15	ug/m3	1	Analyst: RJP 6/8/2017 2:44:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 2:44:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 2:44:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 2:44:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2017 2:44:00 PM
1,2,4-Trimethylbenzene	0.64	0.74	J	ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dibromochloroethane	< 1.2	1.2		ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2017 2:44:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 2:44:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2017 2:44:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 2:44:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 2:44:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/8/2017 2:44:00 PM
2,2,4-trimethylpentane	2.1	0.70		ug/m3	1	6/8/2017 2:44:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/8/2017 2:44:00 PM
Acetone	41	7.1		ug/m3	10	6/9/2017 1:13:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2017 2:44:00 PM
Benzene	0.93	0.48		ug/m3	1	6/8/2017 2:44:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2017 2:44:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2017 2:44:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/8/2017 2:44:00 PM
Carbon disulfide	0.31	0.47	J	ug/m3	1	6/8/2017 2:44:00 PM
Carbon tetrachloride	0.50	0.25		ug/m3	1	6/8/2017 2:44:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2017 2:44:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/8/2017 2:44:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2017 2:44:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2017 2:44:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 2:44:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 2:44:00 PM
Cyclohexane	1.1	0.52		ug/m3	1	6/8/2017 2:44:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2017 2:44:00 PM
Ethyl acetate	15	5.4		ug/m3	10	6/9/2017 1:13:00 AM
Ethylbenzene	0.66	0.65		ug/m3	1	6/8/2017 2:44:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/8/2017 2:44:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2017 2:44:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM
Quantifiers:	**	Quantitation Limit				Results reported are not blank corrected
B	Analyte detected in the associated Method Blank					E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded					J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.					ND Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-001A

Client Sample ID: Rm 117
 Tag Number: 284.1162
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.5	TO-15 0.74		ug/m3	1	Analyst: RJP 6/8/2017 2:44:00 PM
Heptane	3.0	0.61		ug/m3	1	6/8/2017 2:44:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2017 2:44:00 PM
Hexane	< 0.53	0.53		ug/m3	1	6/8/2017 2:44:00 PM
Isopropyl alcohol	380	34		ug/m3	90	6/9/2017 7:48:00 AM
m&p-Xylene	1.5	1.3		ug/m3	1	6/8/2017 2:44:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 2:44:00 PM
Methyl Ethyl Ketone	2.2	0.88		ug/m3	1	6/8/2017 2:44:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 2:44:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2017 2:44:00 PM
Methylene chloride	1.8	0.52		ug/m3	1	6/8/2017 2:44:00 PM
o-Xylene	0.74	0.65		ug/m3	1	6/8/2017 2:44:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2017 2:44:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2017 2:44:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2017 2:44:00 PM
Toluene	6.8	0.57		ug/m3	1	6/8/2017 2:44:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 2:44:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 2:44:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	6/8/2017 2:44:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2017 2:44:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2017 2:44:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/8/2017 2:44:00 PM

Qualifiers:	**	Quantitation Limit		Results reported are not blank corrected
B	Analyte detected in the associated Method Blank		E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.		ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-002A

Client Sample ID: Rm 107
 Tag Number: 419,260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-3			FLD		Analyst:
Lab Vacuum Out	-30			"Hg		6/7/2017
				"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15		ppbv	1	Analyst: RJP 6/8/2017 3:25:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,3-Butadiene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/8/2017 3:25:00 PM
2,2,4-Trimethylpentane	1.9	0.15		ppbv	1	6/8/2017 3:25:00 PM
4-ethyltoluene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Acetone	18	3.0		ppbv	10	6/9/2017 1:52:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Benzene	0.44	0.15		ppbv	1	6/8/2017 3:25:00 PM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Bromoform	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Bromomethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Carbon disulfide	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Carbon tetrachloride	0.090	0.040		ppbv	1	6/8/2017 3:25:00 PM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Chloroethane	0.10	0.15	J	ppbv	1	6/8/2017 3:25:00 PM
Chloroform	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Chloromethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Cyclohexane	1.1	0.15		ppbv	1	6/8/2017 3:25:00 PM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Ethyl acetate	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Qualifiers:						
**	Quantitation Limit					Results reported are not blank corrected
B	Analyte detected in the associated Method Blank				E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded				J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.				ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-002A

Client Sample ID: Rm 107
 Tag Number: 419.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.14	TO-15	J	ppbv	1	Analyst: RJP 6/8/2017 3:25:00 PM
Freon 11	0.25	0.15		ppbv	1	6/8/2017 3:25:00 PM
Freon 113	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Freon 114	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Freon 12	0.53	0.15		ppbv	1	6/8/2017 3:25:00 PM
Heptane	1.2	0.15		ppbv	1	6/8/2017 3:25:00 PM
Hexchloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Hexane	1.6	1.5		ppbv	10	6/9/2017 1:52:00 AM
Isopropyl alcohol	29	1.5		ppbv	10	6/9/2017 1:52:00 AM
m&p-Xylene	0.37	0.30		ppbv	1	6/8/2017 3:25:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 3:25:00 PM
Methyl Ethyl Ketone	2.8	3.0	J	ppbv	10	6/9/2017 1:52:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 3:25:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Methylene chloride	0.41	0.15		ppbv	1	6/8/2017 3:25:00 PM
o-Xylene	0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Propylene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Styrene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Toluene	1.3	0.15		ppbv	1	6/8/2017 3:25:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Trichloroethene	0.11	0.040		ppbv	1	6/8/2017 3:25:00 PM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/8/2017 3:25:00 PM
Surf. Bromofluorobenzene	101	70-130		%REC	1	6/8/2017 3:25:00 PM

Qualifiers:	**	Quantitation Limit	Results reported are not blank corrected
B		Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
H		Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
JN		Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection
S		Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-002A

Client Sample ID: Rm 107
 Tag Number: 419.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82	TO-15	ug/m3	1	Analyst: RJP 6/8/2017 3:25:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 3:25:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 3:25:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 3:25:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2017 3:25:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2017 3:25:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 3:25:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2017 3:25:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 3:25:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 3:25:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/8/2017 3:25:00 PM
2,2,4-trimethylpentane	8.7	0.70		ug/m3	1	6/8/2017 3:25:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/8/2017 3:25:00 PM
Acetone	43	7.1		ug/m3	10	6/8/2017 1:52:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2017 3:25:00 PM
Benzene	1.4	0.46		ug/m3	1	6/8/2017 3:25:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2017 3:25:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2017 3:25:00 PM
Bromomethane	< 0.56	0.56		ug/m3	1	6/8/2017 3:25:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/8/2017 3:25:00 PM
Carbon tetrachloride	0.57	0.25		ug/m3	1	6/8/2017 3:25:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2017 3:25:00 PM
Chloroethane	0.26	0.40	J	ug/m3	1	6/8/2017 3:25:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2017 3:25:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2017 3:25:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 3:25:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 3:25:00 PM
Cyclohexane	3.9	0.52		ug/m3	1	6/8/2017 3:25:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2017 3:25:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/8/2017 3:25:00 PM
Ethylbenzene	0.61	0.65	J	ug/m3	1	6/8/2017 3:25:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/8/2017 3:25:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2017 3:25:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM

Quantifiers: ** Quantitation Limit

Results reported are not blank corrected

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 NID Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-002A

Client Sample ID: Rm 107
 Tag Number: 419260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.6	TO-15 0.74		ug/m3	1	Analyst: RJP 6/8/2017 3:25:00 PM
Heptane	4.9	0.61		ug/m3	1	6/8/2017 3:25:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2017 3:25:00 PM
Hexane	5.6	5.3		ug/m3	10	6/9/2017 1:52:00 AM
Isopropyl alcohol	71	3.7		ug/m3	10	6/9/2017 1:52:00 AM
m,p-Xylene	1.6	1.3		ug/m3	1	6/8/2017 3:25:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 3:25:00 PM
Methyl Ethyl Ketone	8.3	8.8	J	ug/m3	10	6/8/2017 1:52:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 3:25:00 PM
Methyl tert-butyl ether	< 0.64	0.64		ug/m3	1	6/8/2017 3:25:00 PM
Methylene chloride	1.4	0.52		ug/m3	1	6/8/2017 3:25:00 PM
o-Xylene	0.65	0.65		ug/m3	1	6/8/2017 3:25:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2017 3:25:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2017 3:25:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2017 3:25:00 PM
Toluene	4.8	0.67		ug/m3	1	6/8/2017 3:25:00 PM
trans-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	6/8/2017 3:25:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 3:25:00 PM
Trichloroethane	0.59	0.21		ug/m3	1	6/8/2017 3:25:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2017 3:25:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2017 3:25:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/8/2017 3:25:00 PM

Qualifiers:	**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-003A

Client Sample ID: Rm 112 +MS/MSD
 Tag Number: 215.439
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses

Result

**Limit Qual Units

DF

Date Analyzed

FIELD PARAMETERS

Lab Vacuum In
 Lab Vacuum Out

FLD

"Hg
 "Hg

Analyst:

6/7/2017
 6/7/2017

1UG/M3 W/ 0.25UG/M3 CT-TCE-VC

TO-15

Analyst: RJP

1,1,1-Trichloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,1,2-Trichloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,1-Dichloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,1-Dichloroethene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,2,4-Dibromoethane	0.16	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,2-Dichlorobenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,2-Dichloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,2-Dichloropropane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,3-butadiene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,3-Dichlorobenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,4-Dichlorobenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
1,4-Dioxane	1.4	0.30	ppbv	1	6/8/2017 4:05:00 PM
2,2,4-trimethylpentane	4.2	0.15	ppbv	1	6/8/2017 4:05:00 PM
4-ethyltoluene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Acetone	25	3.0	ppbv	10	6/9/2017 2:31:00 AM
Allyl chloride	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Benzene	0.88	0.15	ppbv	1	6/8/2017 4:05:00 PM
Benzyl chloride	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Bromodichloromethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Bromoform	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Bromomethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Carbon disulfide	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Carbon tetrachloride	0.090	0.040	ppbv	1	6/8/2017 4:05:00 PM
Chlorobenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Chloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Chloroform	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Chloromethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Cyclohexane	1.7	0.15	ppbv	1	6/8/2017 4:05:00 PM
Dibromochloromethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM
Ethyl acetate	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM

Quantifiers:

**

Quantitation Limit

Results reported are not blank corrected

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 NID Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-003A

Client Sample ID: Rm 112 +MS/MSD
 Tag Number: 215.439
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.15	TO-15		ppbv	1	Analyst: RJP 6/8/2017 4:05:00 PM
Freon 11	0.25	0.15		ppbv	1	6/8/2017 4:05:00 PM
Freon 113	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Freon 114	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Freon 12	0.53	0.15		ppbv	1	6/8/2017 4:05:00 PM
Heptane	4.2	1.5		ppbv	10	6/9/2017 2:31:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Hexane	16	1.5		ppbv	10	6/9/2017 2:31:00 AM
Isopropyl alcohol	27	0.15		ppbv	1	6/8/2017 4:05:00 PM
m&p-Xylene	0.32	0.30		ppbv	1	6/8/2017 4:05:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 4:05:00 PM
Methyl Ethyl Ketone	0.66	0.30		ppbv	1	6/8/2017 4:05:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 4:05:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Methylene chloride	0.49	0.15		ppbv	1	6/8/2017 4:05:00 PM
o-Xylene	0.13	0.15	J	ppbv	1	6/8/2017 4:05:00 PM
Propylene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Styrene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Toluene	0.84	0.15		ppbv	1	6/8/2017 4:05:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Trichloroethene	< 0.040	0.040		ppbv	1	6/8/2017 4:05:00 PM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/8/2017 4:05:00 PM
Surf: Bromofluorobenzene	95.0	70-130		%REC	1	6/8/2017 4:05:00 PM

Qualifiers:

**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-003A

Client Sample ID: Rm 112 +MS/MSD
 Tag Number: 215.439
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*W Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82	TO-15	ug/m3	1	Analyst: RJP 6/8/2017 4:05:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 4:05:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 4:05:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 4:05:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2017 4:05:00 PM
1,2,4-Trimethylbenzene	0.79	0.74		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dibromomethane	< 1.2	1.2		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2017 4:05:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 4:05:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2017 4:05:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 4:05:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 4:05:00 PM
1,4-Dioxane	5.0	1.1		ug/m3	1	6/8/2017 4:05:00 PM
2,2,4-trimethylpentane	19	0.70		ug/m3	1	6/8/2017 4:05:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/8/2017 4:05:00 PM
Acetone	59	7.1		ug/m3	10	6/9/2017 2:31:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2017 4:05:00 PM
Benzene	2.8	0.48		ug/m3	1	6/8/2017 4:05:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2017 4:05:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2017 4:05:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/8/2017 4:05:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/8/2017 4:05:00 PM
Carbon tetrachloride	0.57	0.25		ug/m3	1	6/8/2017 4:05:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2017 4:05:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/8/2017 4:05:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2017 4:05:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2017 4:05:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 4:05:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 4:05:00 PM
Cyclohexane	5.9	0.52		ug/m3	1	6/8/2017 4:05:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2017 4:05:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/8/2017 4:05:00 PM
Ethylbenzene	0.65	0.65		ug/m3	1	6/8/2017 4:05:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/8/2017 4:05:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2017 4:05:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM
Qualifiers:						
**	Quantitation Limit	Results reported are not blank corrected				
B	Analyte detected in the associated Method Blank	Estimated Value above quantitation range				
H	Holding times for preparation or analysis exceeded	Analyte detected below quantitation limit				
JN	Non-routine analyte. Quantitation estimated.	NID Not Detected at the Limit of Detection				
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-003A

Client Sample ID: Rm 112 +MS/MSD
 Tag Number: 215.439
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.6	0.74	TO-15	ug/m3	1	Analyst: RJP 6/8/2017 4:05:00 PM
Heptane	17	6.1		ug/m3	10	6/9/2017 2:31:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2017 4:05:00 PM
Hexane	58	5.3		ug/m3	10	6/9/2017 2:31:00 AM
Isopropyl alcohol	66	0.37		ug/m3	1	6/8/2017 4:05:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	6/8/2017 4:05:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 4:05:00 PM
Methyl Ethyl Ketone	1.9	0.88		ug/m3	1	6/8/2017 4:05:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 4:05:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2017 4:05:00 PM
Methylene chloride	1.7	0.52		ug/m3	1	6/8/2017 4:05:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	6/8/2017 4:05:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2017 4:05:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2017 4:05:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2017 4:05:00 PM
Toluene	3.2	0.57		ug/m3	1	6/8/2017 4:05:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 4:05:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 4:05:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	6/8/2017 4:05:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2017 4:05:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2017 4:05:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/8/2017 4:05:00 PM

Qualifiers:	**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-004A

Client Sample ID: Rm 134
 Tag Number: 102.345
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-6			FLD		Analyst:
Lab Vacuum Out	-30			"Hg		6/7/2017
				"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15		ppbv	1	Analyst: RJP 6/15/2017 5:53:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbv	1	6/15/2017 5:53:00 AM
1,2-Dibromooethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/15/2017 5:53:00 AM
2,2,4-trimethylpentane	0.33	0.15		ppbv	1	6/15/2017 5:53:00 AM
4-ethyltoluene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Acetone	17	3.0		ppbv	10	6/9/2017 3:10:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Benzene	0.18	0.15		ppbv	1	6/15/2017 5:53:00 AM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Bromoform	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Bromomethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Carbon disulfide	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Carbon tetrachloride	0.060	0.040		ppbv	1	6/15/2017 5:53:00 AM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Chloroethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Chloroform	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Chloromethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Cyclohexane	0.31	0.15		ppbv	1	6/15/2017 5:53:00 AM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Ethyl acetate	0.35	0.15		ppbv	1	6/15/2017 5:53:00 AM
Qualifiers: ** Quantitation Limit						
B	Analyte detected in the associated Method Blank	F	Results reported are not blank corrected			
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit			
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection			
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-004A

Client Sample ID: Rm 134
 Tag Number: 102.345
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	< 0.15	TO-15		ppbv	1	Analyst: RJP 6/15/2017 5:53:00 AM
Freon 11	0.19	0.15		ppbv	1	6/15/2017 5:53:00 AM
Freon 113	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Freon 114	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Freon 12	0.40	0.15		ppbv	1	6/15/2017 5:53:00 AM
Heptane	0.33	0.15		ppbv	1	6/15/2017 5:53:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Hexane	0.49	0.15		ppbv	1	6/15/2017 5:53:00 AM
Isopropyl alcohol	26	1.5		ppbv	10	6/8/2017 3:10:00 AM
m&p-Xylene	0.18	0.30	J	ppbv	1	6/15/2017 5:53:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 5:53:00 AM
Methyl Ethyl Ketone	0.69	0.30		ppbv	1	6/15/2017 5:53:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 5:53:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Methylene chloride	1.3	0.15		ppbv	1	6/15/2017 5:53:00 AM
o-Xylene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Propylene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Styrene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Tetrachloroethylene	0.11	0.15	J	ppbv	1	6/15/2017 5:53:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Toluene	0.56	0.15		ppbv	1	6/15/2017 5:53:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Trichloroethene	0.060	0.040		ppbv	1	6/15/2017 5:53:00 AM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/15/2017 5:53:00 AM
Surr. Bromofluorobenzene	89.0	70-130		%REC	1	6/15/2017 5:53:00 AM

Qualifiers:	**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte; Quantitation estimated.	NID	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-004A

Client Sample ID: Rm 134
 Tag Number: 102,345
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses		Result	*Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82	ug/m3	1	6/15/2017 5:53:00 AM		
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1	6/15/2017 5:53:00 AM		
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1	6/15/2017 5:53:00 AM		
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1	6/15/2017 5:53:00 AM		
1,1-Dichloroethene	< 0.59	0.59	ug/m3	1	6/15/2017 5:53:00 AM		
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1	6/15/2017 5:53:00 AM		
1,2,4-Trimethylbenzene	0.59	0.74	ug/m3	1	6/15/2017 5:53:00 AM		
1,2-Dibromomethane	< 1.2	1.2	ug/m3	1	6/15/2017 5:53:00 AM		
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1	6/15/2017 5:53:00 AM		
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1	6/15/2017 5:53:00 AM		
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1	6/15/2017 5:53:00 AM		
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1	6/15/2017 5:53:00 AM		
1,3-butadiene	< 0.33	0.33	ug/m3	1	6/15/2017 5:53:00 AM		
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1	6/15/2017 5:53:00 AM		
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1	6/15/2017 5:53:00 AM		
1,4-Dioxane	< 1.1	1.1	ug/m3	1	6/15/2017 5:53:00 AM		
2,2,4-trimethylpentane	1.5	0.70	ug/m3	1	6/15/2017 5:53:00 AM		
4-ethyltoluene	< 0.74	0.74	ug/m3	1	6/15/2017 5:53:00 AM		
Acetone	40	7.1	ug/m3	10	6/9/2017 3:10:00 AM		
Allyl chloride	< 0.47	0.47	ug/m3	1	6/15/2017 5:53:00 AM		
Benzene	0.57	0.48	ug/m3	1	6/15/2017 5:53:00 AM		
Benzyl chloride	< 0.86	0.86	ug/m3	1	6/15/2017 5:53:00 AM		
Bromodichloromethane	< 1.0	1.0	ug/m3	1	6/15/2017 5:53:00 AM		
Bromodorm	< 1.6	1.6	ug/m3	1	6/15/2017 5:53:00 AM		
Bromomethane	< 0.58	0.58	ug/m3	1	6/15/2017 5:53:00 AM		
Carbon disulfide	< 0.47	0.47	ug/m3	1	6/15/2017 5:53:00 AM		
Carbon tetrachloride	0.38	0.25	ug/m3	1	6/15/2017 5:53:00 AM		
Chlorobenzene	< 0.69	0.69	ug/m3	1	6/15/2017 5:53:00 AM		
Chloroethane	< 0.40	0.40	ug/m3	1	6/15/2017 5:53:00 AM		
Chloroform	< 0.73	0.73	ug/m3	1	6/15/2017 5:53:00 AM		
Chloromethane	< 0.31	0.31	ug/m3	1	6/15/2017 5:53:00 AM		
cis-1,2-Dichloroethene	< 0.59	0.59	ug/m3	1	6/15/2017 5:53:00 AM		
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1	6/15/2017 5:53:00 AM		
Cyclohexane	1.1	0.52	ug/m3	1	6/15/2017 5:53:00 AM		
Dibromochloromethane	< 1.3	1.3	ug/m3	1	6/15/2017 5:53:00 AM		
Ethyl acetate	1.3	0.54	ug/m3	1	6/15/2017 5:53:00 AM		
Ethylbenzene	< 0.65	0.65	ug/m3	1	6/15/2017 5:53:00 AM		
Freon 11	1.1	0.84	ug/m3	1	6/15/2017 5:53:00 AM		
Freon 113	< 1.1	1.1	ug/m3	1	6/15/2017 5:53:00 AM		
Freon 114	< 1.0	1.0	ug/m3	1	6/15/2017 5:53:00 AM		
Qualifiers:		Results reported are not blank corrected					
B	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range					
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit					
JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection					
S	Spike Recovery outside accepted recovery limits						

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-004A

Client Sample ID: Rm 134
 Tag Number: 102.345
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.0	TO-15 0.74		ug/m3	1	Analyst: RJP 6/15/2017 5:53:00 AM
Heptane	1.4	0.61		ug/m3	1	6/15/2017 5:53:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 5:53:00 AM
Hexane	1.7	0.53		ug/m3	1	6/15/2017 5:53:00 AM
Isopropyl alcohol	65	3.7		ug/m3	10	6/9/2017 3:10:00 AM
m&p-Xylene	0.78	1.3	J	ug/m3	1	6/15/2017 5:53:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 5:53:00 AM
Methyl Ethyl Ketone	2.0	0.88		ug/m3	1	6/15/2017 5:53:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 5:53:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 5:53:00 AM
Methylene chloride	4.7	0.52		ug/m3	1	6/15/2017 5:53:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	6/15/2017 5:53:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 5:53:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 5:53:00 AM
Tetrachloroethylene	0.75	1.0	J	ug/m3	1	6/15/2017 5:53:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/15/2017 5:53:00 AM
Toluene	2.1	0.57		ug/m3	1	6/15/2017 5:53:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 5:53:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 5:53:00 AM
Trichloroethene	0.32	0.21		ug/m3	1	6/15/2017 5:53:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 5:53:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 5:53:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 5:53:00 AM

Qualifiers:

**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL, St
 Lab ID: C1706015-005A

Client Sample ID: Elevator
 Tag Number: 131.455
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	.4			FLD		Analyst:
Lab Vacuum Out	-30			"Hg		6/7/2017
				"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15		ppbv	1	Analyst: RJP 6/15/2017 6:36:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,2,4-Trimethylbenzene	1.5	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,3,5-Trimethylbenzene	0.71	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/15/2017 6:36:00 AM
2,2,4-trimethylpentane	0.25	0.15		ppbv	1	6/15/2017 6:36:00 AM
4-ethyltoluene	0.29	0.15		ppbv	1	6/15/2017 6:36:00 AM
Acetone	43	6.0		ppbv	20	6/9/2017 8:24:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Benzene	0.59	0.15		ppbv	1	6/15/2017 6:36:00 AM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Bromotorm	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Bromomethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Carbon disulfide	0.32	0.15		ppbv	1	6/15/2017 6:36:00 AM
Carbon tetrachloride	0.080	0.040		ppbv	1	6/15/2017 6:36:00 AM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Chloroethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Chloroform	0.12	0.15	J	ppbv	1	6/15/2017 6:36:00 AM
Chloromethane	0.91	0.15		ppbv	1	6/15/2017 6:36:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Cyclohexane	0.42	0.15		ppbv	1	6/15/2017 6:36:00 AM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Ethyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Quantifiers:						
**	Quantitation Limit					Results reported are not blank corrected
B	Analyte detected in the associated Method Blank				E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded				J	Analyte detected below quantitation limit
JN	Non-routine analyte; Quantitation estimated.				ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-005A

Client Sample ID: Elevator
 Tag Number: 131.455
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.28	TO-15		ppbv	1	Analyst: RJP 6/15/2017 6:36:00 AM
Freon 11	0.25	0.15		ppbv	1	6/15/2017 6:36:00 AM
Freon 113	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Freon 114	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Freon 12	0.51	0.15		ppbv	1	6/15/2017 6:36:00 AM
Heptane	0.35	0.15		ppbv	1	6/15/2017 6:36:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Hexane	0.95	0.15		ppbv	1	6/15/2017 6:36:00 AM
Isopropyl alcohol	42	3.0		ppbv	20	6/9/2017 8:24:00 AM
m&p-Xylene	1.2	0.30		ppbv	1	6/15/2017 6:36:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 6:36:00 AM
Methyl Ethyl Ketone	3.2	3.0		ppbv	10	6/9/2017 3:50:00 AM
Methyl Isobutyl Ketone	0.19	0.30	J	ppbv	1	6/15/2017 6:36:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Methylene chloride	1.9	1.5		ppbv	10	6/9/2017 3:50:00 AM
o-Xylene	0.47	0.15		ppbv	1	6/15/2017 6:36:00 AM
Propylene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Styrene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Tetrahydrofuran	0.49	0.15		ppbv	1	6/15/2017 6:36:00 AM
Toluene	2.0	0.15		ppbv	1	6/15/2017 6:36:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Trichloroethene	0.29	0.040		ppbv	1	6/15/2017 6:36:00 AM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/15/2017 6:36:00 AM
Surf: Bromofluorobenzene	109	70-130		%REC	1	6/15/2017 6:36:00 AM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.

Client Sample ID: Elevator

Lab Order: C1706015

Tag Number: 131.455

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-005A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82	TO-15	ug/m3	1	Analyst: RJP 6/15/2017 6:36:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 6:36:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 6:36:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 6:36:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 6:36:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 6:36:00 AM
1,2,4-Trimethylbenzene	7.3	0.74		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 6:36:00 AM
1,3,5-Trimethylbenzene	3.5	0.74		ug/m3	1	6/15/2017 6:36:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 6:36:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 6:36:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 6:36:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 6:36:00 AM
2,2,4-trimethylpentane	1.2	0.70		ug/m3	1	6/15/2017 6:36:00 AM
4-ethyltoluene	1.4	0.74		ug/m3	1	6/15/2017 6:36:00 AM
Acetone	100	14		ug/m3	20	6/9/2017 8:24:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 6:36:00 AM
Benzene	1.9	0.48		ug/m3	1	6/15/2017 6:36:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 6:36:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 6:36:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/15/2017 6:36:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 6:36:00 AM
Carbon disulfide	1.0	0.47		ug/m3	1	6/15/2017 6:36:00 AM
Carbon tetrachloride	0.50	0.25		ug/m3	1	6/15/2017 6:36:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 6:36:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 6:36:00 AM
Chloroform	0.59	0.73	J	ug/m3	1	6/15/2017 6:36:00 AM
Chloromethane	1.9	0.31		ug/m3	1	6/15/2017 6:36:00 AM
cis-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	6/15/2017 6:36:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 6:36:00 AM
Cyclohexane	1.4	0.52		ug/m3	1	6/15/2017 6:36:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 6:36:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/15/2017 6:36:00 AM
Ethylbenzene	1.2	0.85		ug/m3	1	6/15/2017 6:36:00 AM
Freon 11	1.4	0.84		ug/m3	1	6/15/2017 6:36:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 6:36:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 6:36:00 AM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

E Estimated Value above quantitation range
J Analyte detected below quantitation limit
NID Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.

Client Sample ID: Elevator

Lab Order: C1706015

Tag Number: 131455

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-005A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	6/16/2017 6:36:00 AM
Heptane	1.4	0.61		ug/m3	1	6/16/2017 6:36:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/16/2017 6:36:00 AM
Hexane	3.3	0.53		ug/m3	1	6/16/2017 6:36:00 AM
Isopropyl alcohol	100	7.4		ug/m3	20	6/9/2017 8:24:00 AM
m&p-Xylene	5.0	1.3		ug/m3	1	6/16/2017 6:36:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/16/2017 6:36:00 AM
Methyl Ethyl Ketone	9.4	8.8		ug/m3	10	6/9/2017 3:50:00 AM
Methyl Isobutyl Ketone	0.78	1.2	J	ug/m3	1	6/16/2017 6:36:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/16/2017 6:36:00 AM
Methylene chloride	6.6	5.2		ug/m3	10	6/9/2017 3:50:00 AM
o-Xylene	2.0	0.65		ug/m3	1	6/16/2017 6:36:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/16/2017 6:36:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/16/2017 6:36:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/16/2017 6:36:00 AM
Tetrahydrofuran	1.4	0.44		ug/m3	1	6/16/2017 6:36:00 AM
Toluene	7.5	0.57		ug/m3	1	6/16/2017 6:36:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/16/2017 6:36:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/16/2017 6:36:00 AM
Trichloroethene	1.6	0.21		ug/m3	1	6/16/2017 6:36:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/16/2017 6:36:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/16/2017 6:36:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/16/2017 6:36:00 AM

Qualifiers: ** Quantitation Limit

B	Analyte detected in the associated Method Blank	E	Results reported are not blank corrected
H	Holding times for preparation or analysis exceeded	J	Estimated Value above quantitation range
JN	Non-routine analyte. Quantitation estimated.		Analyte detected below quantitation limit
S	Spike Recovery outside accepted recovery limits	NID	Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-006A

Client Sample ID: Roof
 Tag Number: 129.1160
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-6		FLD	"Hg		Analyst: 6/7/2017
Lab Vacuum Out	-30			"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15	TO-15	ppbv	1	Analyst: RJP 6/15/2017 7:18:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2,4-Trimethylbenzene	0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/15/2017 7:18:00 AM
2,2,4-trimethylpentane	0.43	0.15		ppbv	1	6/15/2017 7:18:00 AM
4-ethyltoluene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Acetone	30	3.0		ppbv	10	6/9/2017 4:28:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Benzene	0.35	0.15		ppbv	1	6/15/2017 7:18:00 AM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Bromoform	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Bromomethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Carbon disulfide	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Carbon tetrachloride	0.070	0.040		ppbv	1	6/15/2017 7:18:00 AM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Chloroethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Chloroform	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Chloromethane	0.75	0.15		ppbv	1	6/15/2017 7:18:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Cyclohexane	0.41	0.15		ppbv	1	6/15/2017 7:18:00 AM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Ethyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Qualifiers:						
**	Quantitation Limit	Results reported are not blank corrected				
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range			
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit			
JN	Non-routine analyte. Quantitation estimated.	NID	Not Detected at the Limit of Detection			
S	Spike Recovery outside accepted recovery limits					

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-006A

Client Sample ID: Roof
 Tag Number: 129.1160
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	< 0.15	TO-15		ppbv	1	Analyst: RJP 6/15/2017 7:18:00 AM
Freon 11	0.21	0.15		ppbv	1	6/15/2017 7:18:00 AM
Freon 113	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Freon 114	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Freon 12	0.46	0.15		ppbv	1	6/15/2017 7:18:00 AM
Heptane	0.35	0.15		ppbv	1	6/15/2017 7:18:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Hexane	1.7	0.15		ppbv	1	6/15/2017 7:18:00 AM
Isopropyl alcohol	1.2	0.15		ppbv	1	6/15/2017 7:18:00 AM
m&p-Xylene	0.17	0.30	J	ppbv	1	6/15/2017 7:18:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 7:18:00 AM
Methyl Ethyl Ketone	0.52	0.30		ppbv	1	6/15/2017 7:18:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 7:18:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Methylene chloride	6.1	1.5		ppbv	10	6/9/2017 4:28:00 AM
o-Xylene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Propylene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Styrene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Toluene	0.86	0.15		ppbv	1	6/15/2017 7:18:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Trichloroethene	0.10	0.040		ppbv	1	6/15/2017 7:18:00 AM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/15/2017 7:18:00 AM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	6/15/2017 7:18:00 AM

Qualifiers:	**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	NID	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.

Client Sample ID: Roof

Lab Order: C1706015

Tag Number: 129.1160

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-006A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	TO-15 0.82	ug/m3	1	Analyst: RJP	6/15/2017 7:18:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/m3	1		6/15/2017 7:18:00 AM
1,1,2-Trichloroethane	< 0.82	0.82	ug/m3	1		6/15/2017 7:18:00 AM
1,1-Dichloroethane	< 0.61	0.61	ug/m3	1		6/15/2017 7:18:00 AM
1,1-Dichloroethene	< 0.59	0.59	ug/m3	1		6/15/2017 7:18:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1	ug/m3	1		6/15/2017 7:18:00 AM
1,2,4-Trimethylbenzene	0.74	0.74	ug/m3	1		6/15/2017 7:18:00 AM
1,2-Dibromoethane	< 1.2	1.2	ug/m3	1		6/15/2017 7:18:00 AM
1,2-Dichlorobenzene	< 0.90	0.90	ug/m3	1		6/15/2017 7:18:00 AM
1,2-Dichloroethane	< 0.61	0.61	ug/m3	1		6/15/2017 7:18:00 AM
1,2-Dichloropropane	< 0.69	0.69	ug/m3	1		6/15/2017 7:18:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74	ug/m3	1		6/15/2017 7:18:00 AM
1,3-butadiene	< 0.33	0.33	ug/m3	1		6/15/2017 7:18:00 AM
1,3-Dichlorobenzene	< 0.90	0.90	ug/m3	1		6/15/2017 7:18:00 AM
1,4-Dichlorobenzene	< 0.90	0.90	ug/m3	1		6/15/2017 7:18:00 AM
1,4-Dioxane	< 1.1	1.1	ug/m3	1		6/15/2017 7:18:00 AM
2,2,4-trimethylpentane	2.0	0.70	ug/m3	1		6/15/2017 7:18:00 AM
4-ethyltoluene	< 0.74	0.74	ug/m3	1		6/15/2017 7:18:00 AM
Acetone	70	7.1	ug/m3	10		6/9/2017 4:28:00 AM
Allyl chloride	< 0.47	0.47	ug/m3	1		6/15/2017 7:18:00 AM
Benzene	1.1	0.48	ug/m3	1		6/15/2017 7:18:00 AM
Benzyl chloride	< 0.86	0.86	ug/m3	1		6/15/2017 7:18:00 AM
Bromodichloromethane	< 1.0	1.0	ug/m3	1		6/15/2017 7:18:00 AM
Bromoform	< 1.6	1.6	ug/m3	1		6/15/2017 7:18:00 AM
Bromomethane	< 0.58	0.58	ug/m3	1		6/15/2017 7:18:00 AM
Carbon disulfide	< 0.47	0.47	ug/m3	1		6/15/2017 7:18:00 AM
Carbon tetrachloride	0.44	0.25	ug/m3	1		6/15/2017 7:18:00 AM
Chlorobenzene	< 0.69	0.69	ug/m3	1		6/15/2017 7:18:00 AM
Chloroethane	< 0.40	0.40	ug/m3	1		6/15/2017 7:18:00 AM
Chloroform	< 0.73	0.73	ug/m3	1		6/15/2017 7:18:00 AM
Chloromethane	1.5	0.31	ug/m3	1		6/15/2017 7:18:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59	ug/m3	1		6/15/2017 7:18:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68	ug/m3	1		6/15/2017 7:18:00 AM
Cyclohexane	1.4	0.52	ug/m3	1		6/15/2017 7:18:00 AM
Dibromochloromethane	< 1.3	1.3	ug/m3	1		6/15/2017 7:18:00 AM
Ethyl acetate	< 0.54	0.54	ug/m3	1		6/15/2017 7:18:00 AM
Ethylbenzene	< 0.65	0.65	ug/m3	1		6/15/2017 7:18:00 AM
Freon 11	1.2	0.84	ug/m3	1		6/15/2017 7:18:00 AM
Freon 113	< 1.1	1.1	ug/m3	1		6/15/2017 7:18:00 AM
Freon 114	< 1.0	1.0	ug/m3	1		6/15/2017 7:18:00 AM

Qualifiers: ** Quantitation Limit

Results reported are not blank corrected

B	Analyte detected in the associated Method Blank	F	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	NID	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.

Client Sample ID: Roof

Lab Order: C1706015

Tag Number: 129.1160

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-006A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.3	TO-15 0.74		ug/m3	1	Analyst: RJP 6/15/2017 7:18:00 AM
Heptane	1.4	0.61		ug/m3	1	6/15/2017 7:18:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 7:18:00 AM
Hexane	6.1	0.53		ug/m3	1	6/15/2017 7:18:00 AM
Isopropyl alcohol	2.9	0.37		ug/m3	1	6/15/2017 7:18:00 AM
m&P-Xylene	0.74	1.3	J	ug/m3	1	6/15/2017 7:18:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 7:18:00 AM
Methyl Ethyl Ketone	1.5	0.88		ug/m3	1	6/15/2017 7:18:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 7:18:00 AM
Methyl ten-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 7:18:00 AM
Methylene chloride	21	5.2		ug/m3	10	6/9/2017 4:28:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	6/15/2017 7:18:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 7:18:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 7:18:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/15/2017 7:18:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/15/2017 7:18:00 AM
Toluene	3.2	0.57		ug/m3	1	6/15/2017 7:18:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 7:18:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 7:18:00 AM
Trichloroethene	0.54	0.21		ug/m3	1	6/15/2017 7:18:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 7:18:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 7:18:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 7:18:00 AM

Quantifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

E Estimated Value above quantitation range

J Analyte detected below quantitation limit

NID Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-007A

Client Sample ID: Rm 126
 Tag Number: 225.265
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-6		FLD	"Hg		Analyst: 6/7/2017
Lab Vacuum Out	-30			"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15	TO-15	ppbv	1	Analyst: RJP 6/15/2017 8:01:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbv	1	6/15/2017 8:01:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,3-Butadiene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/15/2017 8:01:00 AM
2,2,4-Trimethylpentane	0.71	0.15		ppbv	1	6/15/2017 8:01:00 AM
4-Ethyltoluene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Acetone	21	3.0		ppbv	10	6/9/2017 5:06:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Benzene	0.37	0.15		ppbv	1	6/15/2017 8:01:00 AM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Bromoforn	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Bromomethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Carbon disulfide	0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Carbon tetrachloride	0.070	0.040		ppbv	1	6/15/2017 8:01:00 AM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Chloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Chloroform	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Chloromethane	0.61	0.15		ppbv	1	6/15/2017 8:01:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Cyclohexane	0.30	0.15		ppbv	1	6/15/2017 8:01:00 AM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Ethyl acetate	0.89	0.15		ppbv	1	6/15/2017 8:01:00 AM
Qualifiers:						
**	Quantitation Limit					Results reported are not blank corrected
B	Analyte detected in the associated Method Blank				E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded				J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.				NID	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-007A

Client Sample ID: Rm 126
 Tag Number: 225.265
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.18	TO-15 0.15		ppbv	1	Analyst: RJP 6/15/2017 8:01:00 AM
Freon 11	0.20	0.15		ppbv	1	6/15/2017 8:01:00 AM
Freon 113	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Freon 114	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Freon 12	0.42	0.15		ppbv	1	6/15/2017 8:01:00 AM
Heptane	1.0	0.15		ppbv	1	6/15/2017 8:01:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Hexane	1.0	0.15		ppbv	1	6/15/2017 8:01:00 AM
Isopropyl alcohol	48	1.5		ppbv	10	6/6/2017 5:06:00 AM
m&g-Xylene	0.30	0.30		ppbv	1	6/15/2017 8:01:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 8:01:00 AM
Methyl Ethyl Ketone	0.93	0.30		ppbv	1	6/15/2017 8:01:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 8:01:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Methylene chloride	0.67	0.15		ppbv	1	6/15/2017 8:01:00 AM
o-Xylene	0.11	0.15	J	ppbv	1	6/15/2017 8:01:00 AM
Propylene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Styrene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Tetrahydrofuran	0.50	0.15		ppbv	1	6/15/2017 8:01:00 AM
Toluene	0.72	0.15		ppbv	1	6/15/2017 8:01:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Trichloroethene	< 0.040	0.040		ppbv	1	6/15/2017 8:01:00 AM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/15/2017 8:01:00 AM
Surr. Bromofluorobenzene	90.0	70-130		%REC	1	6/15/2017 8:01:00 AM

Quantifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

E Results reported are not blank corrected

J Estimated Value above quantitation range

ND Analyte detected below quantitation limit

ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-007A

Client Sample ID: Rm 126
 Tag Number: 225.265
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	TO-15 0.82		ug/m3	1	Analyst: RJP 6/15/2017 8:01:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 8:01:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:01:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:01:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 8:01:00 AM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 8:01:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/15/2017 8:01:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 8:01:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:01:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:01:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 8:01:00 AM
2,2,4-Trimethylpentane	3.3	0.70		ug/m3	1	6/15/2017 8:01:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/15/2017 8:01:00 AM
Acetone	49	7.1		ug/m3	10	6/9/2017 5:06:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 8:01:00 AM
Benzene	1.2	0.48		ug/m3	1	6/15/2017 8:01:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 8:01:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/15/2017 8:01:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 8:01:00 AM
Carbon disulfide	0.47	0.47		ug/m3	1	6/15/2017 8:01:00 AM
Carbon tetrachloride	0.44	0.25		ug/m3	1	6/15/2017 8:01:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 8:01:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 8:01:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/15/2017 8:01:00 AM
Chloromethane	1.3	0.31		ug/m3	1	6/15/2017 8:01:00 AM
cis-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	6/15/2017 8:01:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:01:00 AM
Cyclohexane	1.0	0.52		ug/m3	1	6/15/2017 8:01:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 8:01:00 AM
Ethyl acetate	3.2	0.54		ug/m3	1	6/15/2017 8:01:00 AM
Ethylbenzene	0.78	0.65		ug/m3	1	6/15/2017 8:01:00 AM
Freon 11	1.1	0.84		ug/m3	1	6/15/2017 8:01:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 8:01:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM

Qualifiers: ** Quantitation Limit

Results reported are not blank corrected

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 NID Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: CI706015
 Project: 690 ST PAUL St
 Lab ID: CI706015-007A

Client Sample ID: Rm 126
 Tag Number: 225,265
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.1	TO-15 0.74		ug/m3	1	Analyst: RJP 6/15/2017 8:01:00 AM
Heptane	4.2	0.61		ug/m3	1	6/15/2017 8:01:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 8:01:00 AM
Hexane	3.7	0.53		ug/m3	1	6/15/2017 8:01:00 AM
Isopropyl alcohol	120	3.7		ug/m3	10	6/9/2017 5:06:00 AM
m&p-Xylene	1.3	1.3		ug/m3	1	6/15/2017 8:01:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:01:00 AM
Methyl Ethyl Ketone	2.7	0.88		ug/m3	1	6/15/2017 8:01:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:01:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 8:01:00 AM
Methylene chloride	2.3	0.52		ug/m3	1	6/15/2017 8:01:00 AM
o-Xylene	0.48	0.65	J	ug/m3	1	6/15/2017 8:01:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 8:01:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 8:01:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM
Tetrahydrofuran	1.5	0.44		ug/m3	1	6/15/2017 8:01:00 AM
Toluene	2.7	0.57		ug/m3	1	6/15/2017 8:01:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:01:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:01:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	6/15/2017 8:01:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 8:01:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 8:01:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 8:01:00 AM

Qualifiers:	**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 20-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-008A

Client Sample ID: Rm 107 Dup
 Tag Number: 98.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*W Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-3			FLD		Analyst: 6/7/2017
Lab Vacuum Out	-30			"Hg "Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15		TO-15		Analyst: RJP 6/15/2017 8:43:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,2,4-Trimethylbenzene	0.18	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,2-Dibromooethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/15/2017 8:43:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
4-ethyltoluene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Acetone	17	3.0		ppbv	10	6/9/2017 5:45:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Benzene	0.68	0.15		ppbv	1	6/15/2017 8:43:00 AM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Bromoforn	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Bromomethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Carbon disulfide	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Carbon tetrachloride	0.080	0.040		ppbv	1	6/15/2017 8:43:00 AM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Chloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Chloroform	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Chloromethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Cyclohexane	1.4	0.15		ppbv	1	6/15/2017 8:43:00 AM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Ethyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Quantifiers:						
**	Quantitation Limit					Results reported are not blank corrected
B	Analyte detected in the associated Method Blank					E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded					J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.					ND Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-008A

Client Sample ID: Rm 107 Dup
 Tag Number: 98-260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.22	TO-15				Analyst: RJP
Freon 11	0.27	0.15		ppbv	1	6/15/2017 8:43:00 AM
Freon 113	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Freon 114	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Freon 12	0.53	0.15		ppbv	1	6/15/2017 8:43:00 AM
Heptane	2.2	0.15		ppbv	1	6/15/2017 8:43:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Hexane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Isopropyl alcohol	29	1.5		ppbv	10	6/9/2017 5:45:00 AM
m&p-Xylene	0.44	0.30		ppbv	1	6/15/2017 8:43:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 8:43:00 AM
Methyl Ethyl Ketone	1.5	0.30		ppbv	1	6/15/2017 8:43:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 8:43:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Methylene chloride	1.0	0.15		ppbv	1	6/15/2017 8:43:00 AM
o-Xylene	0.17	0.15		ppbv	1	6/15/2017 8:43:00 AM
Propylene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Styrene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Toluene	1.2	0.15		ppbv	1	6/15/2017 8:43:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Trichloroethene	0.22	0.040		ppbv	1	6/15/2017 8:43:00 AM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/15/2017 8:43:00 AM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	6/15/2017 8:43:00 AM

Qualifiers:	**	Quantitation Limit			Results reported are not blank corrected
B	Analyte detected in the associated Method Blank		E	Estimated Value above quantitation range	
H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limit	
JN	Non-routine analyte. Quantitation estimated.		ND	Not Detected at the Limit of Detection	
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-008A

Client Sample ID: Rm 107 Dup
 Tag Number: 98.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82	TO-15	ug/m3	1	Analyst: RJP 6/15/2017 8:43:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 8:43:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:43:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:43:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 8:43:00 AM
1,2,4-Trimethylbenzene	0.88	0.74		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 8:43:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/15/2017 8:43:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 8:43:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:43:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:43:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 8:43:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/15/2017 8:43:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/15/2017 8:43:00 AM
Acetone	41	7.1		ug/m3	10	6/9/2017 5:46:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 8:43:00 AM
Benzene	2.2	0.48		ug/m3	1	6/15/2017 8:43:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 8:43:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/15/2017 8:43:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 8:43:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/15/2017 8:43:00 AM
Carbon tetrachloride	0.50	0.25		ug/m3	1	6/15/2017 8:43:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 8:43:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 8:43:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/15/2017 8:43:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/15/2017 8:43:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:43:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:43:00 AM
Cyclohexane	4.9	0.62		ug/m3	1	6/15/2017 8:43:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 8:43:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/15/2017 8:43:00 AM
Ethylbenzene	0.96	0.65		ug/m3	1	6/15/2017 8:43:00 AM
Freon 11	1.5	0.84		ug/m3	1	6/15/2017 8:43:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 8:43:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM

Qualifiers:	**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated	NID	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 107 Dup

Lab Order: C1706015

Tag Number: 98.260

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-008A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.6	0.74	TO-15	ug/m3	1	Analyst: RJP 6/15/2017 8:43:00 AM
Heptane	9.1	0.61		ug/m3	1	6/15/2017 8:43:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 8:43:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/15/2017 8:43:00 AM
Isopropyl alcohol	71	3.7		ug/m3	10	6/9/2017 5:45:00 AM
m&p-Xylene	1.9	1.3		ug/m3	1	6/15/2017 8:43:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:43:00 AM
Methyl Ethyl Ketone	4.5	0.88		ug/m3	1	6/15/2017 8:43:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:43:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 8:43:00 AM
Methylene chloride	3.5	0.52		ug/m3	1	6/15/2017 8:43:00 AM
o-Xylene	0.74	0.65		ug/m3	1	6/15/2017 8:43:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 8:43:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 8:43:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/15/2017 8:43:00 AM
Toluene	4.4	0.57		ug/m3	1	6/15/2017 8:43:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:43:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:43:00 AM
Trichloroethene	1.2	0.21		ug/m3	1	6/15/2017 8:43:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 8:43:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 8:43:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 8:43:00 AM

Qualifiers:	**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 29-Jun-17

Matrix: A

Sample ID	BRFRZ
ALCSUG-060817	105
ALCSUG-061417	103
ALCSUGD-060817	103
AMBUC-060817	90.0
AMBIG-061417	89.0
C1706015-001A	95.0
C1706015-002A	101
C1706015-003A	95.0
C1706015-003A MS	100
C1706015-003A MSD	104
C1706015-004A	89.0
C1706015-005A	109
C1706015-006A	93.0
C1706015-007A	90.0
C1706015-008A	94.0

* Surrogate recovery outside acceptance limits

Centek Laboratories, LLC

GC/MS QA-QC Check Report

June File : C:\HPCHEM\1\DATA\AO060802.D
 June Time : 8 Jun 2017 10:30 am

Daily Calibration File : C:\HPCHEM\1\DATA\AO060802.D

(BFB)				(IS1)	(IS2)	(IS3)
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AO060803.D	ALC51UG-060817	105		32591	146395	130206
AO060804.D	AMB1UG-060817	90		30410	138314	122233
AO060808.D	CI706015-001A	95		38757	169788	151036
AO060809.D	CI706015-002A	101		33329	158231	144429
AO060810.D	CI706015-003A	95		34887	165266	144676
AO060811.D	CI706015-003A MS	100		37468	172474	159996
AO060812.D	CI706015-003A MSD	104		37208	180798	162242
AO060818.D	ALC51UGD-060817	103		34698	165595	140036
AO060823.D	CI706015-001A 10X	93		30329	132751	117033
AO060824.D	CI706015-002A 10X	95		30002	129802	113386
AO060825.D	CI706015-003A 10X	94		29079	130370	115691
AO060826.D	CI706015-004A 10X	91		29369	131274	119411
AO060827.D	CI706015-005A 10X	94		30499	133539	121291
AO060828.D	CI706015-006A 10X	93		30088	134990	118369
AO060829.D	CI706015-007A 10X	90		29644	127102	113196
AO060830.D	CI706015-008A 10X	93		29816	129103	111432
AO060831.D	CI706015-001A 90X	94		28904	128075	111157
AO060832.D	CI706015-005A 20X	92		29594	121669	112457

t - fails 24hr time check * - fails criteria

Created: Thu Jun 29 10:19:54 2017 MSD #1/

Centek Laboratories, LLC

GC/MS QA-QC Check Report

Run File : C:\HPCHEM\1\DATA\AO061402.D
 Run Time : 14 Jun 2017 10:38 am

Daily Calibration File : C:\HPCHEM\1\DATA\AO061402.D

File	Sample	DL Surrogate Recovery %	Internal Standard Responses		
	(BPB)		(IS1)	(IS2)	(IS3)
			34438	161937	142604
AO061403.D	ALCSTUG-061417 103		34227	157370	133087
AO061404.D	AMB1UG-061417 89		33182	143744	128923
AO061413.D	CI706015-004A 89		35433	151185	134973
AO061414.D	CI706015-005A 109		34791	152431	138941
AO061415.D	CI706015-006A 93		34843	156350	136513
AO061416.D	CI706015-007A 90		35122	150124	137895
AO061417.D	CI706015-008A 94		33509	158237	141533
t - fails 24hr time check * - fails criteria					

Created: Thu Jun 29 10:31:11 2017 MSD #1/



CENTEK LABORATORIES, LLC

Date: 29-Jun-17

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-060817	SampType:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	ZZZZZ	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143981
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.090	0.15	1	0	109	70	130				
1,1,2,2-Tetrachloroethane	1.110	0.15	1	0	111	70	130				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	70	130				
1,1-Dichloroethane	1.070	0.15	1	0	107	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	1.160	0.15	1	0	116	70	130				
1,2,4-Trimethylbenzene	1.040	0.15	1	0	104	70	130				
1,2-Dibromoethane	1.050	0.15	1	0	105	70	130				
1,2-Dichlorobenzene	1.130	0.15	1	0	113	70	130				
1,2-Dichloroethane	1.060	0.15	1	0	106	70	130				
1,2-Dichloropropane	1.120	0.15	1	0	112	70	130				
1,3,5-Trimethylbenzene	1.070	0.15	1	0	107	70	130				
1,3-butadiene	0.9000	0.15	1	0	90.0	70	130				
1,3-Dichlorobenzene	1.110	0.15	1	0	111	70	130				
1,4-Dichlorobenzene	1.150	0.15	1	0	115	70	130				
1,4-Dioxane	0.9600	0.30	1	0	96.0	70	130				
2,2,4-trimethylpentane	1.100	0.15	1	0	110	70	130				
4-ethyltoluene	1.090	0.15	1	0	109	70	130				
Acetone	1.000	0.30	1	0	100	70	130				
Allyl chloride	1.040	0.15	1	0	104	70	130				
Benzene	1.060	0.15	1	0	106	70	130				
Benzyl chloride	1.230	0.15	1	0	123	70	130				
Bromodichloromethane	1.070	0.15	1	0	107	70	130				
Bromoform	1.030	0.15	1	0	103	70	130				
Bromomethane	0.7200	0.15	1	0	72.0	70	130				

Qualifiers: . Results reported are not blank corrected
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-060817	SampType:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	ZZZZZ	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143981
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.040	0.15	1	0	104	70	130				
Carbon tetrachloride	1.100	0.040	1	0	110	70	130				
Chlorobenzene	1.060	0.15	1	0	106	70	130				
Chloroethane	0.8500	0.15	1	0	85.0	70	130				
Chloroform	1.080	0.15	1	0	108	70	130				
Chloromethane	1.040	0.15	1	0	104	70	130				
cis-1,2-Dichloroethene	1.070	0.15	1	0	107	70	130				
cis-1,3-Dichloropropene	1.120	0.15	1	0	112	70	130				
Cyclohexane	1.140	0.15	1	0	114	70	130				
Dibromochloromethane	1.060	0.15	1	0	106	70	130				
Ethyl acetate	1.070	0.15	1	0	107	70	130				
Ethylbenzene	1.070	0.15	1	0	107	70	130				
Freon 11	0.9900	0.15	1	0	99.0	70	130				
Freon 113	1.060	0.15	1	0	106	70	130				
Freon 114	0.8500	0.15	1	0	85.0	70	130				
Freon 12	0.9600	0.15	1	0	96.0	70	130				
Heptane	1.160	0.15	1	0	116	70	130				
Hexachloro-1,3-butadiene	1.070	0.15	1	0	107	70	130				
Hexane	1.080	0.15	1	0	108	70	130				
Isopropyl alcohol	0.9800	0.15	1	0	98.0	70	130				
m&p-Xylene	2.190	0.30	2	0	110	70	130				
Methyl Butyl Ketone	0.7500	0.30	1	0	75.0	70	130				
Methyl Ethyl Ketone	0.9300	0.30	1	0	93.0	70	130				
Methyl Isobutyl Ketone	0.7200	0.30	1	0	72.0	70	130				
Methyl tert-butyl ether	1.080	0.15	1	0	108	70	130				
Methylene chloride	1.060	0.15	1	0	106	70	130				
o-Xylene	1.070	0.15	1	0	107	70	130				
Propylene	1.120	0.15	1	0	112	70	130				
Styrene	1.090	0.15	1	0	109	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	0.9700	0.15	1	0	97.0	70	130				

Qualifiers:	Results reported are not blank corrected	E	Estimated Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-060817	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID:	ZZZZZ	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143981					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.030	0.15	1	0	103	70	130				
trans-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
trans-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130				
Trichloroethene	1.020	0.040	1	0	102	70	130				
Vinyl acetate	1.050	0.15	1	0	105	70	130				
Vinyl Bromide	0.7900	0.15	1	0	79.0	70	130				
Vinyl chloride	0.8400	0.040	1	0	84.0	70	130				

Sample ID	ALCS1UG-061417	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143999					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9300	0.15	1	0	93.0	70	130				
1,1,2,2-Tetrachloroethane	1.140	0.15	1	0	114	70	130				
1,1,2-Trichloroethane	1.050	0.15	1	0	105	70	130				
1,1-Dichloroethane	1.110	0.15	1	0	111	70	130				
1,1-Dichloroethene	1.020	0.15	1	0	102	70	130				
1,2,4-Trichlorobenzene	1.030	0.15	1	0	103	70	130				
1,2,4-Trimethylbenzene	0.9900	0.15	1	0	99.0	70	130				
1,2-Dibromoethane	1.060	0.15	1	0	106	70	130				
1,2-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130				
1,2-Dichloroethane	1.020	0.15	1	0	102	70	130				
1,2-Dichloropropane	1.110	0.15	1	0	111	70	130				
1,3,5-Trimethylbenzene	1.000	0.15	1	0	100	70	130				
1,3-butadiene	0.9500	0.15	1	0	95.0	70	130				
1,3-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dioxane	1.030	0.30	1	0	103	70	130				
2,2,4-trimethylpentane	1.130	0.15	1	0	113	70	130				
4-ethyltoluene	1.060	0.15	1	0	106	70	130				

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-061417	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143999					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.120	0.30	1	0	112	70	130				
Allyl chloride	1.020	0.15	1	0	102	70	130				
Benzene	1.050	0.15	1	0	105	70	130				
Benzyl chloride	0.9600	0.15	1	0	96.0	70	130				
Bromodichloromethane	0.9400	0.15	1	0	94.0	70	130				
Bromoform	0.7600	0.15	1	0	76.0	70	130				
Bromomethane	0.7100	0.15	1	0	71.0	70	130				
Carbon disulfide	1.110	0.15	1	0	111	70	130				
Carbon tetrachloride	0.8400	0.040	1	0	84.0	70	130				
Chlorobenzene	1.000	0.15	1	0	100	70	130				
Chloroethane	0.8700	0.15	1	0	87.0	70	130				
Chloroform	1.030	0.15	1	0	103	70	130				
Chloromethane	1.090	0.15	1	0	109	70	130				
cis-1,2-Dichloroethene	1.060	0.15	1	0	106	70	130				
cis-1,3-Dichloropropene	1.040	0.15	1	0	104	70	130				
Cyclohexane	1.140	0.15	1	0	114	70	130				
Dibromochloromethane	0.8900	0.15	1	0	89.0	70	130				
Ethyl acetate	1.200	0.15	1	0	120	70	130				
Ethylbenzene	1.010	0.15	1	0	101	70	130				
Freon 11	1.050	0.15	1	0	105	70	130				
Freon 113	1.050	0.15	1	0	105	70	130				
Freon 114	1.090	0.15	1	0	109	70	130				
Freon 12	1.060	0.15	1	0	106	70	130				
Heptane	1.140	0.15	1	0	114	70	130				
Hexachloro-1,3-butadiene	0.9700	0.15	1	0	97.0	70	130				
Hexane	1.110	0.15	1	0	111	70	130				
Isopropyl alcohol	1.010	0.15	1	0	101	70	130				
m&p-Xylene	2.030	0.30	2	0	102	70	130				
Methyl Butyl Ketone	0.7600	0.30	1	0	76.0	70	130				
Methyl Ethyl Ketone	1.060	0.30	1	0	106	70	130				
Methyl isobutyl Ketone	0.8300	0.30	1	0	83.0	70	130				

Qualifiers:	.	Results reported are not blank corrected	E	Estimated Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits				

CLIENT: LaBella Associates, P.C.
Work Order: C1706015
Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-061417	SampType:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12342	
Client ID:	ZZZZZ	Batch ID:	R12342	TestNo:	TO-15			Analysis Date:	6/14/2017	SeqNo:	143999	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether		1.000	0.15	1	0	100	70	130				
Methylene chloride		1.100	0.15	1	0	110	70	130				
o-Xylene		0.9900	0.15	1	0	99.0	70	130				
Propylene		1.290	0.15	1	0	129	70	130				
Styrene		0.9700	0.15	1	0	97.0	70	130				
Tetrachloroethylene		0.9700	0.15	1	0	97.0	70	130				
Tetrahydrofuran		1.150	0.15	1	0	115	70	130				
Toluene		1.030	0.15	1	0	103	70	130				
trans-1,2-Dichloroethene		1.090	0.15	1	0	109	70	130				
trans-1,3-Dichloropropene		0.9500	0.15	1	0	95.0	70	130				
Trichloroethene		0.9700	0.040	1	0	97.0	70	130				
Vinyl acetate		1.010	0.15	1	0	101	70	130				
Vinyl Bromide		0.9300	0.15	1	0	93.0	70	130				
Vinyl chloride		0.9300	0.040	1	0	93.0	70	130				

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits



CENTEK LABORATORIES, LLC

Date: 29-Jun-17

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-060817	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID:	ZZZZZ	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143982					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.030	0.15	1	0	103	70	130	1.09	5.66	30	
1,1,2,2-Tetrachloroethane	1.080	0.15	1	0	108	70	130	1.11	2.74	30	
1,1,2-Trichloroethane	1.020	0.15	1	0	102	70	130	1.1	7.55	30	
1,1-Dichloroethane	1.130	0.15	1	0	113	70	130	1.07	5.45	30	
1,1-Dichloroethene	1.130	0.15	1	0	113	70	130	1.06	6.39	30	
1,2,4-Trichlorobenzene	1.110	0.15	1	0	111	70	130	1.16	4.41	30	
1,2,4-Trimethylbenzene	1.050	0.15	1	0	105	70	130	1.04	0.957	30	
1,2-Dibromoethane	1.070	0.15	1	0	107	70	130	1.05	1.89	30	
1,2-Dichlorobenzene	1.070	0.15	1	0	107	70	130	1.13	5.45	30	
1,2-Dichloroethane	1.080	0.15	1	0	108	70	130	1.06	1.87	30	
1,2-Dichloropropane	1.070	0.15	1	0	107	70	130	1.12	4.57	30	
1,3,5-Trimethylbenzene	1.050	0.15	1	0	105	70	130	1.07	1.89	30	
1,3-butadiene	0.9900	0.15	1	0	99.0	70	130	0.9	9.52	30	
1,3-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.11	4.61	30	
1,4-Dichlorobenzene	1.080	0.15	1	0	108	70	130	1.15	6.28	30	
1,4-Dioxane	0.9800	0.30	1	0	98.0	70	130	0.96	2.06	30	
2,2,4-trimethylpentane	1.100	0.15	1	0	110	70	130	1.1	0	30	
4-ethyltoluene	1.110	0.15	1	0	111	70	130	1.09	1.82	30	
Acetone	1.110	0.30	1	0	111	70	130	1	10.4	30	
Allyl chloride	1.190	0.15	1	0	119	70	130	1.04	13.5	30	
Benzene	1.080	0.15	1	0	108	70	130	1.06	1.87	30	
Benzyl chloride	1.040	0.15	1	0	104	70	130	1.23	16.7	30	
Bromodichloromethane	0.9900	0.15	1	0	99.0	70	130	1.07	7.77	30	
Bromoform	0.9800	0.15	1	0	98.0	70	130	1.03	4.98	30	
Bromomethane	1.100	0.15	1	0	110	70	130	0.72	41.8	30	R

Qualifiers: . Results reported are not blank corrected
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-060817	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID: ZZZZZ	Batch ID: R12341	TestNo: TO-15	Analysis Date: 6/8/2017	SeqNo: 143982							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.140	0.15	1	0	114	70	130	1.04	9.17	30	
Carbon tetrachloride	0.9800	0.040	1	0	98.0	70	130	1.1	11.5	30	
Chlorobenzene	1.060	0.15	1	0	106	70	130	1.06	0	30	
Chloroethane	1.110	0.15	1	0	111	70	130	0.85	26.5	30	
Chloroform	1.080	0.15	1	0	108	70	130	1.08	0	30	
Chloromethane	1.130	0.15	1	0	113	70	130	1.04	8.29	30	
cis-1,2-Dichloroethene	1.130	0.15	1	0	113	70	130	1.07	5.45	30	
cis-1,3-Dichloropropene	1.090	0.15	1	0	109	70	130	1.12	2.71	30	
Cyclohexane	1.140	0.15	1	0	114	70	130	1.14	0	30	
Dibromochloromethane	1.010	0.15	1	0	101	70	130	1.06	4.83	30	
Ethyl acetate	1.130	0.15	1	0	113	70	130	1.07	5.45	30	
Ethylbenzene	1.100	0.15	1	0	110	70	130	1.07	2.76	30	
Freon 11	1.040	0.15	1	0	104	70	130	0.99	4.93	30	
Freon 113	1.120	0.15	1	0	112	70	130	1.06	5.50	30	
Freon 114	1.110	0.15	1	0	111	70	130	0.85	26.5	30	
Freon 12	1.120	0.15	1	0	112	70	130	0.96	15.4	30	
Heptane	1.100	0.15	1	0	110	70	130	1.16	5.31	30	
Hexachloro-1,3-butadiene	1.020	0.15	1	0	102	70	130	1.07	4.78	30	
Hexane	1.160	0.15	1	0	116	70	130	1.08	7.14	30	
Isopropyl alcohol	1.030	0.15	1	0	103	70	130	0.98	4.98	30	
m&p-Xylene	2.160	0.30	2	0	108	70	130	2.19	1.38	30	
Methyl Butyl Ketone	0.7400	0.30	1	0	74.0	70	130	0.75	1.34	30	
Methyl Ethyl Ketone	1.090	0.30	1	0	109	70	130	0.93	15.8	30	
Methyl Isobutyl Ketone	0.8600	0.30	1	0	86.0	70	130	0.72	17.7	30	
Methyl tert-butyl ether	1.130	0.15	1	0	113	70	130	1.08	4.52	30	
Methylene chloride	1.110	0.15	1	0	111	70	130	1.06	4.61	30	
o-Xylene	1.070	0.15	1	0	107	70	130	1.07	0	30	
Propylene	1.240	0.15	1	0	124	70	130	1.12	10.2	30	
Styrene	1.090	0.15	1	0	109	70	130	1.09	0	30	
Tetrachloroethylene	1.060	0.15	1	0	106	70	130	1.05	0.948	30	
Tetrahydrofuran	1.120	0.15	1	0	112	70	130	0.97	14.4	30	

Qualifiers:	.	Results reported are not blank corrected	E	Estimated Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits				

CLIENT: LaBella Associates, P.C.
Work Order: C1706015
Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-060817	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:				RunNo: 12341		
Client ID: ZZZZZ		Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017				SeqNo: 143982		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.070	0.15	1	0	107	70	130	1.03	3.81	30	
trans-1,2-Dichloroethene	1.130	0.15	1	0	113	70	130	1.05	7.34	30	
trans-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Trichloroethene	1.050	0.040	1	0	105	70	130	1.02	2.90	30	
Vinyl acetate	1.120	0.15	1	0	112	70	130	1.05	6.45	30	
Vinyl Bromide	1.130	0.15	1	0	113	70	130	0.79	35.4	30	R
Vinyl chloride	1.100	0.040	1	0	110	70	130	0.84	26.8	30	

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits



CENTEK LABORATORIES, LLC

Date: 29-Jun-17

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: CI706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID: AMB1UG-060817	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341						
Client ID: ZZZZZ	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:	.	Results reported are not blank corrected	E	Estimated Value above quantitation range	11	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits				

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID: AMB1UG-060817	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341						
Client ID: ZZZZZ	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:	Results reported are not blank corrected	E	Estimated Value above quantitation range	H	Holding times for preparation or analysis exceeded
	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection	R	RPD outside accepted recovery limits
	Spike Recovery outside accepted recovery limits				

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-060817	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID:	ZZZZZ	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143980					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Sample ID	AMB1UG-061417	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143998					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:	.	Results reported are not blank corrected	E	Estimated Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits				

CLIENT: LaBella Associates, P.C.
Work Order: C1706015
Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-061417	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143998					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Aliyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1706015
Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-061417	SampType:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12342	
Client ID:	ZZZZZ	Batch ID:	R12342	TestNo:	TO-15			Analysis Date:	6/14/2017	SeqNo:	143998	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether		< 0.15	0.15									
Methylene chloride		< 0.15	0.15									
o-Xylene		< 0.15	0.15									
Propylene		< 0.15	0.15									
Styrene		< 0.15	0.15									
Tetrachloroethylene		< 0.15	0.15									
Tetrahydrofuran		< 0.15	0.15									
Toluene		< 0.15	0.15									
trans-1,2-Dichloroethene		< 0.15	0.15									
trans-1,3-Dichloropropene		< 0.15	0.15									
Trichloroethene		< 0.040	0.040									
Vinyl acetate		< 0.15	0.15									
Vinyl Bromide		< 0.15	0.15									
Vinyl chloride		< 0.040	0.040									

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT
CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID: C1706015-003A MS	SampType: MS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341						
Client ID: Rm 112 +MS/MSD	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143986						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.030	0.15	1	0	103	70	130				
1,1,2,2-Tetrachloroethane	1.030	0.15	1	0	103	70	130				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	70	130				
1,1-Dichloroethane	1.170	0.15	1	0	117	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	1.320	0.15	1	0	132	70	130				S
1,2,4-Trimethylbenzene	1.190	0.15	1	0.16	103	70	130				
1,2-Dibromoethane	1.070	0.15	1	0	107	70	130				
1,2-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.190	0.15	1	0	119	70	130				
1,3,5-Trimethylbenzene	1.030	0.15	1	0	103	70	130				
1,3-butadiene	1.100	0.15	1	0	110	70	130				
1,3-Dichlorobenzene	1.020	0.15	1	0	102	70	130				
1,4-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,4-Dioxane	6.800	0.30	1	1.4	540	70	130				S
2,2,4-trimethylpentane	17.63	0.15	1	4.17	1350	70	130				S
4-ethyltoluene	1.150	0.15	1	0	115	70	130				
Acetone	18.18	0.30	1	17.3	88.0	70	130				
Allyl chloride	1.160	0.15	1	0	116	70	130				
Benzene	3.110	0.15	1	0.88	223	70	130				S
Benzyl chloride	0.9900	0.15	1	0	99.0	70	130				
Bromodichloromethane	2.010	0.15	1	0	201	70	130				S
Bromoform	0.9000	0.15	1	0	90.0	70	130				
Bromomethane	1.110	0.15	1	0	111	70	130				

Qualifiers:
 . Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID: C1706015-003A MS	SampType: MS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341						
Client ID: Rm 112 +MS/MSD	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143986						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.120	0.15	1	0	112	70	130				
Carbon tetrachloride	1.050	0.040	1	0.09	96.0	70	130				
Chlorobenzene	1.080	0.15	1	0	108	70	130				
Chloroethane	1.030	0.15	1	0	103	70	130				
Chloroform	1.130	0.15	1	0	113	70	130				
Chloromethane	1.820	0.15	1	0	182	70	130				S
cis-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
cis-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Cyclohexane	5.700	0.15	1	1.71	399	70	130				S
Dibromochloromethane	0.9700	0.15	1	0	97.0	70	130				
Ethyl acetate	8.800	0.15	1	0	880	70	130				S
Ethylbenzene	1.310	0.15	1	0.15	116	70	130				
Freon 11	1.250	0.15	1	0.25	100	70	130				
Freon 113	1.120	0.15	1	0	112	70	130				
Freon 114	1.060	0.15	1	0	106	70	130				
Freon 12	1.400	0.15	1	0.53	87.0	70	130				
Heptane	9.210	0.15	1	2.44	677	70	130				S
Hexachloro-1,3-butadiene	1.090	0.15	1	0	109	70	130				
Hexane	26.94	0.15	1	8.54	1840	70	130				S
Isopropyl alcohol	25.61	0.15	1	26.74	-113	70	130				S
m&p-Xylene	2.420	0.30	2	0.32	105	70	130				
Methyl Butyl Ketone	2.300	0.30	1	0	230	70	130				S
Methyl Ethyl Ketone	1.560	0.30	1	0.66	90.0	70	130				
Methyl Isobutyl Ketone	1.270	0.30	1	0	127	70	130				
Methyl tert-butyl ether	1.180	0.15	1	0	118	70	130				
Methylene chloride	1.590	0.15	1	0.49	110	70	130				
o-Xylene	1.130	0.15	1	0.13	100	70	130				
Propylene	6.160	0.15	1	0	616	70	130				S
Styrene	1.110	0.15	1	0	111	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	1.150	0.15	1	0	115	70	130				

Qualifiers:	- Results reported are not blank corrected	E Estimated Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limit	ND Not Detected at the Limit of Detection	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits		

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	SampType:	MS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	Rm 112 +MS/MSD	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143986
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.900	0.15	1	0.84	106	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.110	0.15	1	0	111	70	130				
Trichloroethene	1.150	0.040	1	0	115	70	130				
Vinyl acetate	27.17	0.15	1	0	2720	70	130				S
Vinyl Bromide	1.110	0.15	1	0	111	70	130				
Vinyl chloride	1.030	0.040	1	0	103	70	130				

Sample ID	C1706015-003A MS	SampType:	MSD	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	Rm 112 +MS/MSD	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143987
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9700	0.15	1	0	97.0	70	130	1.03	6.00	30	
1,1,2,2-Tetrachloroethane	1.050	0.15	1	0	105	70	130	1.03	1.92	30	
1,1,2-Trichloroethane	1.060	0.15	1	0	106	70	130	1.1	3.70	30	
1,1-Dichloroethane	1.190	0.15	1	0	119	70	130	1.17	1.69	30	
1,1-Dichloroethene	1.130	0.15	1	0	113	70	130	1.06	6.39	30	
1,2,4-Trichlorobenzene	1.360	0.15	1	0	136	70	130	1.32	2.99	30	S
1,2,4-Trimethylbenzene	1.170	0.15	1	0.16	101	70	130	1.19	1.69	30	
1,2-Dibromoethane	1.070	0.15	1	0	107	70	130	1.07	0	30	
1,2-Dichlorobenzene	1.070	0.15	1	0	107	70	130	1.01	5.77	30	
1,2-Dichloroethane	1.200	0.15	1	0	120	70	130	1.19	0.837	30	
1,2-Dichloropropane	1.150	0.15	1	0	115	70	130	1.19	3.42	30	
1,3,5-Trimethylbenzene	1.010	0.15	1	0	101	70	130	1.03	1.96	30	
1,3-butadiene	1.110	0.15	1	0	111	70	130	1.1	0.905	30	
1,3-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.02	3.85	30	
1,4-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.07	0.939	30	
1,4-Dioxane	8.130	0.30	1	1.4	673	70	130	6.8	17.8	30	S
2,2,4-trimethylpentane	21.80	0.15	1	4.17	1760	70	130	17.63	21.2	30	S
4-ethyltoluene	1.140	0.15	1	0	114	70	130	1.15	0.873	30	

Qualifiers: . Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	SampType:	MSD	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	Rm 112 +MS/MSD	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143987
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	13.48	0.30	1	17.3	-382	70	130	18.18	29.7	30	S
Allyl chloride	1.290	0.15	1	0	129	70	130	1.16	10.6	30	
Benzene	3.170	0.15	1	0.88	229	70	130	3.11	1.91	30	S
Benzyl chloride	1.080	0.15	1	0	108	70	130	0.99	8.70	30	
Bromodichloromethane	2.150	0.15	1	0	215	70	130	2.01	6.73	30	S
Bromoform	0.9100	0.15	1	0	91.0	70	130	0.9	1.10	30	
Bromomethane	1.050	0.15	1	0	105	70	130	1.11	5.56	30	
Carbon disulfide	1.160	0.15	1	0	116	70	130	1.12	3.51	30	
Carbon tetrachloride	0.9900	0.040	1	0.09	90.0	70	130	1.05	5.88	30	
Chlorobenzene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Chloroethane	1.040	0.15	1	0	104	70	130	1.03	0.966	30	
Chloroform	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Chloromethane	1.530	0.15	1	0	153	70	130	1.82	17.3	30	S
cis-1,2-Dichloroethene	1.170	0.15	1	0	117	70	130	1.11	5.26	30	
cis-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130	1.13	0	30	
Cyclohexane	6.030	0.15	1	1.71	432	70	130	5.7	5.63	30	S
Dibromochloromethane	0.9600	0.15	1	0	96.0	70	130	0.97	1.04	30	
Ethyl acetate	10.01	0.15	1	0	1000	70	130	8.8	12.9	30	S
Ethylbenzene	1.370	0.15	1	0.15	122	70	130	1.31	4.48	30	
Freon 11	1.170	0.15	1	0.25	92.0	70	130	1.25	6.61	30	
Freon 113	1.140	0.15	1	0	114	70	130	1.12	1.77	30	
Freon 114	1.100	0.15	1	0	110	70	130	1.06	3.70	30	
Freon 12	1.340	0.15	1	0.53	81.0	70	130	1.4	4.38	30	
Heptane	10.66	0.15	1	2.44	822	70	130	9.21	14.6	30	S
Hexachloro-1,3-butadiene	1.110	0.15	1	0	111	70	130	1.09	1.82	30	
Hexane	31.79	0.15	1	8.54	2320	70	130	26.94	16.5	30	S
Isopropyl alcohol	17.91	0.15	1	25.74	-883	70	130	25.61	35.4	30	SR
m&p-Xylene	2.380	0.30	2	0.32	103	70	130	2.42	1.67	30	
Methyl Butyl Ketone	3.090	0.30	1	0	309	70	130	2.3	29.3	30	S
Methyl Ethyl Ketone	1.490	0.30	1	0.66	83.0	70	130	1.56	4.59	30	
Methyl Isobutyl Ketone	1.400	0.30	1	0	140	70	130	1.27	9.74	30	S

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	SampType:	MSD	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	Rm 112 +MS/MSD	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143987
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.210	0.15	1	0	121	70	130	1.18	2.51	30	
Methylene chloride	1.750	0.15	1	0.49	126	70	130	1.59	9.58	30	
o-Xylene	1.120	0.15	1	0.13	99.0	70	130	1.13	0.889	30	
Propylene	1.430	0.15	1	0	143	70	130	6.16	125	30	SR
Styrene	1.090	0.15	1	0	109	70	130	1.11	1.82	30	
Tetrachloroethylene	1.050	0.15	1	0	105	70	130	1.05	0	30	
Tetrahydrofuran	1.280	0.15	1	0	128	70	130	1.15	10.7	30	
Toluene	1.620	0.15	1	0.84	78.0	70	130	1.9	15.9	30	
trans-1,2-Dichloroethene	1.150	0.15	1	0	115	70	130	1.1	4.44	30	
trans-1,3-Dichloropropene	1.070	0.15	1	0	107	70	130	1.11	3.67	30	
Trichloroethene	1.100	0.040	1	0	110	70	130	1.15	4.44	30	
Vinyl acetate	32.84	0.15	1	0	3280	70	130	27.17	18.9	30	S
Vinyl Bromide	1.140	0.15	1	0	114	70	130	1.11	2.67	30	
Vinyl chloride	1.100	0.040	1	0	110	70	130	1.03	6.57	30	

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	IDL
Propylene	0.15	0.16	0.15	0.16	0.14	0.16	0.14	0.16	0.153	0.010	98.1	0.030
Freon 12	0.15	0.18	0.17	0.17	0.17	0.18	0.17	0.17	0.173	0.005	86.8	0.015
Chloromethane	0.15	0.19	0.18	0.16	0.18	0.18	0.2	0.17	0.180	0.013	83.3	0.041
Freon 114	0.15	0.18	0.17	0.17	0.17	0.18	0.17	0.18	0.174	0.005	86.1	0.017
Vinyl Chloride	0.15	0.17	0.16	0.16	0.15	0.16	0.15	0.15	0.157	0.008	95.5	0.024
Butane	0.15	0.18	0.16	0.17	0.18	0.18	0.19	0.19	0.179	0.011	84.0	0.034
1,3-butadiene	0.15	0.21	0.2	0.2	0.22	0.17	0.18	0.23	0.201	0.021	74.5	0.066
Bromomethane	0.15	0.18	0.2	0.21	0.18	0.22	0.16	0.21	0.194	0.021	77.2	0.068
Chloroethane	0.15	0.19	0.19	0.16	0.19	0.19	0.18	0.19	0.184	0.011	81.4	0.036
Ethanol	0.15	0.16	0.16	0.18	0.17	0.19	0.18	0.19	0.176	0.013	85.4	0.040
Acrolein	0.15	0.22	0.17	0.19	0.16	0.18	0.21	0.17	0.186	0.022	80.8	0.070
Vinyl Bromide	0.15	0.17	0.15	0.16	0.16	0.17	0.17	0.17	0.164	0.008	91.3	0.025
Freon 11	0.15	0.18	0.17	0.17	0.18	0.19	0.17	0.18	0.177	0.008	84.7	0.024
Acetone	0.15	0.2	0.17	0.18	0.15	0.15	0.18	0.14	0.167	0.021	89.7	0.067
Pentane	0.15	0.18	0.17	0.18	0.16	0.17	0.2	0.16	0.174	0.014	86.1	0.044
Isopropyl alcohol	0.15	0.22	0.2	0.19	0.2	0.19	0.21	0.19	0.200	0.012	75.0	0.036
1,1-dichloroethene	0.15	0.2	0.17	0.19	0.19	0.19	0.18	0.18	0.186	0.010	80.8	0.031
Freon 113	0.15	0.17	0.16	0.18	0.18	0.18	0.17	0.17	0.173	0.008	86.8	0.024
t-Butyl alcohol	0.15	0.21	0.2	0.2	0.21	0.2	0.2	0.18	0.200	0.010	75.0	0.031
Methylene chloride	0.15	0.2	0.18	0.19	0.18	0.2	0.19	0.17	0.187	0.011	80.2	0.035
Allyl chloride	0.15	0.18	0.17	0.16	0.18	0.18	0.2	0.18	0.179	0.012	84.0	0.038
Carbon disulfide	0.15	0.2	0.17	0.19	0.19	0.2	0.18	0.19	0.189	0.011	79.5	0.034
trans-1,2-dichloroethene	0.15	0.15	0.14	0.14	0.14	0.16	0.14	0.15	0.146	0.008	102.9	0.025
methyl tert-butyl ether	0.15	0.14	0.14	0.14	0.13	0.15	0.14	0.13	0.139	0.007	108.2	0.022
1,1-dichloroethane	0.15	0.17	0.15	0.16	0.15	0.17	0.16	0.16	0.160	0.008	93.8	0.026
Vinyl acetate	0.15	0.14	0.13	0.14	0.13	0.13	0.13	0.12	0.131	0.007	114.1	0.022
Methyl Ethyl Ketone	0.15	0.17	0.17	0.16	0.16	0.15	0.13	0.12	0.151	0.020	99.1	0.061
cis-1,2-dichloroethene	0.15	0.15	0.14	0.16	0.15	0.16	0.15	0.14	0.150	0.008	100.0	0.026
Hexane	0.15	0.12	0.14	0.13	0.13	0.13	0.12	0.12	0.127	0.008	118.0	0.024
Ethyl acetate	0.15	0.16	0.17	0.14	0.15	0.14	0.16	0.13	0.150	0.014	100.0	0.044
Chloroform	0.15	0.16	0.16	0.16	0.16	0.17	0.16	0.17	0.163	0.005	92.1	0.015
Tetrahydrofuran	0.15	0.15	0.13	0.15	0.15	0.15	0.15	0.14	0.146	0.008	102.9	0.025
1,2-dichloroethane	0.15	0.16	0.15	0.16	0.16	0.17	0.16	0.17	0.161	0.007	92.9	0.022
1,1,1-trichloroethane	0.15	0.17	0.16	0.17	0.17	0.16	0.17	0.17	0.167	0.005	89.7	0.015
Cyclohexane	0.15	0.14	0.14	0.14	0.15	0.15	0.14	0.14	0.143	0.005	105.0	0.015
Carbon tetrachloride	0.15	0.13	0.15	0.15	0.15	0.15	0.15	0.16	0.149	0.009	101.0	0.028
Benzene	0.15	0.15	0.16	0.16	0.15	0.16	0.16	0.16	0.157	0.005	95.5	0.015
Methyl methacrylate	0.15	0.15	0.15	0.14	0.14	0.14	0.15	0.11	0.140	0.014	107.1	0.044
1,4-dioxane	0.15	0.18	0.18	0.19	0.18	0.15	0.17	0.12	0.167	0.024	89.7	0.076

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1/8/2016

Centek Laboratories IDL Study		1ug/M3 Detection Limit January 2016								Method TO-15A Units=ppb		
Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	IDL
2,2,4-trimethylpentane	0.15	0.15	0.15	0.15	0.16	0.14	0.16	0.15	0.151	0.007	99.1	0.022
Heptane	0.15	0.12	0.13	0.13	0.12	0.13	0.13	0.13	0.127	0.005	118.0	0.015
Trichloroethene	0.15	0.14	0.15	0.14	0.15	0.15	0.14	0.15	0.146	0.005	102.9	0.017
1,2-dichloropropane	0.15	0.16	0.17	0.17	0.16	0.17	0.16	0.16	0.164	0.005	91.3	0.017
Bromodichloromethane	0.15	0.16	0.16	0.16	0.15	0.16	0.17	0.16	0.160	0.006	93.8	0.018
cis-1,3-dichloropropene	0.15	0.13	0.13	0.14	0.14	0.13	0.13	0.13	0.133	0.005	112.9	0.015
trans-1,3-dichloropropene	0.15	0.16	0.13	0.13	0.14	0.14	0.14	0.16	0.143	0.013	105.0	0.039
1,1,2-trichloroethane	0.15	0.16	0.15	0.16	0.15	0.16	0.18	0.17	0.161	0.011	92.9	0.034
Toluene	0.15	0.14	0.14	0.14	0.13	0.16	0.14	0.15	0.143	0.010	105.0	0.030
Methyl Isobutyl Ketone	0.15	0.18	0.18	0.18	0.18	0.16	0.18	0.15	0.173	0.013	86.8	0.039
Dibromochloromethane	0.15	0.16	0.16	0.17	0.16	0.16	0.17	0.18	0.169	0.009	89.0	0.028
Methyl Butyl Ketone	0.15	0.17	0.16	0.18	0.17	0.16	0.17	0.14	0.164	0.013	91.3	0.040
1,2-dibromoethane	0.15	0.16	0.17	0.16	0.16	0.16	0.16	0.17	0.163	0.005	92.1	0.015
Tetrachloroethylene	0.15	0.16	0.17	0.16	0.16	0.16	0.17	0.17	0.164	0.005	91.3	0.017
Chlorobenzene	0.15	0.16	0.16	0.16	0.17	0.15	0.17	0.17	0.163	0.008	92.1	0.024
1,1,1,2-tetrachloroethane	0.15	0.17	0.17	0.17	0.18	0.16	0.18	0.17	0.171	0.007	87.5	0.022
Ethylbenzene	0.15	0.13	0.14	0.14	0.14	0.12	0.14	0.13	0.134	0.008	111.7	0.025
m&p-xylene	0.3	0.25	0.25	0.25	0.23	0.25	0.25	0.25	0.247	0.008	121.4	0.024
Nonane	0.15	0.11	0.11	0.11	0.11	0.1	0.1	0.11	0.107	0.005	140.0	0.015
Styrene	0.15	0.12	0.13	0.13	0.11	0.12	0.13	0.12	0.123	0.008	122.1	0.024
Bromoform	0.15	0.15	0.15	0.16	0.15	0.15	0.17	0.16	0.156	0.008	96.3	0.025
o-xylene	0.15	0.11	0.12	0.12	0.14	0.14	0.12	0.11	0.123	0.013	122.1	0.039
Cumene	0.15	0.12	0.13	0.13	0.12	0.13	0.13	0.13	0.127	0.005	118.0	0.015
Bromofluorobenzene	1	0.88	0.9	0.9	0.87	0.89	0.89	0.9	0.890	0.012	112.4	0.036
1,1,2,2-tetrachloroethane	0.15	0.16	0.16	0.17	0.16	0.17	0.17	0.16	0.164	0.005	91.3	0.017
Propylbenzene	0.15	0.13	0.12	0.13	0.13	0.11	0.13	0.11	0.123	0.010	122.1	0.030
2-Chlorotoluene	0.15	0.13	0.13	0.13	0.14	0.13	0.12	0.13	0.130	0.006	115.4	0.018
4-ethyltoluene	0.15	0.11	0.12	0.12	0.12	0.13	0.13	0.11	0.120	0.008	125.0	0.026
1,3,5-trimethylbenzene	0.15	0.12	0.13	0.14	0.12	0.13	0.13	0.13	0.129	0.007	116.7	0.022
1,2,4-trimethylbenzene	0.15	0.12	0.13	0.12	0.12	0.13	0.12	0.12	0.123	0.005	122.1	0.015
1,3-dichlorobenzene	0.15	0.14	0.14	0.14	0.13	0.14	0.13	0.14	0.137	0.005	109.4	0.015
benzyl chloride	0.15	0.13	0.16	0.13	0.15	0.13	0.15	0.16	0.144	0.014	104.0	0.044
1,4-dichlorobenzene	0.15	0.13	0.11	0.12	0.12	0.12	0.12	0.13	0.121	0.007	123.5	0.022
1,2,3-trimethylbenzene	0.15	0.12	0.11	0.12	0.12	0.12	0.11	0.11	0.116	0.005	129.6	0.017
1,2-dichlorobenzene	0.15	0.13	0.14	0.14	0.14	0.14	0.14	0.13	0.137	0.005	109.4	0.015
1,2,4-trichlorobenzene	0.15	0.1	0.11	0.1	0.11	0.11	0.12	0.1	0.107	0.008	140.0	0.024
Naphthalene	0.15	0.13	0.13	0.14	0.11	0.12	0.14	0.12	0.127	0.011	118.0	0.035
Hexachloro-1,3-butadiene	0.15	0.16	0.17	0.17	0.17	0.16	0.16	0.16	0.164	0.005	91.3	0.017

Centek Laboratories
IDL Study

0.25ug/M3 Detection Limit
January 2016

Method TO-15A
Units=ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	IDL
Vinyl Chloride	0.1	0.11	0.11	0.09	0.09	0.1	0.09	0.1	0.099	0.009	101.4	0.028
Carbon tetrachloride	0.1	0.1	0.11	0.08	0.09	0.09	0.09	0.09	0.093	0.010	107.7	0.030
Trichloroethene	0.1	0.1	0.1	0.07	0.08	0.08	0.08	0.08	0.084	0.011	118.6	0.036
Tetrachloroethylene	0.1	0.11	0.12	0.09	0.09	0.1	0.09	0.09	0.099	0.012	101.4	0.038
Naphthalene	0.1	0.09	0.08	0.07	0.06	0.06	0.07	0.06	0.070	0.012	142.9	0.036

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1/15/2016

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured

Ais = area of the characteristic ion for the specific internal standard of the compound being measured

Cx = concentration of the compound being measured (ppbv)

Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration

mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured

Ais = area of the characteristic ion for the specific internal standard of the compound being measured

Is = Concentration of the internal standard injected (ppbv)

RRF= relative response factor for the compound being measured

Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-001A

Client Sample ID: Rm 117
 Tag Number: 284.1162
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-4			"Hg		Analyst: 6/7/2017
Lab Vacuum Out	-30			"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15		ppbv	1	Analyst: RJP 6/8/2017 2:44:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	J	ppbv	1	6/8/2017 2:44:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,3-butadiene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/8/2017 2:44:00 PM
2,2,4-trimethylpentane	0.44	0.15		ppbv	1	6/8/2017 2:44:00 PM
4-ethyltoluene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Acetone	17	3.0		ppbv	10	6/9/2017 1:13:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Benzene	0.29	0.15		ppbv	1	6/8/2017 2:44:00 PM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Bromoform	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Bromomethane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Carbon disulfide	0.10	0.15	J	ppbv	1	6/8/2017 2:44:00 PM
Carbon tetrachloride	0.080	0.040		ppbv	1	6/8/2017 2:44:00 PM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Chloroethane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Chloroform	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Chloromethane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Cyclohexane	0.33	0.15		ppbv	1	6/8/2017 2:44:00 PM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Ethyl acetate	4.1	1.5		ppbv	10	6/9/2017 1:13:00 AM

Qualifiers: ** Quantitation Limit

B	Analyte detected in the associated Method Blank	E	Results reported are not blank corrected
H	Holding times for preparation or analysis exceeded	J	Estimated Value above quantitation range
JN	Non-routine analyte. Quantitation estimated.		Analyte detected below quantitation limit
S	Spike Recovery outside accepted recovery limits	ND	Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-001A

Client Sample ID: Rm 117
 Tag Number: 284.1162
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.15	TO-15		ppbv	1	Analyst: RJP 6/8/2017 2:44:00 PM
Freon 11	0.25	0.15		ppbv	1	6/8/2017 2:44:00 PM
Freon 113	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Freon 114	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Freon 12	0.50	0.15		ppbv	1	6/8/2017 2:44:00 PM
Heptane	0.72	0.15		ppbv	1	6/8/2017 2:44:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Hexane	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Isopropyl alcohol	150	14		ppbv	90	6/8/2017 7:48:00 AM
m&p-Xylene	0.35	0.30		ppbv	1	6/8/2017 2:44:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 2:44:00 PM
Methyl Ethyl Ketone	0.73	0.30		ppbv	1	6/8/2017 2:44:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 2:44:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Methylene chloride	0.52	0.15		ppbv	1	6/8/2017 2:44:00 PM
o-Xylene	0.17	0.15		ppbv	1	6/8/2017 2:44:00 PM
Propylene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Styrene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Toluene	1.8	0.15		ppbv	1	6/8/2017 2:44:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Trichloroethene	< 0.040	0.040		ppbv	1	6/8/2017 2:44:00 PM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/8/2017 2:44:00 PM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/8/2017 2:44:00 PM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	6/8/2017 2:44:00 PM

Qualifiers	** Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-001A

Client Sample ID: Rm 117
 Tag Number: 284.1162
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82	TO-15	ug/m3	1	Analyst: RJP 6/8/2017 2:44:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 2:44:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 2:44:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 2:44:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2017 2:44:00 PM
1,2,4-Trimethylbenzene	0.64	0.74	J	ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dibromomethane	< 1.2	1.2		ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2017 2:44:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 2:44:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2017 2:44:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 2:44:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 2:44:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/8/2017 2:44:00 PM
2,2,4-trimethylpentane	2.1	0.70		ug/m3	1	6/8/2017 2:44:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/8/2017 2:44:00 PM
Acetone	41	7.1		ug/m3	10	6/9/2017 1:13:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2017 2:44:00 PM
Benzene	0.93	0.48		ug/m3	1	6/8/2017 2:44:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2017 2:44:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM
Bromoforn	< 1.6	1.6		ug/m3	1	6/8/2017 2:44:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/8/2017 2:44:00 PM
Carbon disulfide	0.31	0.47	J	ug/m3	1	6/8/2017 2:44:00 PM
Carbon tetrachloride	0.50	0.25		ug/m3	1	6/8/2017 2:44:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2017 2:44:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/8/2017 2:44:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2017 2:44:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2017 2:44:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 2:44:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 2:44:00 PM
Cyclohexane	1.1	0.52		ug/m3	1	6/8/2017 2:44:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2017 2:44:00 PM
Ethyl acetate	15	5.4		ug/m3	10	6/9/2017 1:13:00 AM
Ethylbenzene	0.65	0.65		ug/m3	1	6/8/2017 2:44:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/8/2017 2:44:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2017 2:44:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range	
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit	
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection	
S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-001A

Client Sample ID: Rim 117
 Tag Number: 284.1162
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.5	TO-15 0.74		ug/m3	1	Analyst: RJP 6/8/2017 2:44:00 PM
Heptane	3.0	0.61		ug/m3	1	6/8/2017 2:44:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2017 2:44:00 PM
Hexane	< 0.53	0.53		ug/m3	1	6/8/2017 2:44:00 PM
Isopropyl alcohol	380	34		ug/m3	90	6/9/2017 7:48:00 AM
m&p-Xylene	1.5	1.3		ug/m3	1	6/8/2017 2:44:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 2:44:00 PM
Methyl Ethyl Ketone	2.2	0.88		ug/m3	1	6/8/2017 2:44:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 2:44:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2017 2:44:00 PM
Methylene chloride	1.8	0.52		ug/m3	1	6/8/2017 2:44:00 PM
o-Xylene	0.74	0.65		ug/m3	1	6/8/2017 2:44:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2017 2:44:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2017 2:44:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2017 2:44:00 PM
Toluene	6.8	0.57		ug/m3	1	6/8/2017 2:44:00 PM
trans-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	6/8/2017 2:44:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 2:44:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	6/8/2017 2:44:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2017 2:44:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2017 2:44:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/8/2017 2:44:00 PM

Quantifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

F Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Data File : C:\HPCHEM\1\DATA\AO060808.D
 Acq On : 8 Jun 2017 2:44 pm
 Sample : C1706015-001A
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 09 07:24:23 2017

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.59	128	38757	1.00 ppb	0.02
35) 1,4-difluorobenzene	11.97	114	169788	1.00 ppb	0.00
50) Chlorobenzene-d5	16.84	117	151036	1.00 ppb	0.00

System Monitoring Compounds	Spiked Amount	Range	Recovery	Conc Units	Dev(Min)
65) Bromofluorobenzene	1.000	18.48 - 130	99345	0.95 ppb	0.00
				= 95.00%	

Target Compounds					Qvalue
3) Freon 12	4.56	85	125990	0.50 ppb	97
14) Freon 11	6.34	101	75550	0.25 ppb	99
15) Acetone	6.16	58	343705	14.05 ppb	90
17) Isopropyl alcohol	6.41	45	9185878	113.91 ppb	100
21) Methylene chloride	7.13	84	19520	0.52 ppb	84
23) Carbon disulfide	7.48	76	12164	0.10 ppb	98
28) Methyl Ethyl Ketone	8.86	72	13379	0.73 ppb	1
31) Ethyl acetate	9.64	43	402667	3.82 ppb	94
37) Cyclohexane	11.87	56	16067	0.33 ppb	84
38) Carbon tetrachloride	11.72	117	12727	0.08 ppb	98
39) Benzene	11.54	78	33345	0.29 ppb	83
42) 2,2,4-trimethylpentane	12.85	57	67895	0.44 ppb	63
43) Heptane	13.15	43	37176	0.72 ppb	90
51) Toluene	14.91	92	154923	1.80 ppb	83
58) Ethylbenzene	17.29	91	30330	0.15 ppb	97
59) m,p-xylene	17.47	91	63383	0.35 ppb	91
63) o-xylene	17.98	91	29701	0.17 ppb	97
71) 1,2,4-trimethylbenzene	19.91	105	24149	0.13 ppb	96

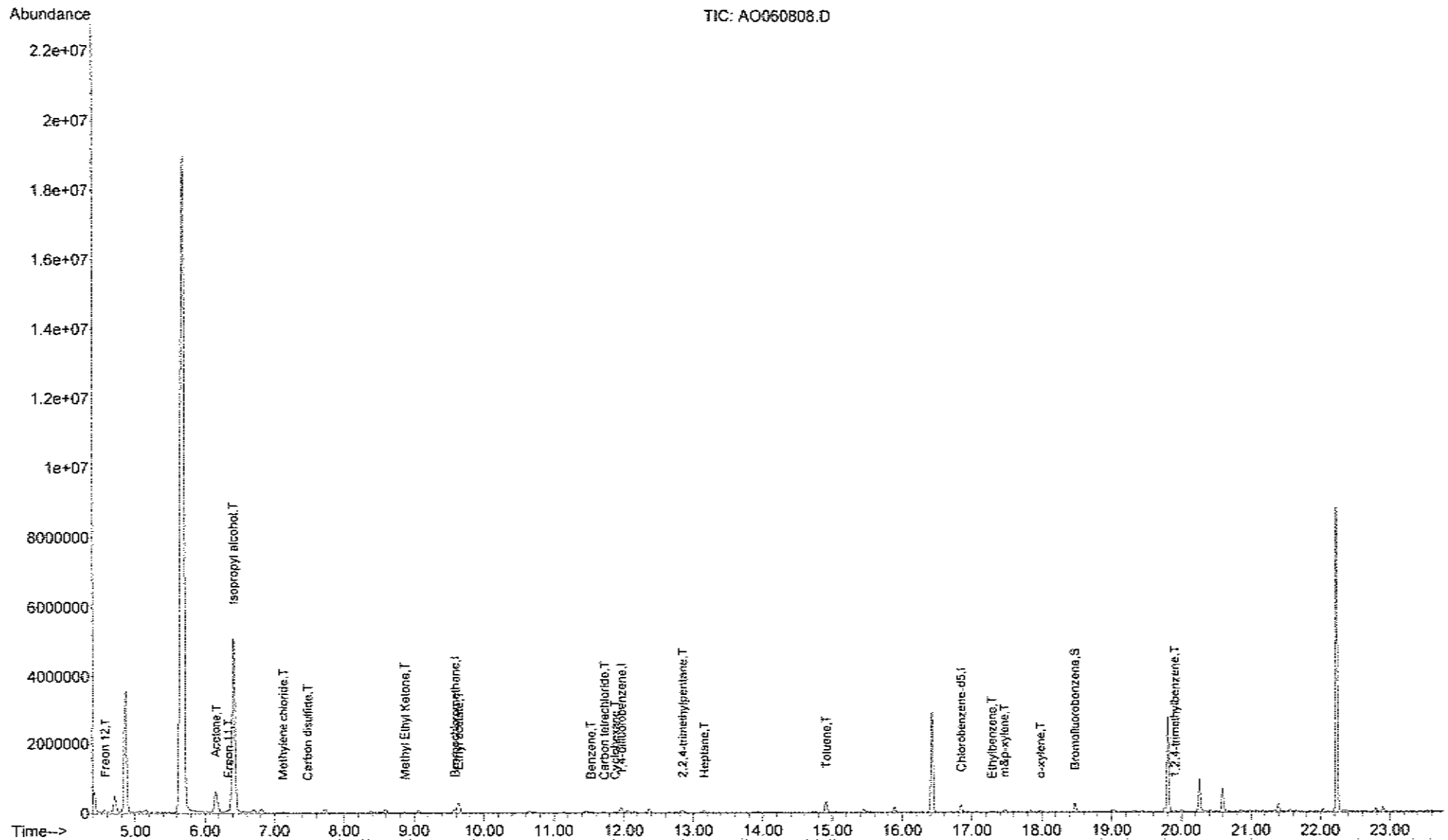
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO060808.D A605_1UG.M Thu Jun 29 10:07:03 2017 MSDI

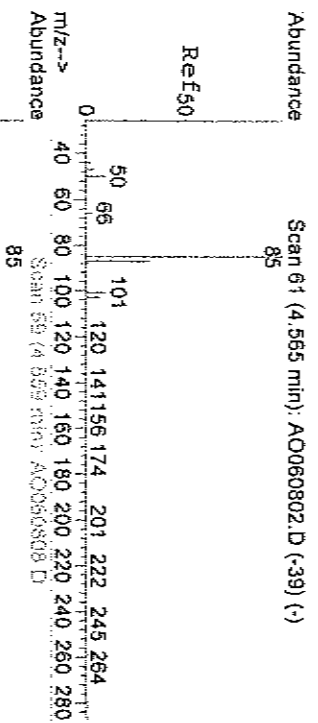
Data File : C:\HPCHEM\1\DATA\AO060808.D
Acq On : 8 Jun 2017 2:44 pm
Sample : C1706015-001A
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 14 14:19 2017

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

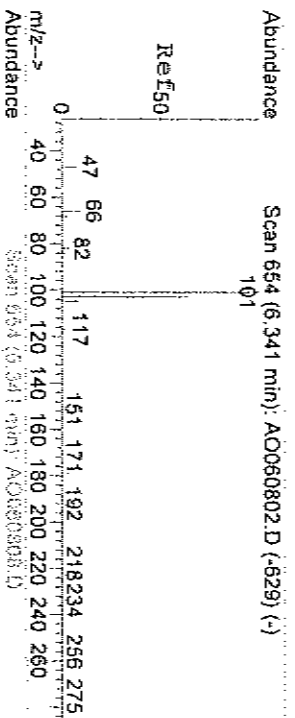
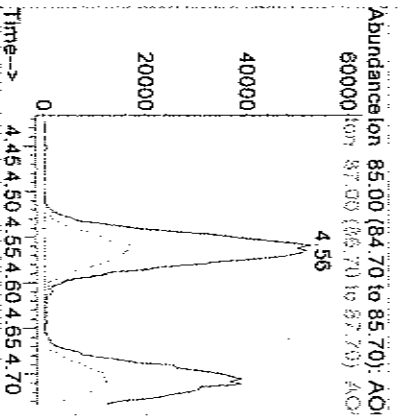
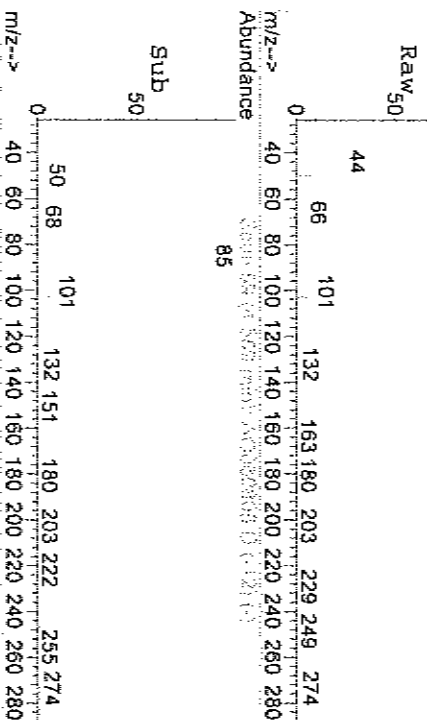
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration





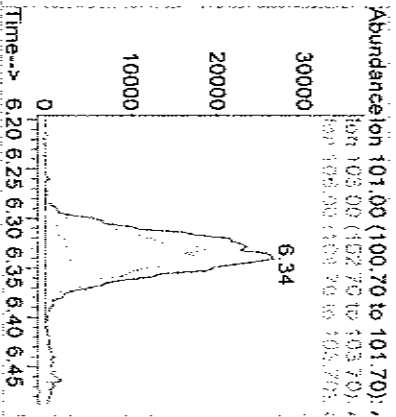
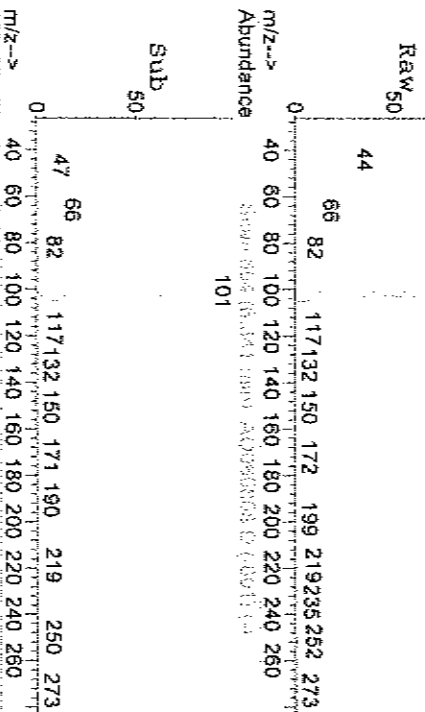
#3
 Freon 12
 Concen: 0.50 ppb
 RT: 4.56 min Scan# 59
 Delta R.T. -0.01 min
 Lab File: A0060808.D
 Acq: 8 Jun 2017 2:44 pm

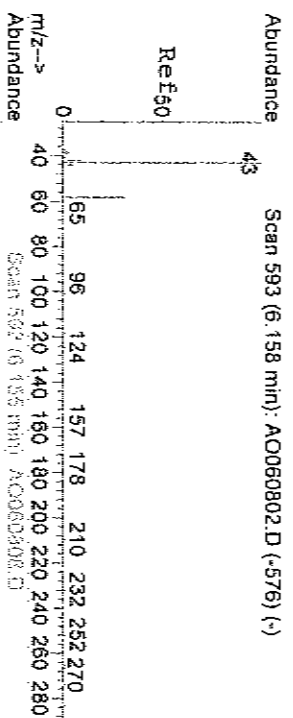
Tgt Ion:	85	Resp:	125990
Ion Ratio	100	Lower	Upper
87	32.7	11.3	51.3



#14
 Freon 11
 Concen: 0.25 ppb
 RT: 6.34 min Scan# 654
 Delta R.T. 0.01 min
 Lab File: A0060808.D
 Acq: 8 Jun 2017 2:44 pm

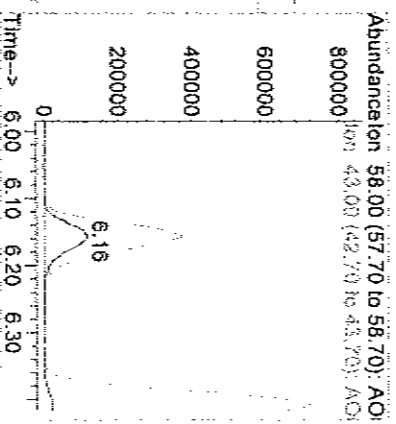
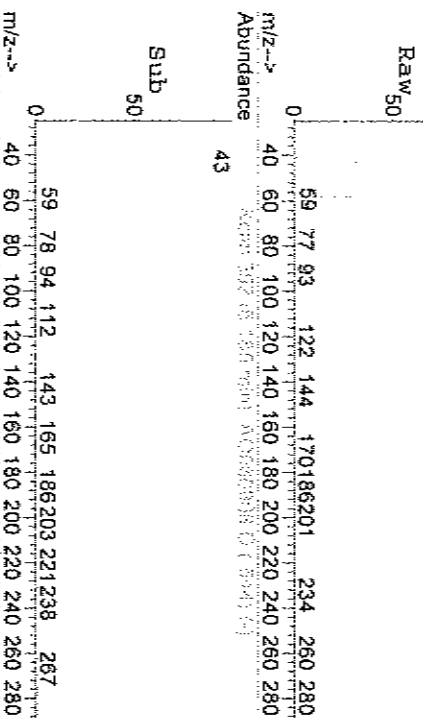
Tgt Ion:	101	Resp:	75550
Ion Ratio	100	Lower	Upper
103	67.1	46.0	86.0
105	12.2	0.0	31.4





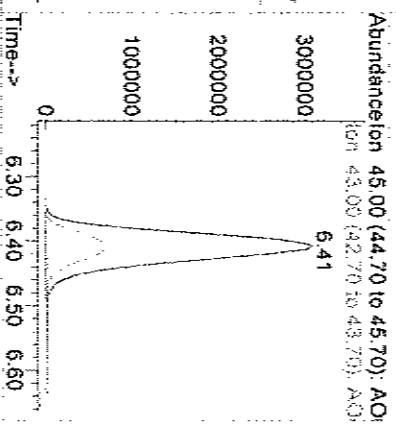
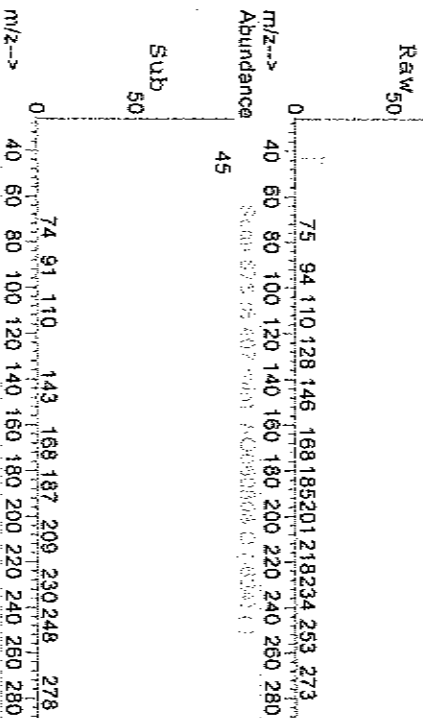
#15
Acetone
Concen: 14.05 ppb
RT: 6.16 min Scan# 592
Delta R.T. -0.01 min
Lab File: AO060808.D
Acq: 8 Jun 2017 2:44 pm

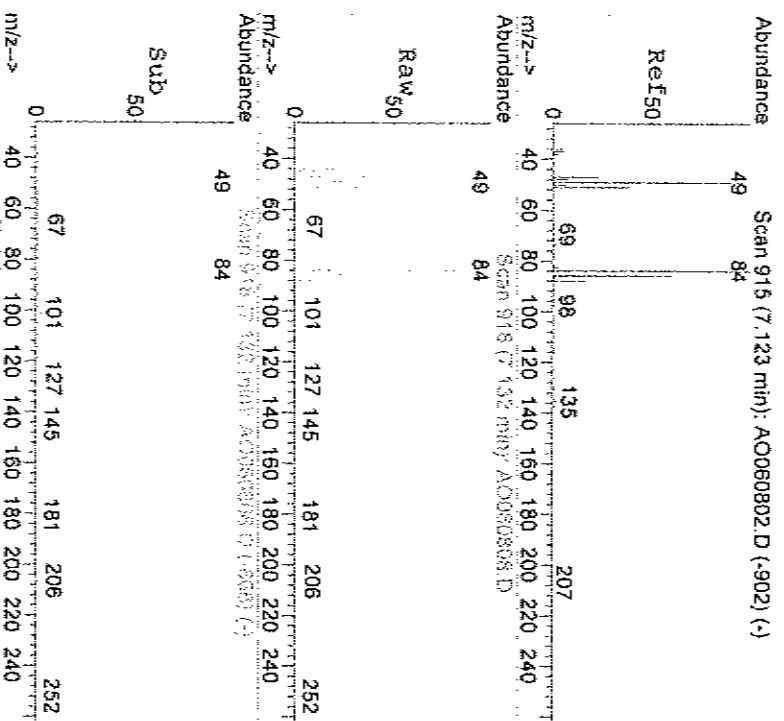
Tgt Ion: 58 Resp: 343705
Ion Ratio Lower Upper
58 100
43 313.4 263.2 323.2



#17
Isopropyl alcohol
Concen: 113.91 ppb
RT: 6.41 min Scan# 676
Delta R.T. 0.01 min
Lab File: AO060808.D
Acq: 8 Jun 2017 2:44 pm

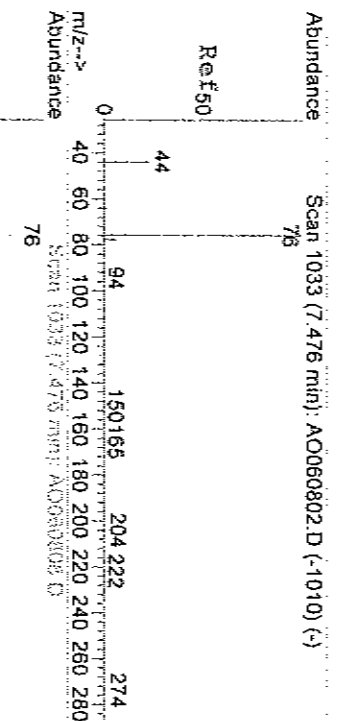
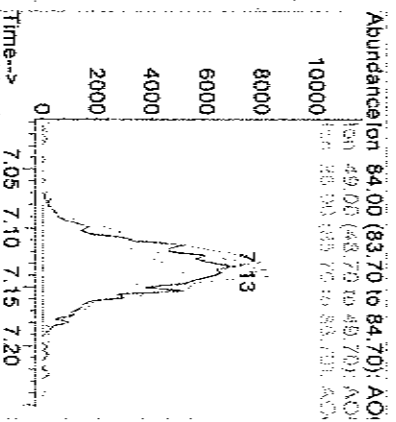
Tgt Ion: 45 Resp: 9185878
Ion Ratio Lower Upper
45 100
43 23.4 0.0 20.0#





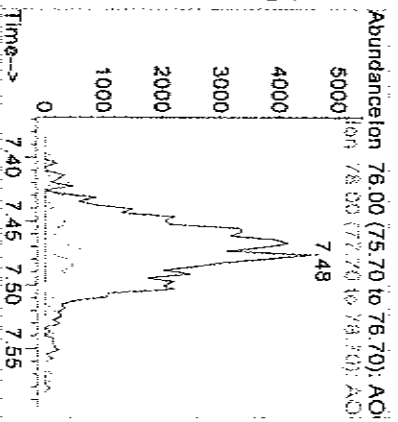
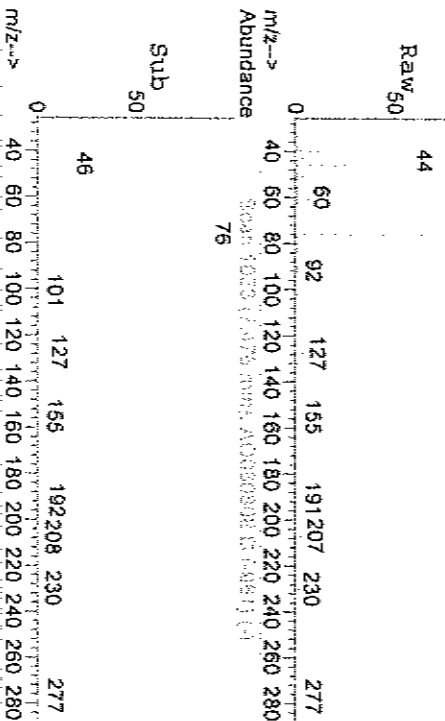
#21
Methylene chloride
Concen: 0.52 ppb
RT: 7.13 min Scan# 918
Delta R.T. 0.01 min
Lab File: A0060808.D
Acq: 8 Jun 2017 2:44 pm

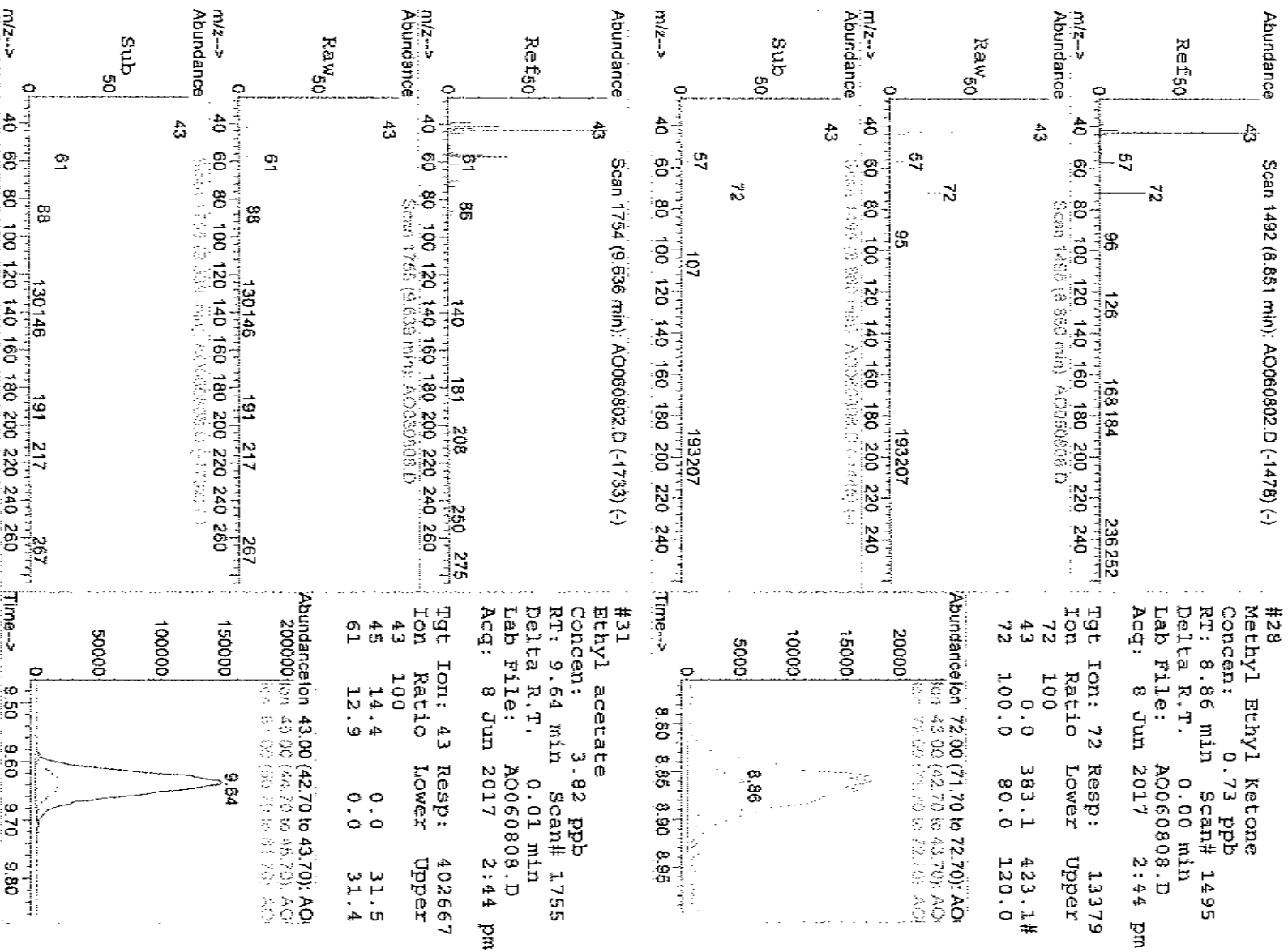
Tgt Ion: 84 Resp: 19520
Ion Ratio Lower Upper
84 100
49 119.3 86.2 126.2
86 72.3 36.1 76.1

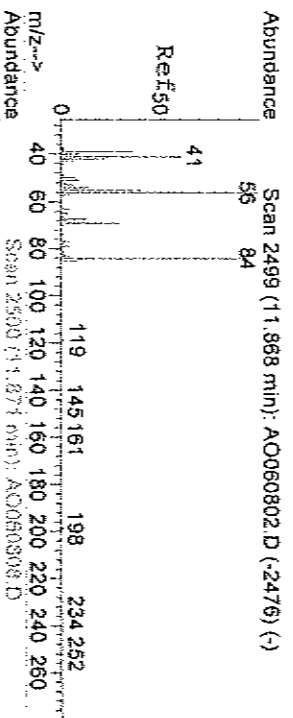


#23
Carbon disulfide
Concen: 0.10 ppb
RT: 7.48 min Scan# 1033
Delta R.T. 0.01 min
Lab File: A0060808.D
Acq: 8 Jun 2017 2:44 pm

Tgt Ion: 76 Resp: 12164
Ion Ratio Lower Upper
76 100
78 6.2 0.0 26.8

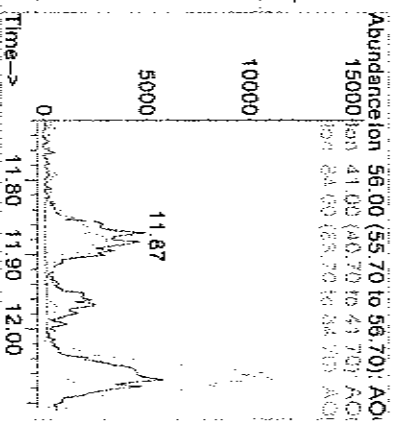
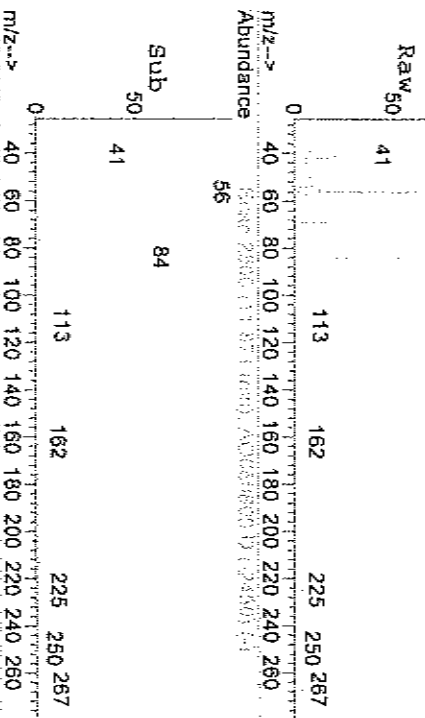






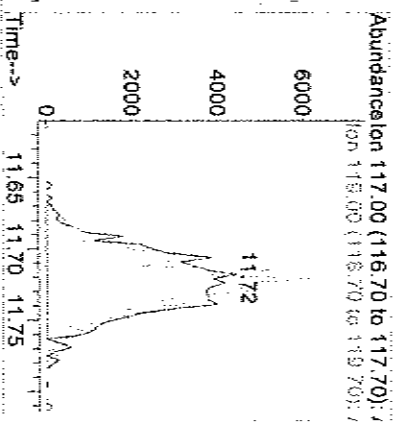
#37
Cyclohexane
Concen: 0.33 ppb
RT: 11.87 min Scan# 2500
Delta R.T. 0.00 min
Lab File: A0060808.D
Acq: 8 Jun 2017 2:44 pm

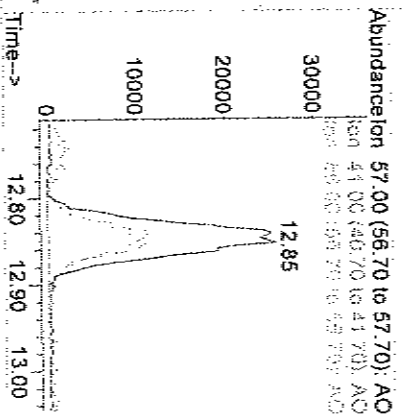
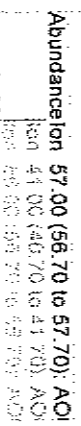
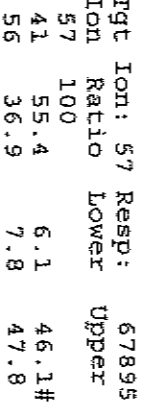
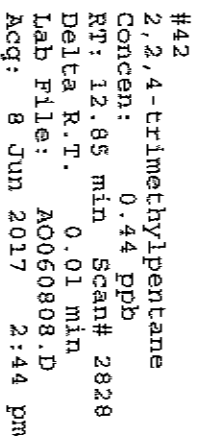
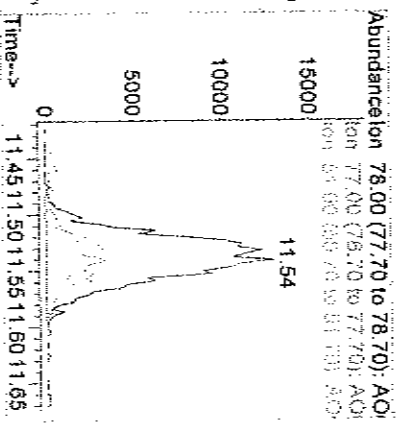
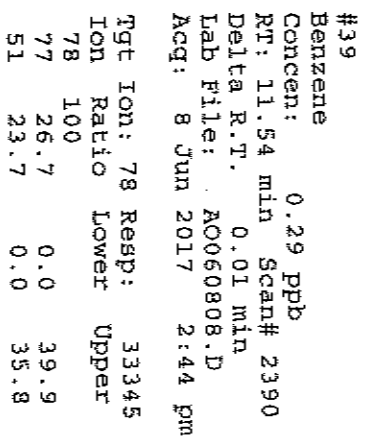
Tgt Ion:	56	Resp:	16067
Ion Ratio	Lower	Upper	
56	100		
41	50.0	43.2	83.2
84	70.9	64.8	104.8

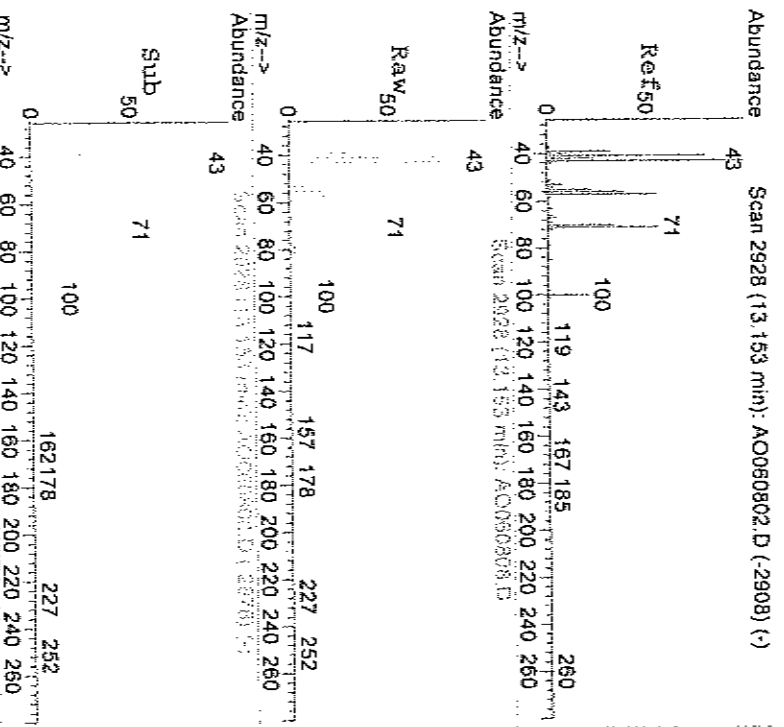


#38
Carbon tetrachloride
Concen: 0.08 ppb
RT: 11.72 min Scan# 2449
Delta R.T. 0.00 min
Lab File: A0060808.D
Acq: 8 Jun 2017 2:44 pm

Tgt Ion:	117	Resp:	12727
Ion Ratio	Lower	Upper	
117	100		
119	97.1	74.9	114.9

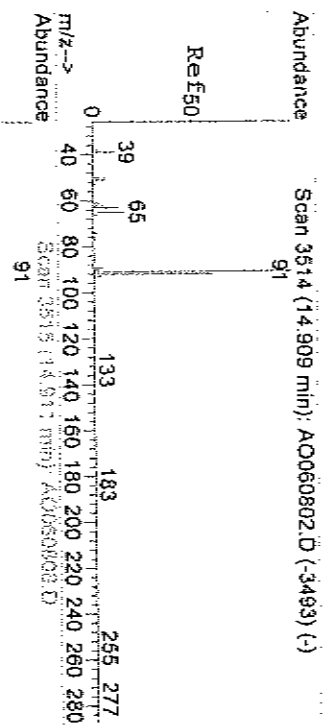
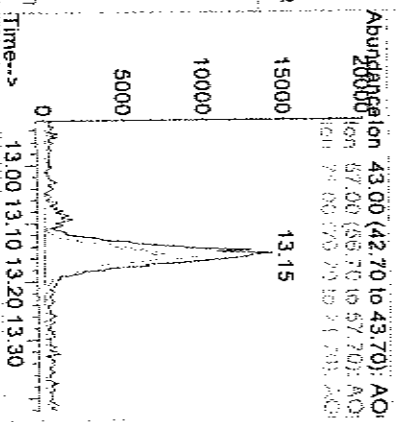






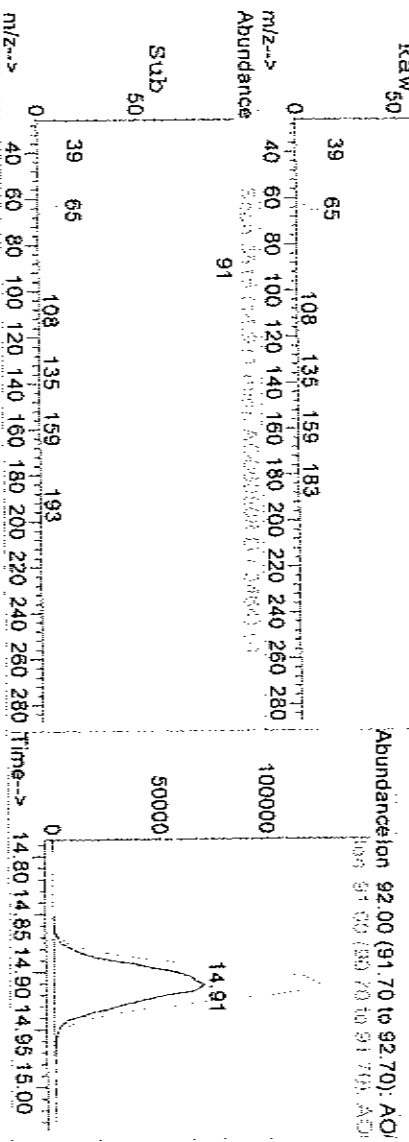
#43
Heptane
Concen: 0.72 ppb
RT: 13.15 min Scan# 2928
Delta R.T. 0.00 min
Lab File: AO060808.D
Acq: 8 Jun 2017 2:44 pm

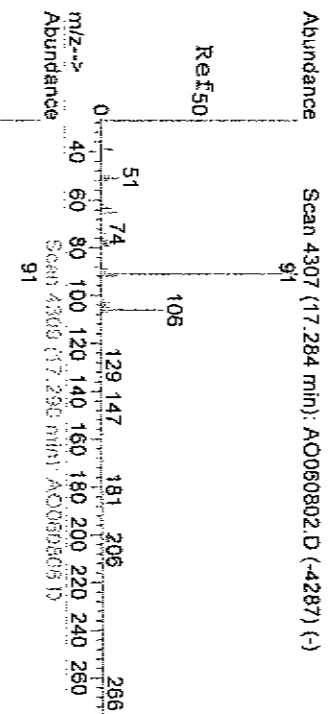
Tgt Ion:	43	Resp:	37176
Ion Ratio	100	Lower	Upper
43	100		
57	43.6	32.6	72.6
71	51.7	37.9	77.9



#51
Toluene
Concen: 1.80 ppb
RT: 14.91 min Scan# 3515
Delta R.T. 0.00 min
Lab File: AO060808.D
Acq: 8 Jun 2017 2:44 pm

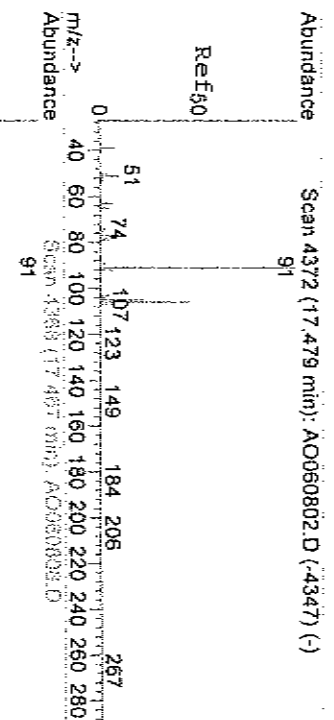
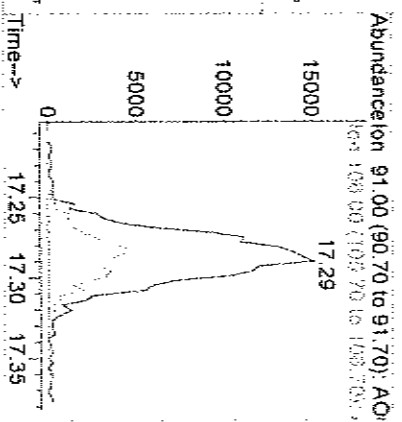
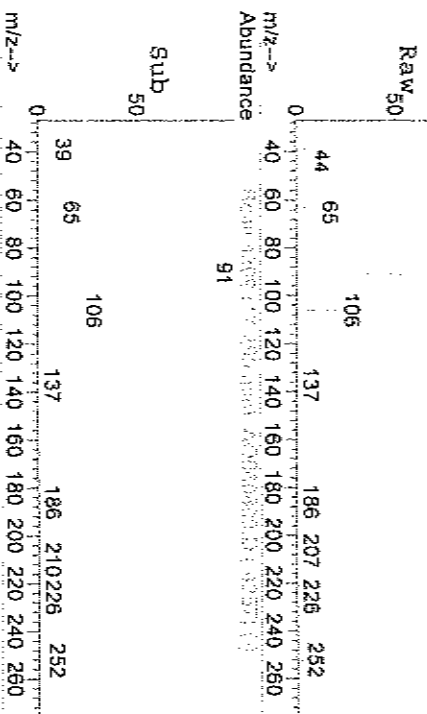
Tgt Ion:	92	Resp:	154923
Ion Ratio	100	Lower	Upper
92	100		
91	180.9	138.8	178.8#





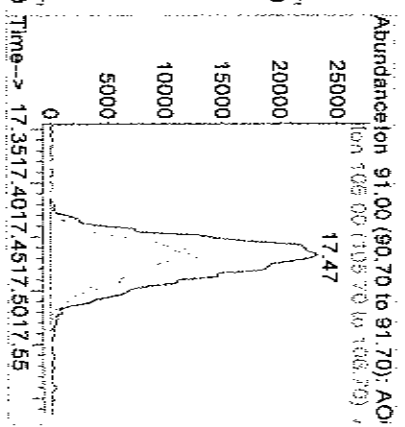
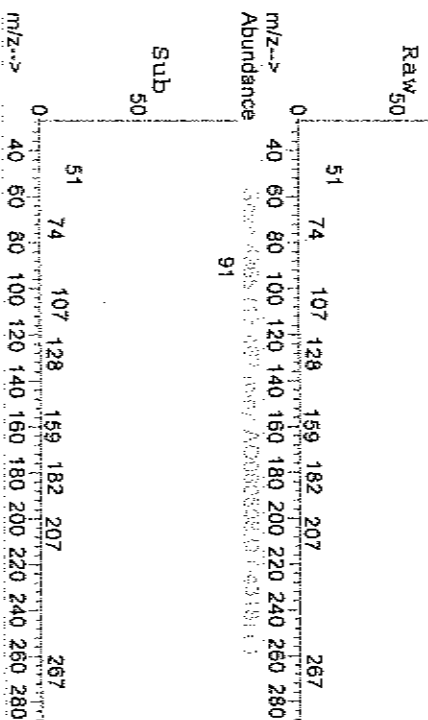
#58
Ethylbenzene
Concen: 0.15 ppb
RT: 17.29 min Scan# 4309
Delta R.T. 0.01 min
Lab File: AO060808.D
Acq: 8 Jun 2017 2:44 pm

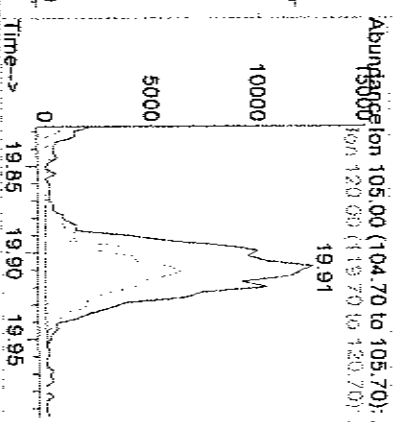
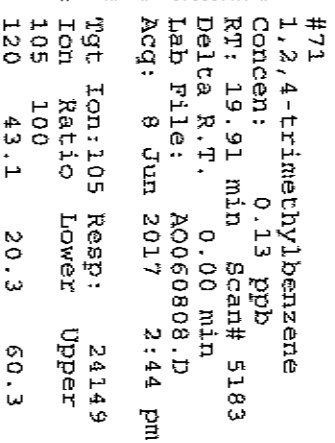
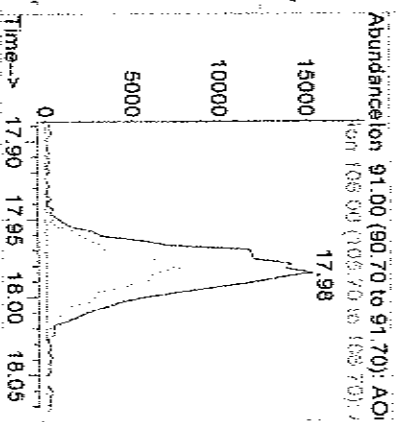
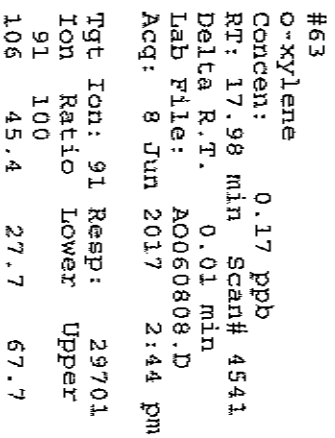
Tgt Ion:	91	Resp:	30330
Ion Ratio	Lower	Upper	
91	100		
106	28.8	10.4	50.4



#59
m&p-xylene
Concen: 0.35 ppb
RT: 17.47 min Scan# 4368
Delta R.T. 0.00 min
Lab File: AO060808.D
Acq: 8 Jun 2017 2:44 pm

Tgt Ion:	91	Resp:	63383
Ion Ratio	Lower	Upper	
91	100		
106	49.2	23.5	63.5





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AO060823.D Vial: 23
Acq On : 9 Jun 2017 1:13 am Operator: RJP
Sample : C1706015-001A 10X Inst : MSD #1
Misc : A605_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 07:24:38 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : 70-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
--------------------	------	------	----------	------------	----------

1) Bromochloromethane	9.58	128	30329	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.97	114	132751	1.00 ppb	0.00
50) Chlorobenzene-d5	16.84	117	117033	1.00 ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.48	95	75222	0.93 ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery =	93.00%

Target Compounds

15) Acetone	6.16	58	32976	1.72 ppb	Qvalue 94
17) Isopropyl alcohol	6.40	45	854792	13.54 ppb	# 100
31) Ethyl acetate	9.64	43	34187	0.41 ppb	93

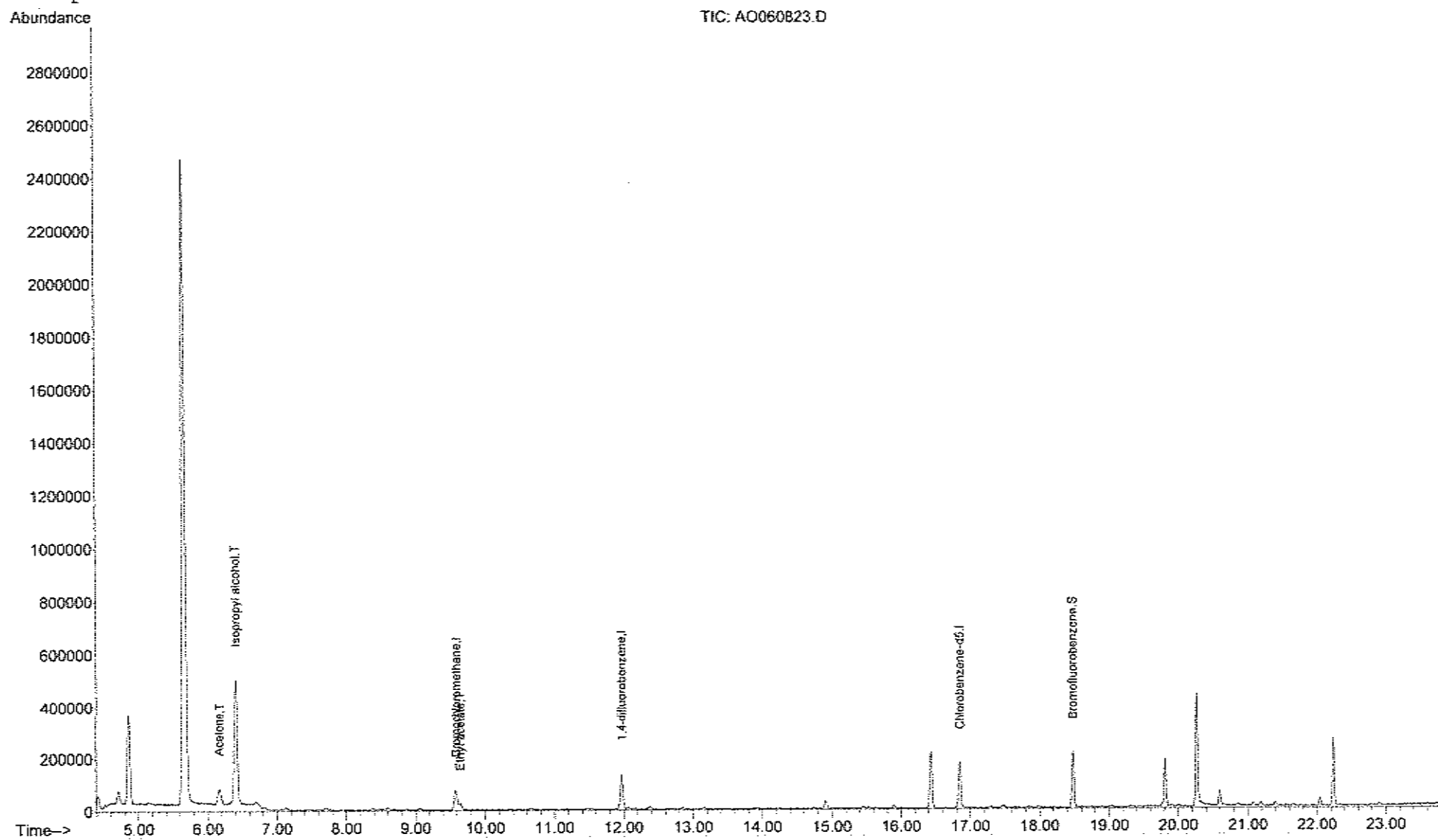
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO060823.D A605_1UG.M Thu Jun 29 10:07:42 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060823.D
Acq On : 9 Jun 2017 1:13 am
Sample : C1706015-001A 10X
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 15 10:40 2017

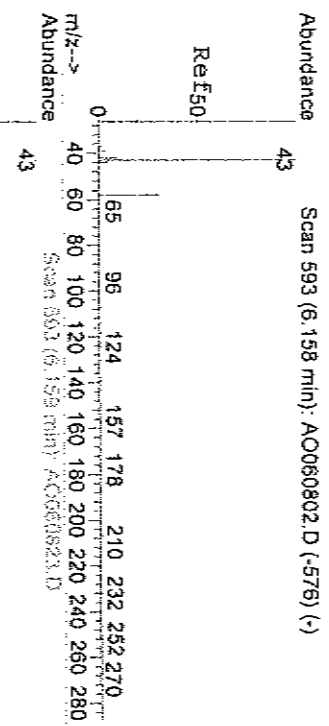
Vial: 23
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

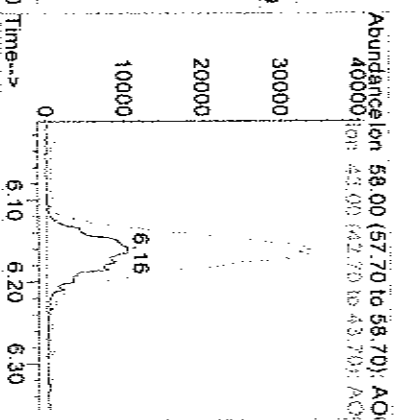
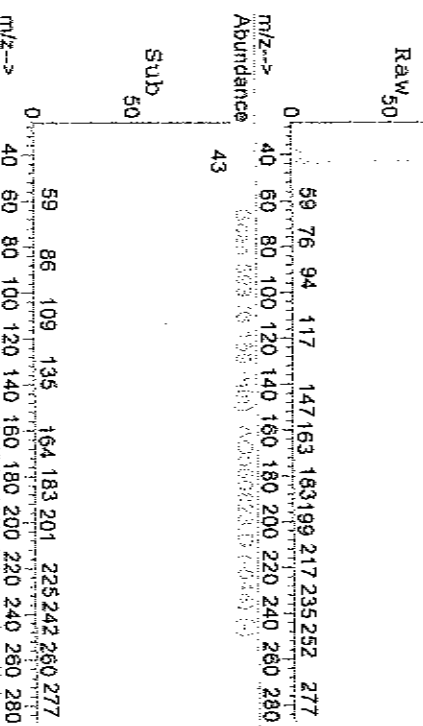
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration



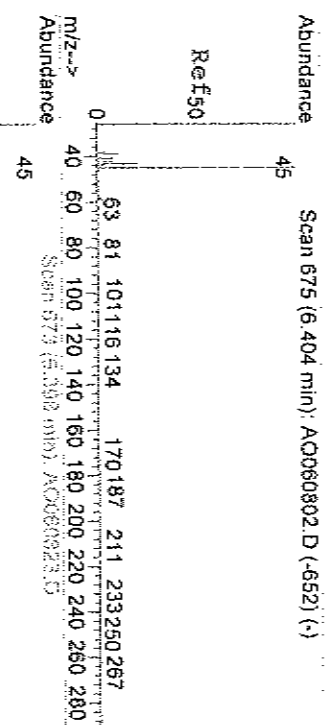
#15
Acetone
Concen: 1.72 ppb
RT: 6.16 min Scan# 593
Delta R.T. -0.00 min
Lab File: AO060823.D
Acq: 9 Jun 2017 1:13 am



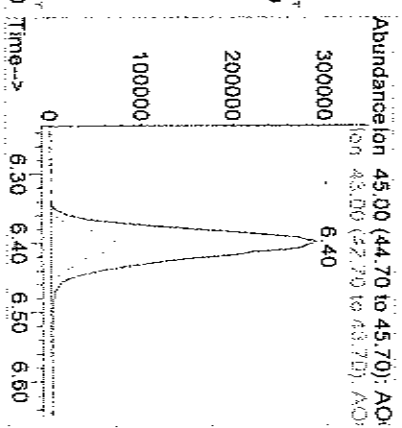
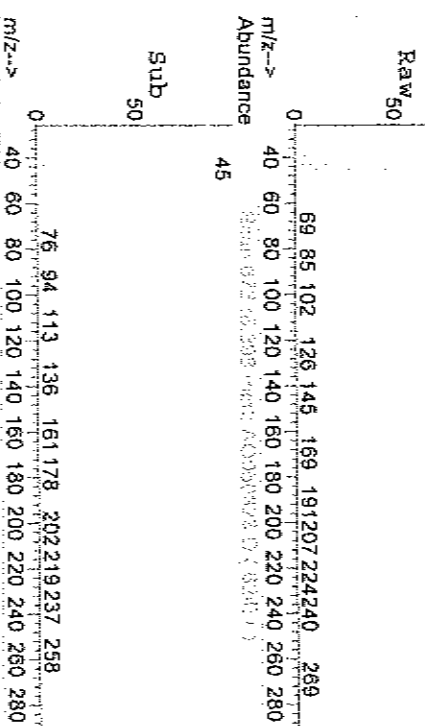
Tgt Ion: 58 Resp: 32976
Ion Ratio Lower Upper
58 100
43 304.5 263.2 323.2

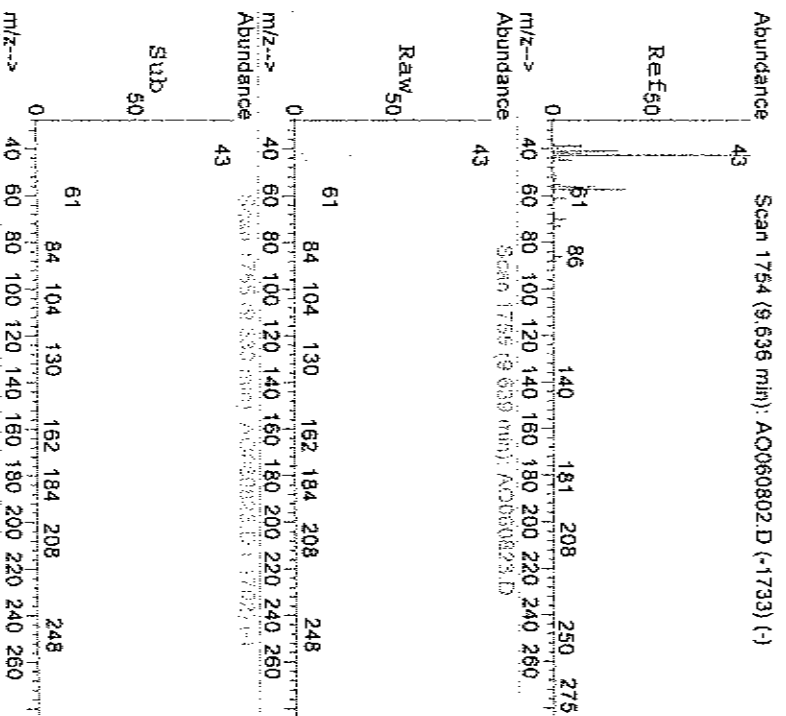


#17
Isopropyl alcohol
Concen: 13.54 ppb
RT: 6.40 min Scan# 673
Delta R.T. -0.00 min
Lab File: AO060823.D
Acq: 9 Jun 2017 1:13 am



Tgt Ion: 45 Resp: 854792
Ion Ratio Lower Upper
45 100
43 25.7 0.0 20.0#





#31	Ethyl acetate
Concen:	0.41 ppb
RT: 9.64 min	Scan# 1755
Delta R.T.	0.01 min
Lab File:	A0060823.D
Acq: 9 Jun 2017	1:13 am
Tgt Ion: 43	Resp: 34187
Ion Ratio	Lower Upper
43	100
45	14.8 0.0 31.5
61	13.5 0.0 31.4

Abundance Ion 43.00 (42.70 to 43.70) A0060802.D

Ion 45.00 (44.70 to 45.70) A0060802.D

Ion 61.00 (60.70 to 61.70) A0060802.D

Time-->

Quantitation Report

(QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AO060831.D
Acq On : 9 Jun 2017 7:48 am
Sample : C1706015-001A 90X
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 09 08:44:20 2017

Vial: 31
Operator: RJP
Inst : MSD #1
Multiplier: 1.00
Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.58	128	28904	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.96	114	128075	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	111157	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.47	95	72264	0.94	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	94.00%
Target Compounds						
17) Isopropyl alcohol	6.41	45	103292	1.72	ppb	Qvalue # 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO060831.D A605_1UG.M Thu Jun 29 10:08:25 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060831.D

Acq On : 9 Jun 2017 7:48 am

Sample : C1706015-001A 90X

Misc : A605_1UG

MS Integration Params: RTEINT.P

Quant Time: Jun 15 10:40 2017

Vial: 31

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

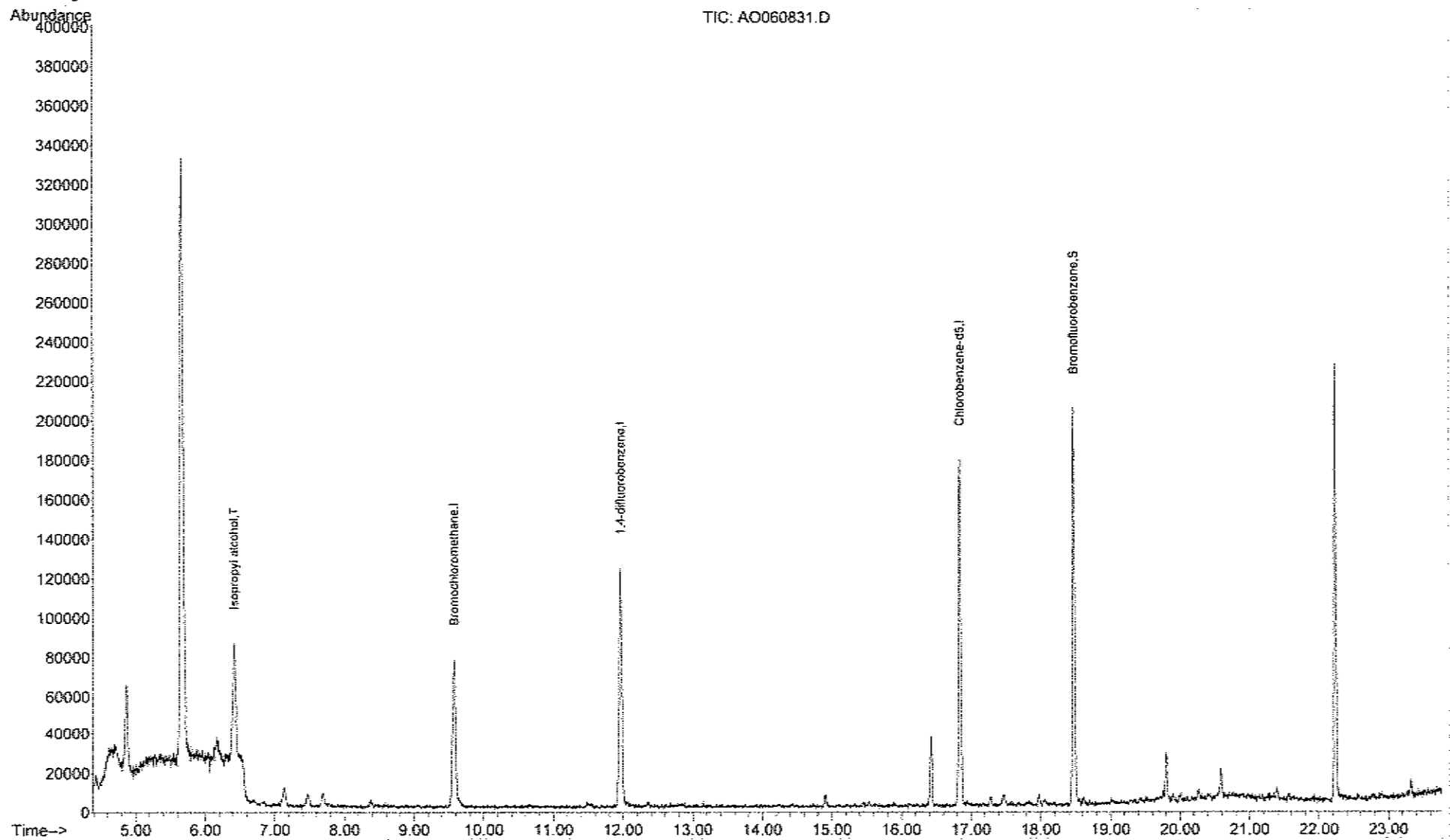
Quant Results File: A605_1UG.RES

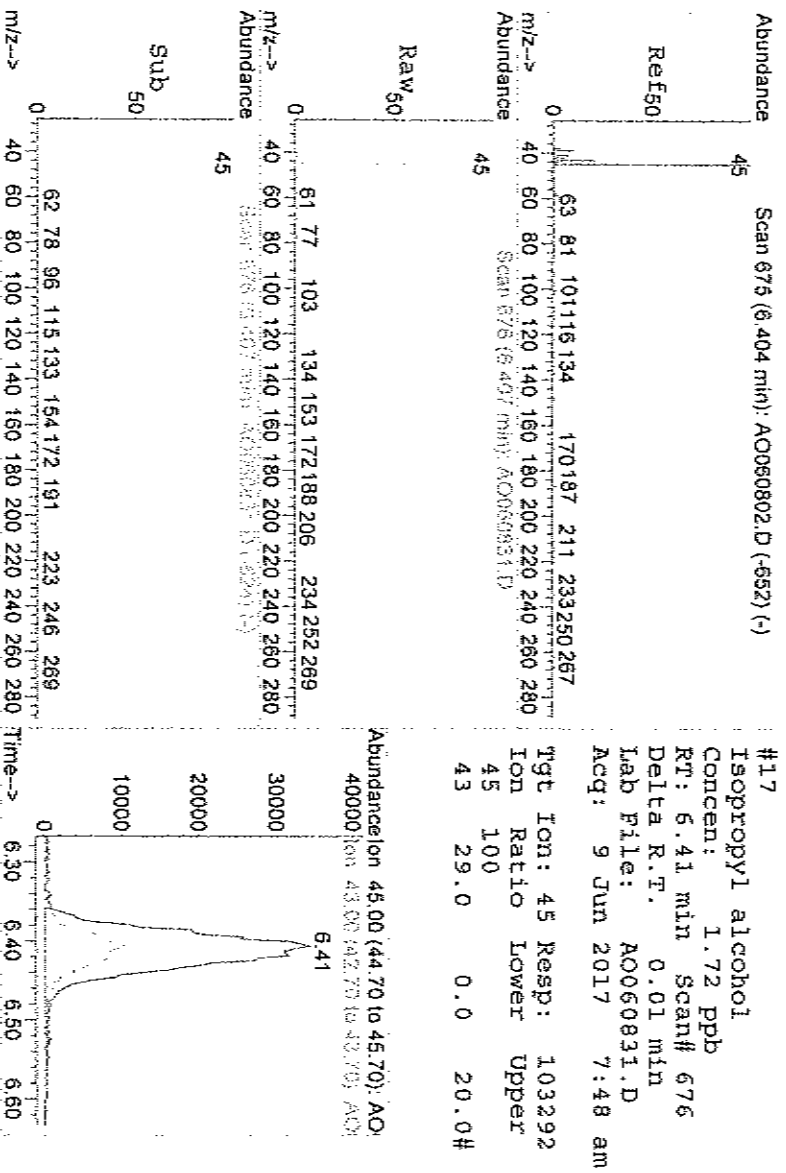
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 10:00:17 2017

Response via : Initial Calibration





Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-002A

Client Sample ID: Rm 107
 Tag Number: 419.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-3			FLD		Analyst:
Lab Vacuum Out	-30			"Hg		6/7/2017
				"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,3-butadiene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/8/2017 3:25:00 PM
2,2,4-trimethylpentane	1.9	0.15		ppbv	1	6/8/2017 3:25:00 PM
4-ethyltoluene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Acetone	18	3.0		ppbv	10	6/9/2017 1:52:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Benzene	0.44	0.15		ppbv	1	6/8/2017 3:25:00 PM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Bromotorm	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Bromomethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Carbon disulfide	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Carbon tetrachloride	0.090	0.040		ppbv	1	6/8/2017 3:25:00 PM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Chloroethane	0.10	0.15		ppbv	1	6/8/2017 3:25:00 PM
Chloroform	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Chloromethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Cyclohexane	1.1	0.15		ppbv	1	6/8/2017 3:25:00 PM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Ethyl acetate	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Quantifiers:						
** Quantitation Limit	Results reported are not blank corrected					
B Analyte detected in the associated Method Blank	E Estimated Value above quantitation range					
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit					
JN Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection					
S Spike Recovery outside accepted recovery limits						

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.

Client Sample ID: Rm 107

Lab Order: C1706015

Tag Number: 419,260

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-002A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.14	0.15	TO-15	ppbv	1	Analyst: RJP 6/8/2017 3:25:00 PM
Freon 11	0.25	0.15		ppbv	1	6/8/2017 3:25:00 PM
Freon 113	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Freon 114	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Freon 12	0.53	0.15		ppbv	1	6/8/2017 3:25:00 PM
Heptane	1.2	0.15		ppbv	1	6/8/2017 3:25:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Hexane	1.6	1.5		ppbv	10	6/9/2017 1:52:00 AM
Isopropyl alcohol	29	1.5		ppbv	10	6/9/2017 1:52:00 AM
m&p-Xylene	0.37	0.30		ppbv	1	6/8/2017 3:25:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 3:25:00 PM
Methyl Ethyl Ketone	2.8	3.0	J	ppbv	10	6/9/2017 1:52:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 3:25:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Methylene chloride	0.41	0.15		ppbv	1	6/8/2017 3:25:00 PM
o-Xylene	0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Propylene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Styrene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Toluene	1.3	0.15		ppbv	1	6/8/2017 3:25:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Trichloroethene	0.11	0.040		ppbv	1	6/8/2017 3:25:00 PM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/8/2017 3:25:00 PM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/8/2017 3:25:00 PM
Surf: Bromofluorobenzene	101	70-130		%REC	1	6/8/2017 3:25:00 PM

Qualifiers: ** Quantitation Limit

B	Analyte detected in the associated Method Blank	E	Results reported are not blank corrected
H	Holding times for preparation or analysis exceeded	J	Estimated Value above quantitation range
JN	Non-routine analyte. Quantitation estimated.		Analyte detected below quantitation limit
S	Spike Recovery outside accepted recovery limits	ND	Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-002A

Client Sample ID: Rm 107
 Tag Number: 419,260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	** Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82	TO-15	ug/m3	1	Analyst: RJP 6/8/2017 3:25:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 3:25:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 3:25:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 3:25:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2017 3:25:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2017 3:25:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 3:25:00 PM
1,3-Butadiene	< 0.33	0.33		ug/m3	1	6/8/2017 3:25:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 3:25:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 3:25:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/8/2017 3:25:00 PM
2,2,4-trimethylpentane	8.7	0.70		ug/m3	1	6/8/2017 3:25:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/8/2017 3:25:00 PM
Acetone	43	7.1		ug/m3	10	6/9/2017 1:52:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2017 3:25:00 PM
Benzene	1.4	0.48		ug/m3	1	6/8/2017 3:25:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2017 3:25:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2017 3:25:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/8/2017 3:25:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/8/2017 3:25:00 PM
Carbon tetrachloride	0.57	0.25		ug/m3	1	6/8/2017 3:25:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2017 3:25:00 PM
Chloroethane	0.26	0.40	J	ug/m3	1	6/8/2017 3:25:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2017 3:25:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2017 3:25:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 3:25:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 3:25:00 PM
Cyclohexane	3.9	0.52		ug/m3	1	6/8/2017 3:25:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2017 3:25:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/8/2017 3:25:00 PM
Ethylbenzene	0.61	0.65	J	ug/m3	1	6/8/2017 3:25:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/8/2017 3:25:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2017 3:25:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM

Qualifiers:

**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	NID Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-002A

Client Sample ID: Rm 107
 Tag Number: 419.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.6	0.74	TO-15	ug/m3	1	Analyst: RJP 6/8/2017 3:25:00 PM
Heptane	4.9	0.61		ug/m3	1	6/8/2017 3:25:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2017 3:25:00 PM
Hexane	5.6	5.3		ug/m3	10	6/9/2017 1:52:00 AM
Isopropyl alcohol	71	3.7		ug/m3	10	6/9/2017 1:52:00 AM
m&p-Xylene	1.6	1.3		ug/m3	1	6/8/2017 3:25:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 3:25:00 PM
Methyl Ethyl Ketone	8.3	8.8	J	ug/m3	10	6/9/2017 1:52:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 3:25:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2017 3:25:00 PM
Methylene chloride	1.4	0.52		ug/m3	1	6/8/2017 3:25:00 PM
o-Xylene	0.65	0.65		ug/m3	1	6/8/2017 3:25:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2017 3:25:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2017 3:25:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2017 3:25:00 PM
Toluene	4.8	0.57		ug/m3	1	6/8/2017 3:25:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 3:25:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 3:25:00 PM
Trichloroethene	0.59	0.21		ug/m3	1	6/8/2017 3:25:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2017 3:25:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2017 3:25:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/8/2017 3:25:00 PM

Quantifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank		E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.		ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits			

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AO060809.D Vial: 9
 Acq On : 8 Jun 2017 3:25 pm Operator: RJP
 Sample : C1706015-002A Inst : MSD #1
 Misc : A605_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 09 07:24:24 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.57	128	33329	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.97	114	158231	1.00 ppb	0.00
50) Chlorobenzene-d5	16.84	117	144429	1.00 ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene 18.48 95 100698 1.01 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 101.00%

Target Compounds

					Qvalue
3) Freon 12	4.57	85	113161	0.53 ppb	97
10) Chloroethane	5.57	64	2513	0.10 ppb	77
14) Freon 11	6.34	101	66269	0.25 ppb	99
15) Acetone	6.16	58	361024	17.16 ppb	82
17) Isopropyl alcohol	6.40	45	2070445	29.86 ppb	100
21) Methylene chloride	7.13	84	13279	0.41 ppb	88
28) Methyl Ethyl Ketone	8.85	72	41000	2.61 ppb	91
30) Hexane	9.63	57	141367	3.49 ppb	87
37) Cyclohexane	11.88	56	52225	1.14 ppb	94
38) Carbon tetrachloride	11.73	117	13303	0.09 ppb	89
39) Benzene	11.54	78	47038	0.44 ppb	86
42) 2,2,4-trimethylpentane	12.85	57	264450	1.86 ppb	68
43) Heptane	13.16	43	56963	1.19 ppb	95
44) Trichloroethene	12.81	130	6177	0.11 ppb	88
51) Toluene	14.91	92	105656	1.28 ppb	86
58) Ethylbenzene	17.29	91	28100	0.14 ppb	98
59) m&p-xylene	17.47	91	63131	0.37 ppb	91
63) o-xylene	17.98	91	24900	0.15 ppb	93

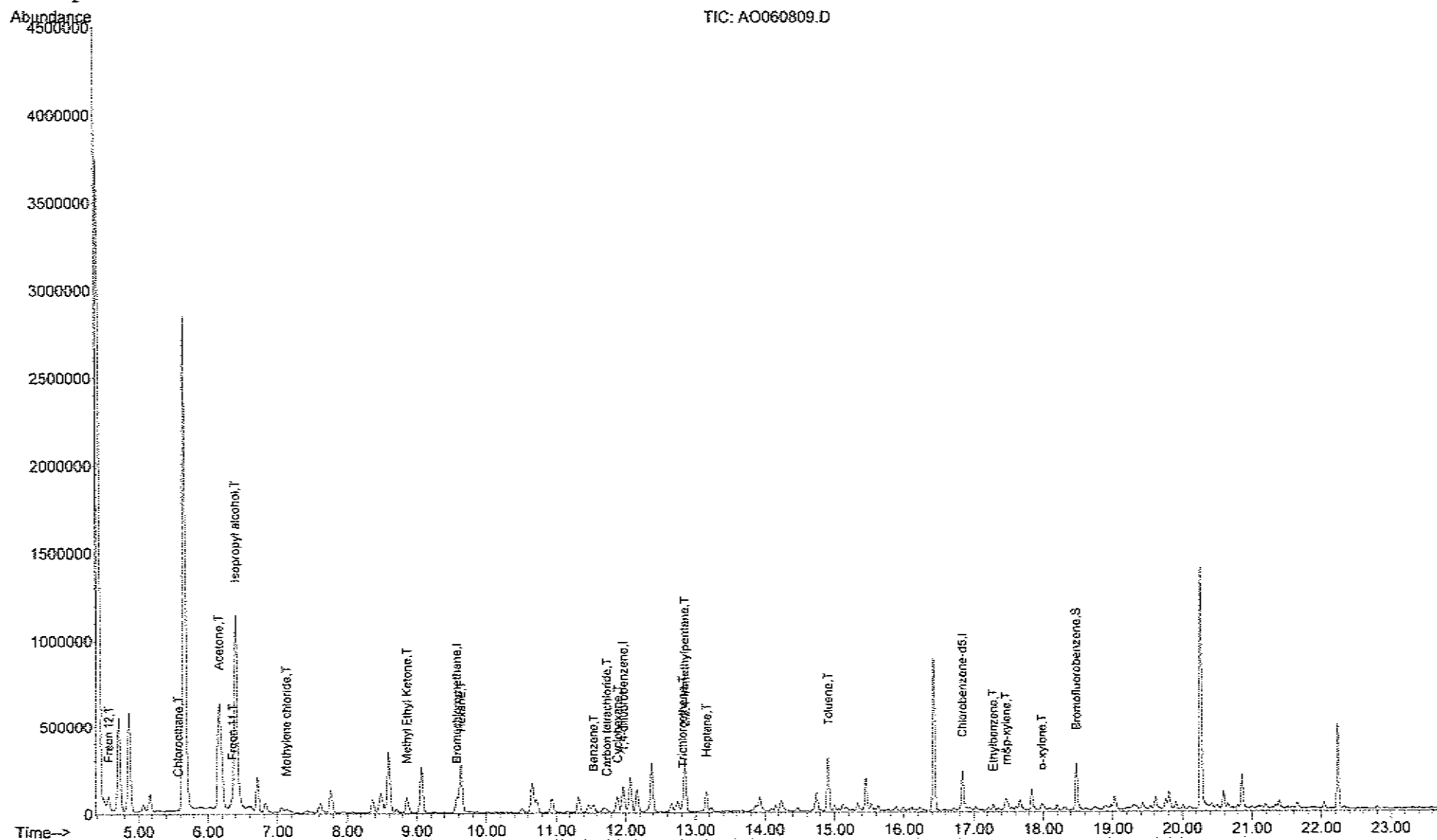
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO060809.D A605_1UG.M Thu Jun 29 10:07:16 2017 MSD1

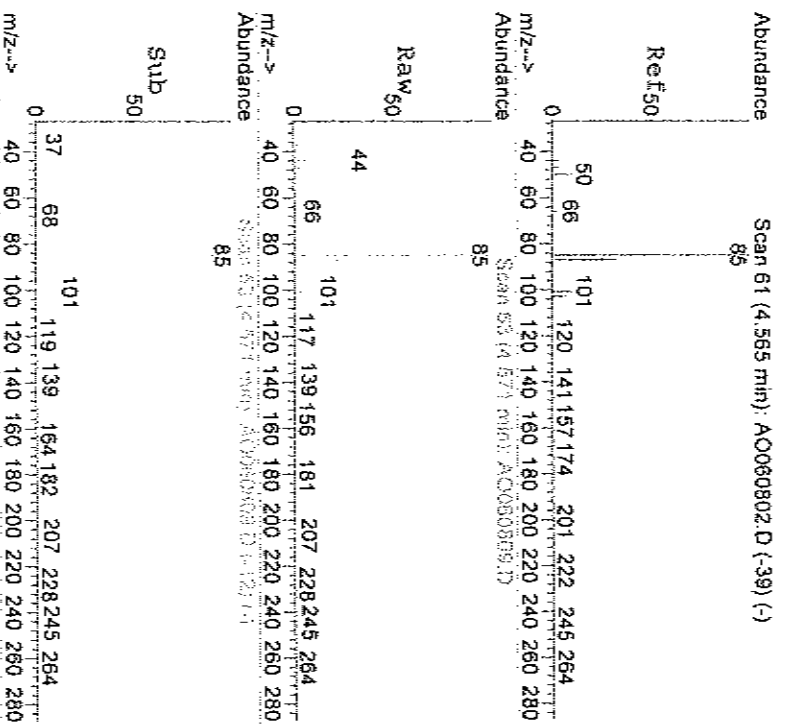
Data File : C:\HPCHEM\1\DATA\AO060809.D
Acq On : 8 Jun 2017 3:25 pm
Sample : C1706015-002A
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 14 14:20 2017

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

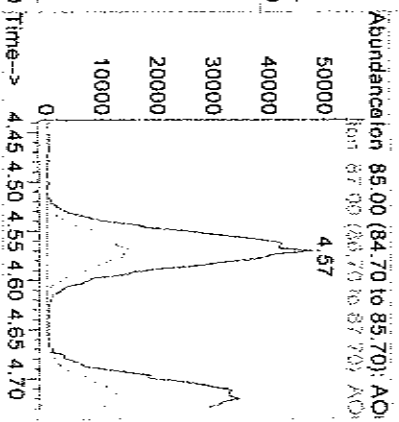
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration





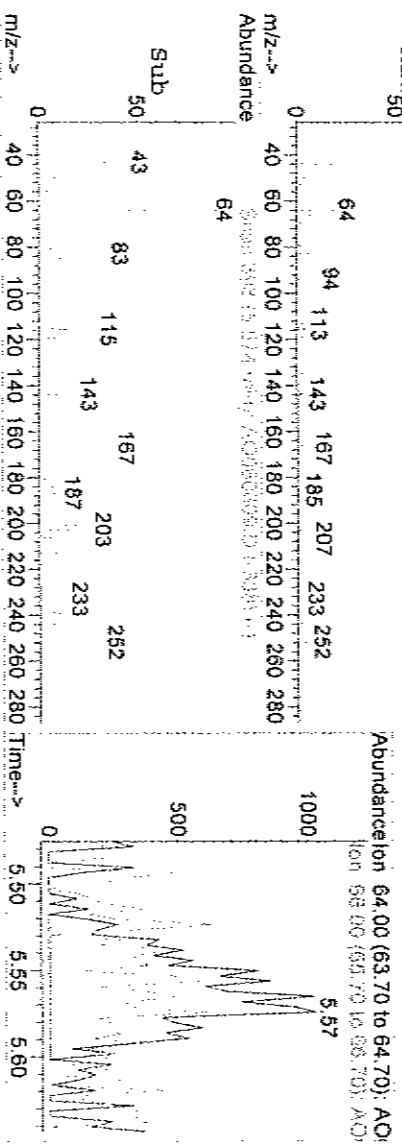
#3
Freon 12
Concen: 0.53 ppb
RT: 4.57 min Scan# 63
Delta R.T. 0.00 min
Lab File: AO060809.D
Acq: 8 Jun 2017 3:25 pm

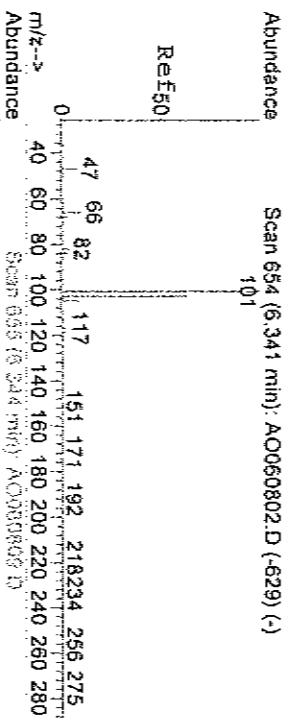
Tgt Ion: 85 Resp: 113161
Ion Ratio Lower Upper
85 100
87 32.8 11.3 51.3



#10
Chloroethane
Concen: 0.10 ppb
RT: 5.57 min Scan# 398
Delta R.T. 0.03 min
Lab File: AO060809.D
Acq: 8 Jun 2017 3:25 pm

Tgt Ion: 64 Resp: 2513
Ion Ratio Lower Upper
64 100
66 40.5 22.7 34.1#





#14

Freon 11

Concen: 0.25 ppb

RT: 6.34 min Scan# 655

Delta R.T. 0.01 min

Lab File: AO060809.D

Acq: 8 Jun 2017 3:25 pm

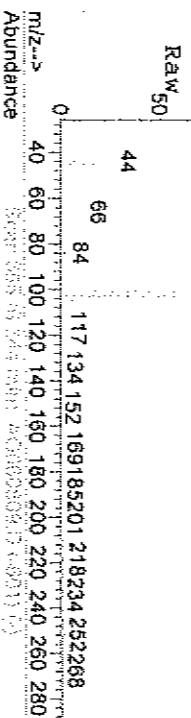
Tgt Ion: 101 Resp: 66269

Ion Ratio Lower Upper

101 100

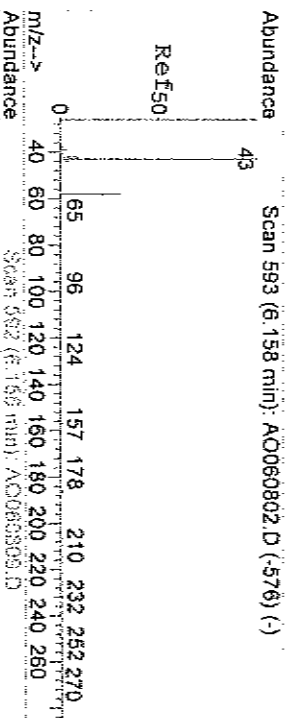
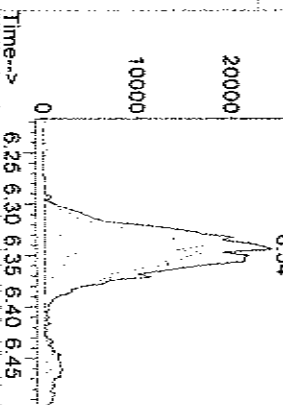
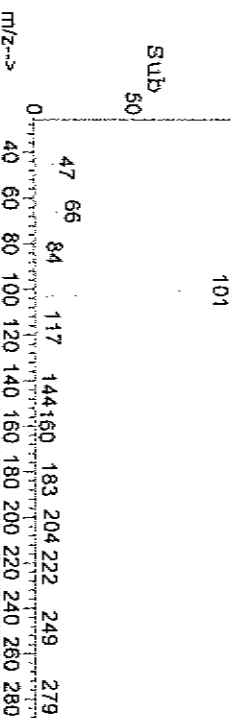
103 66.1 46.0 86.0

105 13.1 0.0 31.4



Abundance Ion 101.00 (100.70 to 101.70):

Scan 593 (6.158 min): AO060802.D



#15

Acetone

Concen: 17.16 ppb

RT: 6.16 min Scan# 592

Delta R.T. -0.01 min

Lab File: AO060809.D

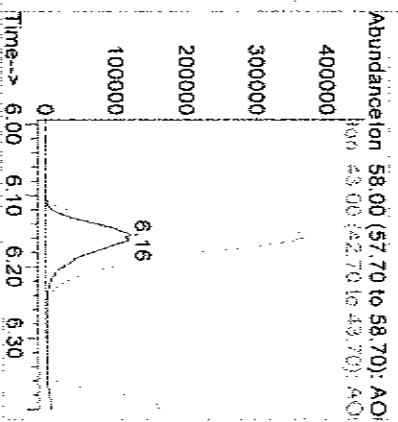
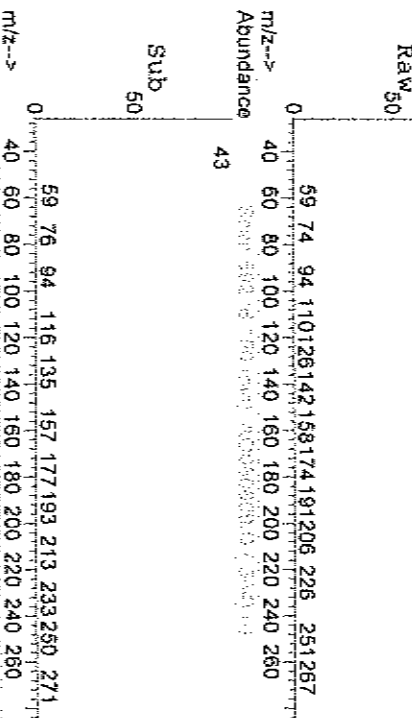
Acq: 8 Jun 2017 3:25 pm

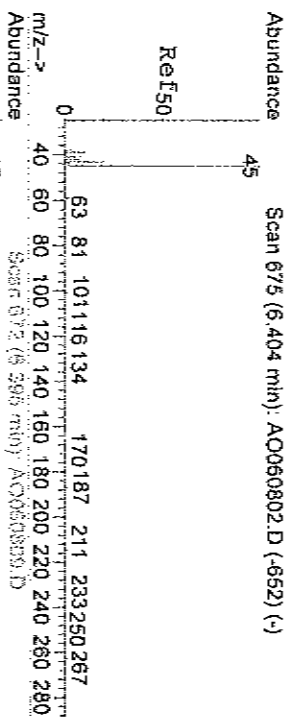
Tgt Ion: 58 Resp: 361024

Ion Ratio Lower Upper

58 100

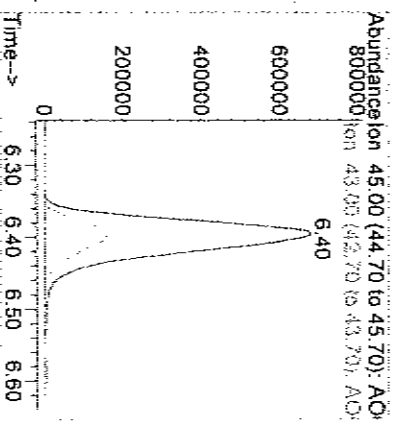
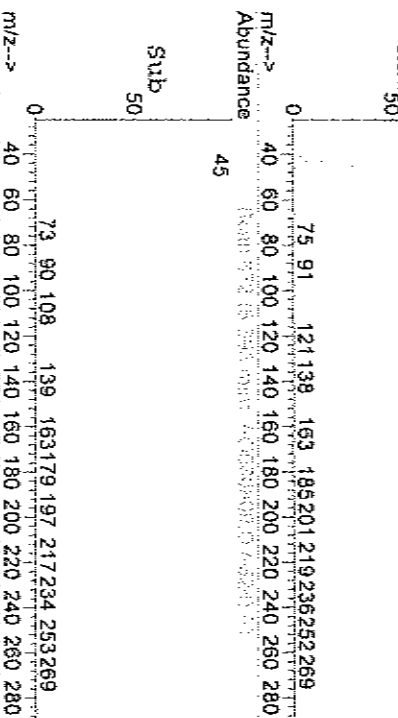
43 328.9 263.2 323.2#



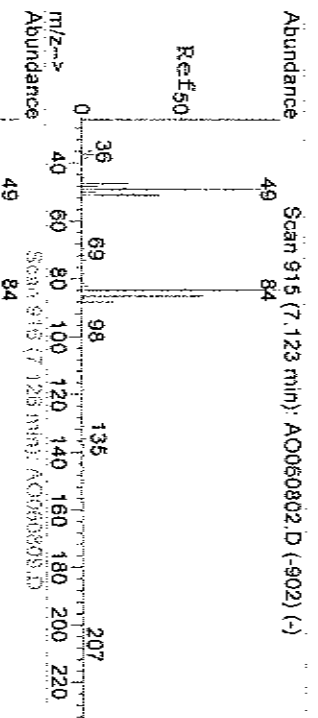


#17
Isopropyl alcohol
Concen: 29.86 ppb
RT: 6.40 min Scan# 672
Delta R.T. -0.01 min
Lab File: AO060809.D
Acq: 8 Jun 2017 3:25 pm

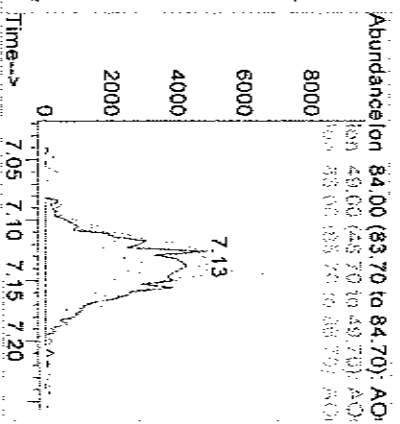
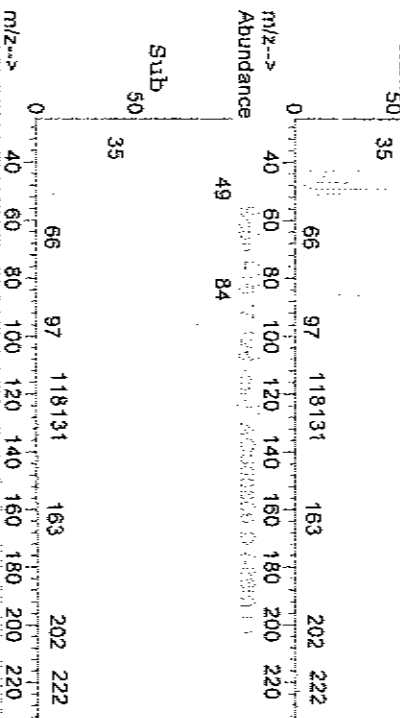
Tgt Ion: 45 Resp: 2070445
Ion Ratio Lower Upper
45 100
43 23.9 0.0 20.0#

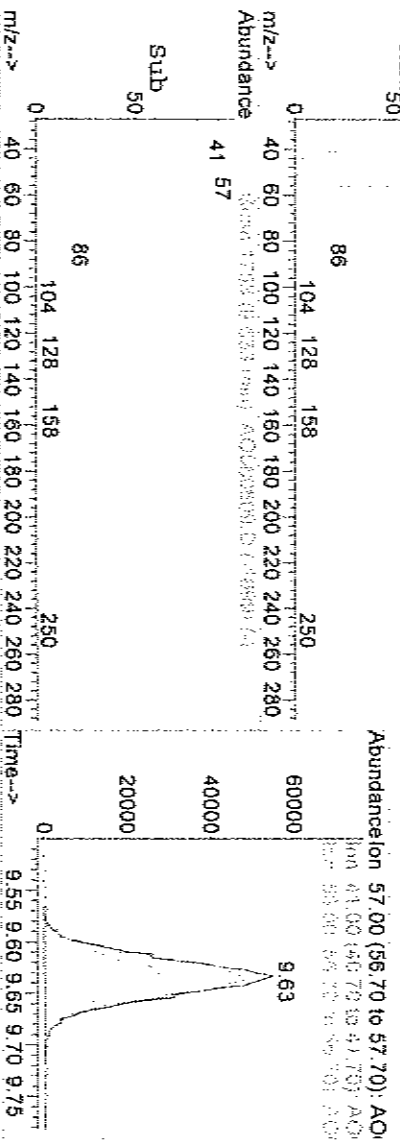
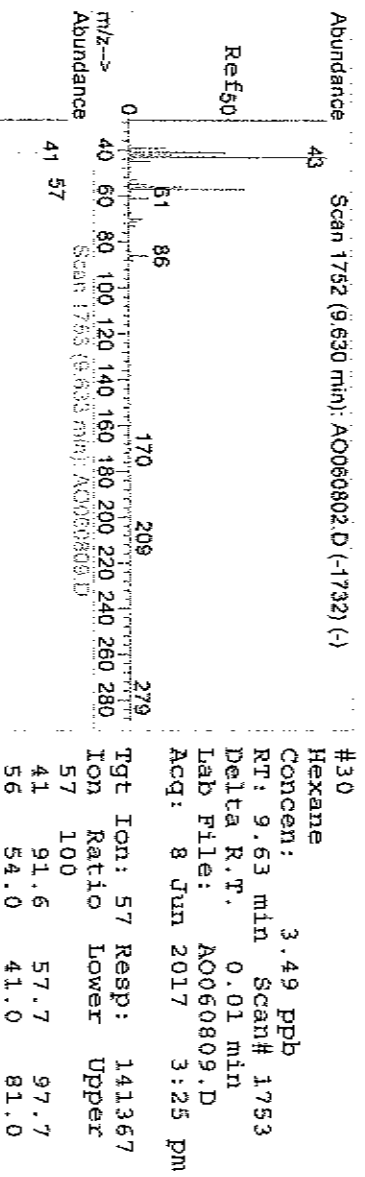
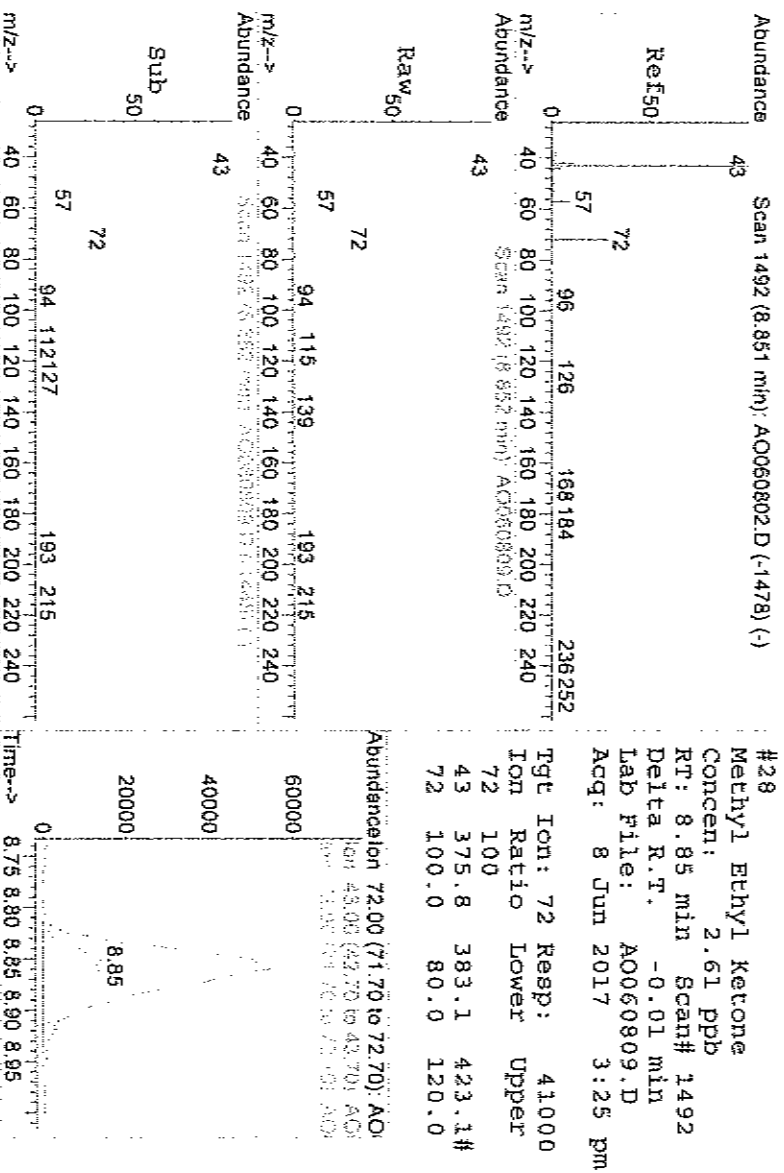


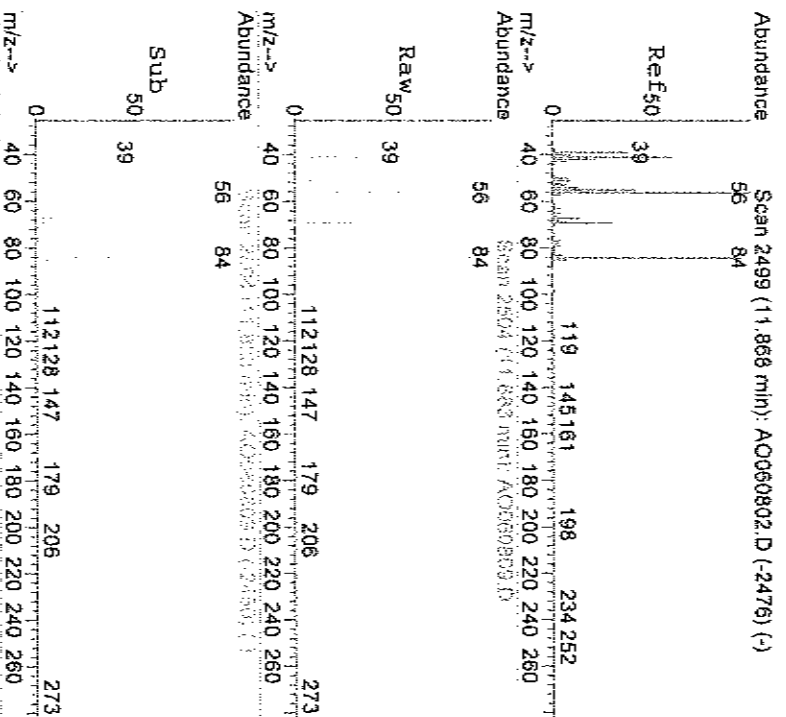
#21
Methylene chloride
Concen: 0.41 ppb
RT: 7.13 min Scan# 915
Delta R.T. 0.00 min
Lab File: AO060809.D
Acq: 8 Jun 2017 3:25 pm



Tgt Ion: 84 Resp: 13279
Ion Ratio Lower Upper
84 100
49 121.5 86.2 126.2
86 61.9 36.1 76.1

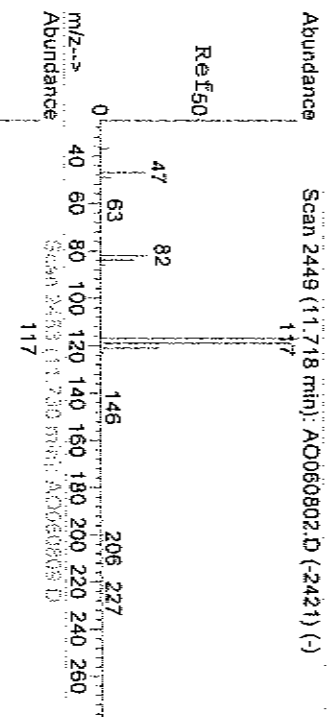
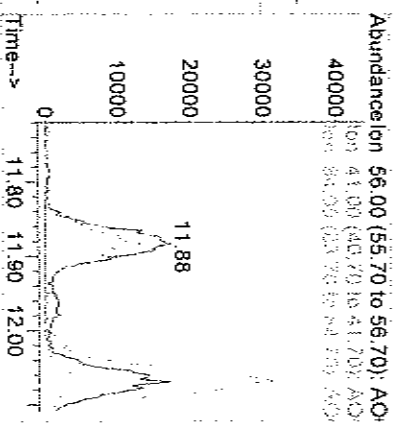






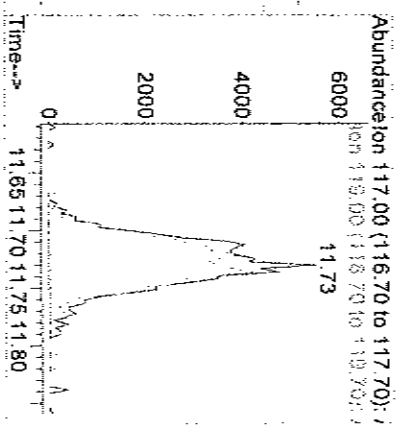
#37
Cyclohexane
Concen: 1.14 ppb
RT: 11.88 min Scan# 2504
Delta R.T. 0.01 min
Lab File: A0060809.D
Acq: 8 Jun 2017 3:25 pm

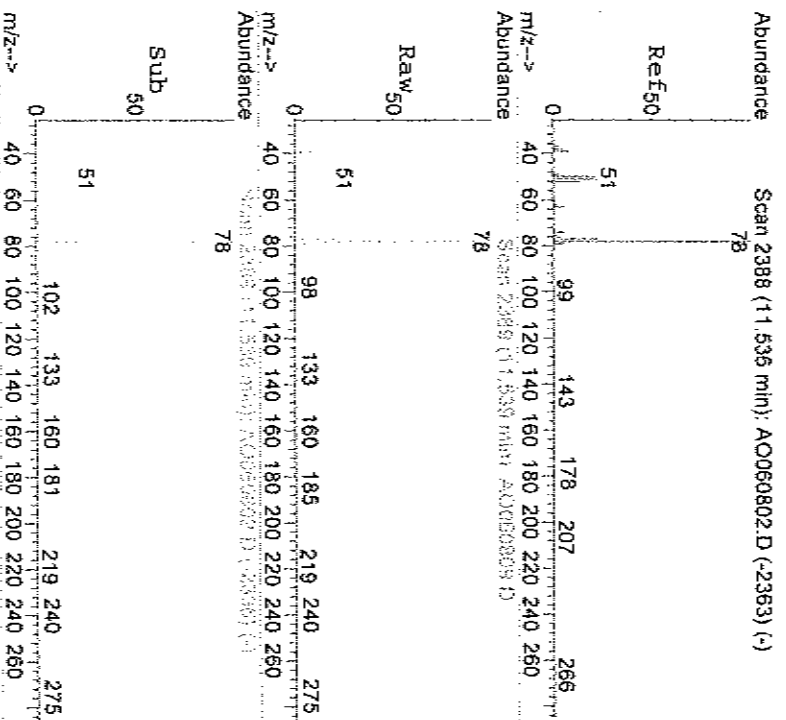
Tgt Ion: 56 Resp: 52225
Ion Ratio Lower Upper
56 100
41 73.0 43.2 83.2
84 85.8 64.8 104.8



#38
Carbon tetrachloride
Concen: 0.09 ppb
RT: 11.73 min Scan# 2453
Delta R.T. 0.01 min
Lab File: A0060809.D
Acq: 8 Jun 2017 3:25 pm

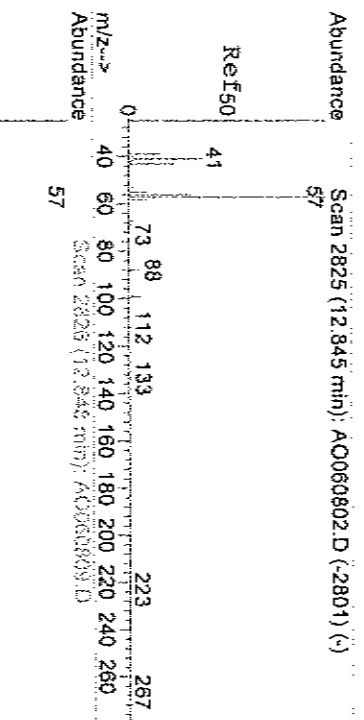
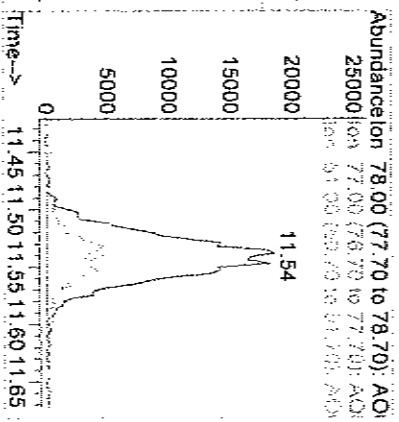
Tgt Ion: 117 Resp: 13303
Ion Ratio Lower Upper
117 100
119 84.2 74.9 114.9





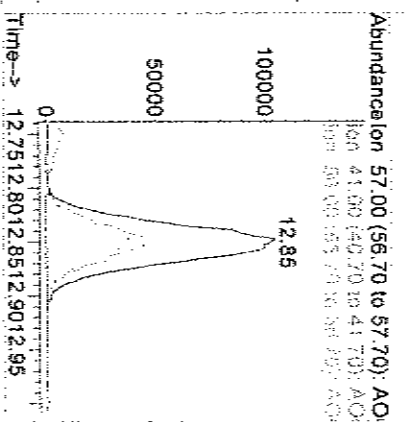
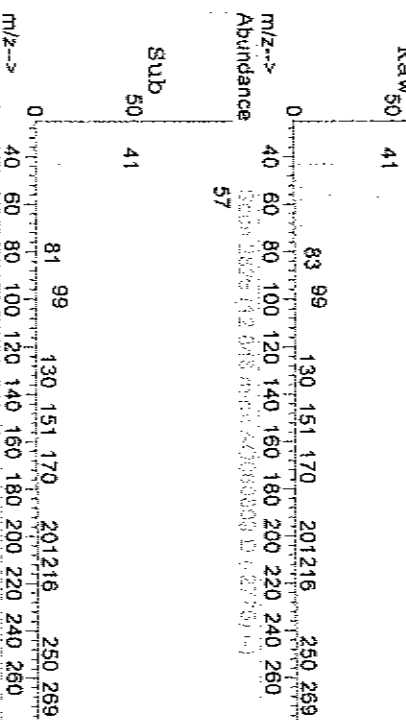
#39
Benzene
Concen: 0.44 ppb
RT: 11.54 min Scan# 2389
Delta R.T. 0.01 min
Lab File: A0060809.D
Acq: 8 Jun 2017 3:25 pm

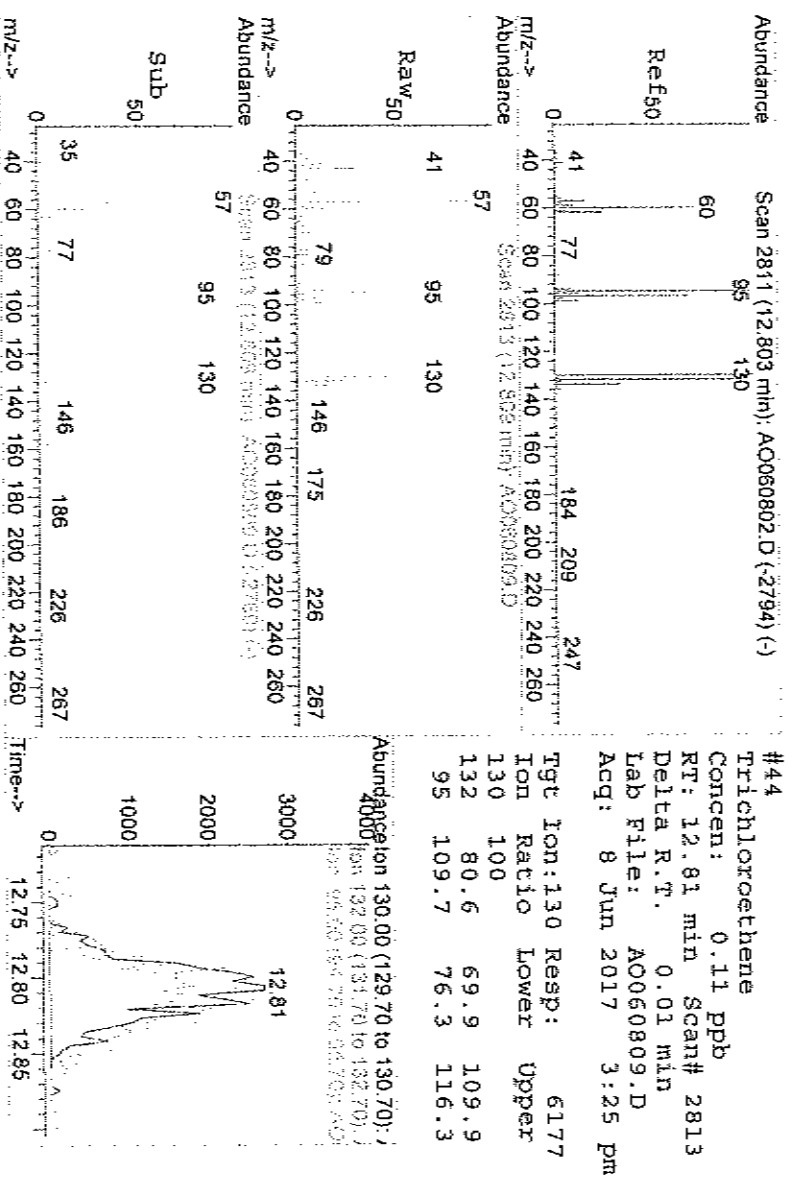
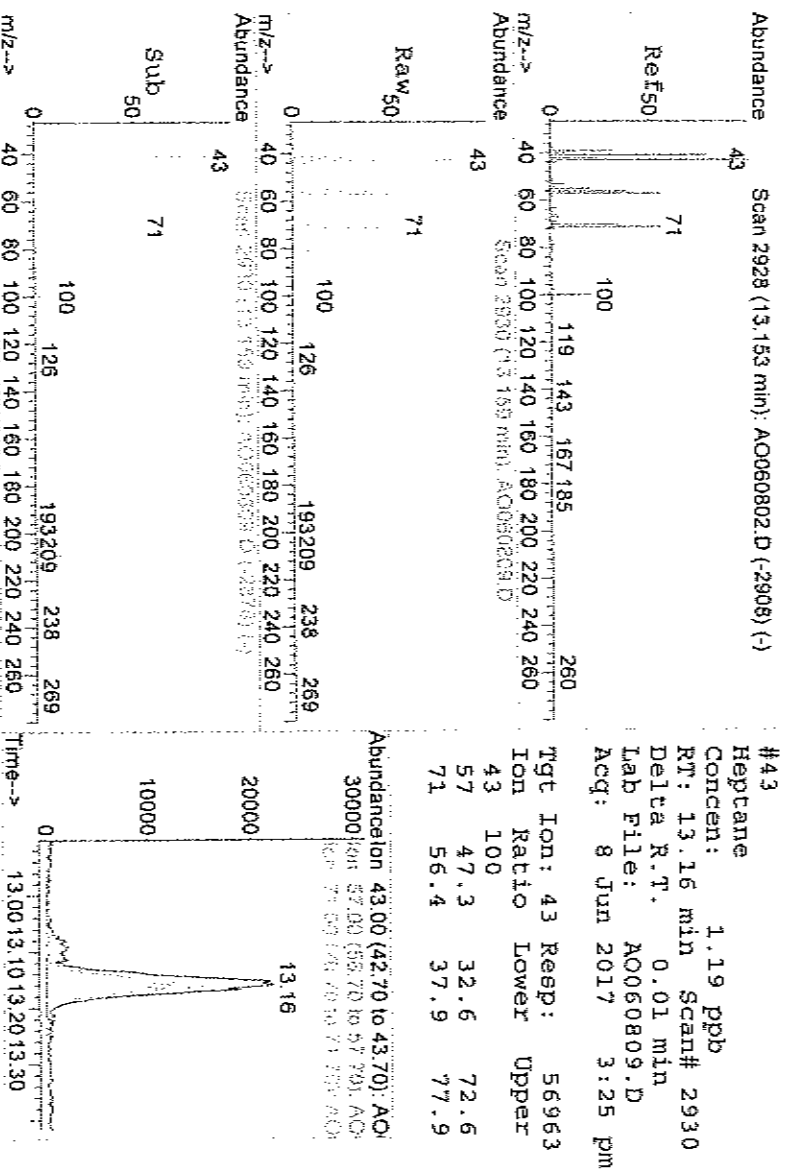
Tgt Ion: 78 Resp: 47038
Ion Ratio Lower Upper
78 100
77 25.8 0.0 39.9
51 22.2 0.0 35.8

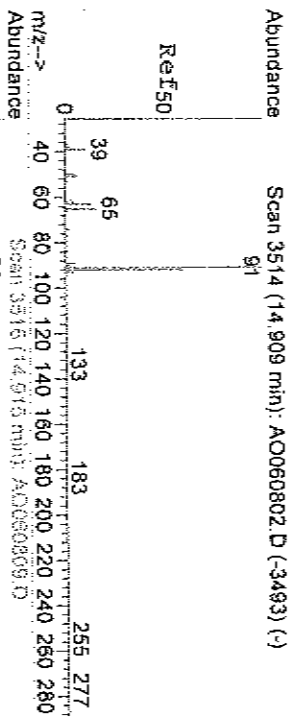


#42
2,2,4-trimethylpentane
Concen: 1.86 ppb
RT: 12.85 min Scan# 2826
Delta R.T. 0.00 min
Lab File: A0060809.D
Acq: 8 Jun 2017 3:25 pm

Tgt Ion: 57 Resp: 264450
Ion Ratio Lower Upper
57 100
41 50.7 6.1 46.1#
56 36.1 7.8 47.8

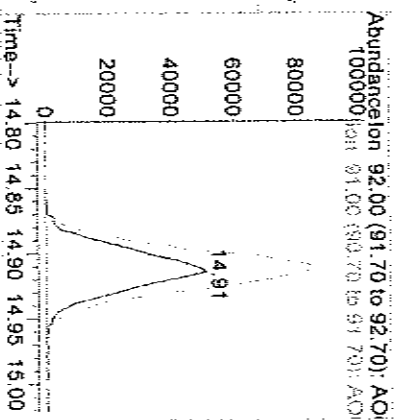
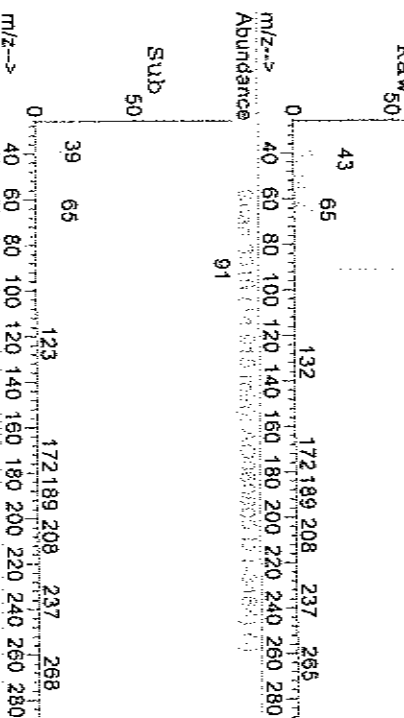




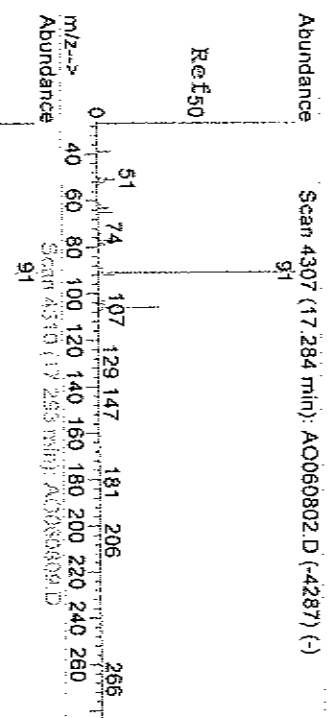


#51
Toluene
Concen: 1.28 ppb
RT: 14.91 min Scan# 3516
Delta R.T. 0.01 min
Lab File: AO060809.D
Acq: 8 Jun 2017 3:25 pm

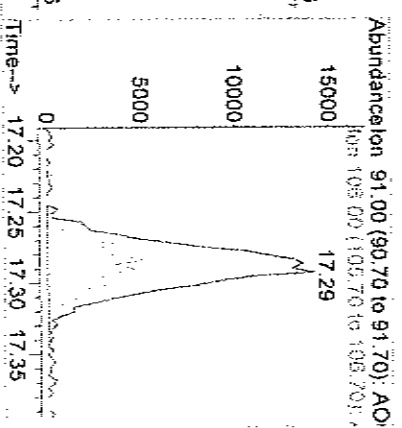
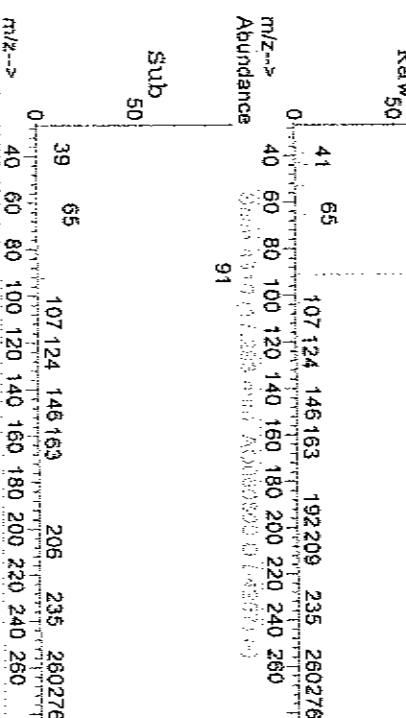
Tgt Ion: 92 Resp: 105656
Ion Ratio Lower Upper
92 100
91 177.3 138.8 178.8

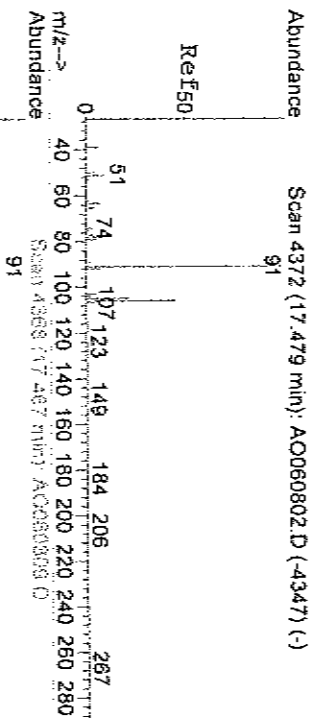


#58
Ethylbenzene
Concen: 0.14 ppb
RT: 17.29 min Scan# 4310
Delta R.T. 0.01 min
Lab File: AO060809.D
Acq: 8 Jun 2017 3:25 pm



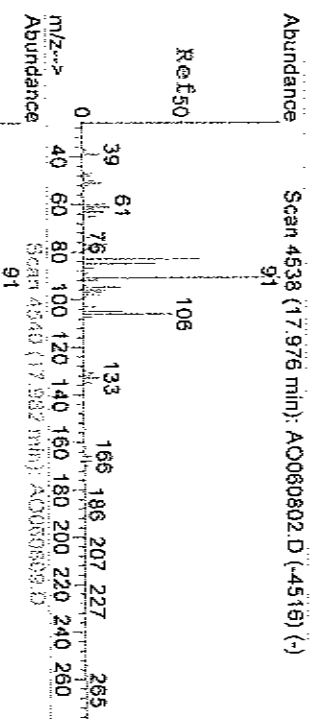
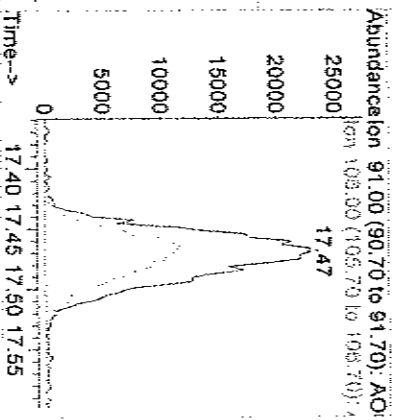
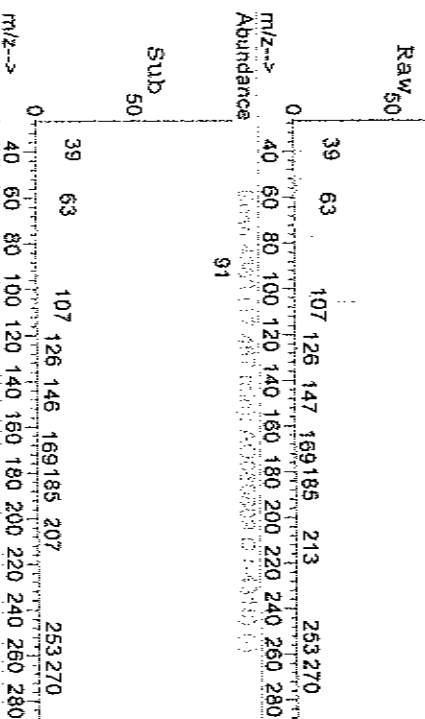
Tgt Ion: 91 Resp: 28100
Ion Ratio Lower Upper
91 100
106 31.7 10.4 50.4





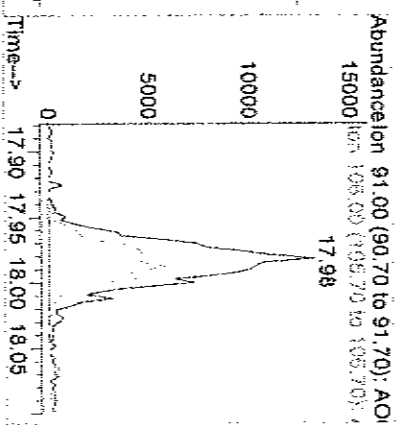
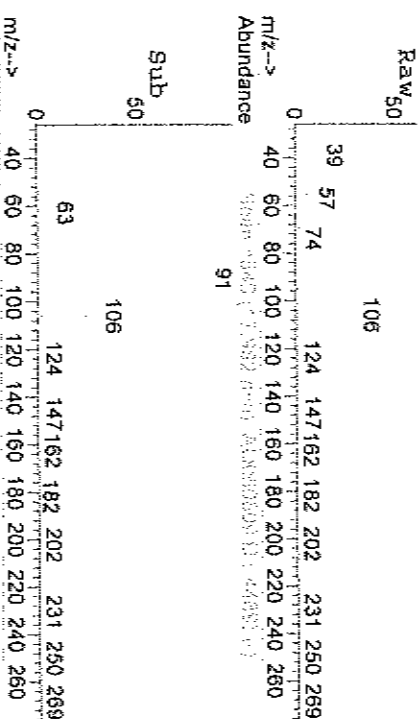
#59
m&p-xylene
Concen: 0.37 ppb
RT: 17.47 min Scan# 4368
Delta R.T. 0.00 min
Lab File: AO060809.D
Acq: 8 Jun 2017 3:25 pm

Tgt Ion: 91 Resp: 63131
Ion Ratio Lower Upper
91 100
106 49.4 23.5 63.5



#63
o-xylene
Concen: 0.15 ppb
RT: 17.98 min Scan# 4540
Delta R.T. 0.00 min
Lab File: AO060809.D
Acq: 8 Jun 2017 3:25 pm

Tgt Ion: 91 Resp: 24900
Ion Ratio Lower Upper
91 100
106 43.2 27.7 67.7



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AO060824.D Vial: 24
 Acq On : 9 Jun 2017 1:52 am Operator: RJP
 Sample : C1706015-002A 10X Inst : MSD #1
 Misc : A605_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 09 07:24:39 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

1) Bromochloromethane	9.57	128	30002	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.97	114	129802	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	113386	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.48	95	74312	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%

Target Compounds

						Qvalue
15) Acetone	6.17	58	33885	1.79	ppb	75
17) Isopropyl alcohol	6.41	45	180176m	2.89	ppb	
28) Methyl Ethyl Ketone	8.88	72	3906m	0.28	ppb	
30) Hexane	9.62	57	5844m	0.16	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO060824.D A605_1UG.M Thu Jun 29 10:07:47 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060824.D

Vial: 24

Acq On : 9 Jun 2017 1:52 am

Operator: RJP

Sample : C1706015-002A 10X

Inst : MSD #1

Misc : A605_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 15 10:42 2017

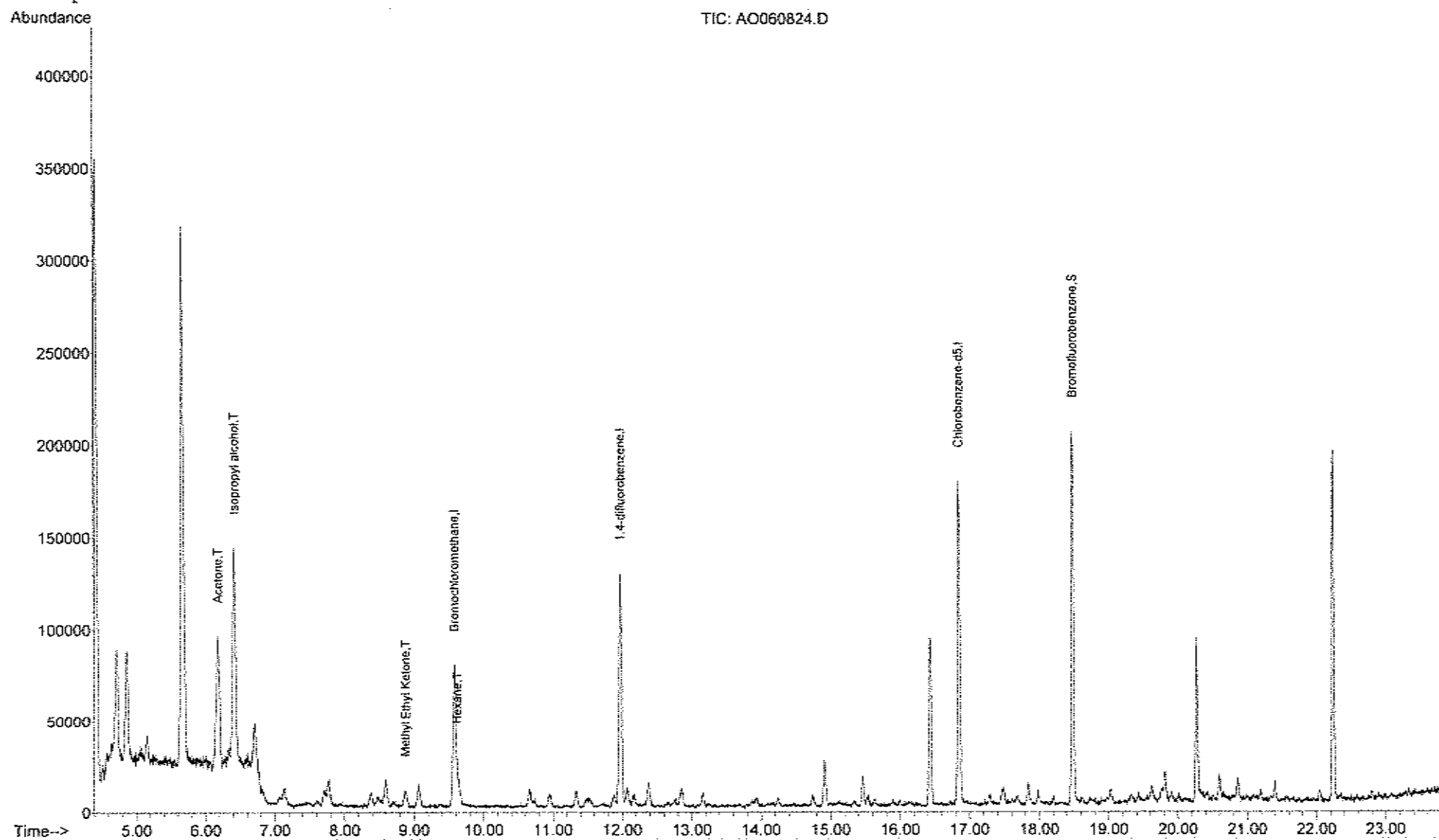
Quant Results File: A605_1UG.RES

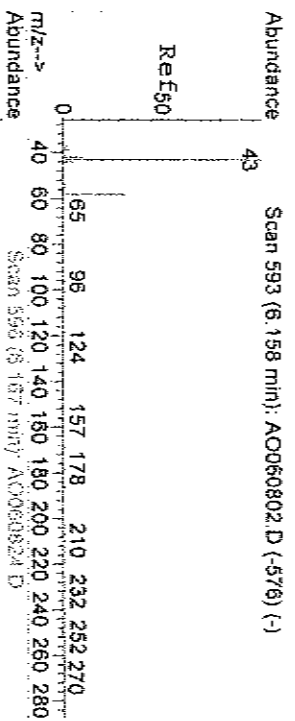
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 10:00:17 2017

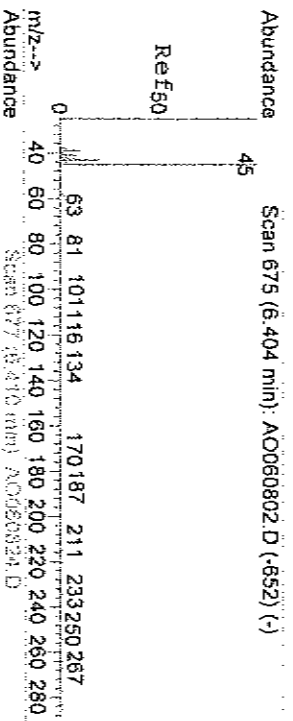
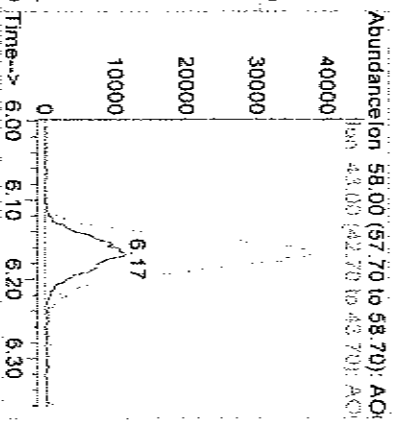
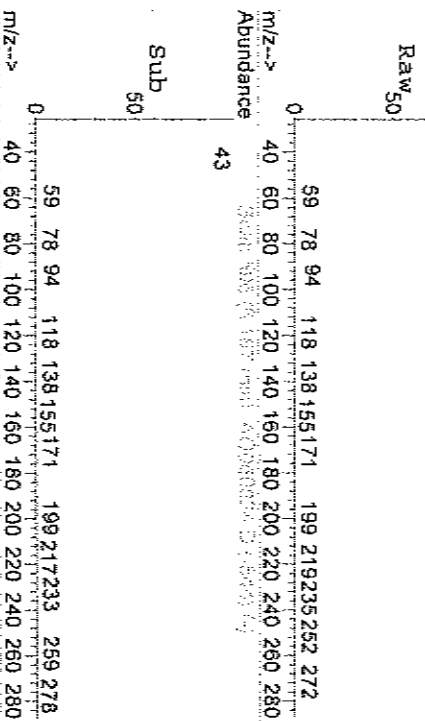
Response via : Initial Calibration





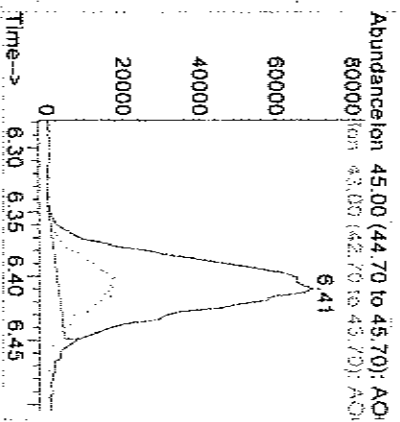
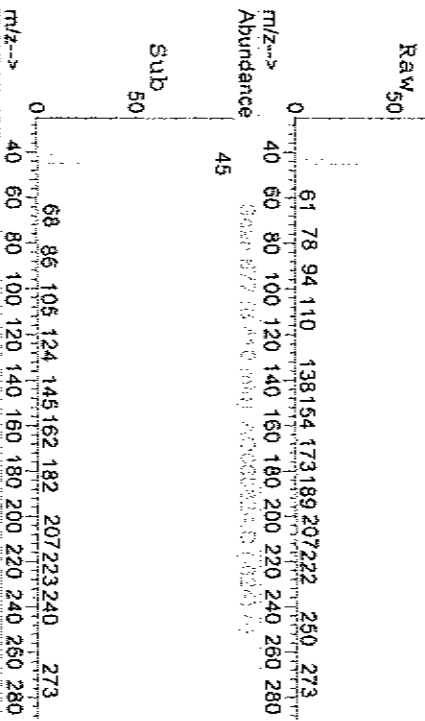
#15
Acetone
Concen: 1.79 ppb
RT: 6.17 min Scan# 596
Delta R.T. 0.01 min
Lab File: A0060824.D
Acq: 9 Jun 2017 1:52 am

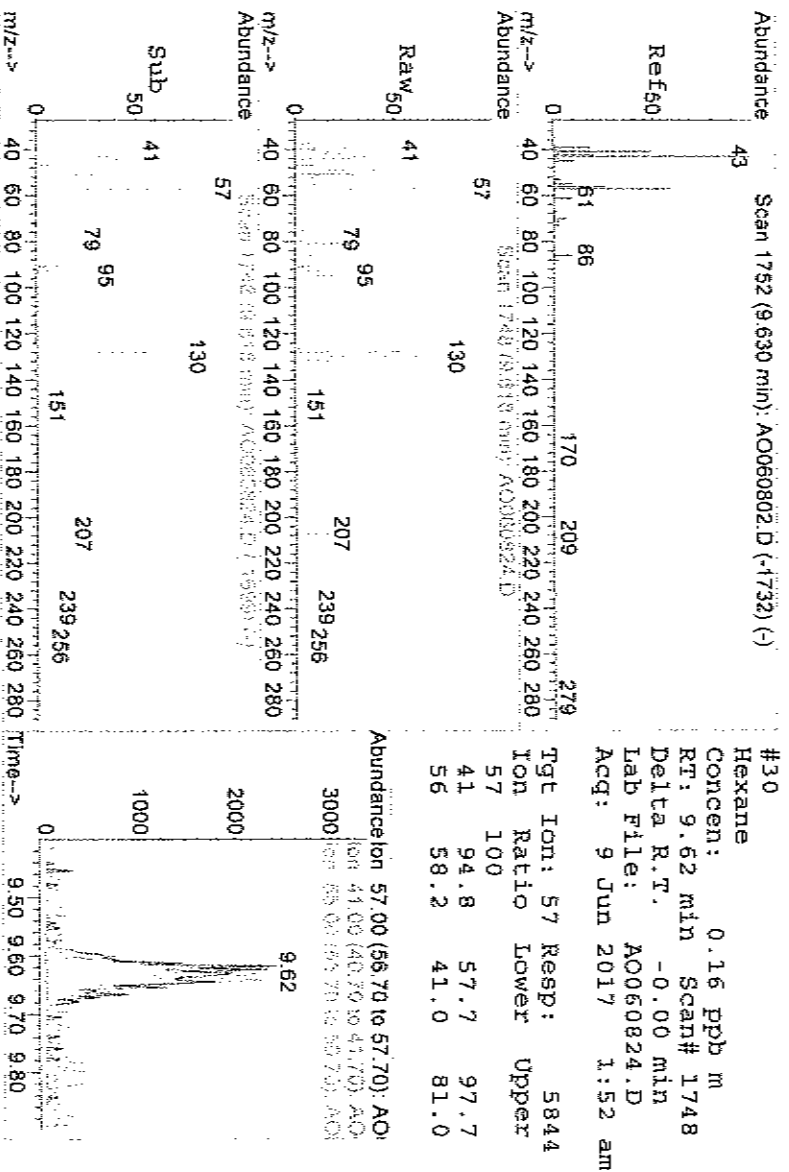
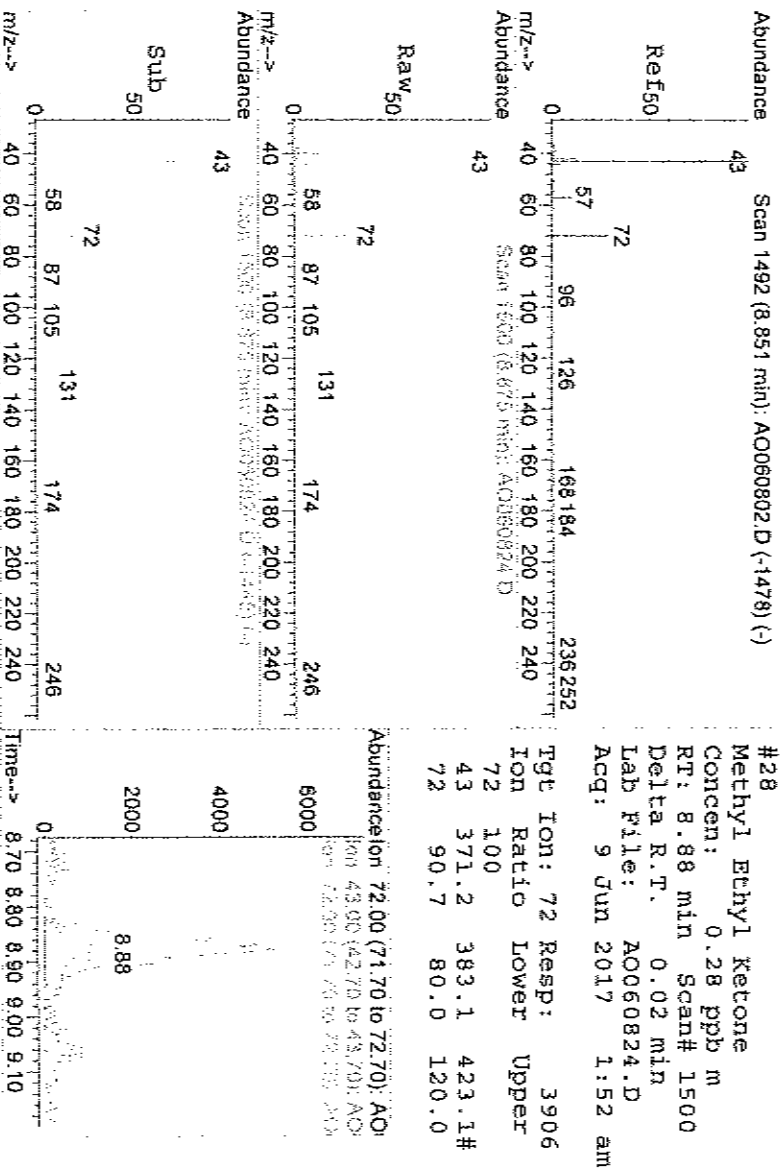
Tgt Ion: 58 Resp: 33885
Ion Ratio Lower Upper
58 100
43 341.5 263.2 323.2#



#17
Isopropyl alcohol
Concen: 2.89 ppb m
RT: 6.41 min Scan# 677
Delta R.T. 0.01 min
Lab File: A0060824.D
Acq: 9 Jun 2017 1:52 am

Tgt Ion: 45 Resp: 180176
Ion Ratio Lower Upper
45 100
43 29.1 0.0 20.0#





Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-003A

Client Sample ID: Rm 112 +M/MS/MSD
 Tag Number: 215.439
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
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FIELD PARAMETERS

Lab Vacuum In	-6	FLD				Analyst:
Lab Vacuum Out	-30		"Hg			6/7/2017
			"Hg			6/7/2017

1UG/M3 W/ 0.25UG/M3 CT-TCE-VC

		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,1,2,2-Tetrachloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,1,2-Trichloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,1-Dichloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,1-Dichloroethene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,2,4-Trichlorobenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,2-Dibromoethane	0.16	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,2-Dichlorobenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,2-Dichloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,2-Dichloropropane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,3,5-Trimethylbenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,3-butadiene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,3-Dichlorobenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,4-Dichlorobenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
1,4-Dioxane	1.4	0.30	ppbv	1	6/8/2017 4:05:00 PM	
2,2,4-trimethylpentane	4.2	0.15	ppbv	1	6/8/2017 4:05:00 PM	
4-ethyltoluene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Acetone	25	3.0	ppbv	10	6/9/2017 2:31:00 AM	
Allyl chloride	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Benzene	0.88	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Benzyl chloride	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Bromodichloromethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Bromoform	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Bromomethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Carbon disulfide	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Carbon tetrachloride	0.090	0.040	ppbv	1	6/8/2017 4:05:00 PM	
Chlorobenzene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Chloroethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Chloroform	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Chloromethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
cis-1,2-Dichloroethene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
cis-1,3-Dichloropropene	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Cyclohexane	1.7	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Dibromochloromethane	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	
Ethyl acetate	< 0.15	0.15	ppbv	1	6/8/2017 4:05:00 PM	

Qualifiers:	**	Quantitation Limit		Results reported are not blank corrected
B	Analyte detected in the associated Method Blank		E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.		ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.

Client Sample ID: Rm 112 +MS/MSD

Lab Order: C1706015

Tag Number: 215.439

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-003A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.15	0.15	TO-15	ppbv	1	Analyst: RJP 6/8/2017 4:05:00 PM
Freon 11	0.25	0.15		ppbv	1	6/8/2017 4:05:00 PM
Freon 113	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Freon 114	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Freon 12	0.53	0.15		ppbv	1	6/8/2017 4:05:00 PM
Heptane	4.2	1.5		ppbv	10	6/9/2017 2:31:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Hexane	16	1.5		ppbv	10	6/9/2017 2:31:00 AM
Isopropyl alcohol	27	0.15		ppbv	1	6/8/2017 4:05:00 PM
m&p-Xylene	0.32	0.30		ppbv	1	6/8/2017 4:05:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 4:05:00 PM
Methyl Ethyl Ketone	0.66	0.30		ppbv	1	6/8/2017 4:05:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/8/2017 4:05:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Methylene chloride	0.49	0.15		ppbv	1	6/8/2017 4:05:00 PM
o-Xylene	0.13	0.15	J	ppbv	1	6/8/2017 4:05:00 PM
Propylene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Styrene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Toluene	0.84	0.15		ppbv	1	6/8/2017 4:05:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Trichloroethene	< 0.040	0.040		ppbv	1	6/8/2017 4:05:00 PM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/8/2017 4:05:00 PM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/8/2017 4:05:00 PM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	6/8/2017 4:05:00 PM

Qualifiers:

**	Quantitation Limit	Results reported are not blank corrected
R	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	NID Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.

Client Sample ID: Rm 112 +MS/MSD

Lab Order: C1706015

Tag Number: 215.439

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-003A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	Analyst: RJP 6/8/2017 4:05:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 4:05:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 4:05:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 4:05:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2017 4:05:00 PM
1,2,4-Trimethylbenzene	0.79	0.74		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2017 4:05:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 4:05:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2017 4:05:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 4:05:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 4:05:00 PM
1,4-Dioxane	5.0	1.1		ug/m3	1	6/8/2017 4:05:00 PM
2,2,4-trimethylpentane	19	0.70		ug/m3	1	6/8/2017 4:05:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/8/2017 4:05:00 PM
Acetone	59	7.1		ug/m3	10	6/9/2017 2:31:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2017 4:05:00 PM
Benzene	2.8	0.48		ug/m3	1	6/8/2017 4:05:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2017 4:05:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2017 4:05:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	6/8/2017 4:05:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/8/2017 4:05:00 PM
Carbon tetrachloride	0.57	0.25		ug/m3	1	6/8/2017 4:05:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2017 4:05:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/8/2017 4:05:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2017 4:05:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2017 4:05:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 4:05:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 4:05:00 PM
Cyclohexane	5.9	0.52		ug/m3	1	6/8/2017 4:05:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2017 4:05:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/8/2017 4:05:00 PM
Ethylbenzene	0.65	0.65		ug/m3	1	6/8/2017 4:05:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/8/2017 4:05:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2017 4:05:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM
Quantifiers:						
**	Quantitation Limit					Results reported are not blank corrected
B	Analyte detected in the associated Method Blank					E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded					J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.					
S	Spike Recovery outside accepted recovery limits					ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 112 +MS/MSD

Lab Order: C1706015

Tag Number: 215.439

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-003A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.6	0.74	TO-15	ug/m3	1	Analyst: RJP 6/8/2017 4:05:00 PM
Heptane	17	6.1		ug/m3	10	6/9/2017 2:31:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2017 4:05:00 PM
Hexane	58	5.3		ug/m3	10	6/9/2017 2:31:00 AM
Isopropyl alcohol	66	0.37		ug/m3	1	6/8/2017 4:05:00 PM
m&p-Xylene	14	1.3		ug/m3	1	6/8/2017 4:05:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 4:05:00 PM
Methyl Ethyl Ketone	1.9	0.88		ug/m3	1	6/8/2017 4:05:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 4:05:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2017 4:05:00 PM
Methylene chloride	1.7	0.52		ug/m3	1	6/8/2017 4:05:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	6/8/2017 4:05:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2017 4:05:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2017 4:05:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2017 4:05:00 PM
Toluene	3.2	0.57		ug/m3	1	6/8/2017 4:05:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 4:05:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 4:05:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	6/8/2017 4:05:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2017 4:05:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2017 4:05:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/8/2017 4:05:00 PM

Qualifiers: ** Quantitation Limit

B	Analyte detected in the associated Method Blank	E	Results reported are not blank corrected
H	Holding times for preparation or analysis exceeded	J	Estimated Value above quantitation range
JN	Non-routine analyte. Quantitation estimated.		Analyte detected below quantitation limit
S	Spike Recovery outside accepted recovery limits	ND	Not Detected at the Limit of Detection

Data File : C:\HPCHEM\1\DATA\AO060810.D
 Acq On : 8 Jun 2017 4:05 pm
 Sample : C1706015-003A
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 09 07:24:25 2017

Vial: 10
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards

R.T. QIon Response Conc Units Dev(Min)

1) Bromochloromethane	9.58	128	34887	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.97	114	165266	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	144676	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.48	95	94971	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%

Target Compounds

3) Freon 12	4.57	85	119406	0.53	ppb	98
14) Freon 11	6.34	101	69704	0.25	ppb	99
15) Acetone	6.16	58	381021	17.30	ppb	66
17) Isopropyl alcohol	6.41	45	1941250	26.74	ppb	100
21) Methylene chloride	7.13	84	16539	0.49	ppb	95
28) Methyl Ethyl Ketone	8.87	72	10898	0.66	ppb	1
30) Hexane	9.63	57	361838	8.54	ppb	86
37) Cyclohexane	11.88	56	81474	1.71	ppb	95
38) Carbon tetrachloride	11.73	117	12584	0.09	ppb	100
39) Benzene	11.54	78	98041	0.88	ppb	87
41) 1,4-dioxane	12.85	58	27647	1.40	ppb	18
42) 2,2,4-trimethylpentane	12.85	57	620240	4.17	ppb	68
43) Heptane	13.16	43	122319	2.44	ppb	95
51) Toluene	14.91	92	69519	0.84	ppb	89
58) Ethylbenzene	17.29	91	29322	0.15	ppb	98
59) m,p-xylene	17.47	91	54178	0.32	ppb	95
63) o-xylene	17.99	91	22295	0.13	ppb	90
71) 1,2,4-trimethylbenzene	19.91	105	27519	0.16	ppb	96

Qvalue

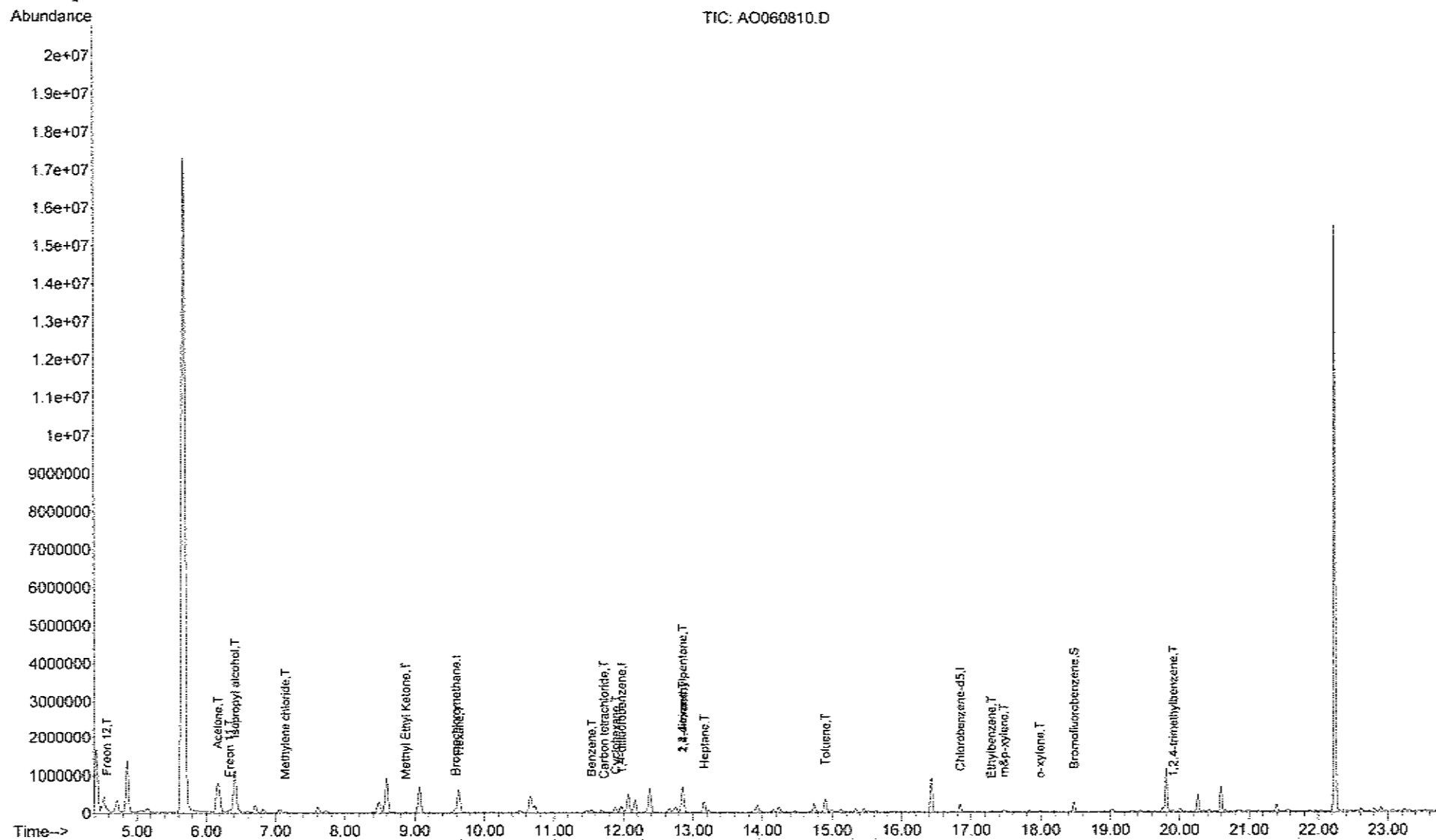
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO060810.D A605_1UG.M Thu Jun 29 10:07:29 2017 MSD1

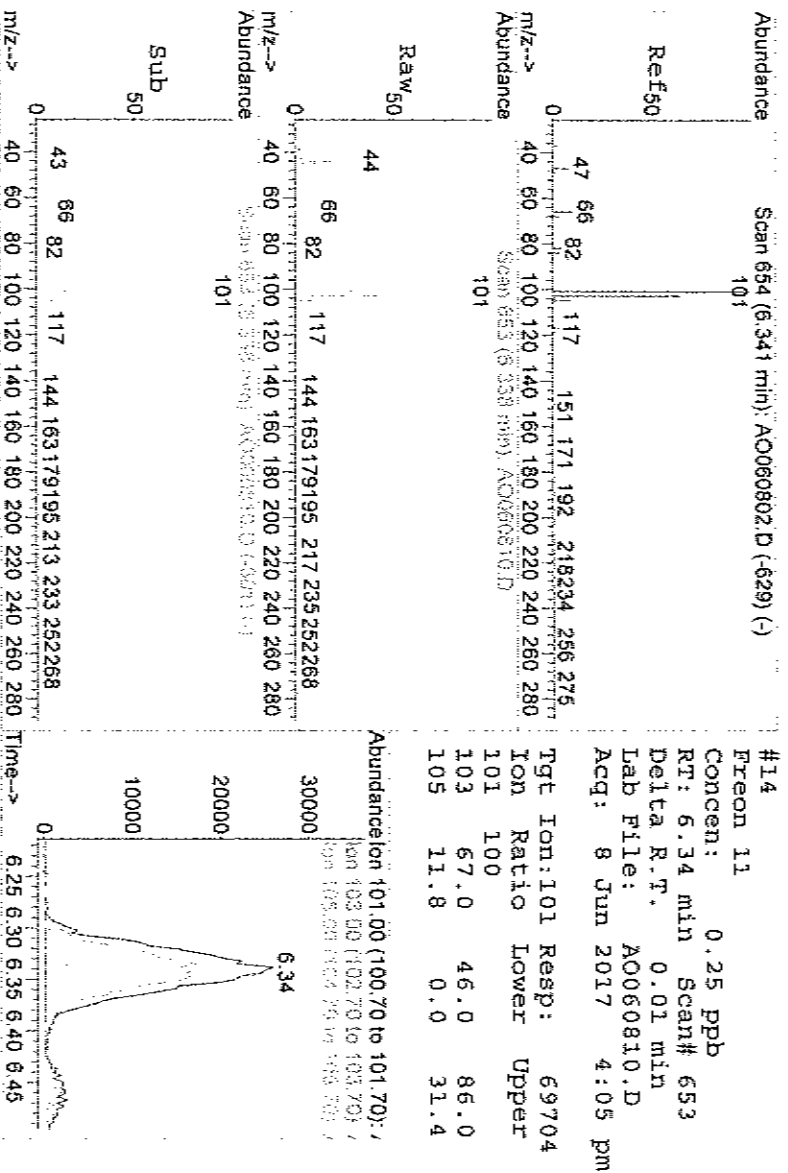
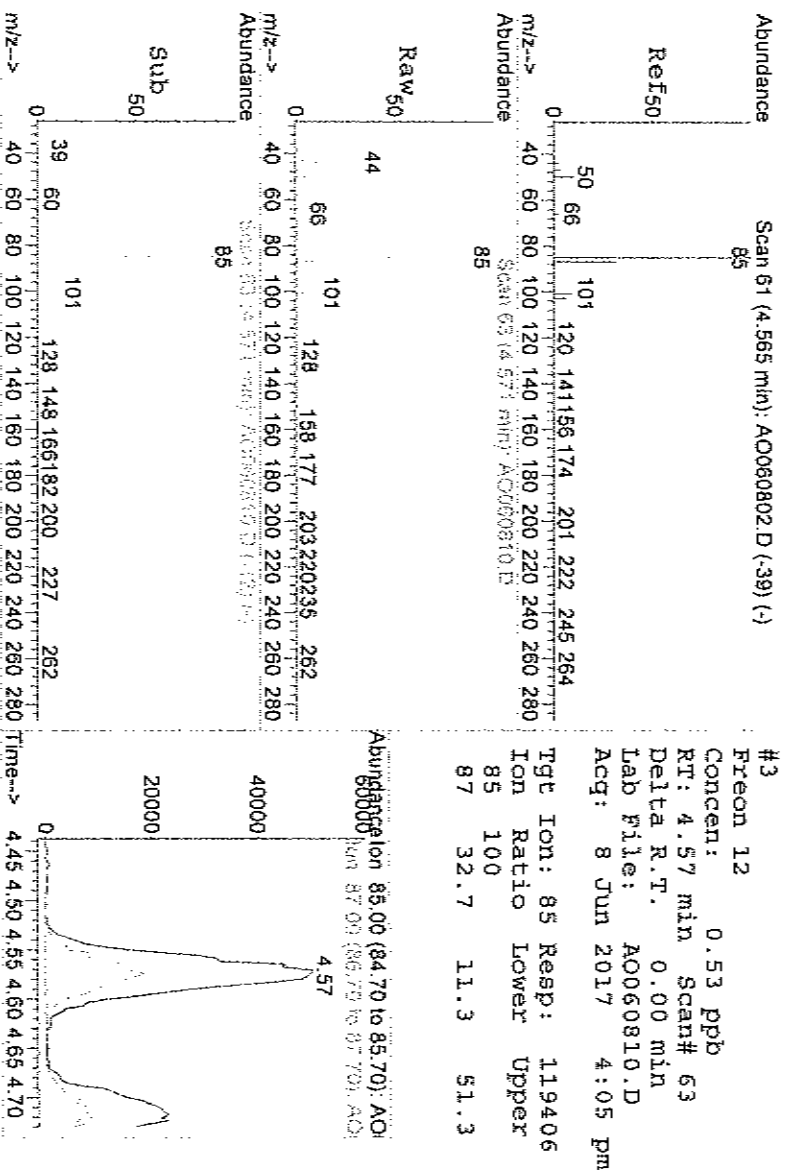
Data File : C:\HPCHEM\1\DATA\AO060810.D
Acq On : 8 Jun 2017 4:05 pm
Sample : C1706015-003A
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 14 14:22 2017

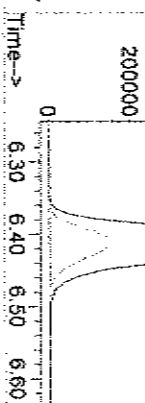
Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

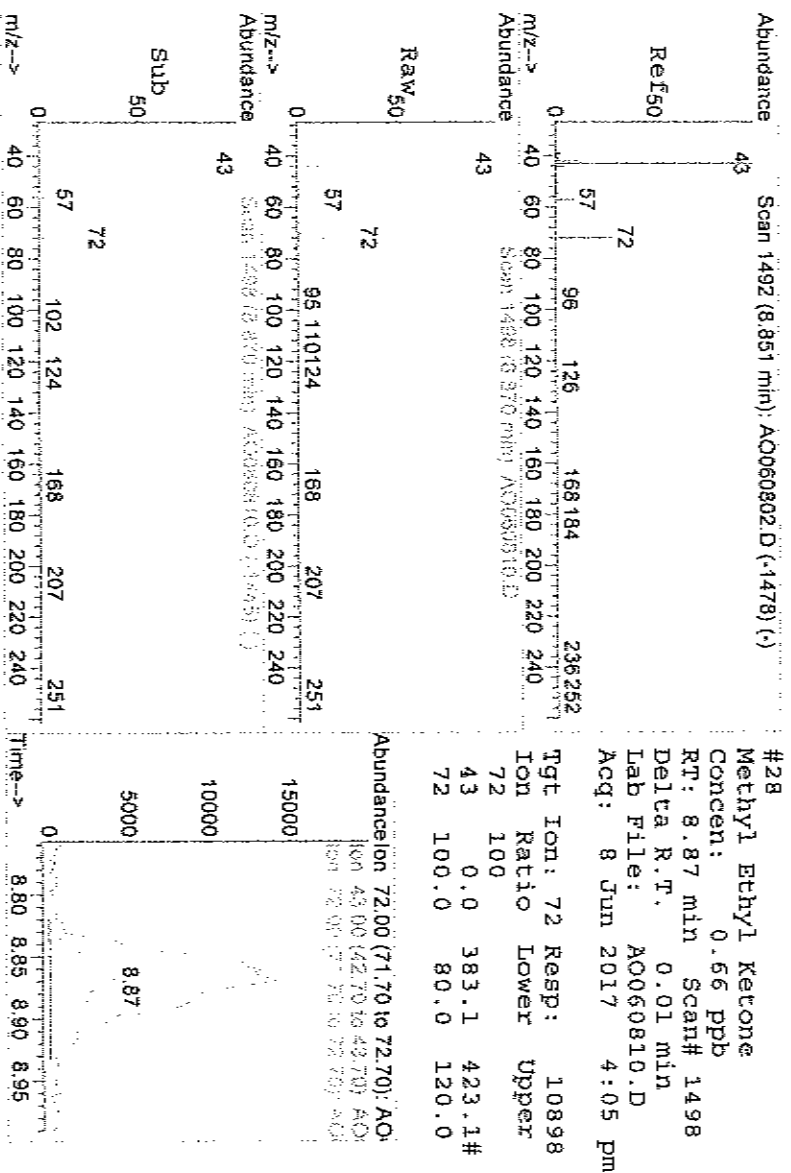
Quant Results File: A605_1UG.RES

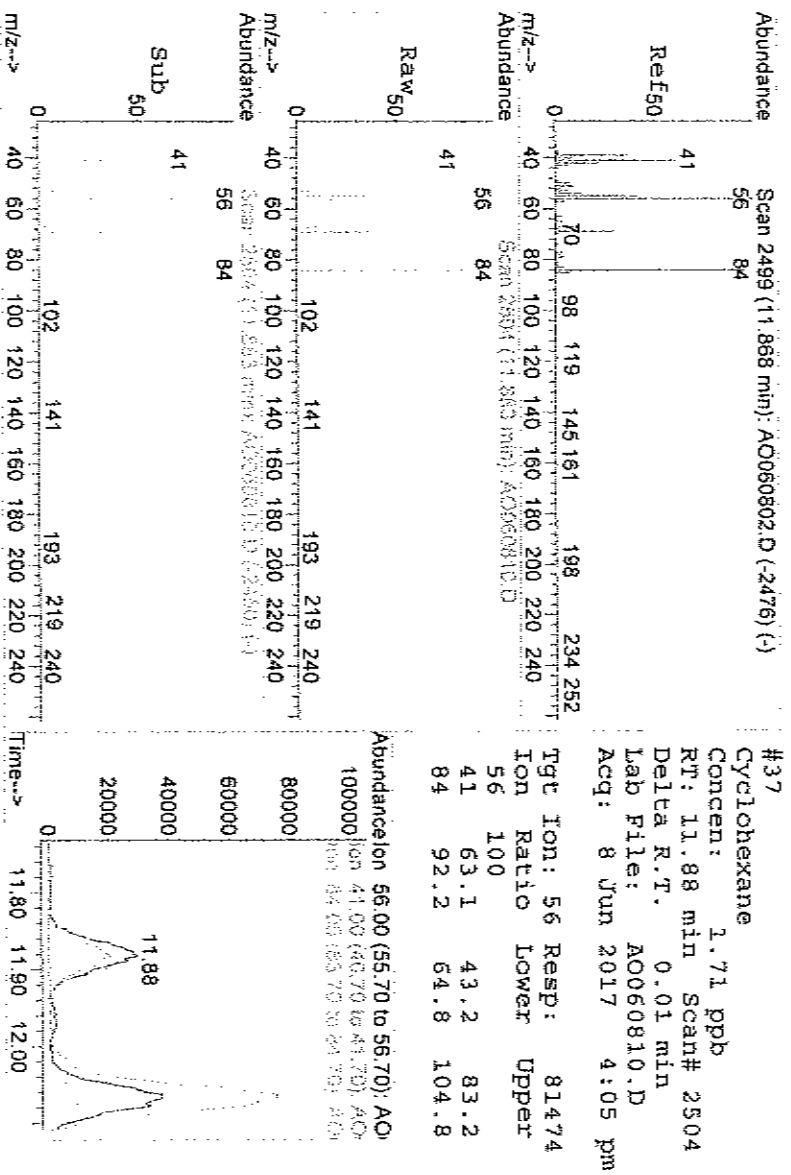
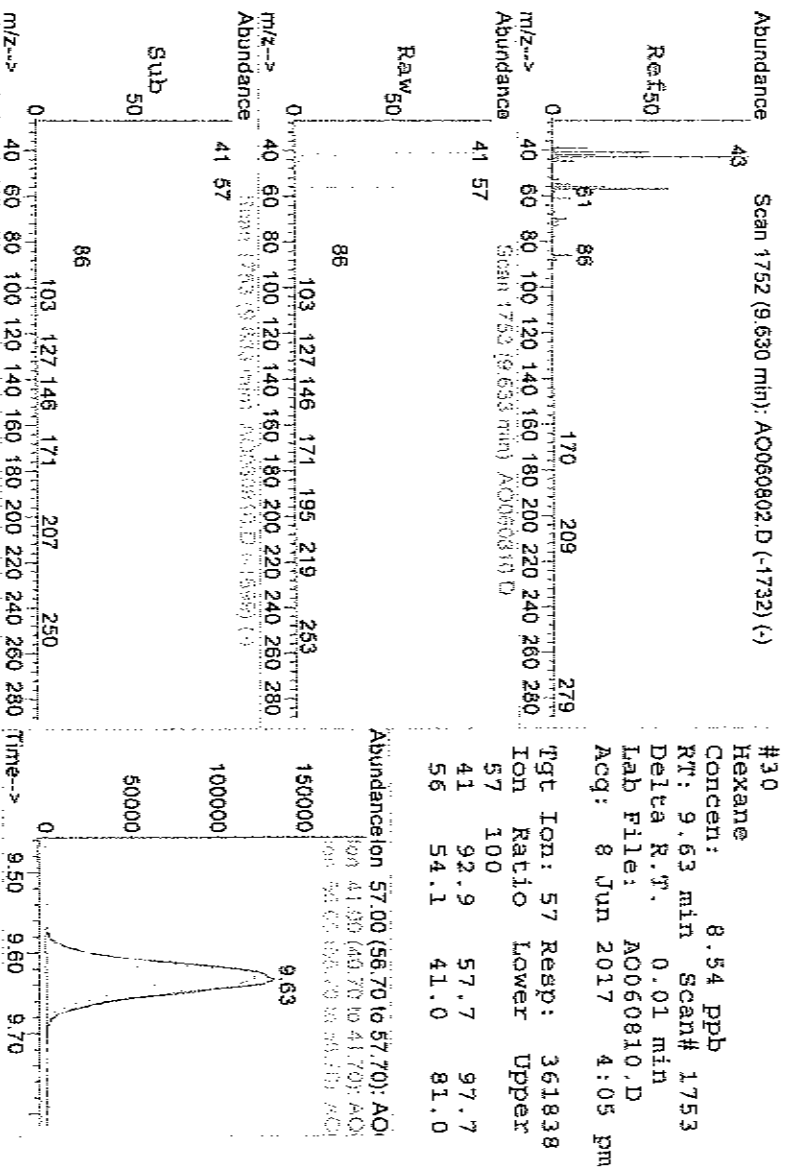
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration

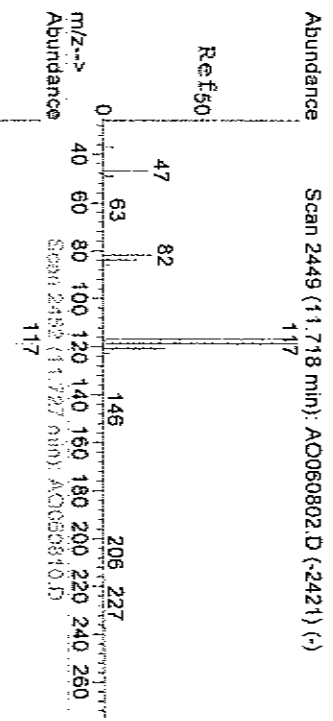






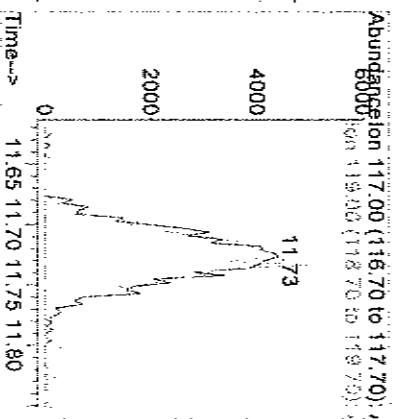
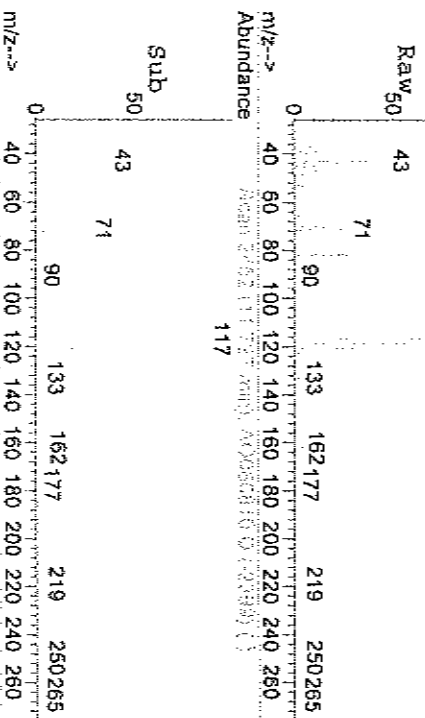






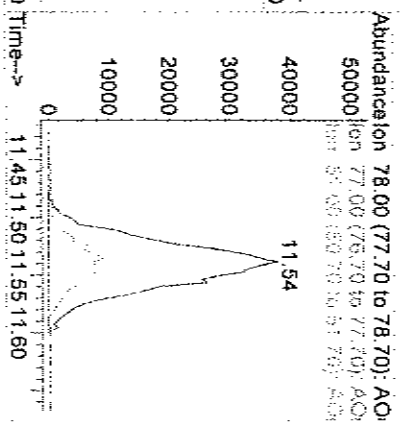
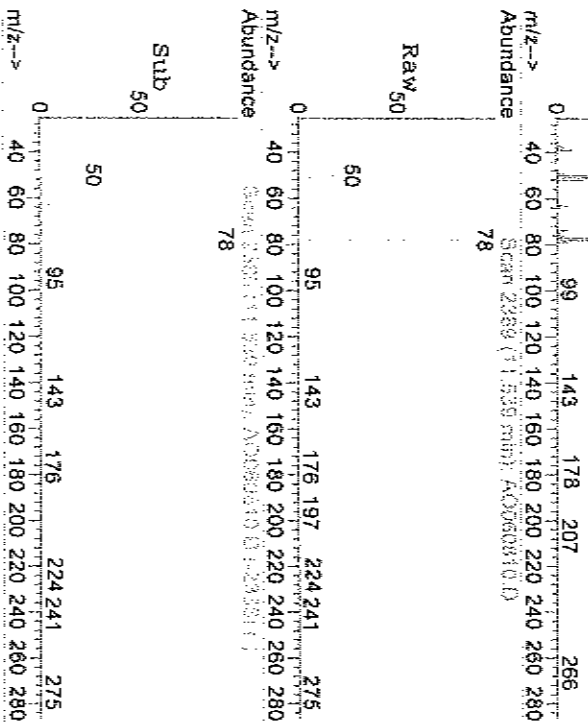
#38
Carbon tetrachloride
Concen: 0.09 ppb
RT: 11.73 min Scan# 2452
Delta R.T. 0.01 min
Lab File: A0060810.D
Acq: 8 Jun 2017 4:05 pm

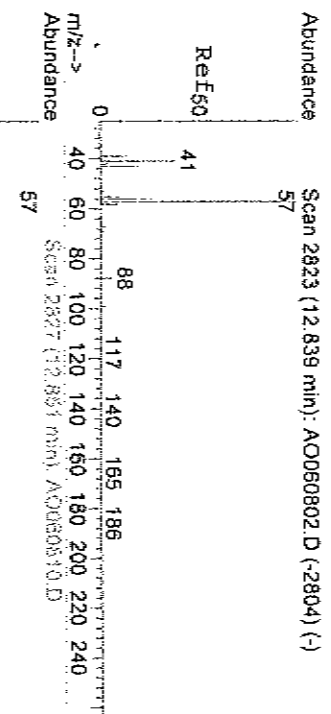
Tgt Ion: 117 Resp: 12584
Ion Ratio Lower Upper
117 100
119 94.9 74.9 114.9



#39
Benzene
Concen: 0.88 ppb
RT: 11.54 min Scan# 2389
Delta R.T. 0.01 min
Lab File: A0060810.D
Acq: 8 Jun 2017 4:05 pm

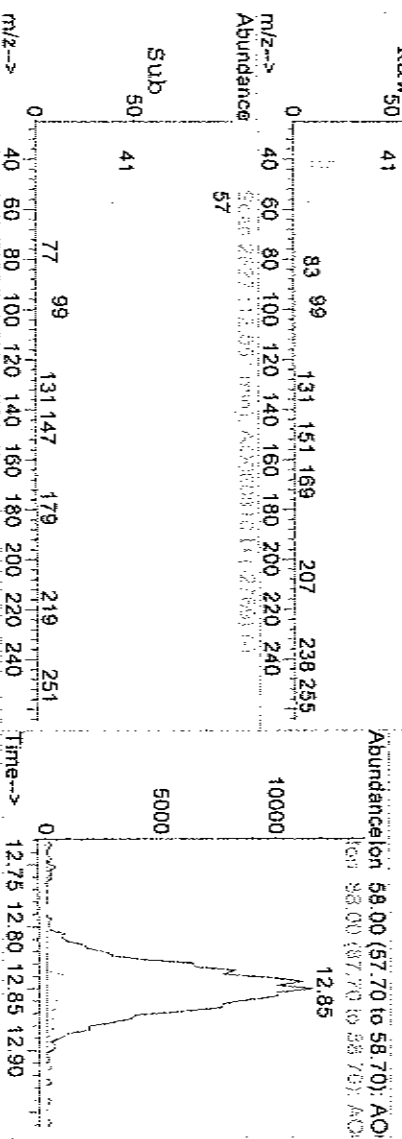
Tgt Ion: 78 Resp: 98041
Ion Ratio Lower Upper
78 100
77 24.8 0.0 39.9
51 22.5 0.0 35.8





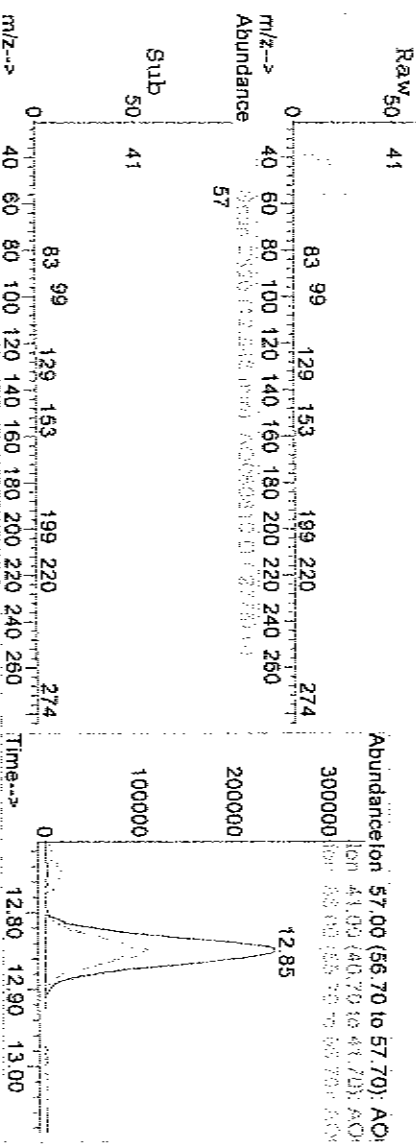
#41
1,4-dioxane
Concen: 1.40 ppb
RT: 12.85 min Scan# 2827
Delta R.T. 0.02 min
Lab File: AO060810.D
Acq: 8 Jun 2017 4:05 pm

Tgt Ion: 58 Resp: 27647
Ion Ratio Lower Upper
58 100
88 2.8 50.1 90.1#

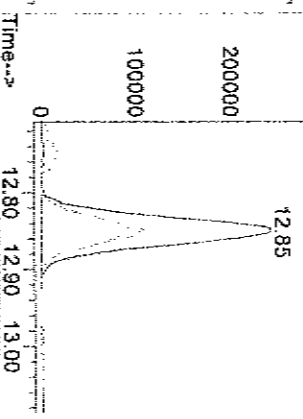


#42
2,2,4-trimethylpentane
Concen: 4.17 ppb
RT: 12.85 min Scan# 2826
Delta R.T. 0.00 min
Lab File: AO060810.D
Acq: 8 Jun 2017 4:05 pm

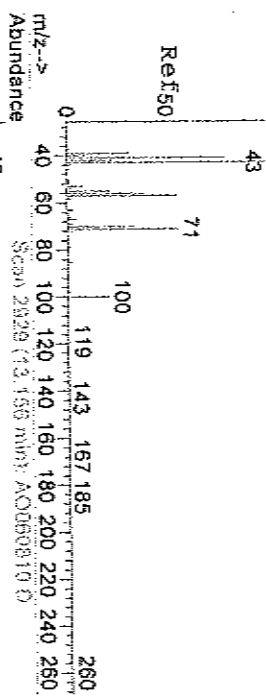
Tgt Ion: 57 Resp: 620240
Ion Ratio Lower Upper
57 100
41 50.1 6.1 46.1#
56 37.5 7.8 47.8



Abundance Ion 57.00 (56.70 to 57.70): AO
Ion 41.00 (40.70 to 41.70): AO
Ion 58.00 (57.70 to 58.70): AO



Scan 2928 (13.153 min): A0060810.D (-2908) (-)



#43
Heptane
Concen: 2.44 ppb
RT: 13.16 min Scan# 2929
Delta R.T. 0.00 min
Lab File: A0060810.D
Acq: 8 Jun 2017 4:05 pm

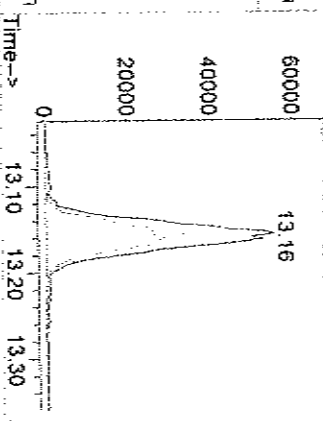
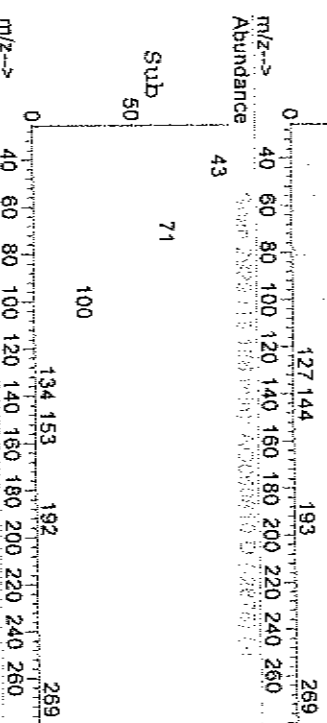
Tgt Ion:	43	Resp:	122319
Ion Ratio	100	Lower	Upper
43	54.9	32.6	72.6
57	62.6	37.9	77.9

Abundance

Ion 43.00 (42.70 to 43.70): A0060810.D

Ion 57.00 (56.70 to 57.70): A0060810.D

Ion 71.00 (70.70 to 71.70): A0060810.D



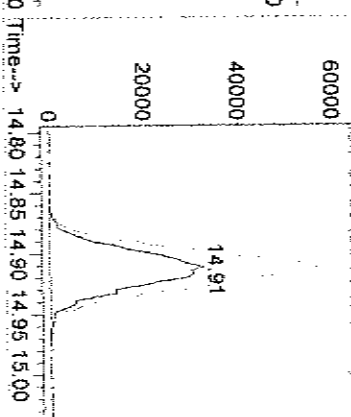
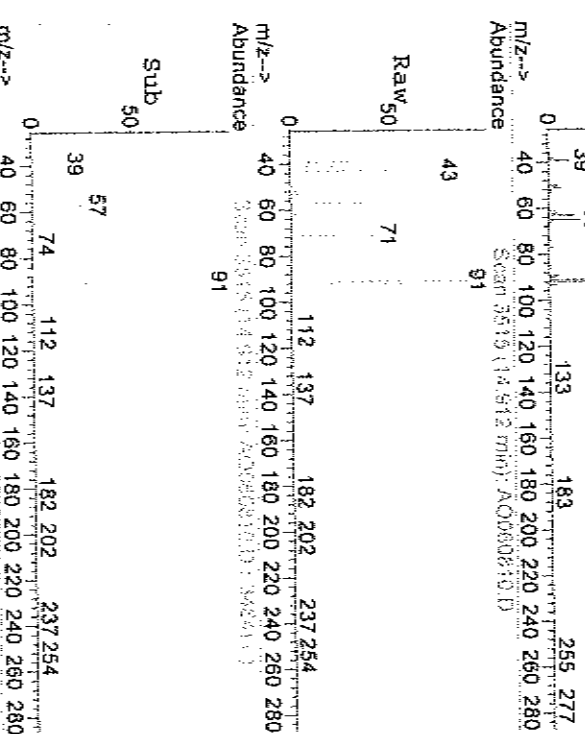
#51
Toluene
Concen: 0.84 ppb
RT: 14.91 min Scan# 3515
Delta R.T. 0.00 min
Lab File: A0060810.D
Acq: 8 Jun 2017 4:05 pm

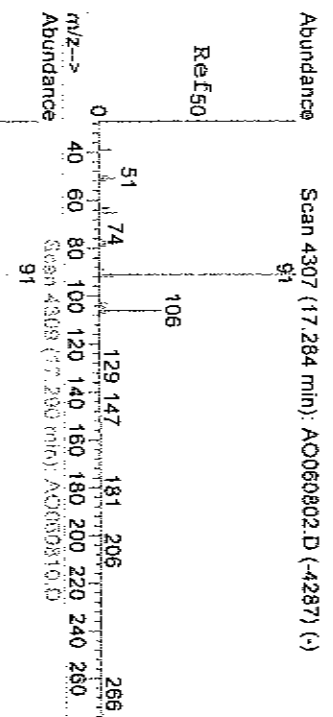
Tgt Ion:	92	Resp:	69519
Ion Ratio	100	Lower	Upper
92	173.7	138.8	178.8

Abundance

Ion 92.00 (91.70 to 92.70): A0060810.D

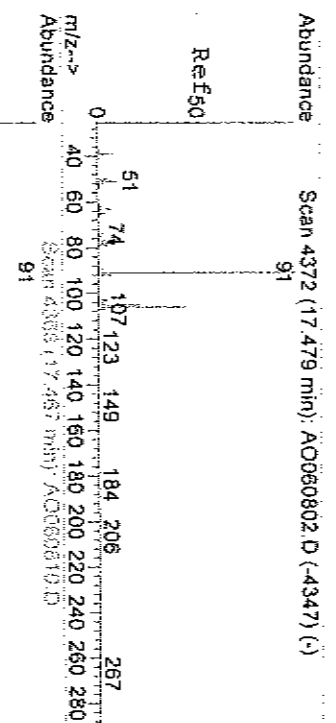
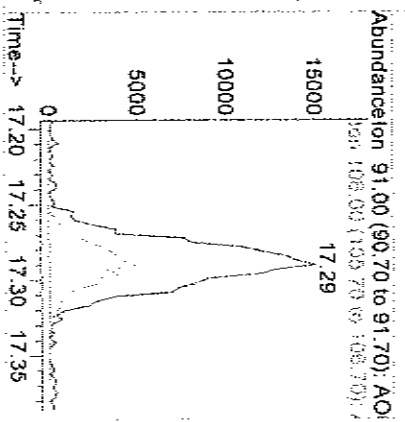
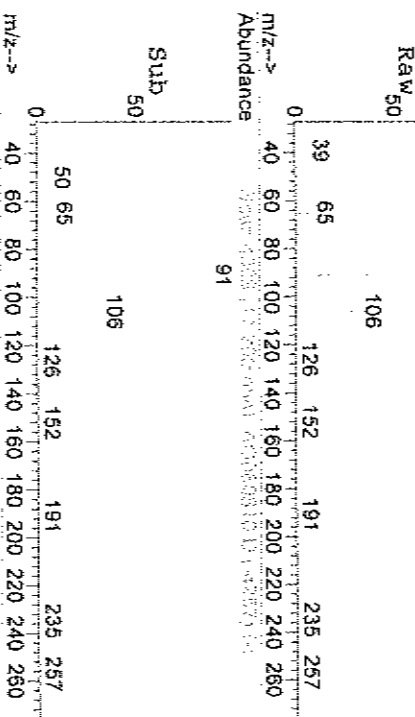
Ion 51.00 (50.70 to 51.70): A0060810.D





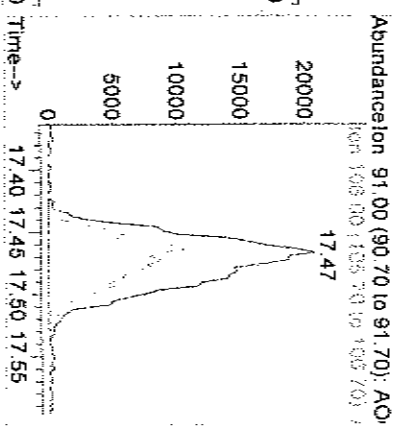
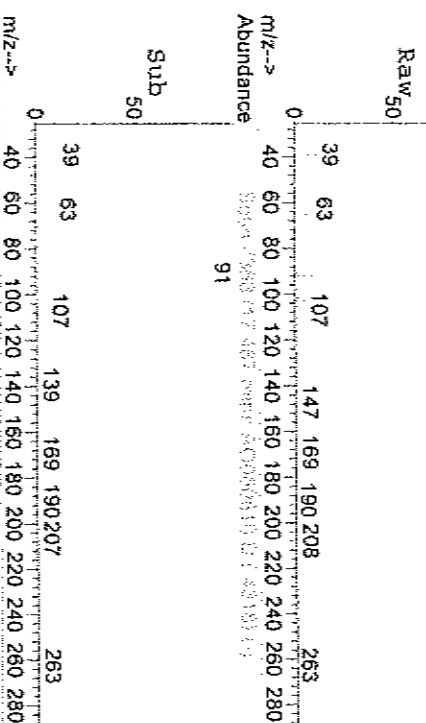
#58
Ethylbenzene
Concen: 0.15 ppb
RT: 17.29 min Scan# 4309
Delta R.T. 0.01 min
Lab File: AO060810.D
Acq: 8 Jun 2017 4:05 pm

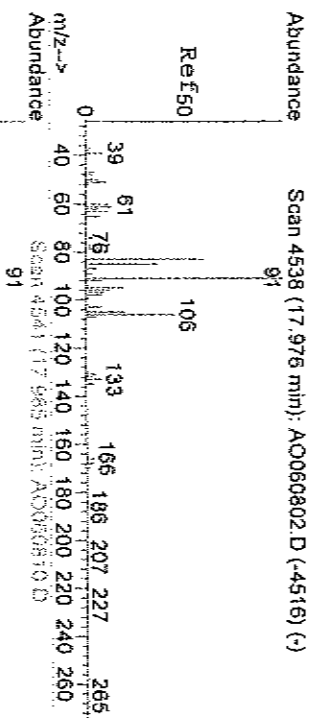
Tgt Ion:	91	Resp:	29322
Ion Ratio	Lower	Upper	
91	100		
106	29.4	10.4	50.4



#59
m-ethyl-xylene
Concen: 0.32 ppb
RT: 17.47 min Scan# 4368
Delta R.T. 0.00 min
Lab File: AO060810.D
Acq: 8 Jun 2017 4:05 pm

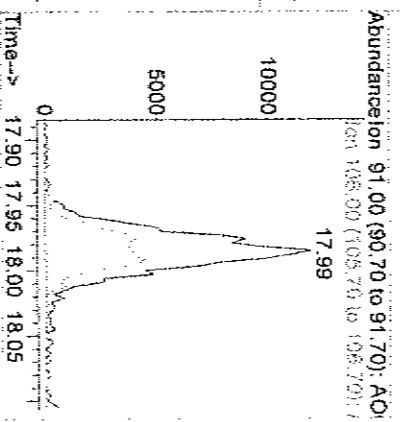
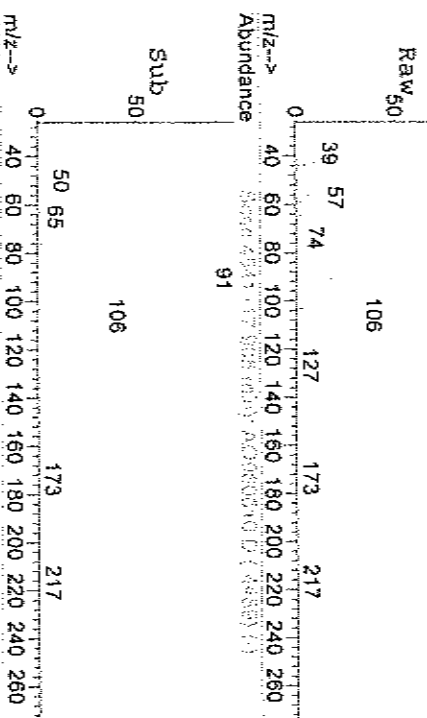
Tgt Ion:	91	Resp:	54178
Ion Ratio	Lower	Upper	
91	100		
106	46.7	23.5	63.5



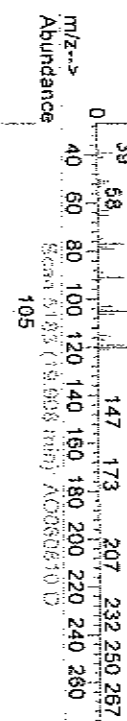


#63
o-xylene
Concen: 0.13 ppb
RT: 17.99 min Scan# 4541
Delta R.T. 0.01 min
Lab File: A0060810.D
Acq: 8 Jun 2017 4:05 pm

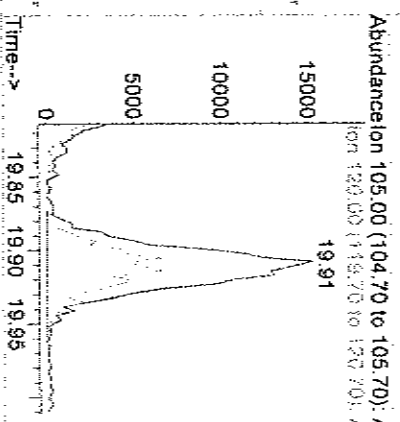
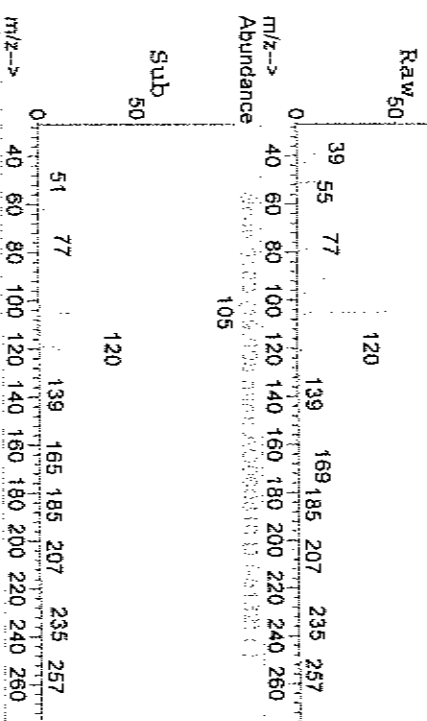
Tgt Ion:	91	Resp:	22295
Ion Ratio	Lower	Upper	
91	100		
106	41.1	27.7	67.7



#71
1,2,4-trimethylbenzene
Concen: 0.16 ppb
RT: 19.91 min Scan# 5183
Delta R.T. 0.00 min
Lab File: A0060810.D
Acq: 8 Jun 2017 4:05 pm



Tgt Ion: 105 Resp: 27519
Ion Ratio Lower Upper
105 100
120 42.8 20.3 60.3



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AO060825.D
 Acq On : 9 Jun 2017 2:31 am
 Sample : C1706015-003A 10X
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 09 07:24:40 2017
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : T0-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.57	128	29079	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.97	114	130370	1.00 ppb	0.00
50) Chlorobenzene-d5	16.85	117	115691	1.00 ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene 18.48 95 75052 0.94 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 94.00%

Target Compounds

15) Acetone	6.16	58	45313m	2.47 ppb	Qvalue
17) Isopropyl alcohol	6.40	45	151825m	2.51 ppb	
30) Hexane	9.63	57	58097	1.64 ppb	85
42) 2,2,4-trimethylpentane	12.85	57	84507	0.72 ppb	65
43) Heptane	13.16	43	16505	0.42 ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO060825.D A605_1UG.M Thu Jun 29 10:07:53 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060825.D

Vial: 25

Acq On : 9 Jun 2017 2:31 am

Operator: RJP

Sample : C1706015-003A 10X

Inst : MSD #1

Misc : A605_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 15 10:43 2017

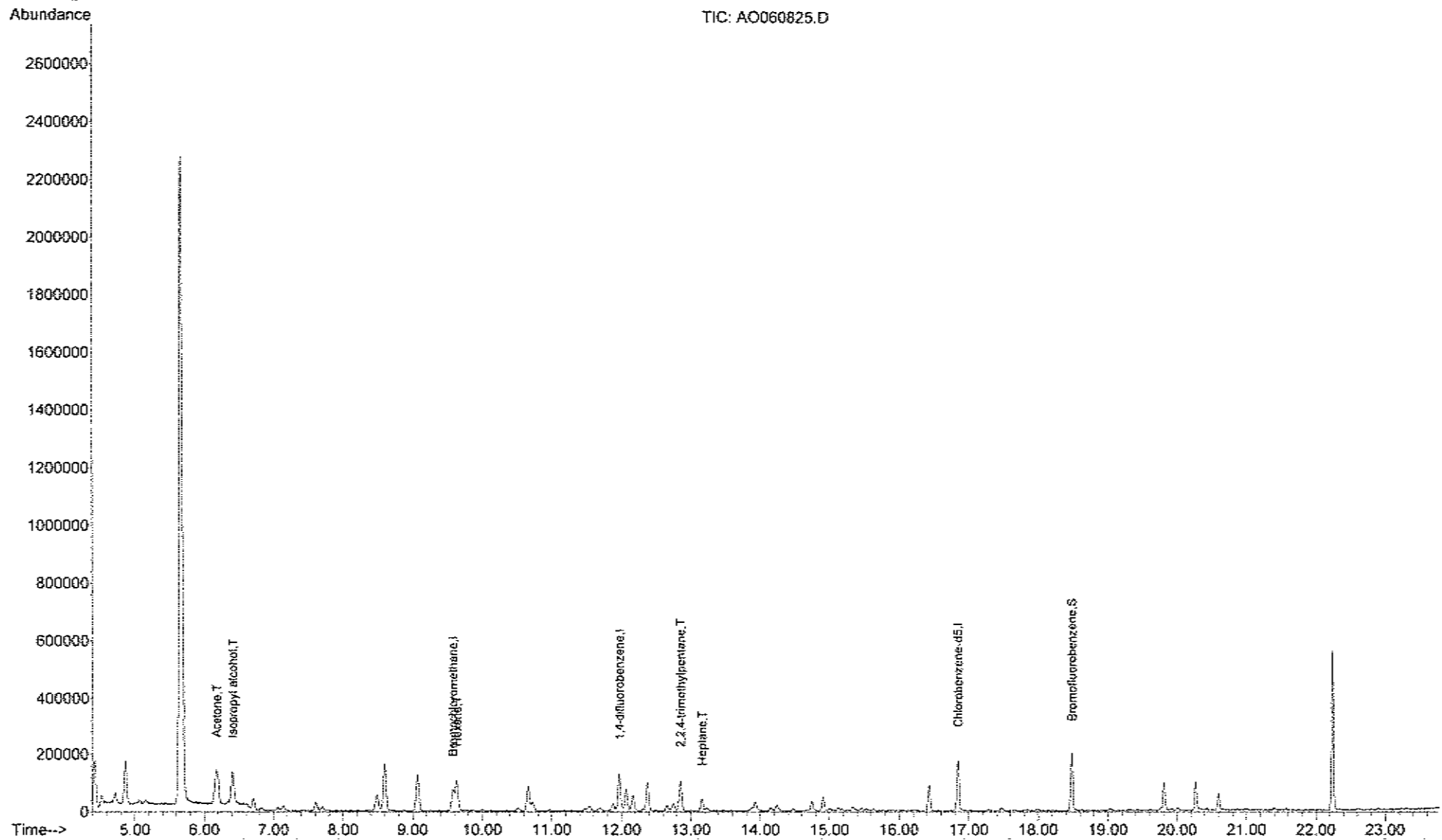
Quant Results File: A605_1UG.RES

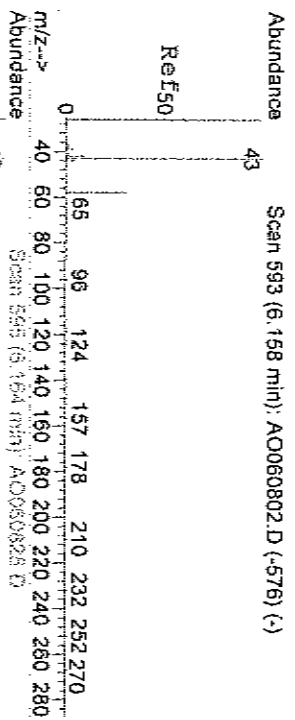
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 10:00:17 2017

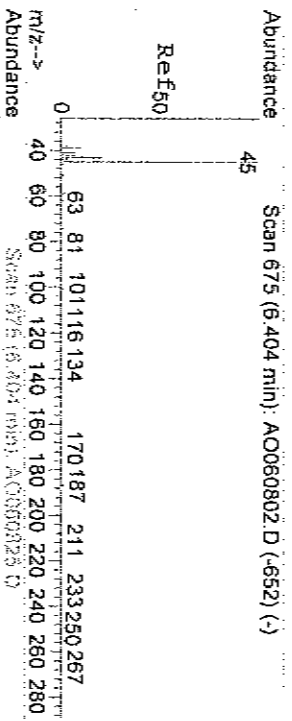
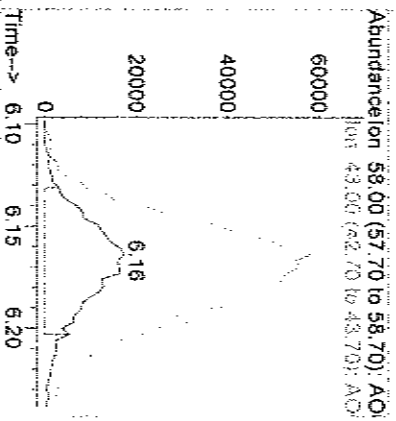
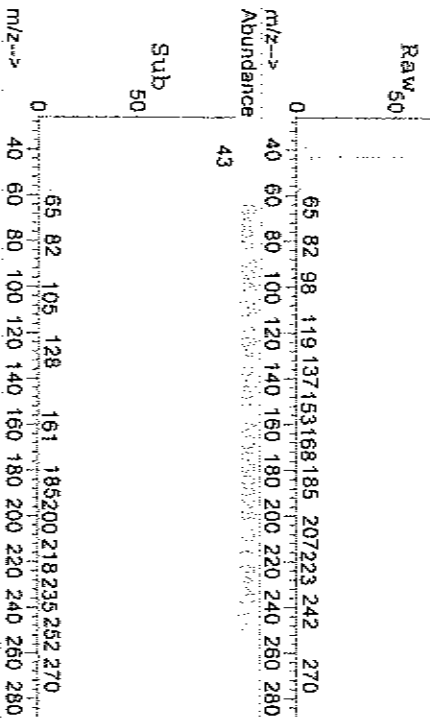
Response via : Initial Calibration





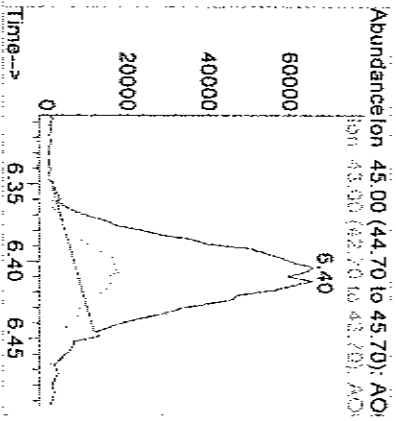
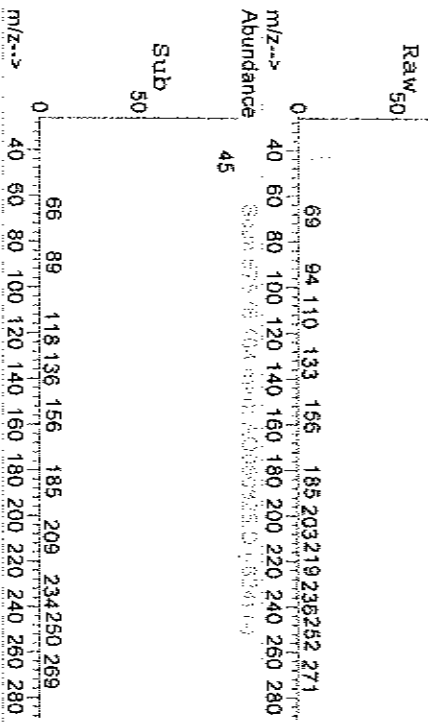
#15
Acetone
Concen: 2.47 ppb m
RT: 6.16 min Scan# 595
Delta R.T. 0.00 min
Lab File: AO060825.D
Acq: 9 Jun 2017 2:31 am

Tgt Ion: 58 Resp: 45313
Ion Ratio Lower Upper
58 100
43 408.7 263.2 323.2#

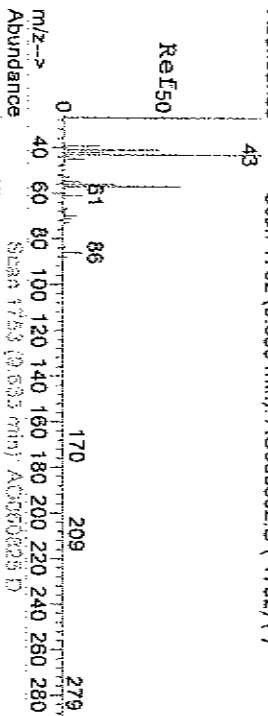


#17
Isopropyl alcohol
Concen: 2.51 ppb m
RT: 6.40 min Scan# 675
Delta R.T. 0.00 min
Lab File: AO060825.D
Acq: 9 Jun 2017 2:31 am

Tgt Ion: 45 Resp: 151825
Ion Ratio Lower Upper
45 100
43 34.2 0.0 20.0#



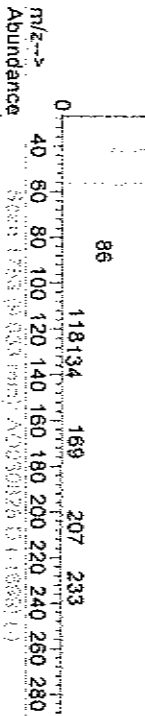
Abundance Scan 1752 (9.630 min): AO060825.D (-1732) (-)



#30
Hexane
Concen: 1.64 ppb
RT: 9.63 min Scan# 1753
Delta R.T. 0.01 min
Lab File: AO060825.D
Acq: 9 Jun 2017 2:31 am

Tgt Ion	57	Resp:	58097
Ion Ratio	100	Lower	Upper
41	96.6	57.7	97.7
56	55.7	41.0	81.0

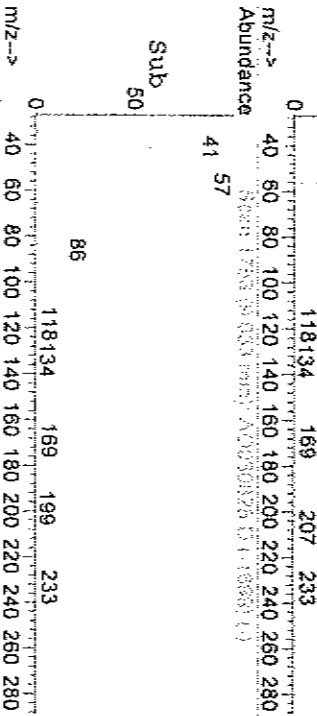
Raw50



Abundance Ion 57.00 (56.70 to 57.70): AO

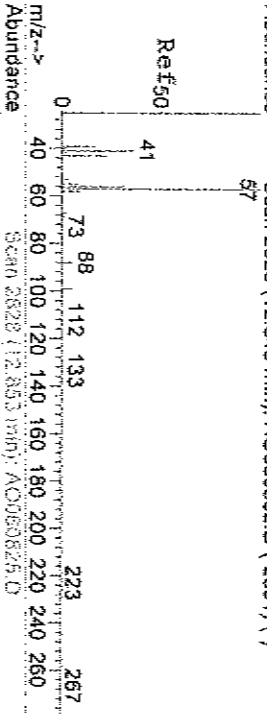
Ion 41.00 (40.70 to 41.70): AO

Ion 56.00 (55.70 to 56.70): AO



Time--> 9.50 9.55 9.60 9.65 9.70 9.75

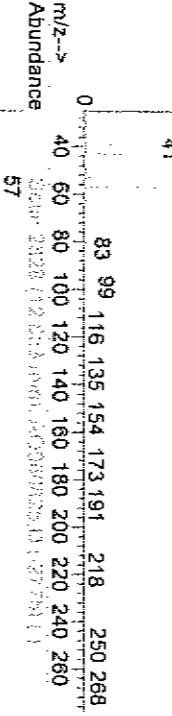
Abundance Scan 2825 (12.845 min): AO060825.D (-2801) (-)



#42
2,2,4-trimethylpentane
Concen: 0.72 ppb
RT: 12.85 min Scan# 2828
Delta R.T. 0.01 min
Lab File: AO060825.D
Acq: 9 Jun 2017 2:31 am

Tgt Ion	57	Resp:	84507
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
41	45.4	6.1	46.1
56	44.6	7.8	47.8

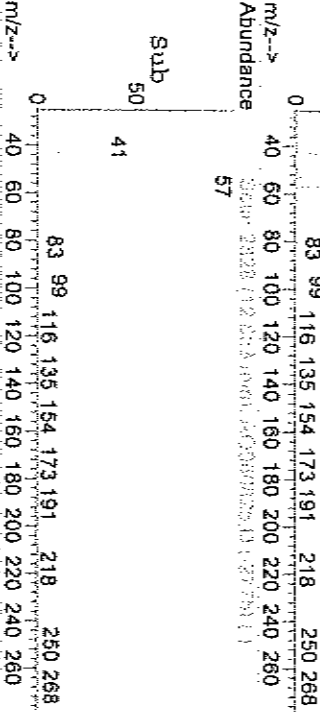
Raw50



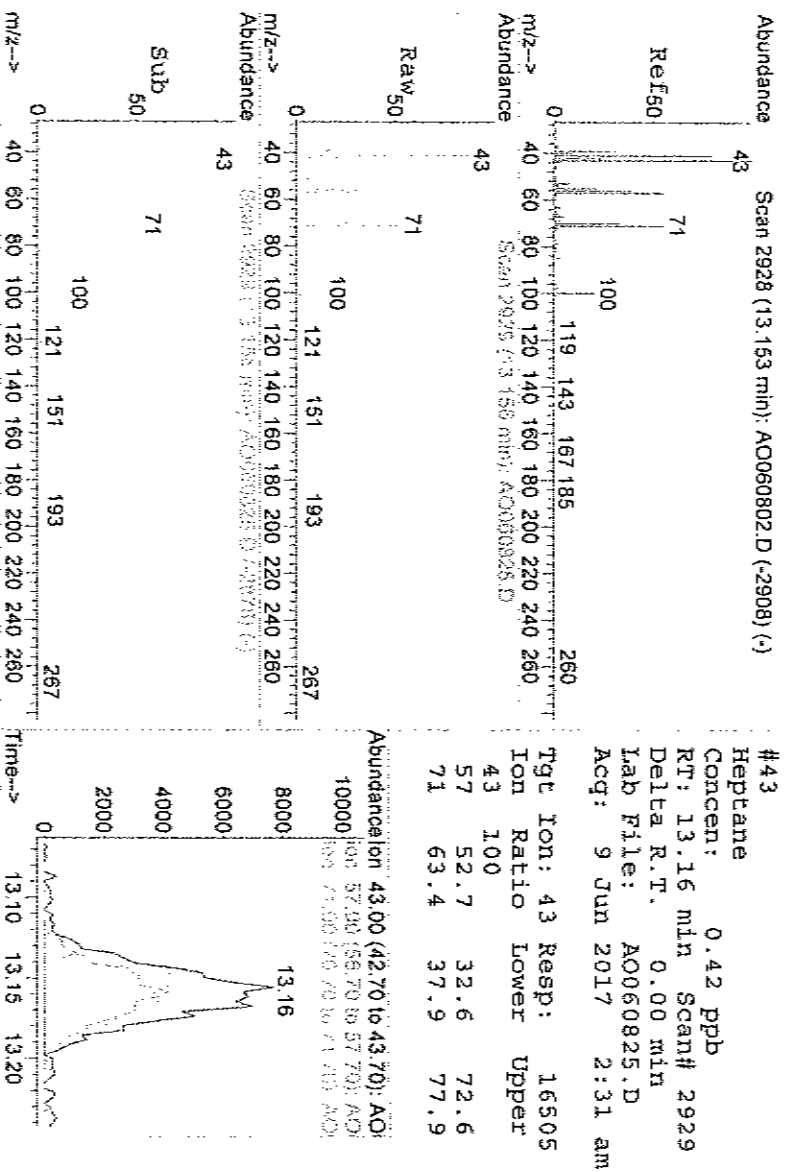
Abundance Ion 57.00 (56.70 to 57.70): AO

Ion 41.00 (40.70 to 41.70): AO

Ion 56.00 (55.70 to 56.70): AO



Time--> 12.75 12.80 12.85 12.90 12.95



#43
Heptane
Concen: 0.42 ppb
RT: 13.16 min Scan# 2929
Delta R.T. 0.00 min
Lab File: A0060825.D
Acq: 9 Jun 2017 2:31 am

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-004A

Client Sample ID: Rm 134
 Tag Number: 102.345
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-6		FLD	"Hg		Analyst: 6/7/2017
Lab Vacuum Out	-30			"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15	TO-15	ppbv	1	Analyst: RJP 6/15/2017 5:53:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbv	1	6/15/2017 5:53:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/15/2017 5:53:00 AM
2,2,4-trimethylpentane	0.33	0.15		ppbv	1	6/15/2017 5:53:00 AM
4-ethyltoluene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Acetone	17	3.0		ppbv	10	6/9/2017 3:10:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Benzene	0.18	0.15		ppbv	1	6/15/2017 5:53:00 AM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Bromoform	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Bromomethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Carbon disulfide	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Carbon tetrachloride	0.060	0.040		ppbv	1	6/15/2017 5:53:00 AM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Chloroethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Chloroform	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Chloromethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Cyclohexane	0.31	0.15		ppbv	1	6/15/2017 5:53:00 AM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Ethyl acetate	0.35	0.15		ppbv	1	6/15/2017 5:53:00 AM
Quantifiers:						
**	Quantitation Limit	Results reported are not blank corrected				
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range			
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit			
IN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection			
S	Spike Recovery outside accepted recovery limits					

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-004A

Client Sample ID: Rm 134
 Tag Number: 102.345
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	< 0.15	0.15	TO-15	ppbv	1	Analyst: RJP 6/15/2017 5:53:00 AM
Freon 11	0.19	0.15		ppbv	1	6/15/2017 5:53:00 AM
Freon 113	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Freon 114	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Freon 12	0.40	0.15		ppbv	1	6/15/2017 5:53:00 AM
Heptane	0.33	0.15		ppbv	1	6/15/2017 5:53:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Hexane	0.49	0.15		ppbv	1	6/15/2017 5:53:00 AM
Isopropyl alcohol	26	1.5		ppbv	10	6/9/2017 3:10:00 AM
m&p-Xylene	0.18	0.30	J	ppbv	1	6/15/2017 5:53:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 5:53:00 AM
Methyl Ethyl Ketone	0.69	0.30		ppbv	1	6/15/2017 5:53:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 5:53:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Methylene chloride	1.3	0.15		ppbv	1	6/15/2017 5:53:00 AM
o-Xylene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Propylene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Styrene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Tetrachloroethylene	0.11	0.15	J	ppbv	1	6/15/2017 5:53:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Toluene	0.66	0.15		ppbv	1	6/15/2017 5:53:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Trichloroethene	0.060	0.040		ppbv	1	6/15/2017 5:53:00 AM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/15/2017 5:53:00 AM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/15/2017 5:53:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	6/15/2017 5:53:00 AM

Quantifiers:

**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL SI
 Lab ID: C1706015-004A

Client Sample ID: Rm 134
 Tag Number: 102,345
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82	TO-15	ug/m3	1	Analyst: RJP 6/15/2017 5:53:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 5:53:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 5:53:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 5:53:00 AM
1,1-Dichloroethane	< 0.59	0.59		ug/m3	1	6/15/2017 5:53:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 5:53:00 AM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	6/15/2017 5:53:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 5:53:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 5:53:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 5:53:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 5:53:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/15/2017 5:53:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 5:53:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 5:53:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 5:53:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 5:53:00 AM
2,2,4-trimethylpentane	1.5	0.70		ug/m3	1	6/15/2017 5:53:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/15/2017 5:53:00 AM
Acetone	40	7.1		ug/m3	10	6/9/2017 3:10:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 5:53:00 AM
Benzene	0.57	0.48		ug/m3	1	6/15/2017 5:53:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 5:53:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 5:53:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/15/2017 5:53:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 5:53:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/15/2017 5:53:00 AM
Carbon tetrachloride	0.38	0.26		ug/m3	1	6/15/2017 5:53:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 5:53:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 5:53:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/15/2017 5:53:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/15/2017 5:53:00 AM
cis-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	6/15/2017 5:53:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 5:53:00 AM
Cyclohexane	1.1	0.52		ug/m3	1	6/15/2017 5:53:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 5:53:00 AM
Ethyl acetate	1.3	0.54		ug/m3	1	6/15/2017 5:53:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/15/2017 5:53:00 AM
Freon 11	1.1	0.84		ug/m3	1	6/15/2017 5:53:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 5:53:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 5:53:00 AM
Quantifiers:	Results reported are not blank corrected					
B	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range				
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit				
JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection				
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 134

Lab Order: C1706015

Tag Number: 102.345

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-004A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.0	TO-15 0.74		ug/m3	1	Analyst: RJP 6/15/2017 5:53:00 AM
Heptane	1.4	0.61		ug/m3	1	6/15/2017 5:53:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 5:53:00 AM
Hexane	1.7	0.53		ug/m3	1	6/15/2017 5:53:00 AM
Isopropyl alcohol	65	3.7		ug/m3	10	6/9/2017 3:10:00 AM
m&p-Xylene	0.78	1.3	J	ug/m3	1	6/15/2017 5:53:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 5:53:00 AM
Methyl Ethyl Ketone	2.0	0.88		ug/m3	1	6/15/2017 5:53:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 5:53:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 5:53:00 AM
Methylene chloride	4.7	0.52		ug/m3	1	6/15/2017 5:53:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	6/15/2017 5:53:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 5:53:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 5:53:00 AM
Tetrachloroethylene	0.75	1.0	J	ug/m3	1	6/15/2017 5:53:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/15/2017 5:53:00 AM
Toluene	2.1	0.57		ug/m3	1	6/15/2017 5:53:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 5:53:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 5:53:00 AM
Trichloroethene	0.32	0.21		ug/m3	1	6/15/2017 5:53:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 5:53:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 5:53:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 5:53:00 AM

Qualifiers: ** Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

- E Estimated Value above quantitation range
- J Analyte detected below quantitation limit
- NID Not Detected at the Limit of Detection

Data File : C:\HPCHEM\1\DATA\A0061413.D
 Acq On : 15 Jun 2017 5:53 am
 Sample : C1706015-004A
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 15 06:32:37 2017

Vial: 32
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards		R.T. QIon		Response	Conc Units	Dev(Min)
1)	Bromochloromethane	9.56	128	35433	1.00 ppb	0.00
35)	1,4-difluorobenzene	11.96	114	151185	1.00 ppb	0.00
50)	Chlorobenzene-d5	16.83	117	134973	1.00 ppb	0.00

System Monitoring Compounds

65)	Bromofluorobenzene	18.47	95	82943	0.89 ppb	0.00
Spiked Amount		1.000	Range	70 - 130	Recovery	= 89.00%

Target Compounds

3)	Freon 12	4.56	85	90559	0.40 ppb	Qvalue
14)	Freon 11	6.34	101	51584	0.19 ppb	100
15)	Acetone	6.15	58	192054	8.58 ppb	98
17)	Isopropyl alcohol	6.39	45	1223001	16.59 ppb	90
21)	Methylene chloride	7.13	84	45993	1.34 ppb	# 100
28)	Methyl Ethyl Ketone	8.87	72	11440	0.69 ppb	77
30)	Hexane	9.62	57	20994	0.49 ppb	94
31)	Ethyl acetate	9.62	43	33472	0.35 ppb	82
37)	Cyclohexane	11.87	56	13421	0.31 ppb	96
38)	Carbon tetrachloride	11.71	117	8612	0.06 ppb	82
39)	Benzene	11.53	78	18559	0.18 ppb	96
42)	2,2,4-trimethylpentane	12.84	57	44449	0.33 ppb	78
43)	Heptane	13.14	43	15166	0.33 ppb	71
44)	Trichloroethene	12.80	130	3194	0.06 ppb	90
51)	Toluene	14.90	92	42891	0.56 ppb	90
56)	Tetrachloroethylene	16.15	164	6282	0.11 ppb	83
59)	m&p-xylene	17.46	91	28825	0.18 ppb	93
71)	1,2,4-trimethylbenzene	19.91	105	19980	0.12 ppb	90
						85

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0061413.D A605_1UG.M Thu Jun 29 10:08:34 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO061413.D

Vial: 32

Acq On : 15 Jun 2017 5:53 am

Operator: RJP

Sample : C1706015-004A

Inst : MSD #1

Misc : A605_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 15 7:03 2017

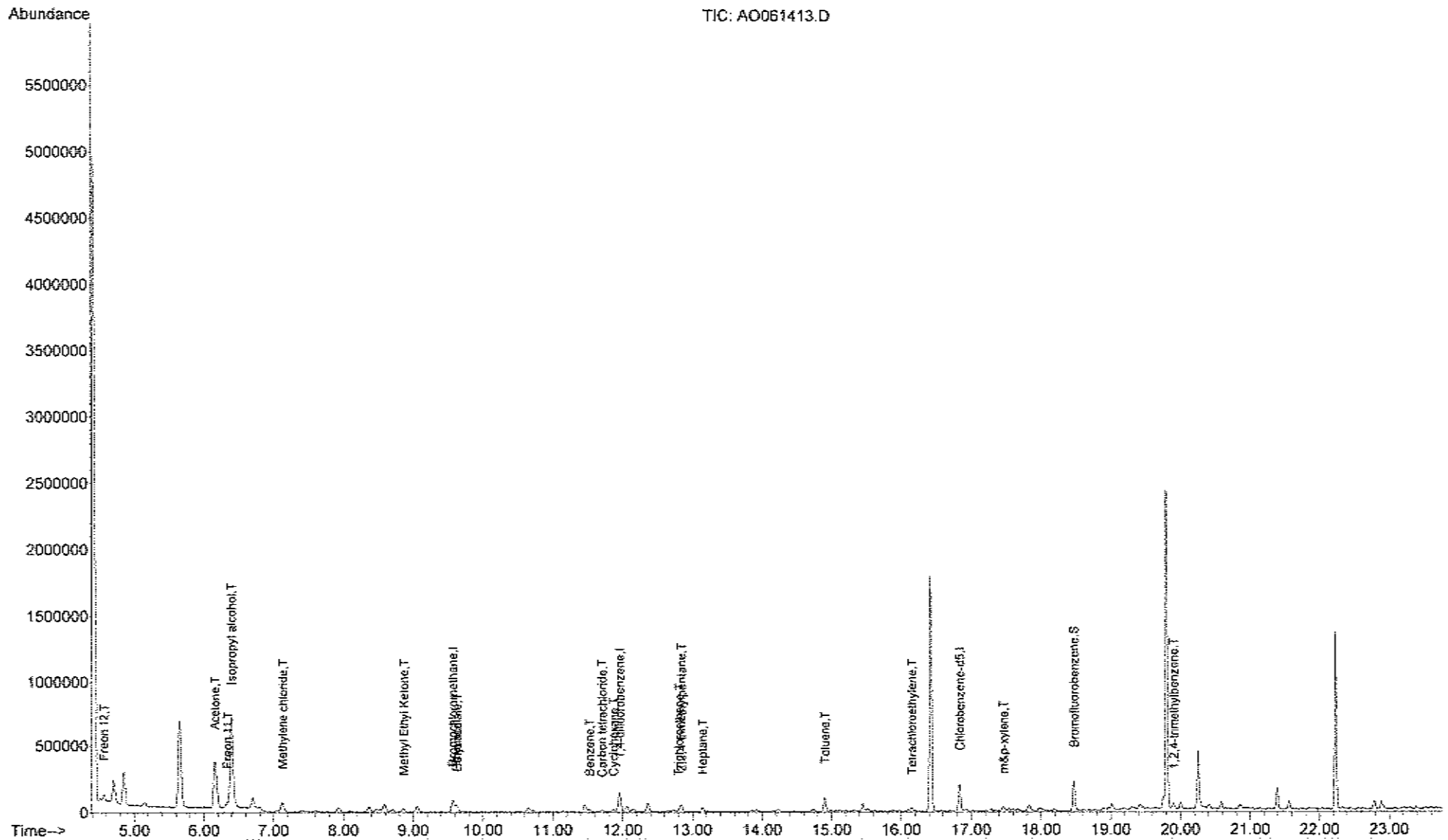
Quant Results File: A605_1UG.RES

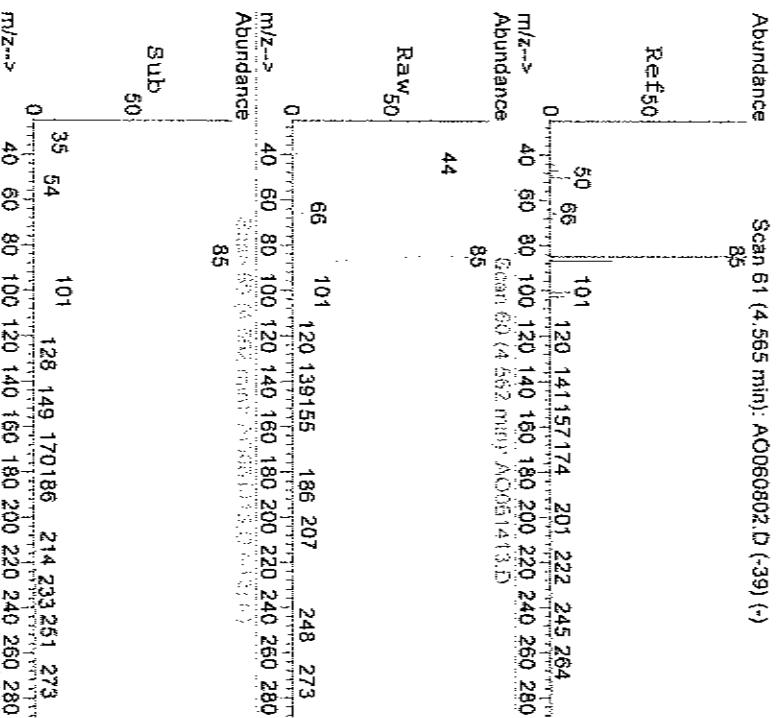
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 10:00:17 2017

Response via : Initial Calibration





#3

Freon 12

Concen: 0.40 ppb

RT: 4.56 min Scan# 60

Delta R.T. -0.01 min

Lab File: AO061413.D

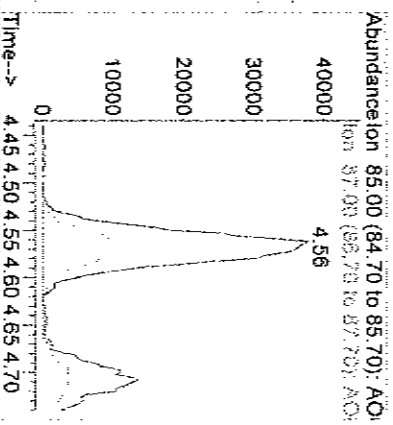
Acq: 15 Jun 2017 5:53 am

Tgt Ion: 85 Resp: 90559

Ion Ratio Lower Upper

85 100

87 31.5 11.3 51.3



#14

Freon 11

Concen: 0.19 ppb

RT: 6.34 min Scan# 652

Delta R.T. 0.00 min

Lab File: AO061413.D

Acq: 15 Jun 2017 5:53 am

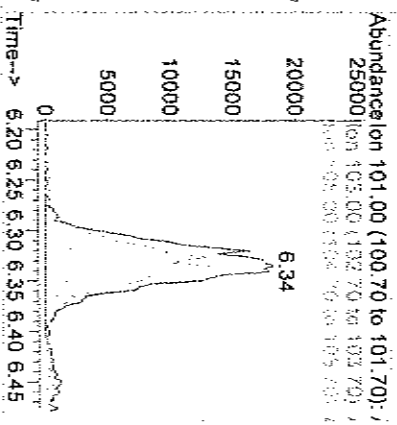
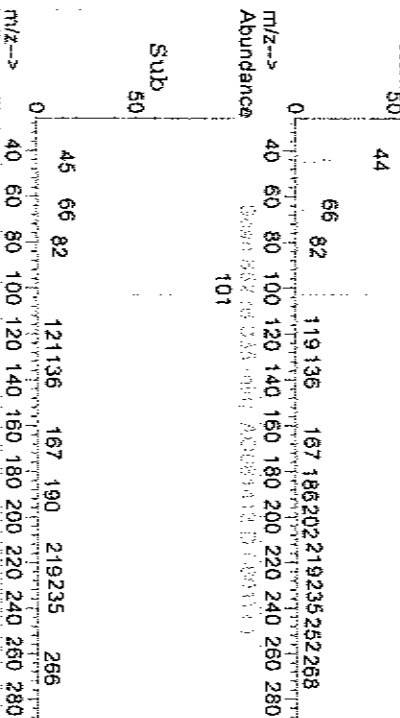
Tgt Ion:101 Resp: 51584

Ion Ratio Lower Upper

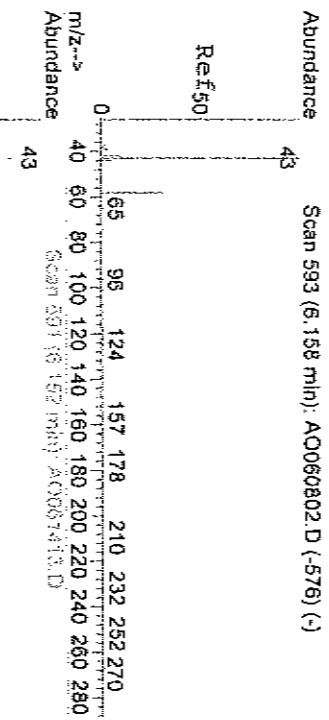
101 100

103 65.0 46.0 86.0

105 12.5 0.0 31.4

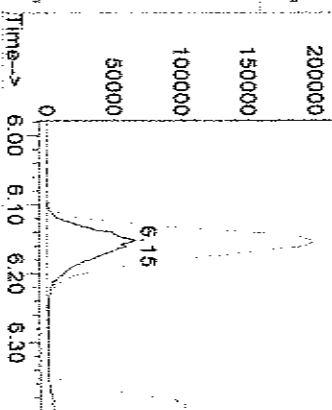
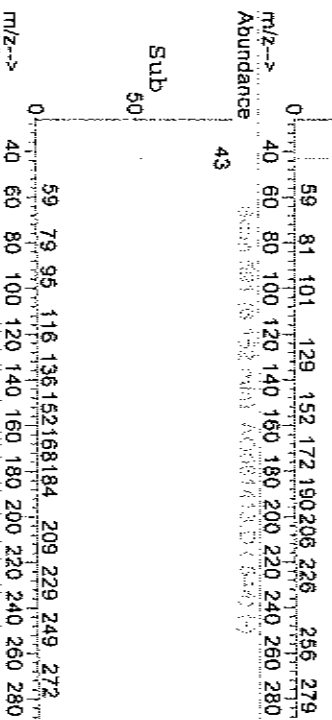


#15
Acetone
Concen: 8.58 ppb
RT: 6.15 min Scan# 591
Delta R.T. -0.01 min
Lab File: AO061413.D
Acq: 15 Jun 2017 5:53 am

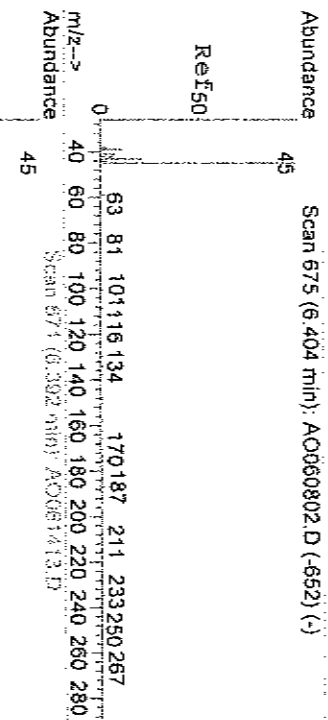


Tgt Ion: 58 Resp: 192054
Ion Ratio Lower Upper
58 100
43 313.3 263.2 323.2

Abundance Ion 58.00 (44.70 to 45.70): AO

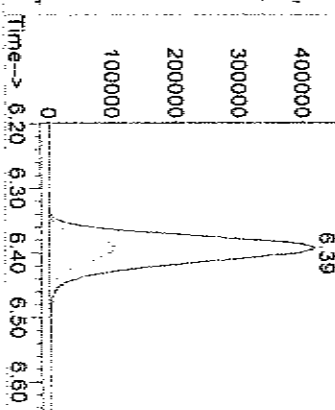
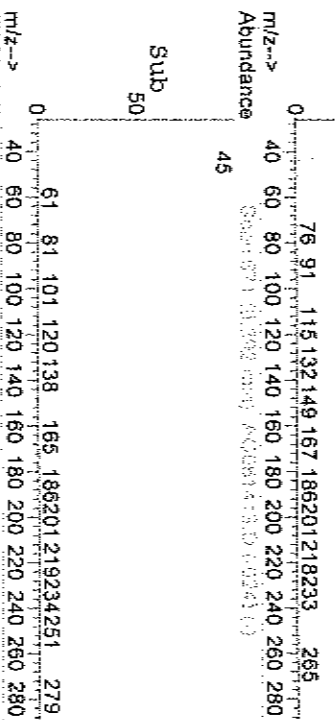


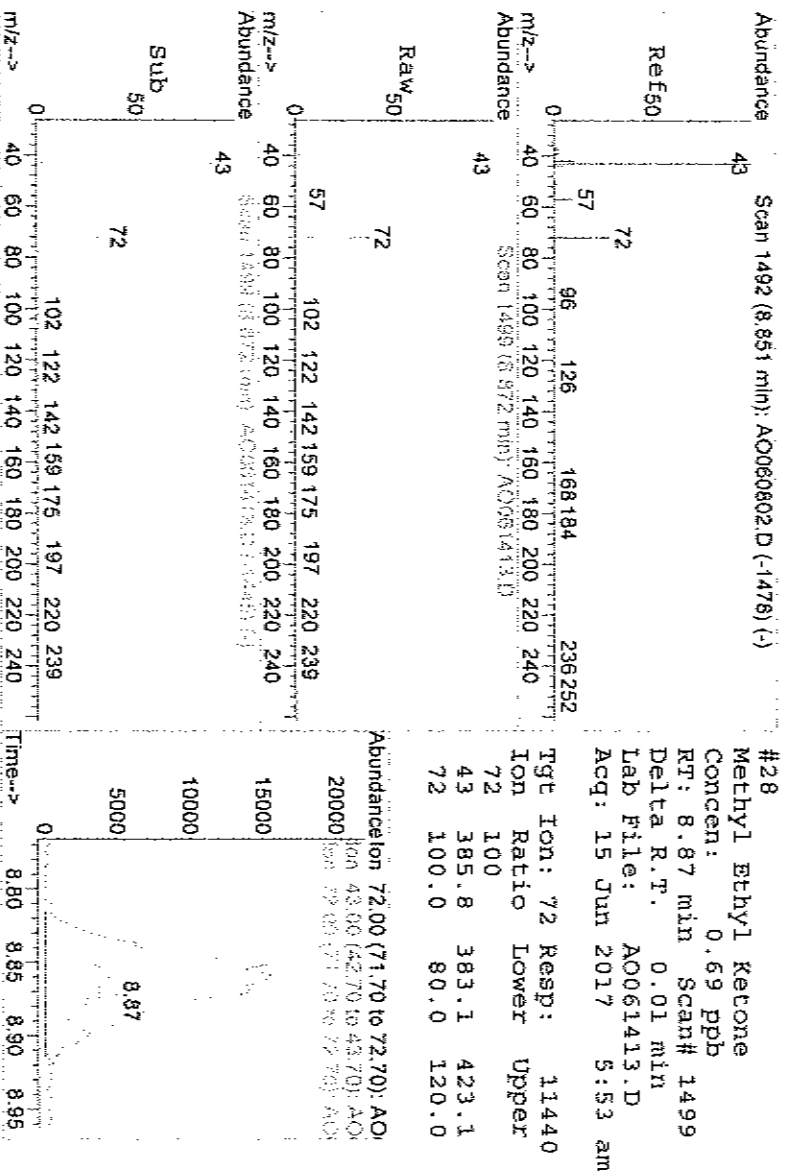
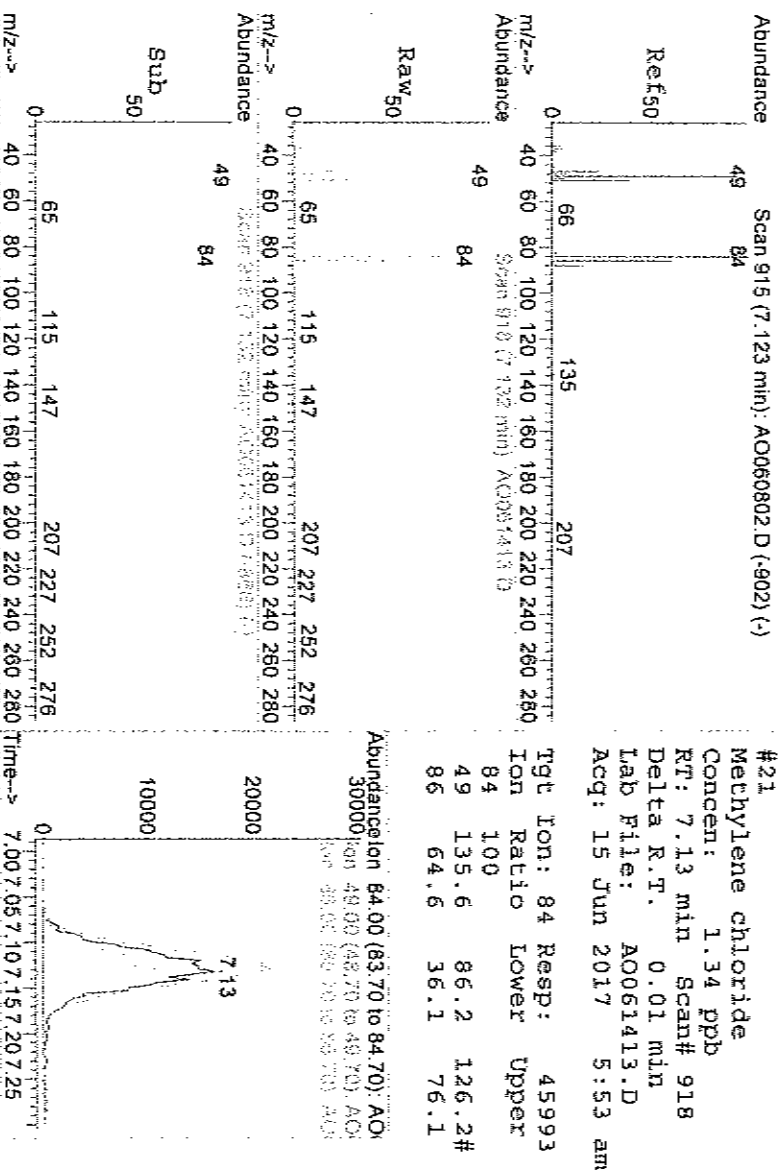
#17
Isopropyl alcohol
Concen: 16.59 ppb
RT: 6.39 min Scan# 671
Delta R.T. -0.01 min
Lab File: AO061413.D
Acq: 15 Jun 2017 5:53 am

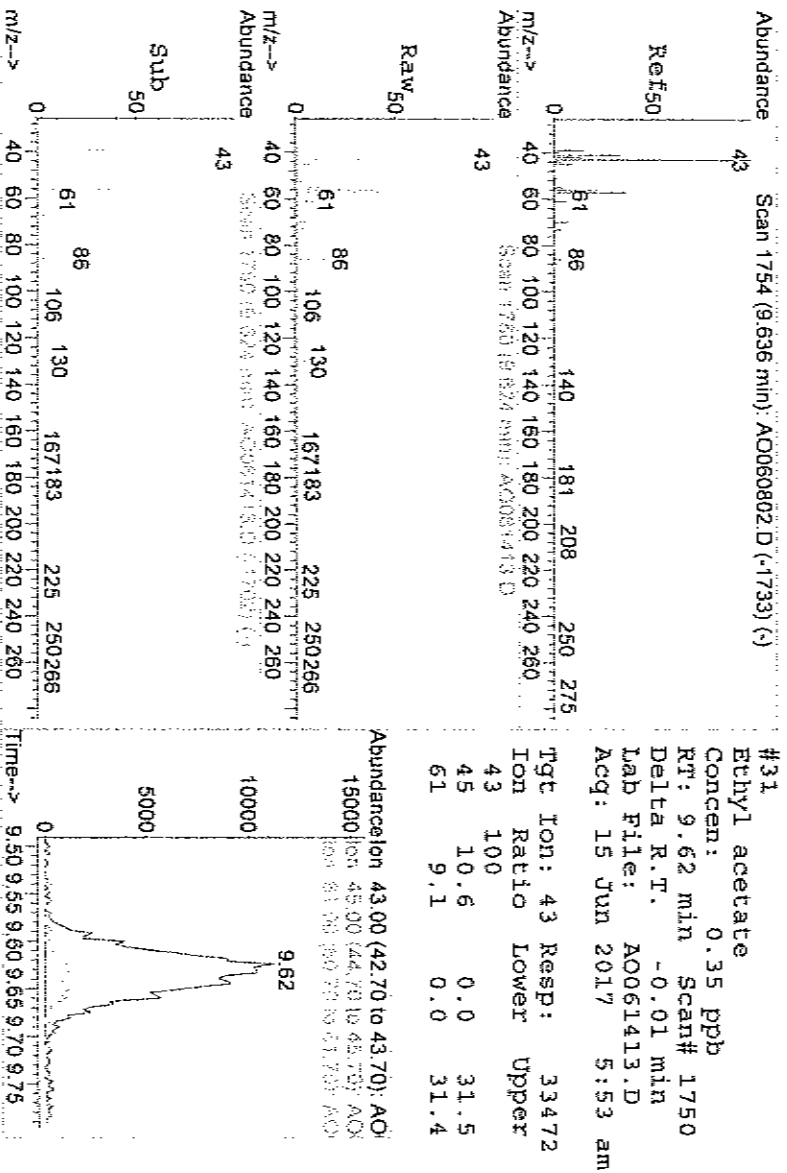
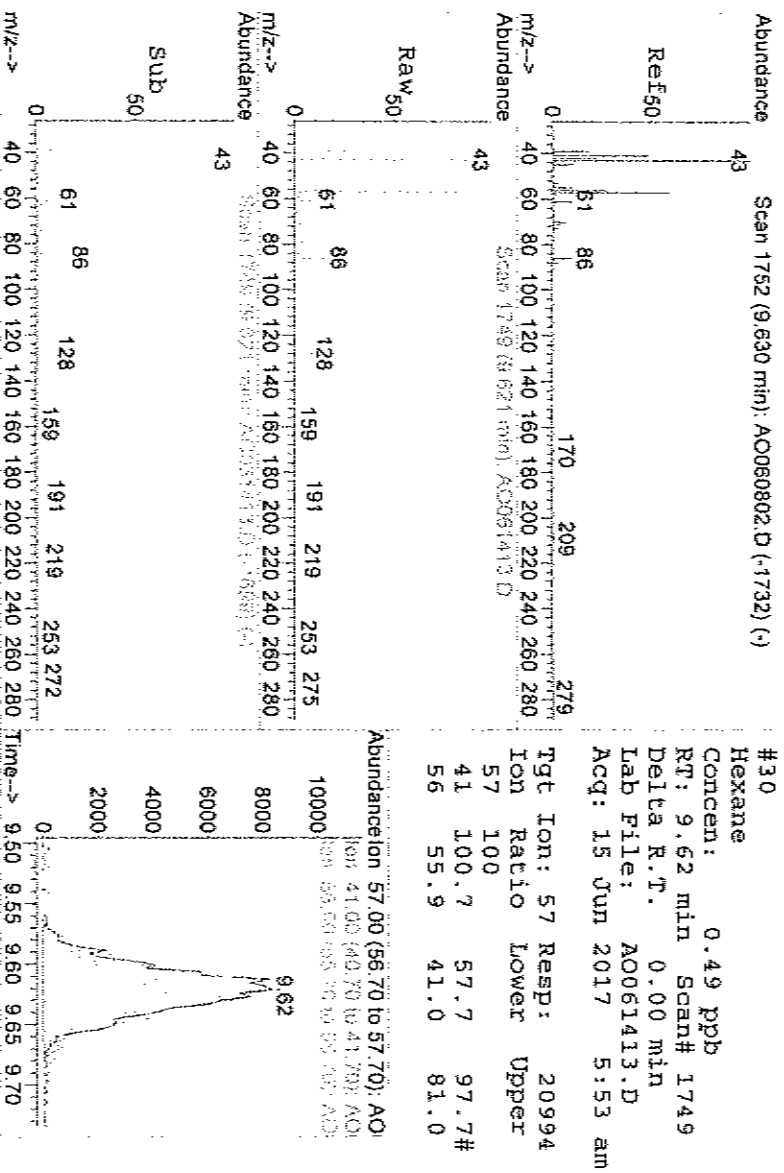


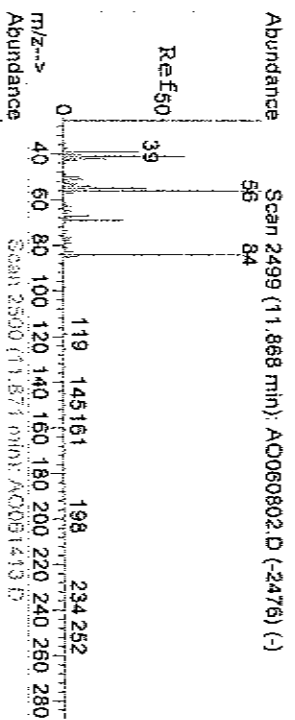
Tgt Ion: 45 Resp: 1223001
Ion Ratio Lower Upper
45 100
43 24.5 0.0 20.0#

Abundance Ion 45.00 (44.70 to 45.70): AO



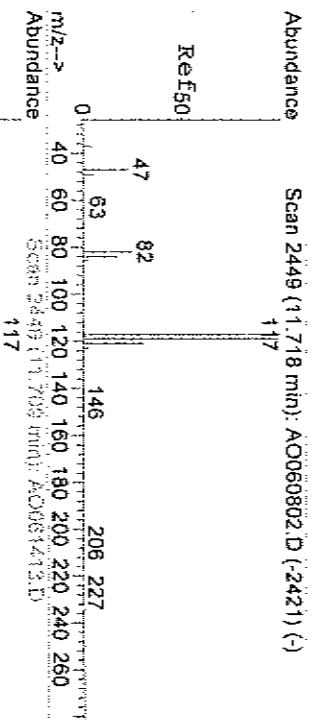
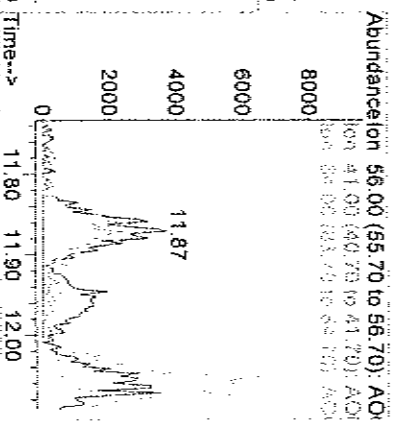
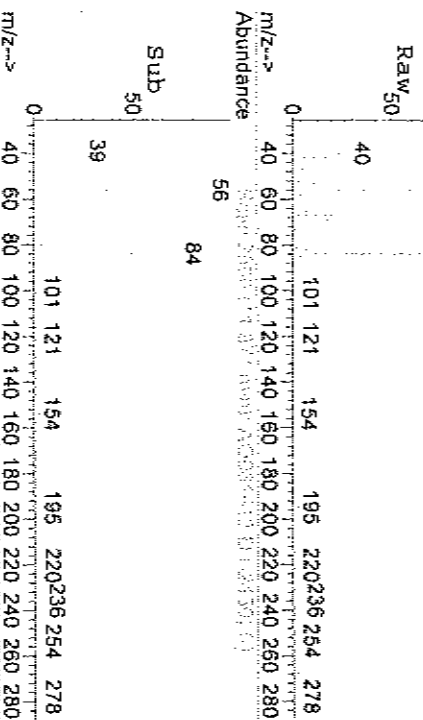






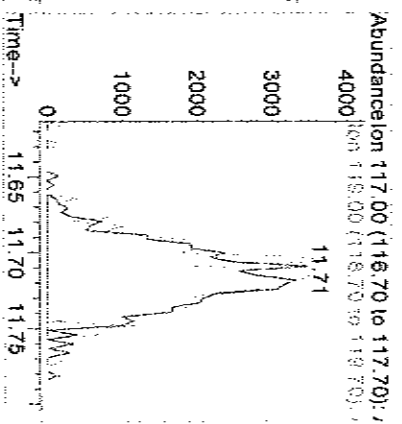
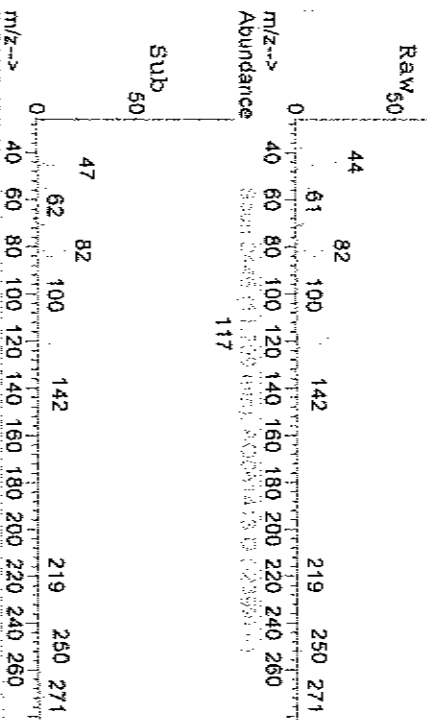
#37
Cyclohexane
Concen: 0.31 ppb
RT: 11.87 min Scan# 2500
Delta R.T. 0.00 min
Lab File: A0061413.D
Acq: 15 Jun 2017 5:53 am

Tgt Ion: 56 Resp: 13421
Ion Ratio Lower Upper
56 100
41 48.5 43.2 83.2
84 68.6 64.8 104.8

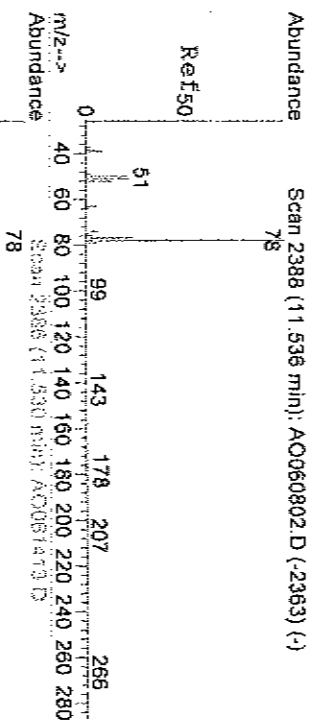


#38
Carbon tetrachloride
Concen: 0.06 ppb
RT: 11.71 min Scan# 2446
Delta R.T. -0.01 min
Lab File: A0061413.D
Acq: 15 Jun 2017 5:53 am

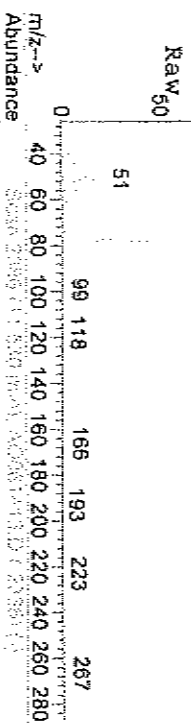
Tgt Ion: 117 Resp: 8612
Ion Ratio Lower Upper
117 100
119 99.1 74.9 114.9



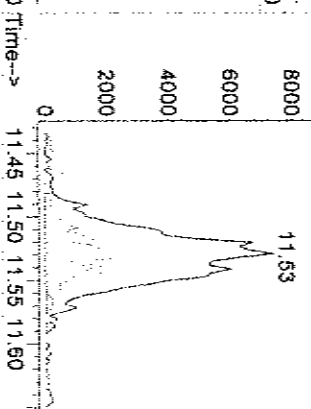
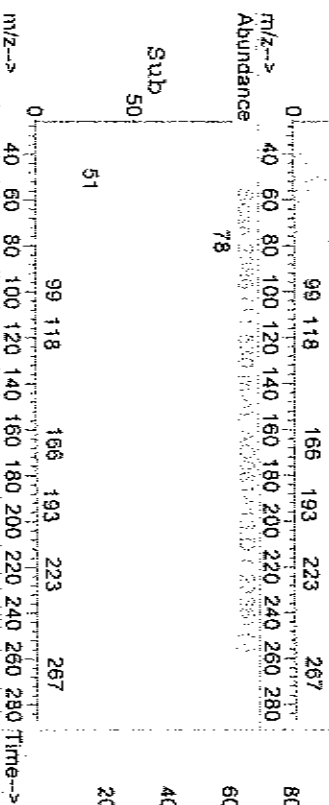
#39
Benzene
Concen: 0.18 ppb
RT: 11.53 min Scan# 2386
Delta R.T. 0.00 min
Lab File: AO061413.D
Acq: 15 Jun 2017 5:53 am



Tgt Ion: 78 Resp: 18559
Ion Ratio Lower Upper
78 100
77 24.6 0.0 39.9
51 31.9 0.0 35.8



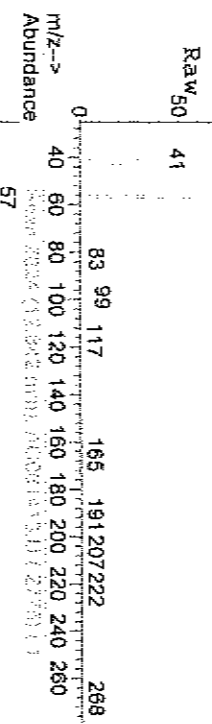
Abundance Ion 78.00 (77.70 to 78.70): AO
10000 Ion 77.60 (76.70 to 77.70): AO
77.00 78.70 79.10 81.70: AO



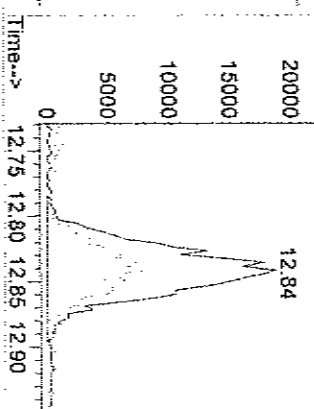
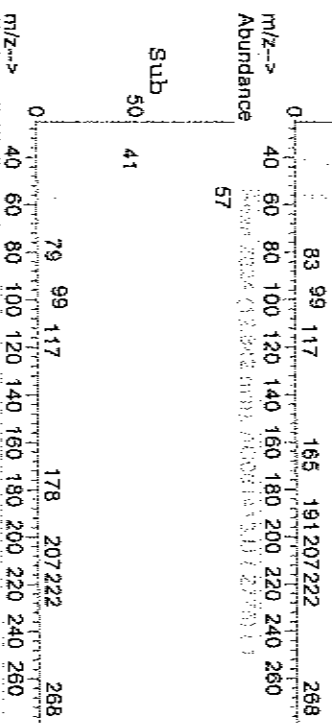
#42
2,2,4-trimethylpentane
Concen: 0.33 ppb
RT: 12.84 min Scan# 2824
Delta R.T. -0.00 min
Lab File: AO061413.D
Acq: 15 Jun 2017 5:53 am

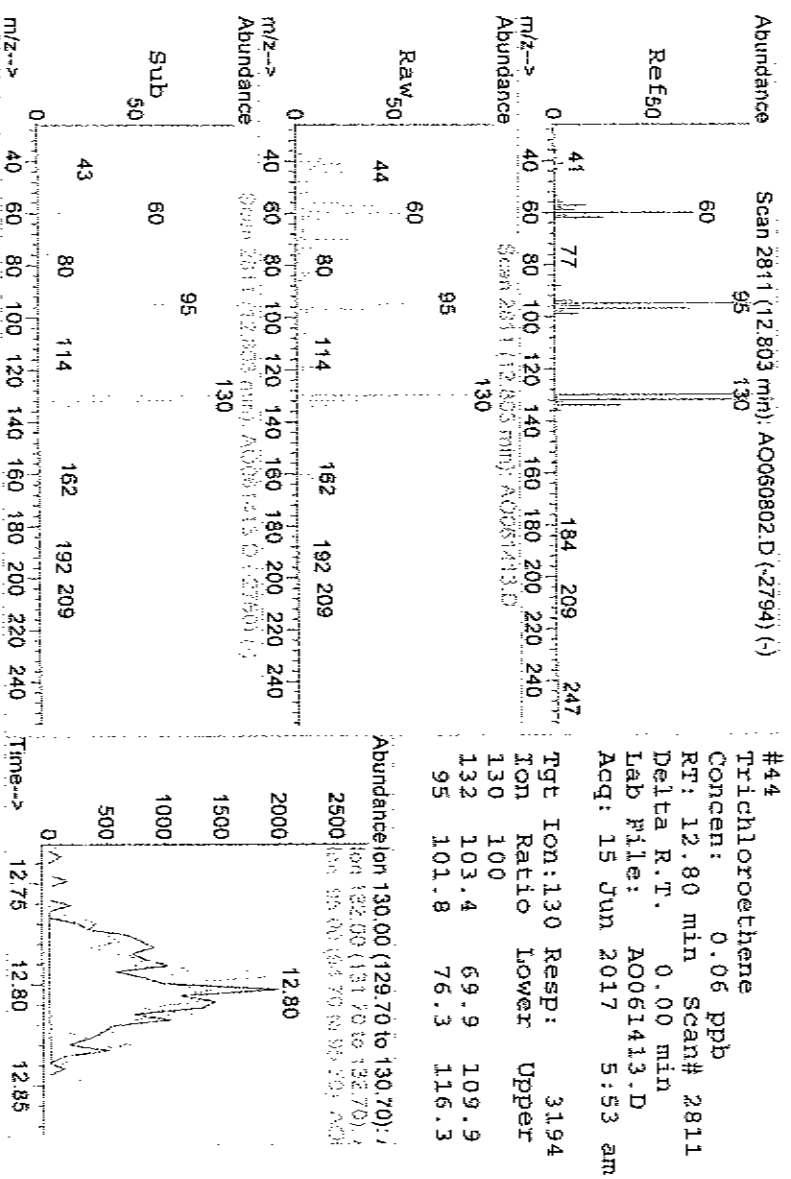
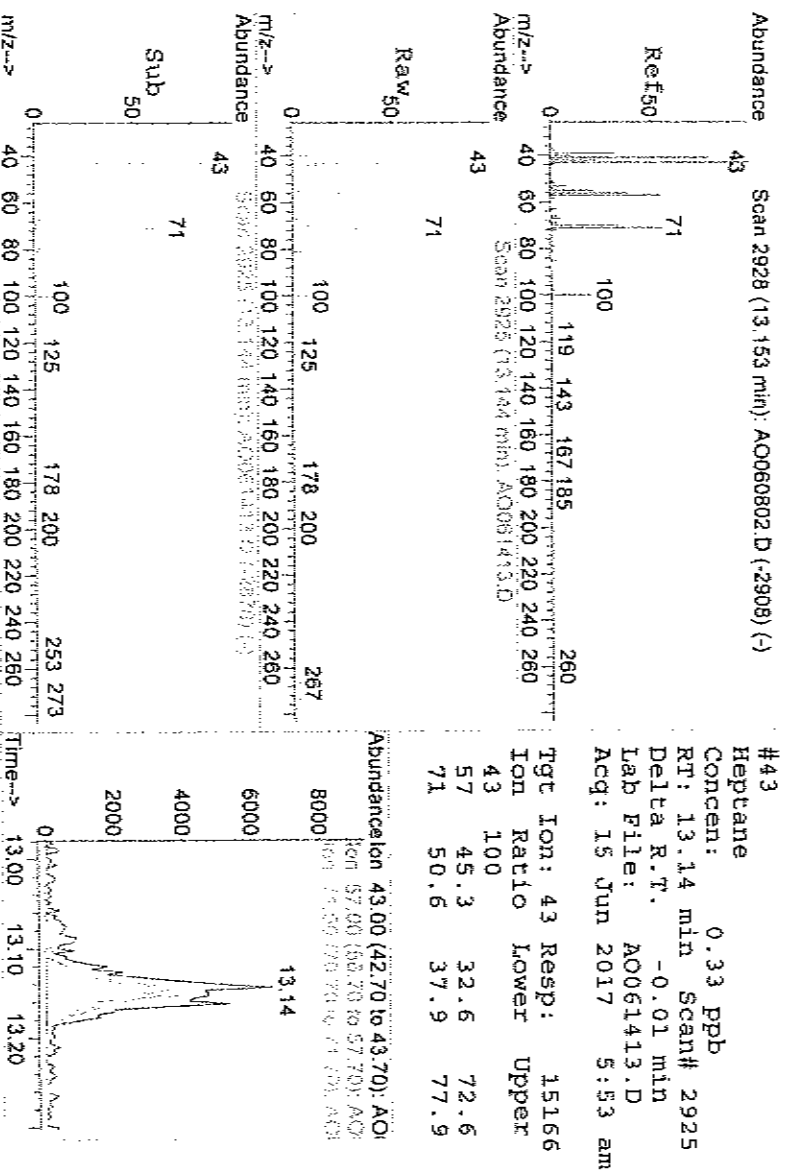


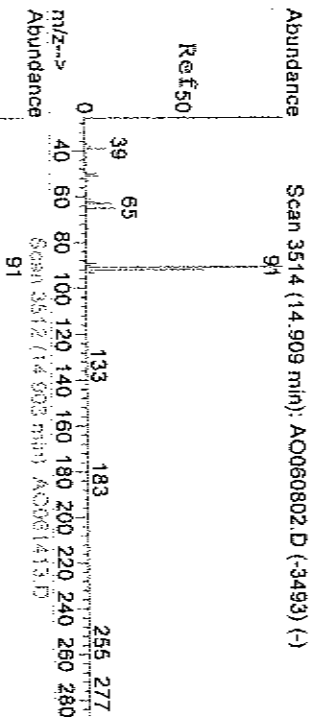
Tgt Ion: 57 Resp: 44449
Ion Ratio Lower Upper
57 100
41 46.0 6.1 46.1
56 37.9 7.8 47.8



Abundance Ion 57.00 (56.70 to 57.70): AO
25000 Ion 41.00 (40.70 to 41.70): AO
100 56.00 56.70 to 57.70: AO

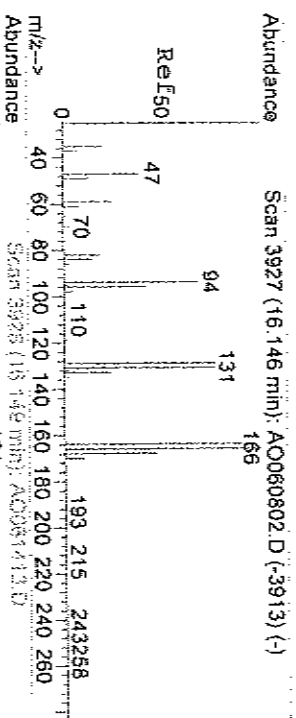
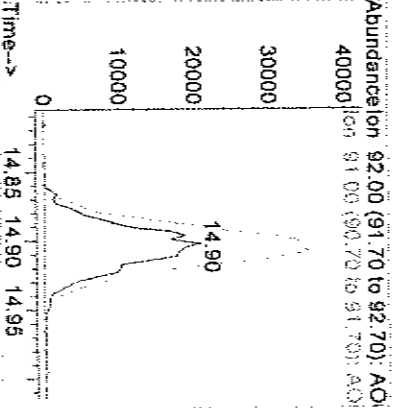
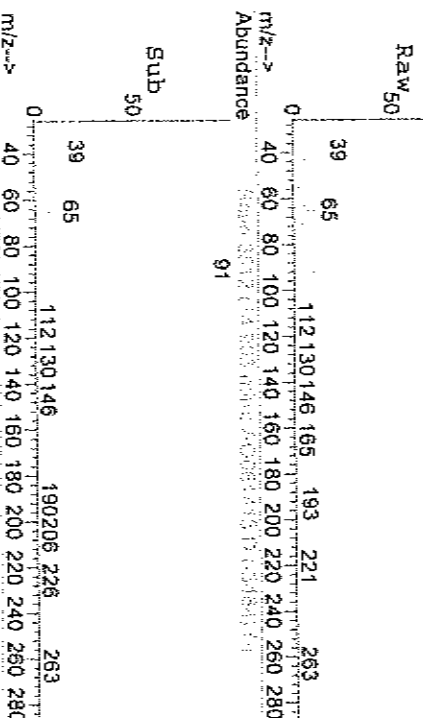






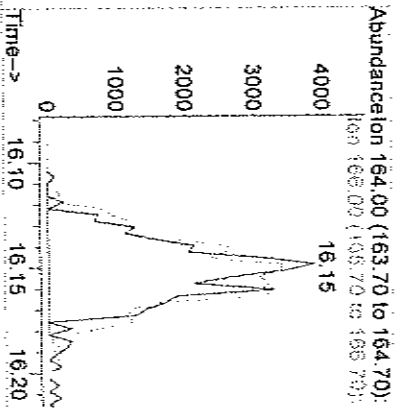
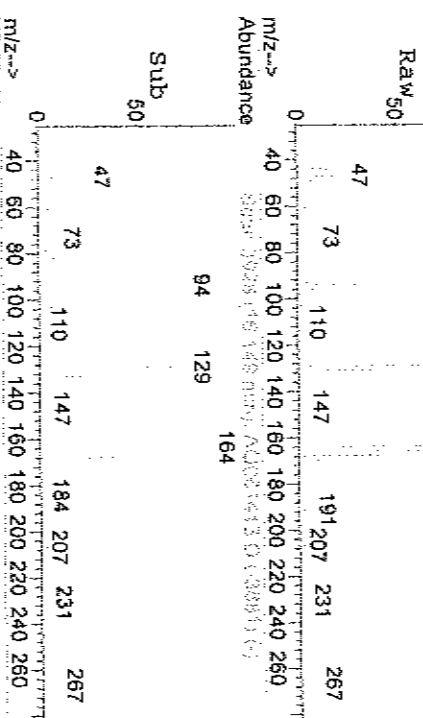
#51
Toluene
Concen: 0.56 ppb
RT: 14.90 min Scan# 3512
Delta R.T. -0.01 min
Lab File: AO061413.D
Acq: 15 Jun 2017 5:53 am

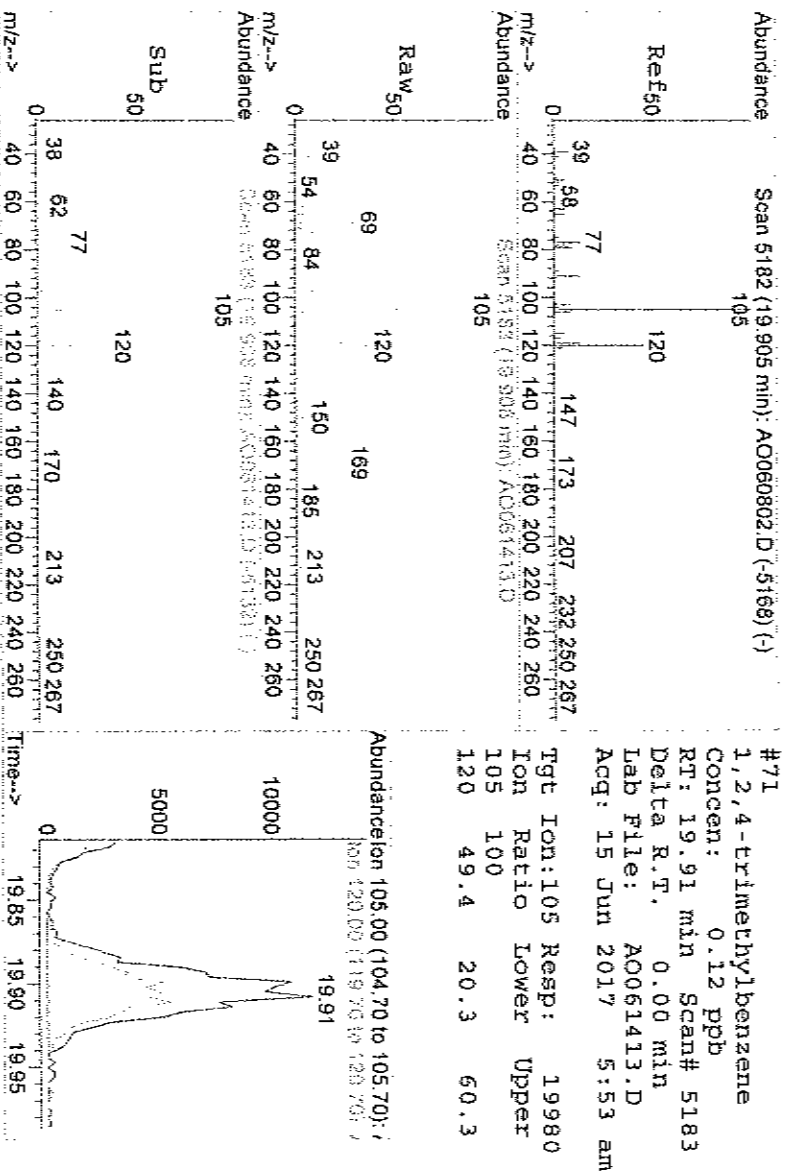
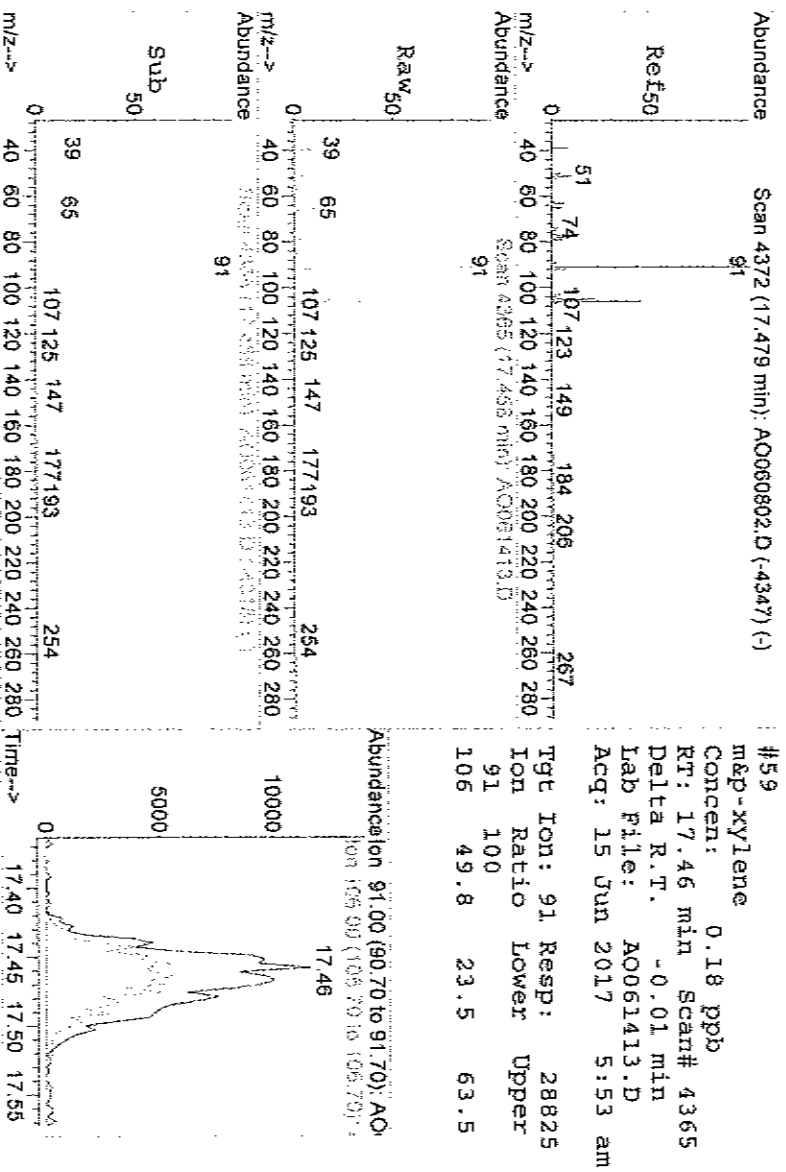
Tgt	Ion	Ratio	Lower	Upper
92	100			
91	180.7	138.8	178.8	#



#56
Tetrachloroethylene
Concen: 0.11 ppb
RT: 16.15 min Scan# 3928
Delta R.T. -0.01 min
Lab File: AO061413.D
Acq: 15 Jun 2017 5:53 am

Tgt	Ion	Ratio	Lower	Upper
164	100			
166	116.7	104.9	144.9	





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AO060826.D Vial: 26
Acq On : 9 Jun 2017 3:10 am Operator: RJP
Sample : C1706015-004A 10X Inst : MSD #1
Misc : A605_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 07:24:41 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 05 19:44:28 2017
Response via : Initial Calibration
DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.58	128	29369	1.00	ppb	0.02
35) 1,4-difluorobenzene	11.97	114	131274	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	119411	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	18.48	95	75005	0.91	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	91.00%
Target Compounds						
15) Acetone	6.17	58	30945	1.67	ppb	Qvalue # 55
17) Isopropyl alcohol	6.41	45	161542m	2.64	ppb	

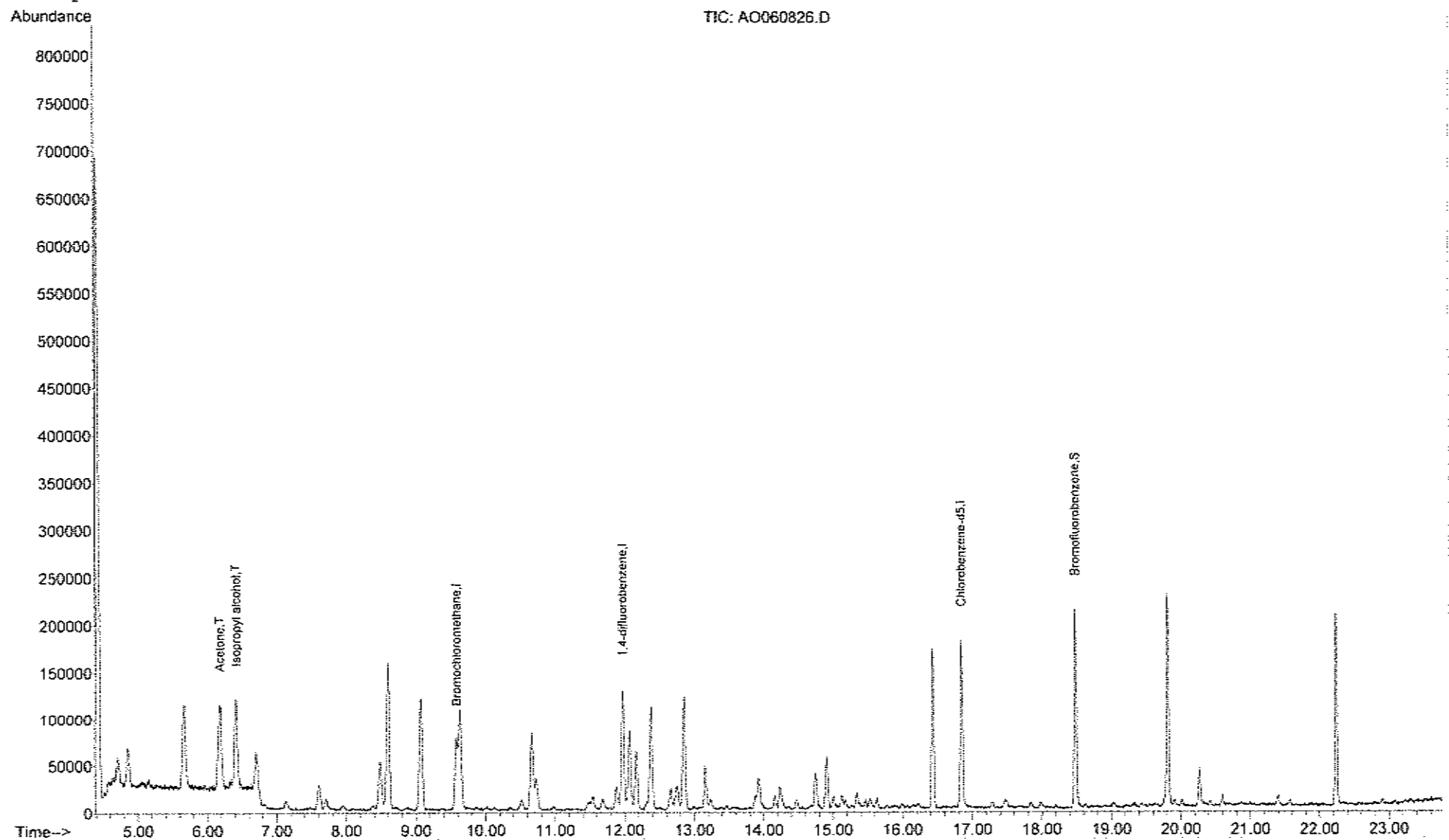
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO060826.D A605_1UG.M Thu Jun 29 10:07:59 2017 MSD1

Data File : C:\HPCHEM\1\DATA\A0060826.D
Acq On : 9 Jun 2017 3:10 am
Sample : C1706015-004A 10X
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 15 10:44 2017

Vial: 26
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

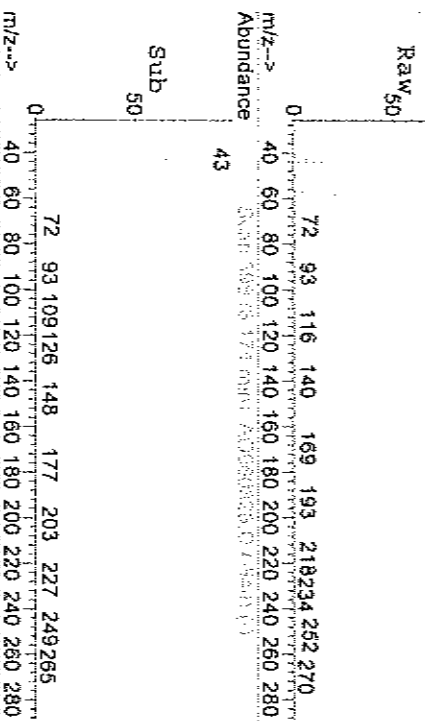
Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration

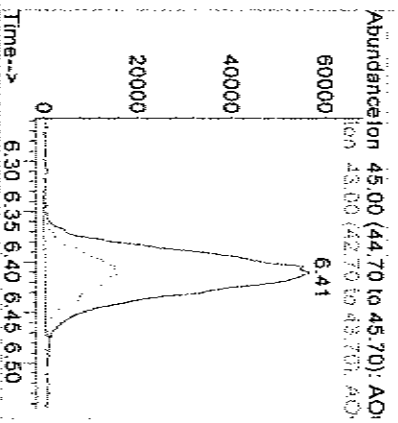
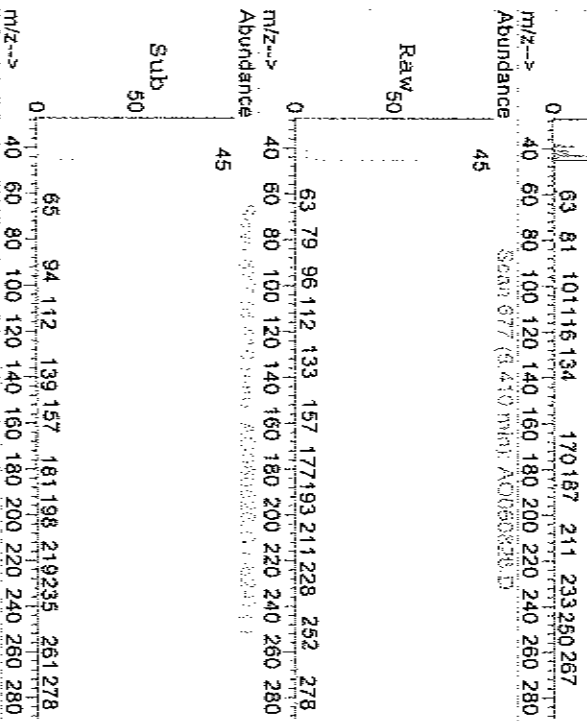




#15
Acetone
Concen: 1.67 ppb
RT: 6.17 min Scan# 598
Delta R.T. 0.01 min
Lab File: AO060826.D
Acq: 9 Jun 2017 3:10 am
Tgt Ion: 58 Resp: 30945
Ion Ratio Lower Upper
58 100
43 380.9 263.2 323.2#



#17
Isopropyl alcohol
Concen: 2.64 ppb m
RT: 6.41 min Scan# 677
Delta R.T. 0.01 min
Lab File: AO060826.D
Acq: 9 Jun 2017 3:10 am
Tgt Ion: 45 Resp: 161542
Ion Ratio Lower Upper
45 100
43 28.1 0.0 20.0#



Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-005A

Client Sample ID: Elevator
 Tag Number: 131.455
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum in	-4		FLD	"Hg		Analyst: 6/7/2017
Lab Vacuum Out	-30			"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15	TO-15	ppbv	1	Analyst: RJP 6/15/2017 6:36:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,2,4-Trimethylbenzene	1.5	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,3,5-Trimethylbenzene	0.71	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/15/2017 6:36:00 AM
2,2,4-Trimethylpentane	0.25	0.15		ppbv	1	6/15/2017 6:36:00 AM
4-ethyltoluene	0.29	0.15		ppbv	1	6/15/2017 6:36:00 AM
Acetone	43	6.0		ppbv	20	6/9/2017 8:24:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Benzene	0.59	0.15		ppbv	1	6/15/2017 6:36:00 AM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Bromoform	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Bromomethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Carbon disulfide	0.32	0.15		ppbv	1	6/15/2017 6:36:00 AM
Carbon tetrachloride	0.080	0.040		ppbv	1	6/15/2017 6:36:00 AM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Chloroethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Chloroform	0.12	0.15	J	ppbv	1	6/15/2017 6:36:00 AM
Chloromethane	0.91	0.15		ppbv	1	6/15/2017 6:36:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Cyclohexane	0.42	0.15		ppbv	1	6/15/2017 6:36:00 AM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Ethyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Qualifiers:						
**	Quantitation Limit					Results reported are not blank corrected
B	Analyte detected in the associated Method Blank					E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded					J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.					NID Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.

Client Sample ID: Elevator

Lab Order: C1706015

Tag Number: 131.455

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-005A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.28	TO-15		ppbv	1	Analyst: RJP 6/15/2017 6:36:00 AM
Freon 11	0.25	0.15		ppbv	1	6/15/2017 6:36:00 AM
Freon 113	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Freon 114	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Freon 12	0.51	0.15		ppbv	1	6/15/2017 6:36:00 AM
Heptane	0.35	0.15		ppbv	1	6/15/2017 6:36:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Hexane	0.95	0.15		ppbv	1	6/15/2017 6:36:00 AM
Isopropyl alcohol	42	3.0		ppbv	20	6/9/2017 8:24:00 AM
m&p-Xylene	1.2	0.30		ppbv	1	6/15/2017 6:36:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 6:36:00 AM
Methyl Ethyl Ketone	3.2	3.0		ppbv	10	6/9/2017 3:50:00 AM
Methyl Isobutyl Ketone	0.19	0.30	J	ppbv	1	6/15/2017 6:36:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Methylene chloride	1.9	1.5		ppbv	10	6/9/2017 3:50:00 AM
o-Xylene	0.47	0.15		ppbv	1	6/15/2017 6:36:00 AM
Propylene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Styrene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Tetrahydrofuran	0.49	0.15		ppbv	1	6/15/2017 6:36:00 AM
Toluene	2.0	0.15		ppbv	1	6/15/2017 6:36:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Trichloroethene	0.29	0.040		ppbv	1	6/15/2017 6:36:00 AM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/15/2017 6:36:00 AM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/15/2017 6:36:00 AM
Surf: Bromofluorobenzene	109	70-130		%REC	1	6/15/2017 6:36:00 AM

Quantifiers:

**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.

Client Sample ID: Elevator

Lab Order: C1706015

Tag Number: 131.455

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-005A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82	TO-15	ug/m3	1	Analyst: RJP 6/15/2017 6:36:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 6:36:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 6:36:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 6:36:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 6:36:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 6:36:00 AM
1,2,4-Trimethylbenzene	7.3	0.74		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 6:36:00 AM
1,3,5-Trimethylbenzene	3.5	0.74		ug/m3	1	6/15/2017 6:36:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 6:36:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 6:36:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 6:36:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 6:36:00 AM
2,2,4-trimethylpentane	1.2	0.70		ug/m3	1	6/15/2017 6:36:00 AM
4-ethyltoluene	1.4	0.74		ug/m3	1	6/15/2017 6:36:00 AM
Acetone	100	14		ug/m3	20	6/9/2017 8:24:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 6:36:00 AM
Benzene	1.9	0.48		ug/m3	1	6/15/2017 6:36:00 AM
Benzyl chloride	< 0.85	0.85		ug/m3	1	6/15/2017 6:36:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 6:36:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/15/2017 6:36:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 6:36:00 AM
Carbon disulfide	1.0	0.47		ug/m3	1	6/15/2017 6:36:00 AM
Carbon tetrachloride	0.50	0.25		ug/m3	1	6/15/2017 6:36:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 6:36:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 6:36:00 AM
Chloroform	0.59	0.73		ug/m3	1	6/15/2017 6:36:00 AM
Chloromethane	1.9	0.31		ug/m3	1	6/15/2017 6:36:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 6:36:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 6:36:00 AM
Cyclohexane	1.4	0.52		ug/m3	1	6/15/2017 6:36:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 6:36:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/15/2017 6:36:00 AM
Ethylbenzene	1.2	0.65		ug/m3	1	6/15/2017 6:36:00 AM
Freon 11	1.4	0.84		ug/m3	1	6/15/2017 6:36:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 6:36:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 6:36:00 AM
Quantifiers:	**	Quantitation Limit				Results reported are not blank corrected
B	Analyte detected in the associated Method Blank				E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded				J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.				NID	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-005A

Client Sample ID: Elevator
 Tag Number: 131.455
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.5	0.74	TO-15	ug/m3	1	Analyst: RJP 6/15/2017 6:36:00 AM
Heptane	1.4	0.61		ug/m3	1	6/15/2017 6:36:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 6:36:00 AM
Hexane	3.3	0.53		ug/m3	1	6/15/2017 6:36:00 AM
Isopropyl alcohol	100	7.4		ug/m3	20	6/9/2017 8:24:00 AM
m&p-Xylene	5.0	1.3		ug/m3	1	6/15/2017 6:36:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 6:36:00 AM
Methyl Ethyl Ketone	9.4	8.8		ug/m3	10	6/9/2017 3:50:00 AM
Methyl Isobutyl Ketone	0.78	1.2	J	ug/m3	1	6/15/2017 6:36:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 6:36:00 AM
Methylene chloride	6.6	5.2		ug/m3	10	6/9/2017 3:50:00 AM
o-Xylene	2.0	0.65		ug/m3	1	6/15/2017 6:36:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 6:36:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 6:36:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/15/2017 6:36:00 AM
Tetrahydrofuran	1.4	0.44		ug/m3	1	6/15/2017 6:36:00 AM
Toluene	7.5	0.57		ug/m3	1	6/15/2017 6:36:00 AM
trans-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	6/15/2017 6:36:00 AM
trans-1,3-Dichloropropene	< 0.66	0.66		ug/m3	1	6/15/2017 6:36:00 AM
Trichloroethene	1.6	0.21		ug/m3	1	6/15/2017 6:36:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 6:36:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 6:36:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 6:36:00 AM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Data File : C:\HPCHEM\1\DATA\AO061414.D
 Acq On : 15 Jun 2017 6:36 am
 Sample : C1706015-005A
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 15 07:03:57 2017

Vial: 33
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.57	128	34791	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.96	114	152431	1.00	ppb	0.00
50) Chlorobenzene-d5	16.83	117	138941	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	104908	1.09	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	109.00%

Target Compounds

3) Freon 12	4.56	85	114966	0.51	ppb	97
4) Chloromethane	4.72	50	37285	0.91	ppb	91
14) Freon 11	6.33	101	69404	0.25	ppb	98
15) Acetone	6.15	58	757601	34.49	ppb	#
17) Isopropyl alcohol	6.39	45	2400845	33.16	ppb	#
21) Methylene chloride	7.12	84	263296	7.82	ppb	#
23) Carbon disulfide	7.47	76	33434	0.32	ppb	95
28) Methyl Ethyl Ketone	8.85	72	45285	2.76	ppb	96
30) Hexane	9.62	57	40176	0.95	ppb	85
32) Chloroform	9.73	83	12912	0.12	ppb	96
33) Tetrahydrofuran	10.27	42	14517	0.49	ppb	85
37) Cyclohexane	11.87	56	18389	0.42	ppb	94
38) Carbon tetrachloride	11.72	117	11031	0.08	ppb	100
39) Benzene	11.52	78	60624	0.59	ppb	91
42) 2,2,4-trimethylpentane	12.84	57	33738	0.25	ppb	#
43) Heptane	13.15	43	16218	0.35	ppb	90
44) Trichloroethene	12.80	130	15700	0.29	ppb	92
51) Toluene	14.91	92	158606	2.00	ppb	87
52) Methyl Isobutyl Ketone	13.85	43	12243	0.19	ppb	86
58) Ethylbenzene	17.28	91	51418	0.28	ppb	99
59) m&p-xylene	17.46	91	188773	1.15	ppb	98
63) o-xylene	17.97	91	75419	0.47	ppb	95
69) 4-ethyltoluene	19.34	105	56059m	0.29	ppb	#
70) 1,3,5-trimethylbenzene	19.42	105	127573	0.71	ppb	100
71) 1,2,4-trimethylbenzene	19.91	105	249638	1.49	ppb	95
75) 1,2,3-trimethylbenzene	20.42	105	65721	0.40	ppb	89

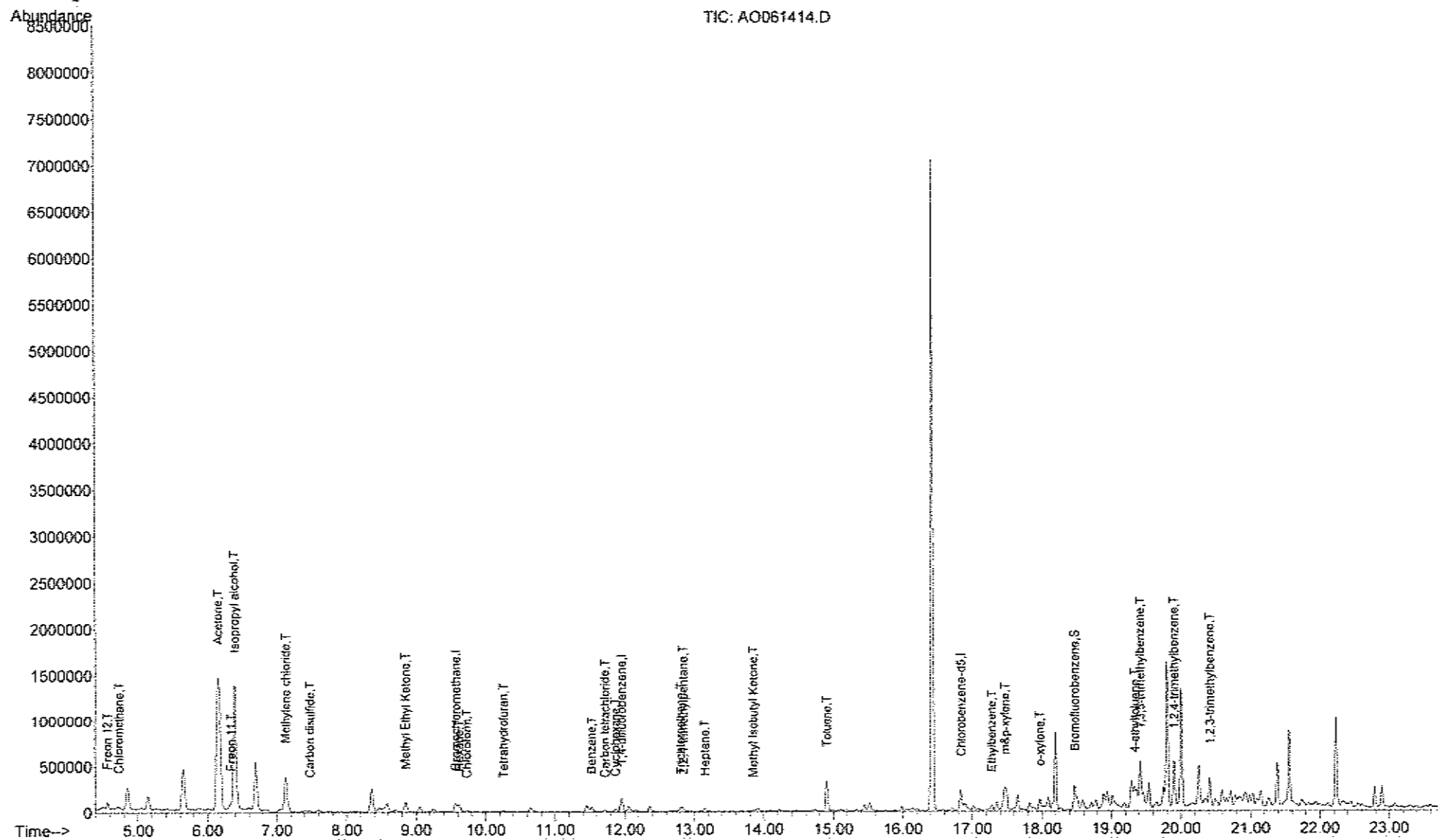
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO061414.D A605_1UG.M Thu Jun 29 10:08:47 2017 MSDI

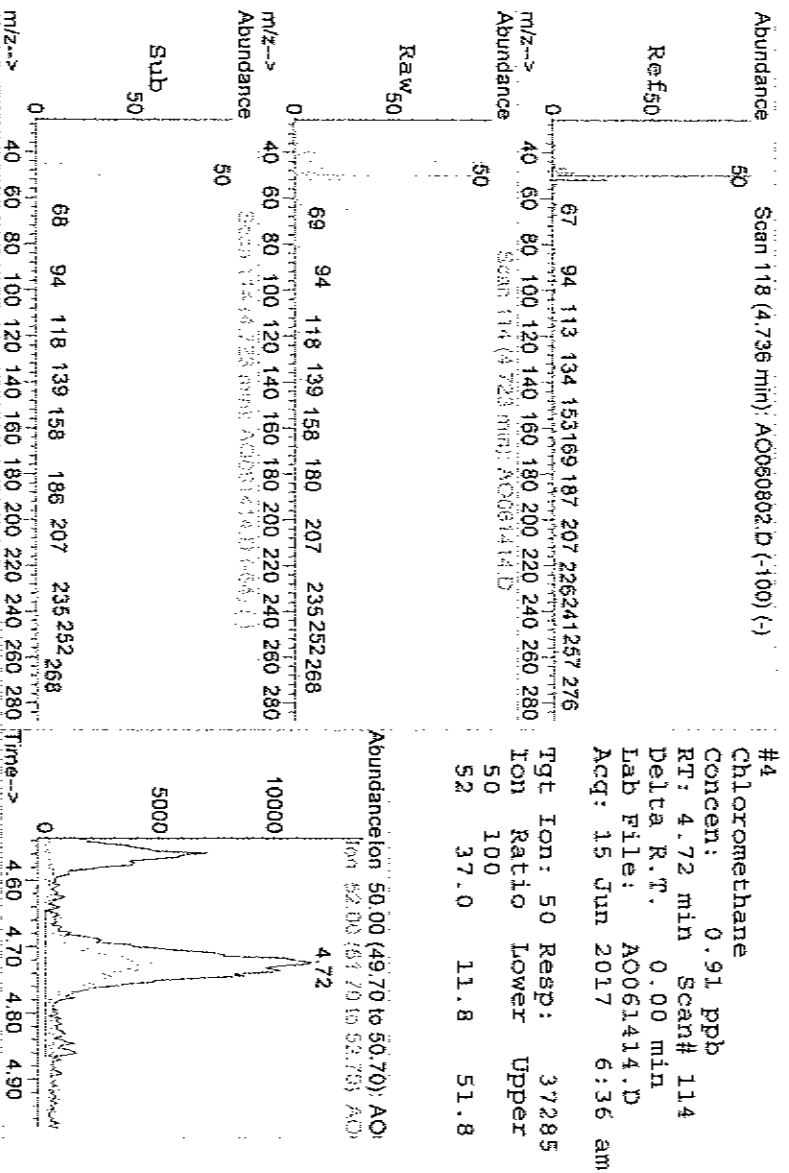
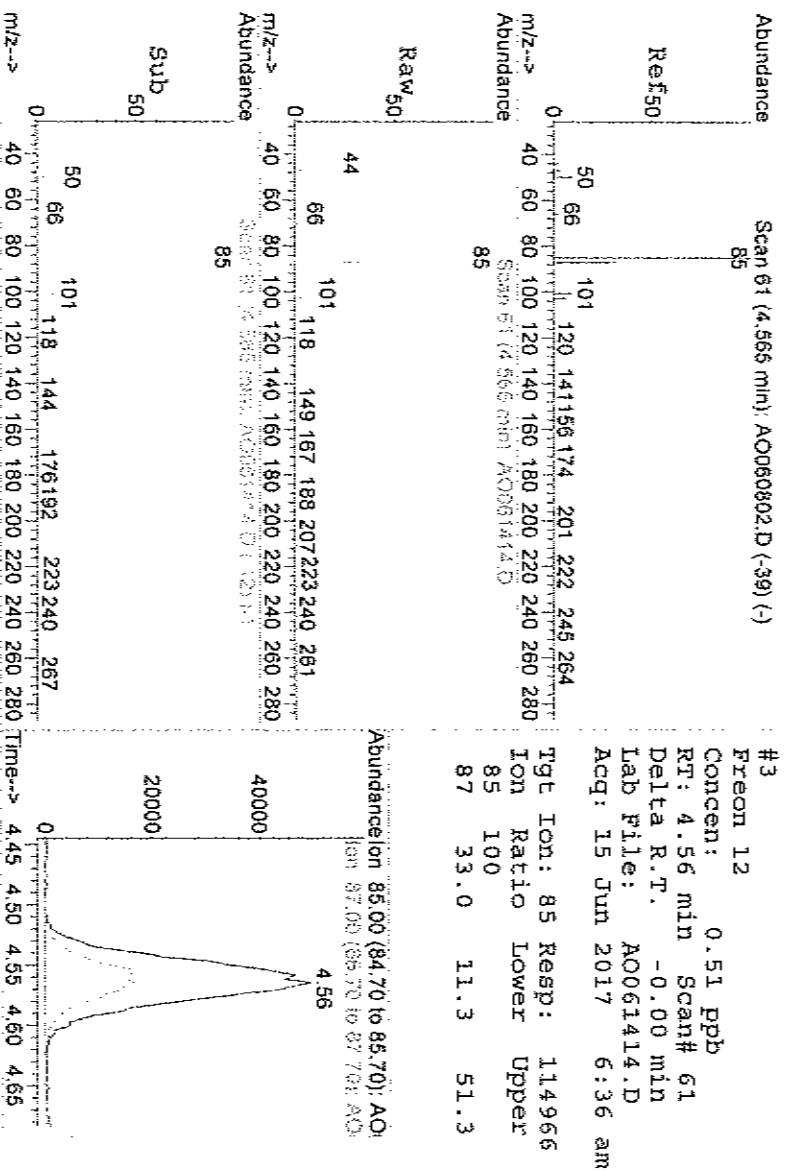
Data File : C:\HPCHEM\1\DATA\A0061414.D
Acq On : 15 Jun 2017 6:36 am
Sample : C1706015-005A
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 15 7:05 2017

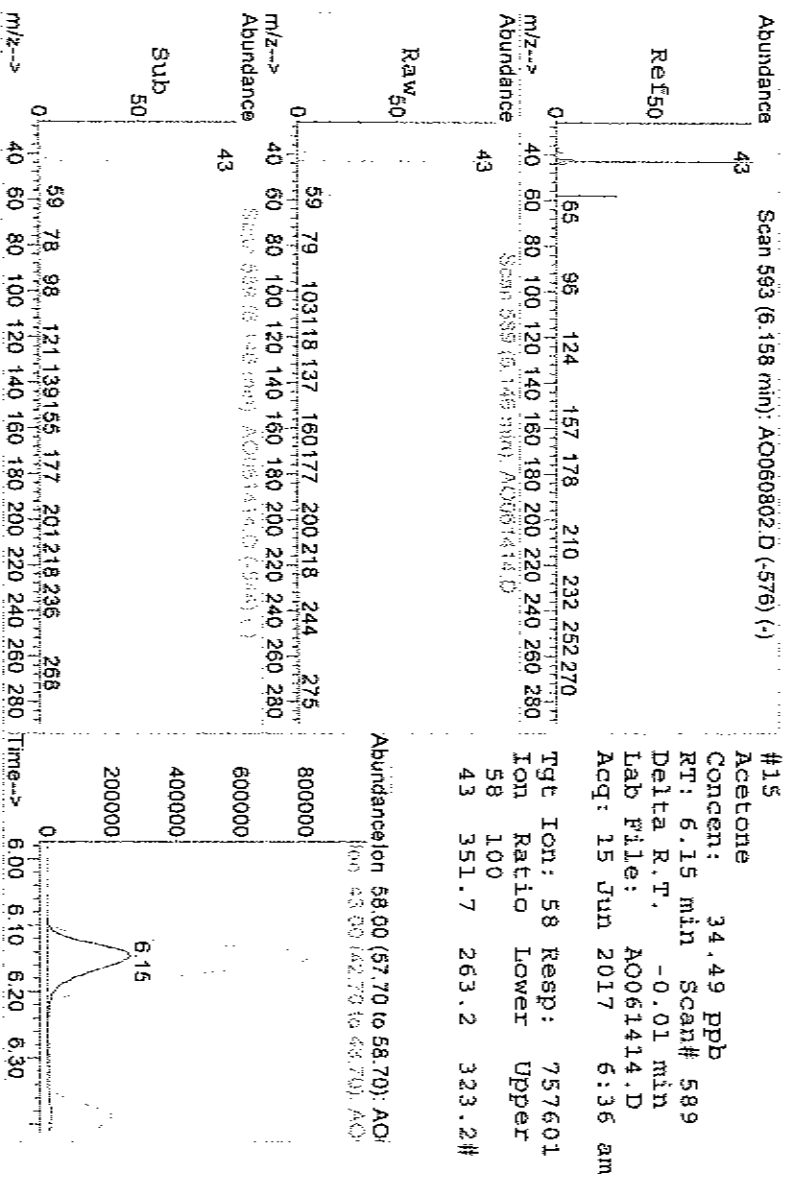
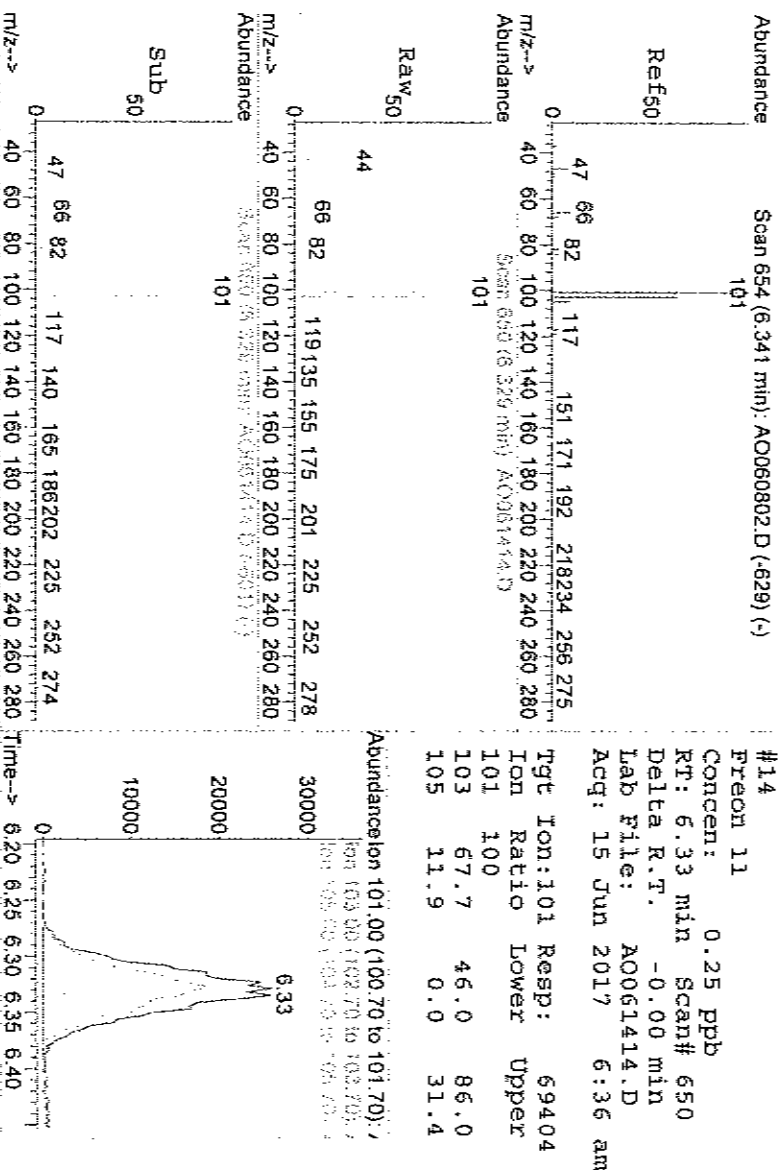
Vial: 33
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

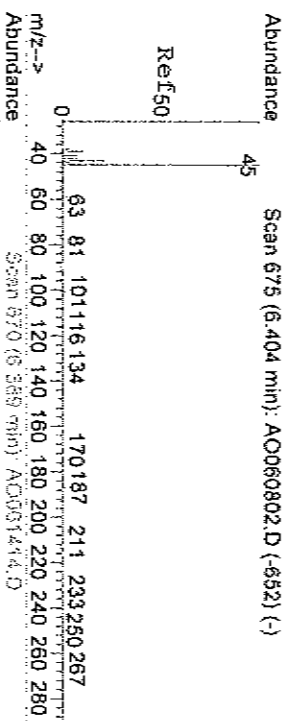
Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration



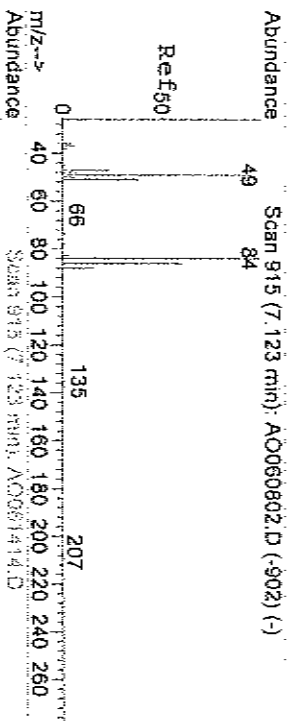
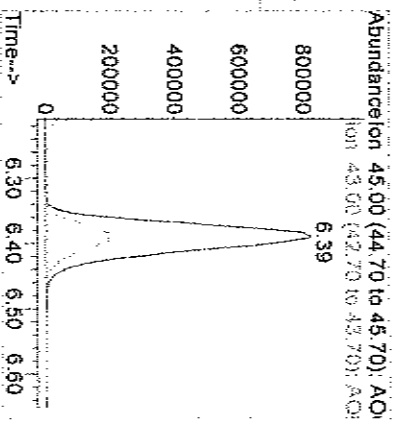
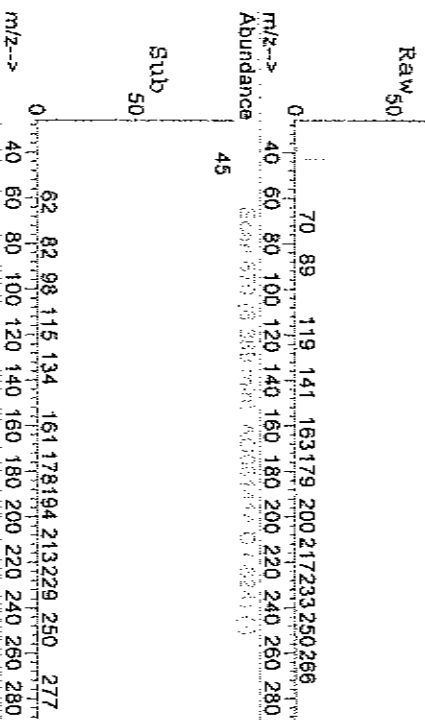






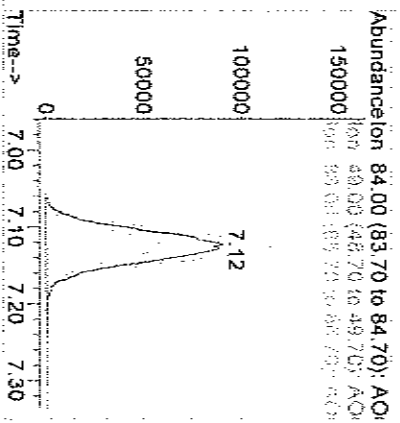
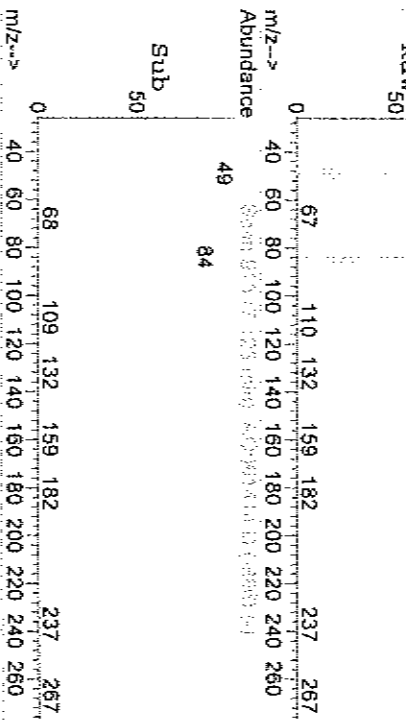
#17
Isopropyl alcohol
Concen: 33.16 ppb
RT: 6.39 min Scan# 670
Delta R.T. -0.01 min
Lab File: AO061414.D
Acq: 15 Jun 2017 6:36 am

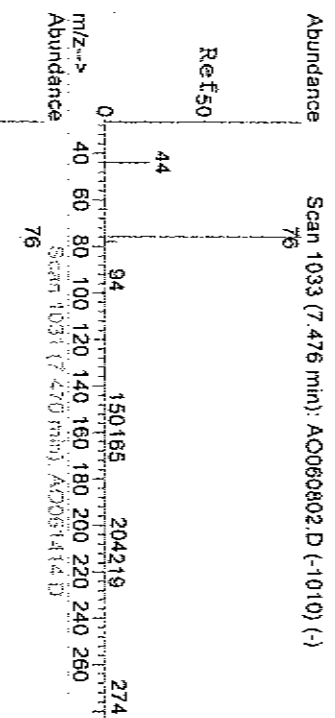
Tgt Ion: 45 Resp: 2400845
Ion Ratio Lower Upper
45 100
43 24.8 0.0 20.0#



#21
Methylene chloride
Concen: 7.82 ppb
RT: 7.12 min Scan# 915
Delta R.T. -0.00 min
Lab File: AO061414.D
Acq: 15 Jun 2017 6:36 am

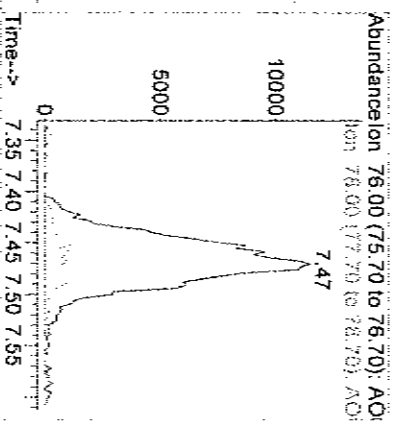
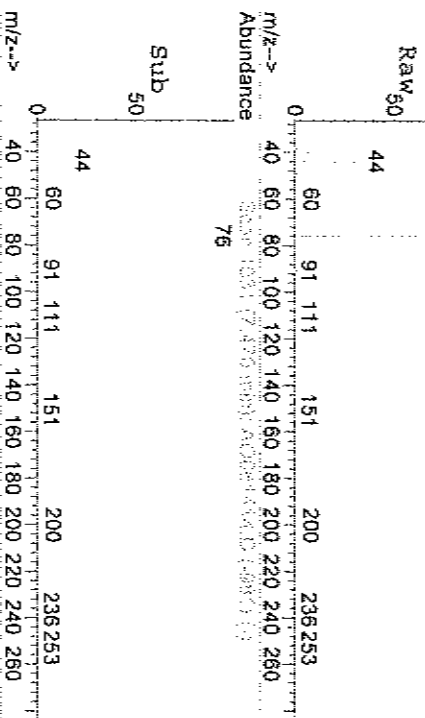
Tgt Ion: 84 Resp: 263296
Ion Ratio Lower Upper
84 100
49 129.9 86.2 126.2#
86 63.8 36.1 76.1



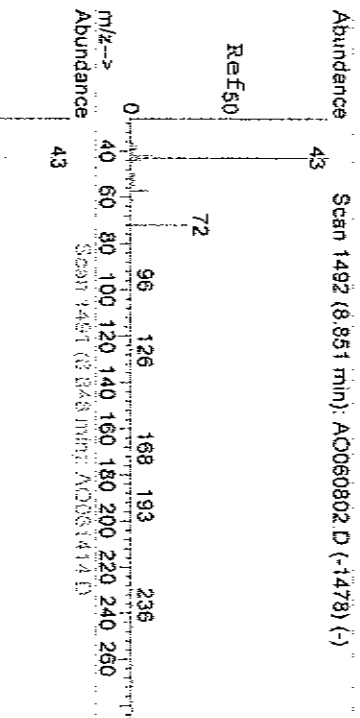


#23
Carbon disulfide
Concen: 0.32 ppb
RT: 7.47 min Scan# 1031
Delta R.T. 0.00 min
Lab File: A0061414.D
Acq: 15 Jun 2017 6:36 am

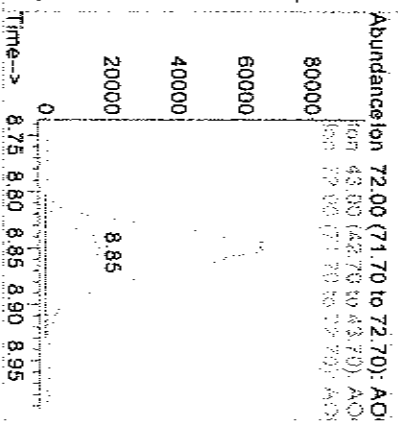
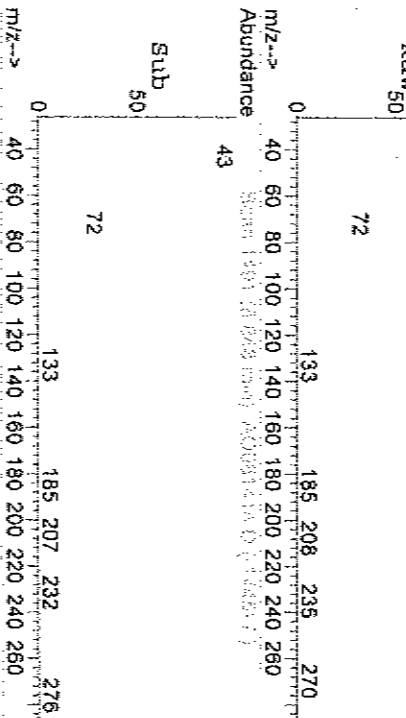
Tgt Ion: 76 Resp: 33434
Ion Ratio Lower Upper
76 100
78 8.6 0.0 26.8

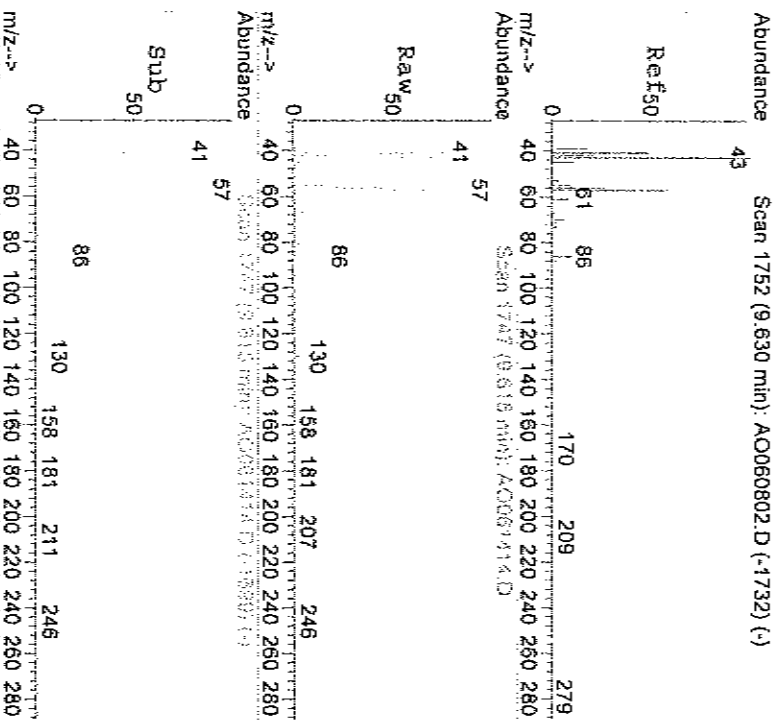


#28
Methyl Ethyl Ketone
Concen: 2.76 ppb
RT: 8.85 min Scan# 1491
Delta R.T. -0.01 min
Lab File: A0061414.D
Acq: 15 Jun 2017 6:36 am



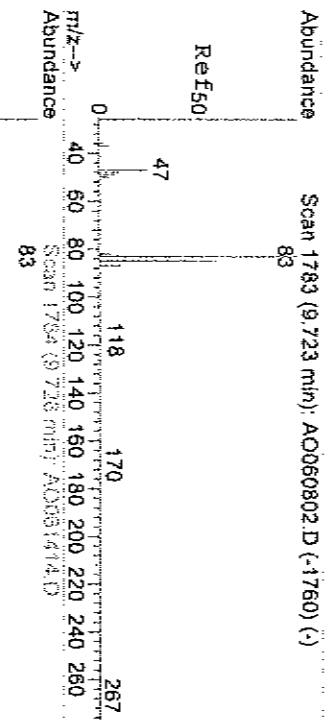
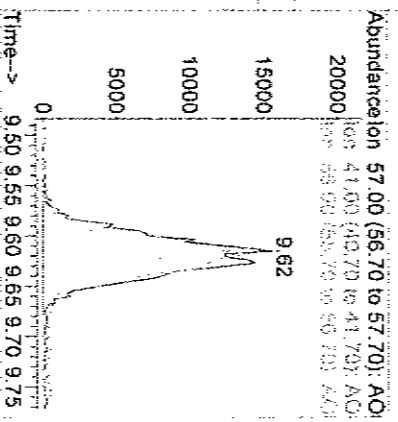
Tgt Ion: 72 Resp: 45285
Ion Ratio Lower Upper
72 100
43 414.1 383.1 423.1
72 100.0 80.0 120.0





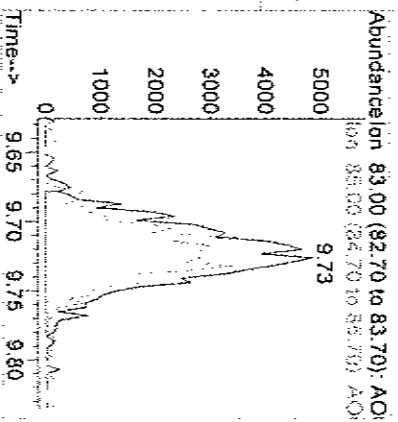
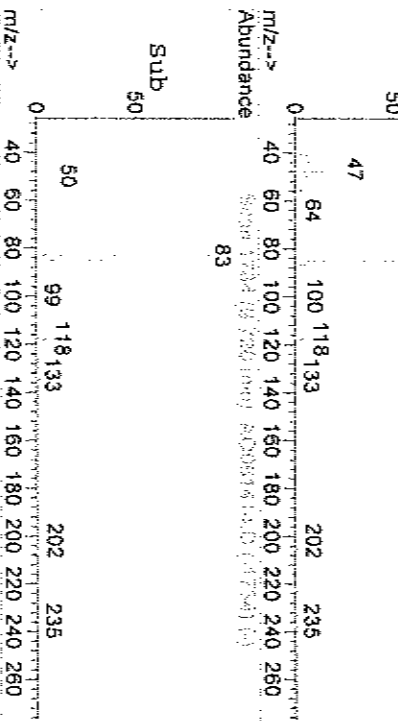
#30
Hexane
Concen: 0.95 ppb
RT: 9.62 min Scan# 1747
Delta R.T. -0.01 min
Lab File: A0061414.D
Acq: 15 Jun 2017 6:36 am

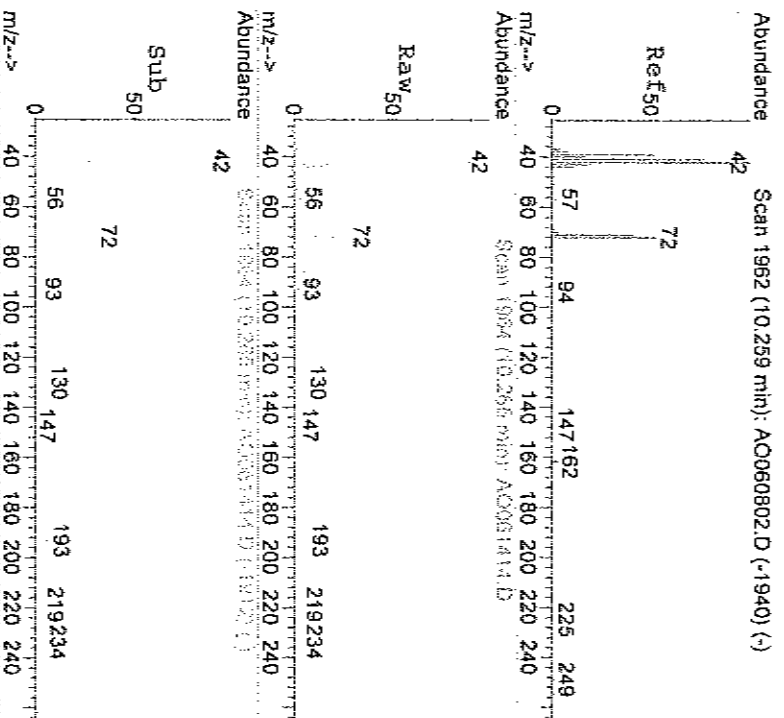
Tgt Ion: 57 Resp: 40176
Ion Ratio Lower Upper
57 100
41 95.2 57.7 97.7
56 55.0 41.0 81.0



#32
Chloroform
Concen: 0.12 ppb
RT: 9.73 min Scan# 1784
Delta R.T. 0.00 min
Lab File: A0061414.D
Acq: 15 Jun 2017 6:36 am

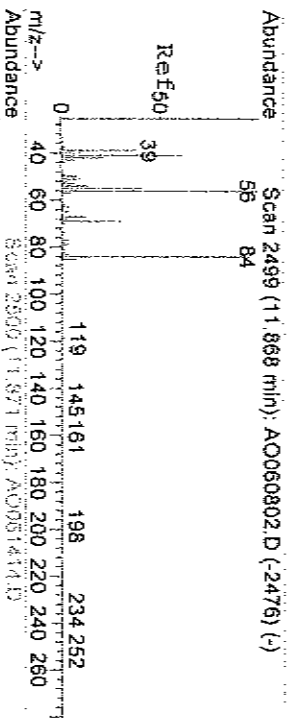
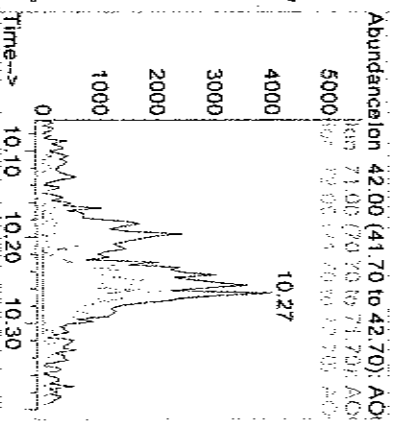
Tgt Ion: 83 Resp: 12912
Ion Ratio Lower Upper
83 100
85 66.7 43.7 83.7





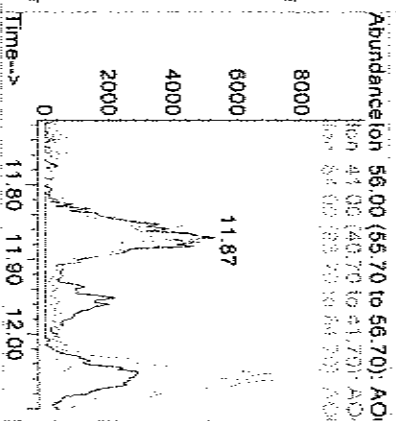
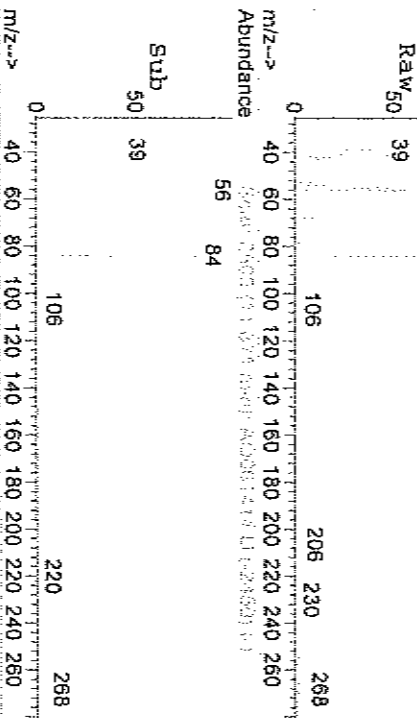
#33
tetrahydrofuran
Concen: 0.49 ppb
RT: 10.27 min Scan# 1964
Delta R.T. 0.01 min
Lab File: AO061414.D
Acq: 15 Jun 2017 6:36 am

Tgt Ion: 42 Resp: 14517
Ion Ratio Lower Upper
42 100
71 30.2 14.9 54.9
72 29.2 22.2 62.2

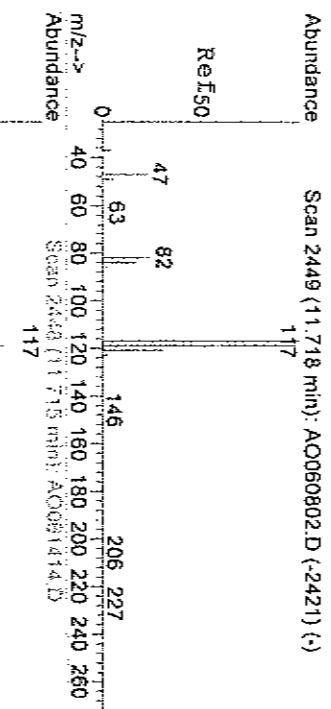


#37
Cyclohexane
Concen: 0.42 ppb
RT: 11.87 min Scan# 2500
Delta R.T. 0.00 min
Lab File: AO061414.D
Acq: 15 Jun 2017 6:36 am

Tgt Ion: 56 Resp: 18389
Ion Ratio Lower Upper
56 100
41 57.2 43.2 83.2
84 81.2 64.8 104.8

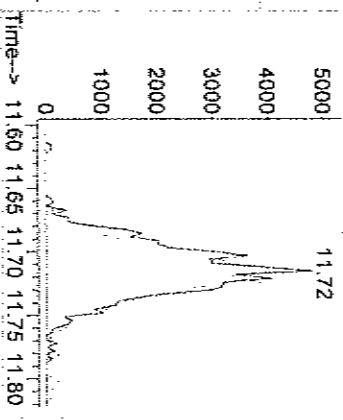
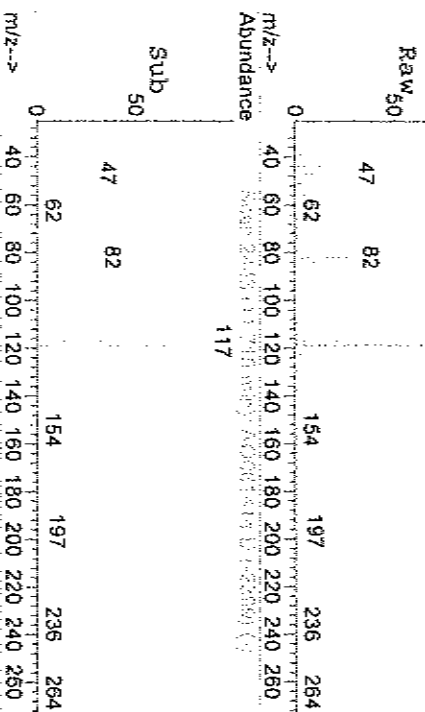


#38
Carbon tetrachloride
Concen: 0.08 ppb
RT: 11.72 min Scan# 2448
Delta R.T. -0.00 min
Lab File: AO061414.D
Acq: 15 Jun 2017 6:36 am

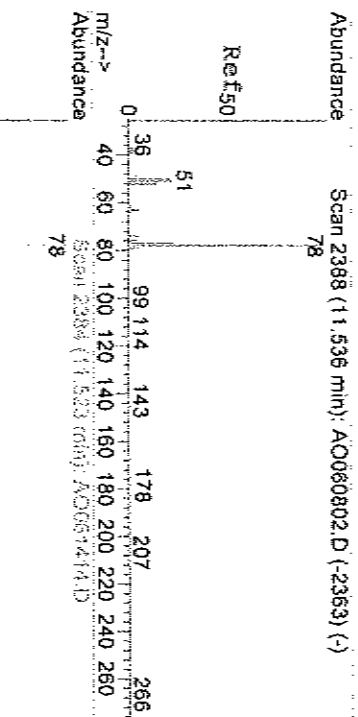


Tgt Ion: 117 Resp: 11031
Ion Ratio Lower Upper
117 100
119 95.1 74.9 114.9

Abundance Ion 117.00 (116.70 to 117.70):
Res 118.00 (118.70 to 119.70):

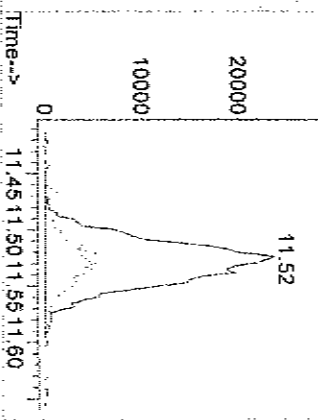
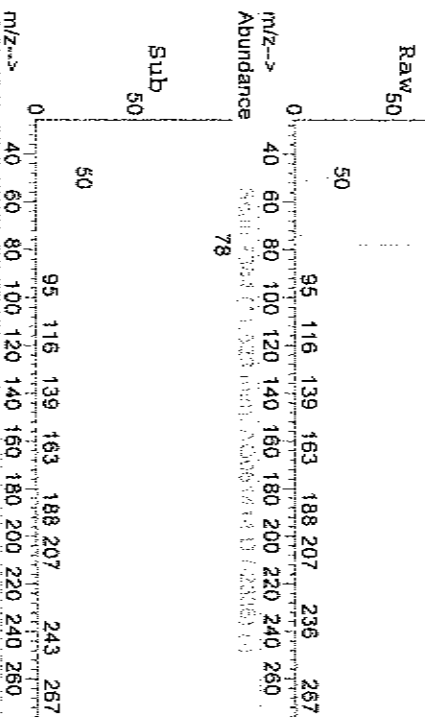


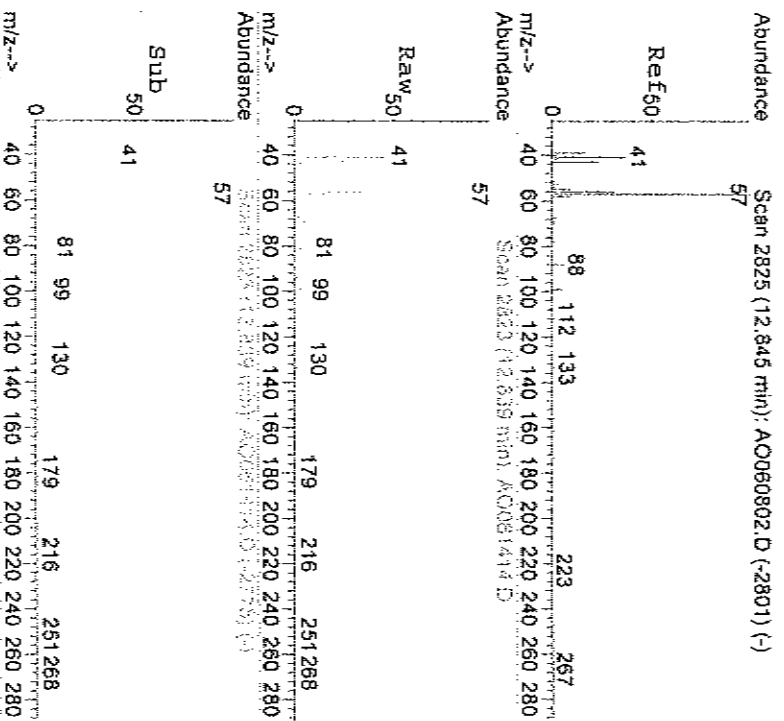
#39
Benzene
Concen: 0.59 ppb
RT: 11.52 min Scan# 2384
Delta R.T. -0.01 min
Lab File: AO061414.D
Acq: 15 Jun 2017 6:36 am



Tgt Ion: 78 Resp: 60624
Ion Ratio Lower Upper
78 100
77 22.7 0.0 39.9
51 21.5 0.0 35.8

Abundance Ion 78.00 (77.70 to 78.70): AO
Res 77.00 (78.70 to 77.70): AO
Res 79.00 (79.70 to 80.70): AO





#42

2,2,4-trimethylpentane

Concen: 0.25 ppb

RT: 12.84 min Scan# 2823

Delta R.T. -0.01 min

Lab File: AO061414.D

Acq: 15 Jun 2017 6:36 am

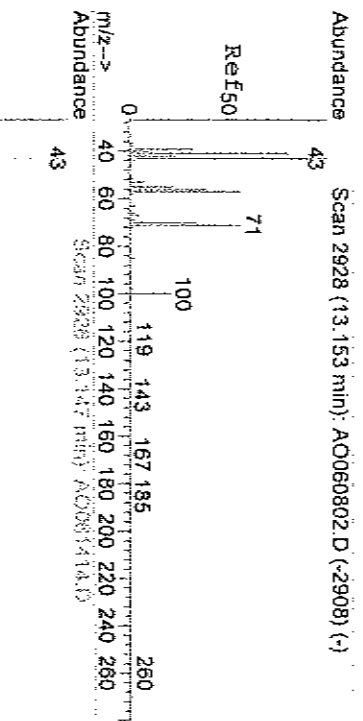
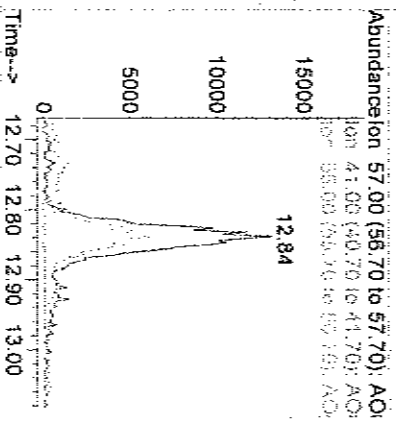
Tgt Ion: 57 Resp: 33738

Ion Ratio Lower Upper

57 100

41 44.2 6.1 46.1

56 52.2 7.8 47.8#



#43

Heptane

Concen: 0.35 ppb

RT: 13.15 min Scan# 2926

Delta R.T. -0.01 min

Lab File: AO061414.D

Acq: 15 Jun 2017 6:36 am

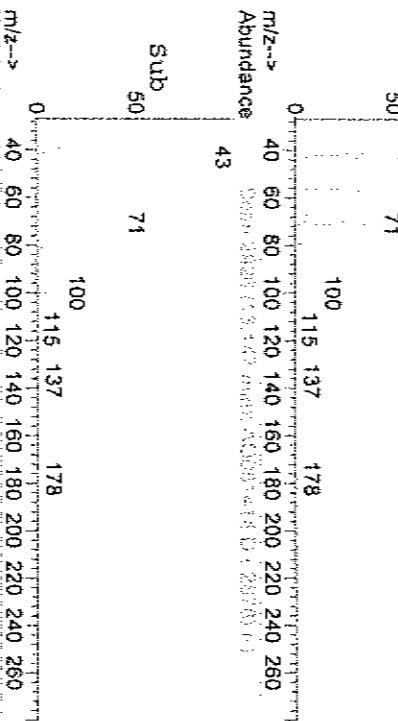
Tgt Ion: 43 Resp: 16218

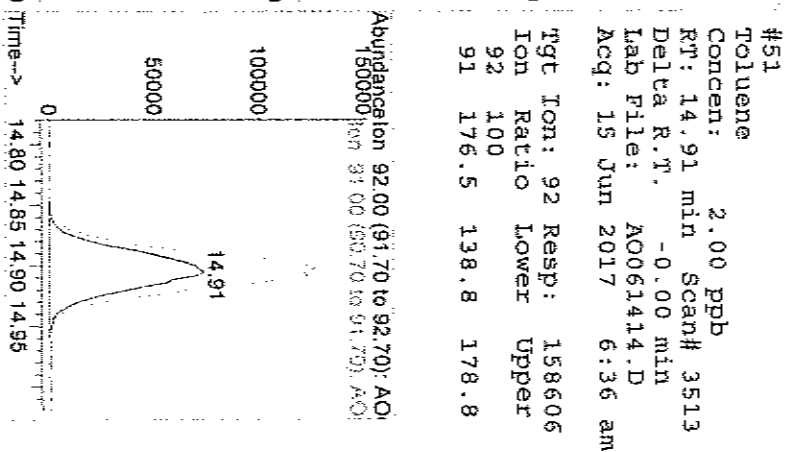
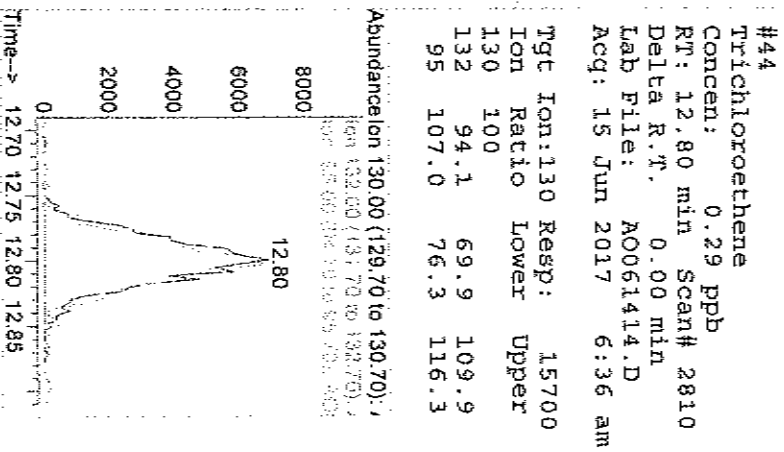
Ion Ratio Lower Upper

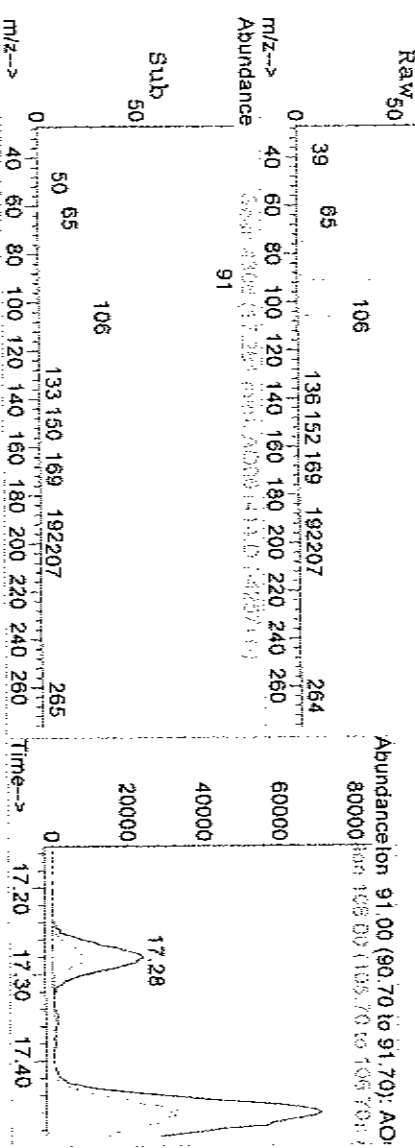
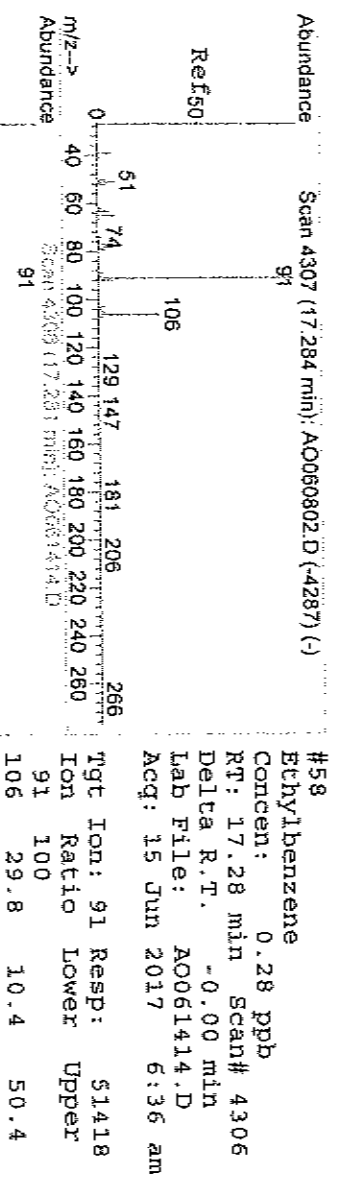
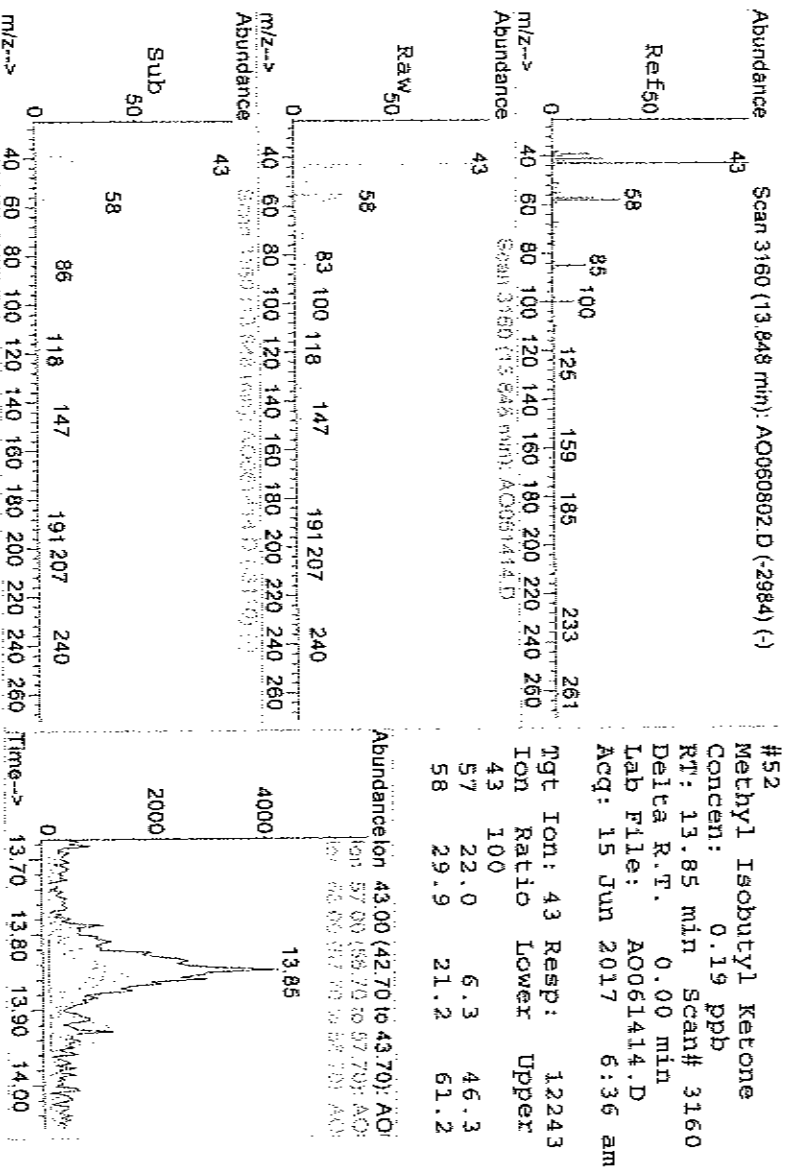
43 100

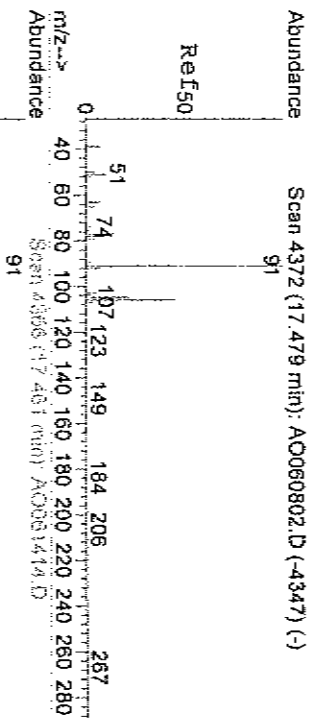
57 44.8 32.6 72.6

71 50.8 37.9 77.9



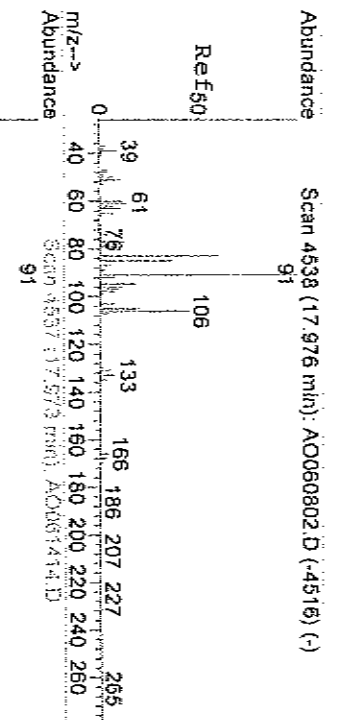
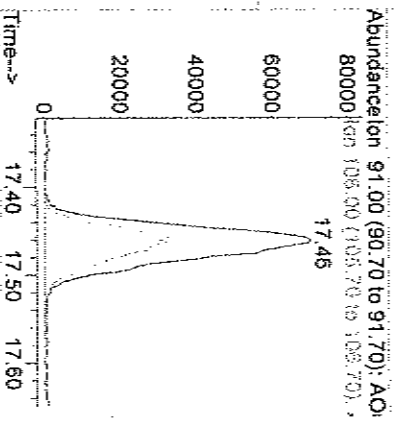
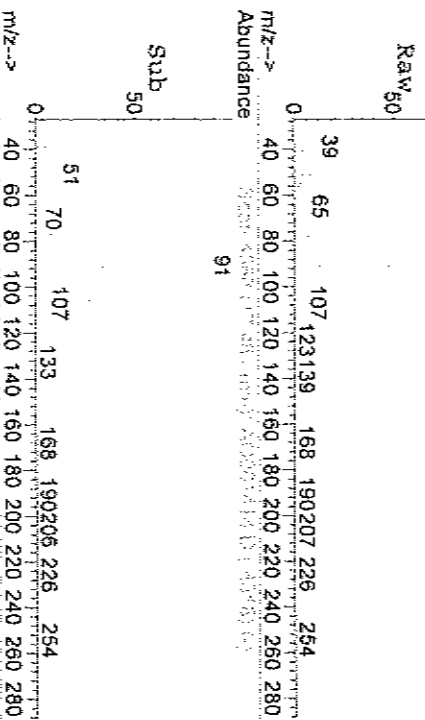






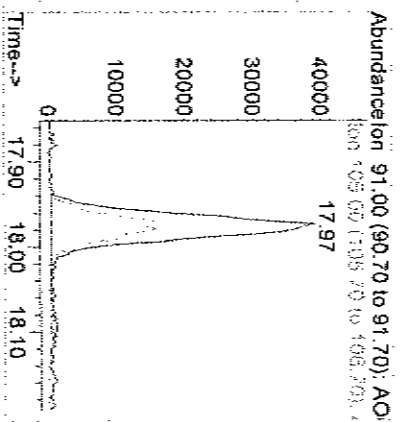
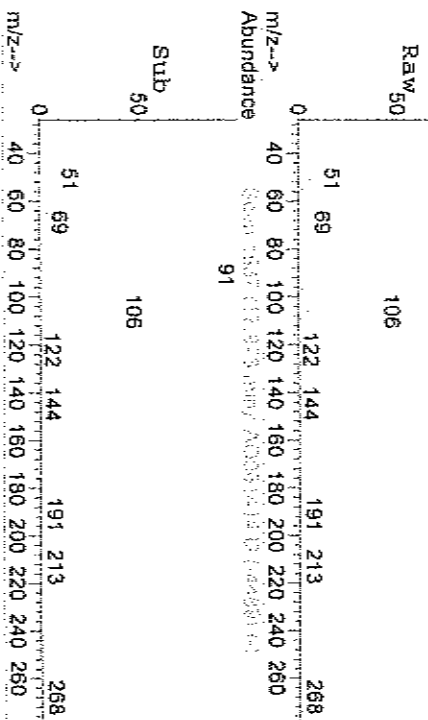
#59
m&p-xylene
Concen: 1.15 ppb
RT: 17.46 min Scan# 4366
Delta R.T. -0.01 min
Lab File: AO061414.D
Acq: 15 Jun 2017 6:36 am

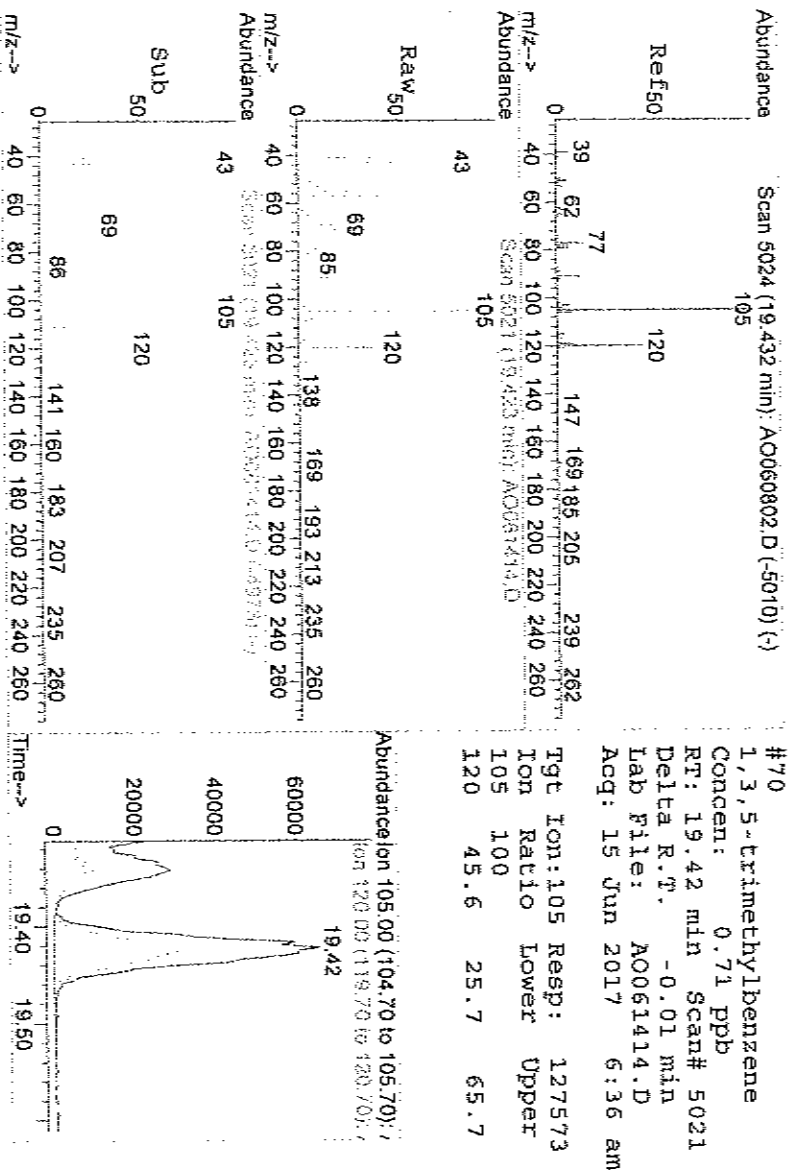
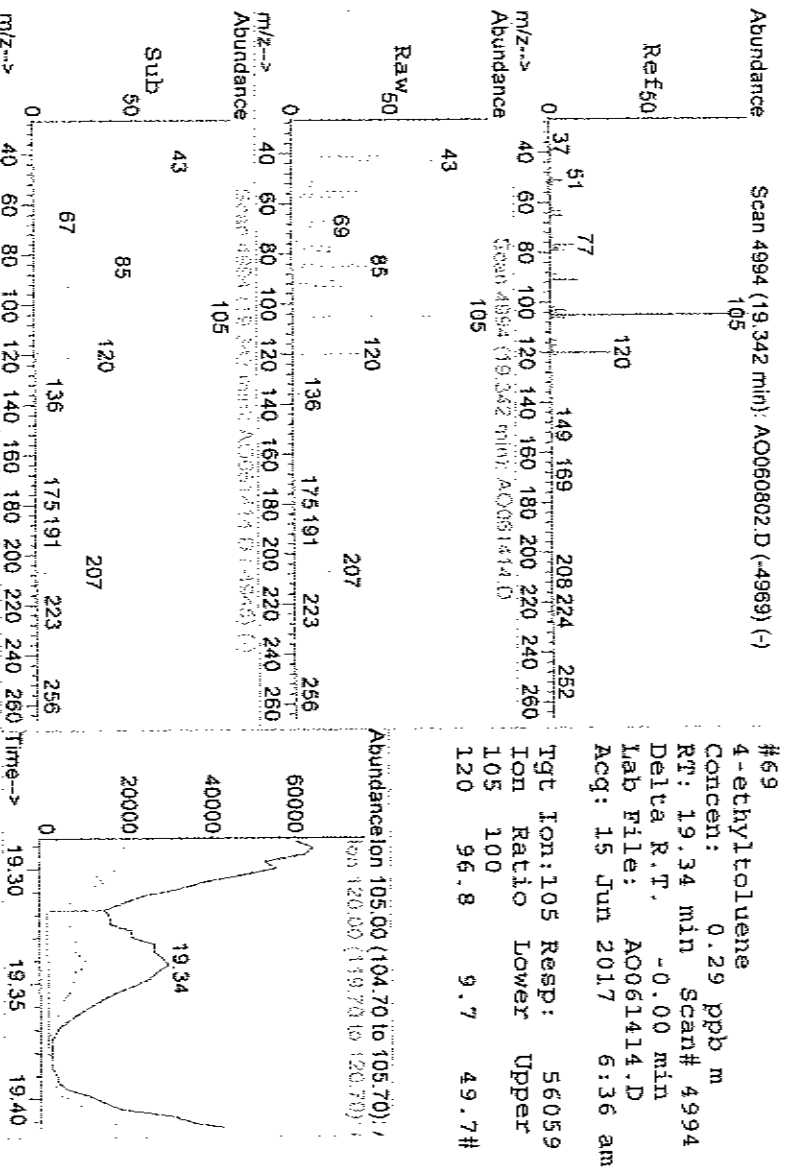
Tgt Ion: 91 Resp: 188773
Ion Ratio Lower Upper
91 100
106 45.0 23.5 63.5



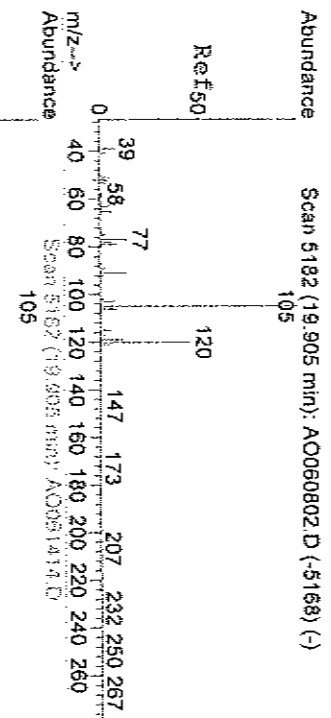
#63
o-xylene
Concen: 0.47 ppb
RT: 17.97 min Scan# 4537
Delta R.T. -0.01 min
Lab File: AO061414.D
Acq: 15 Jun 2017 6:36 am

Tgt Ion: 91 Resp: 75419
Ion Ratio Lower Upper
91 100
106 44.2 27.7 67.7

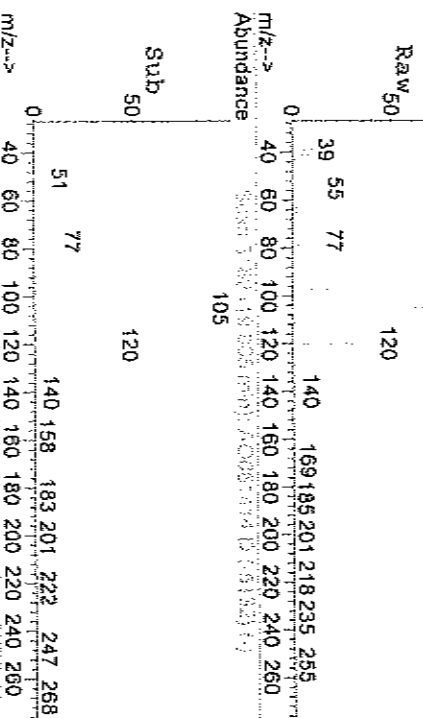




#71
1,2,4-trimethylbenzene
Concen: 1.49 ppb
RT: 19.91 min Scan# 5182
Delta R.T. 0.00 min
Lab File: AO061414.D
Acq: 15 Jun 2017 6:36 am

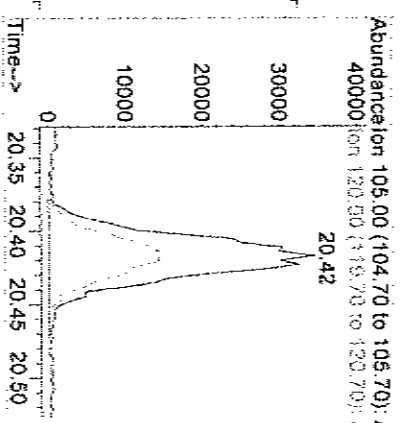
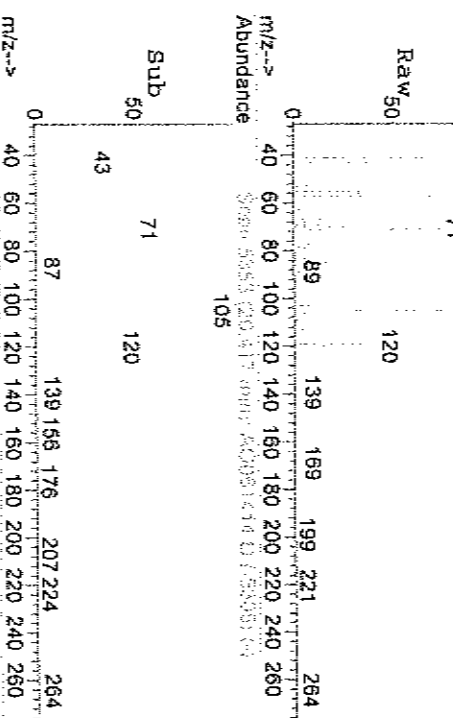


Tgt Ion: 105 Resp: 249638
Ion Ratio Lower Upper
105 100
120 43.7 20.3 60.3



#75
1,2,3-trimethylbenzene
Concen: 0.40 ppb
RT: 20.42 min Scan# 5353
Delta R.T. -0.01 min
Lab File: AO061414.D
Acq: 15 Jun 2017 6:36 am

Tgt Ion: 105 Resp: 65721
Ion Ratio Lower Upper
105 100
120 44.2 28.3 47.3



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AO060827.D Vial: 27
Acq On : 9 Jun 2017 3:50 am Operator: RJP
Sample : C1706015-005A 10X Inst : MSD #1
Misc : A605_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 07:24:42 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
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1) Bromochloromethane	9.57	128	30499	1.00 PPb	0.00
35) 1,4-difluorobenzene	11.97	114	133539	1.00 PPb	0.00
50) Chlorobenzene-d5	16.85	117	121291	1.00 PPb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.48	95	79218	0.94 PPb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery =	94.00%

Target Compounds

15) Acetone	6.17	58	85979	4.46 PPb	Qvalue # 63
17) Isopropyl alcohol	6.41	45	264451	4.17 PPb	# 100
21) Methylene chloride	7.14	84	5654	0.19 PPb	# 79
28) Methyl Ethyl Ketone	8.88	72	4559	0.32 PPb	# 1

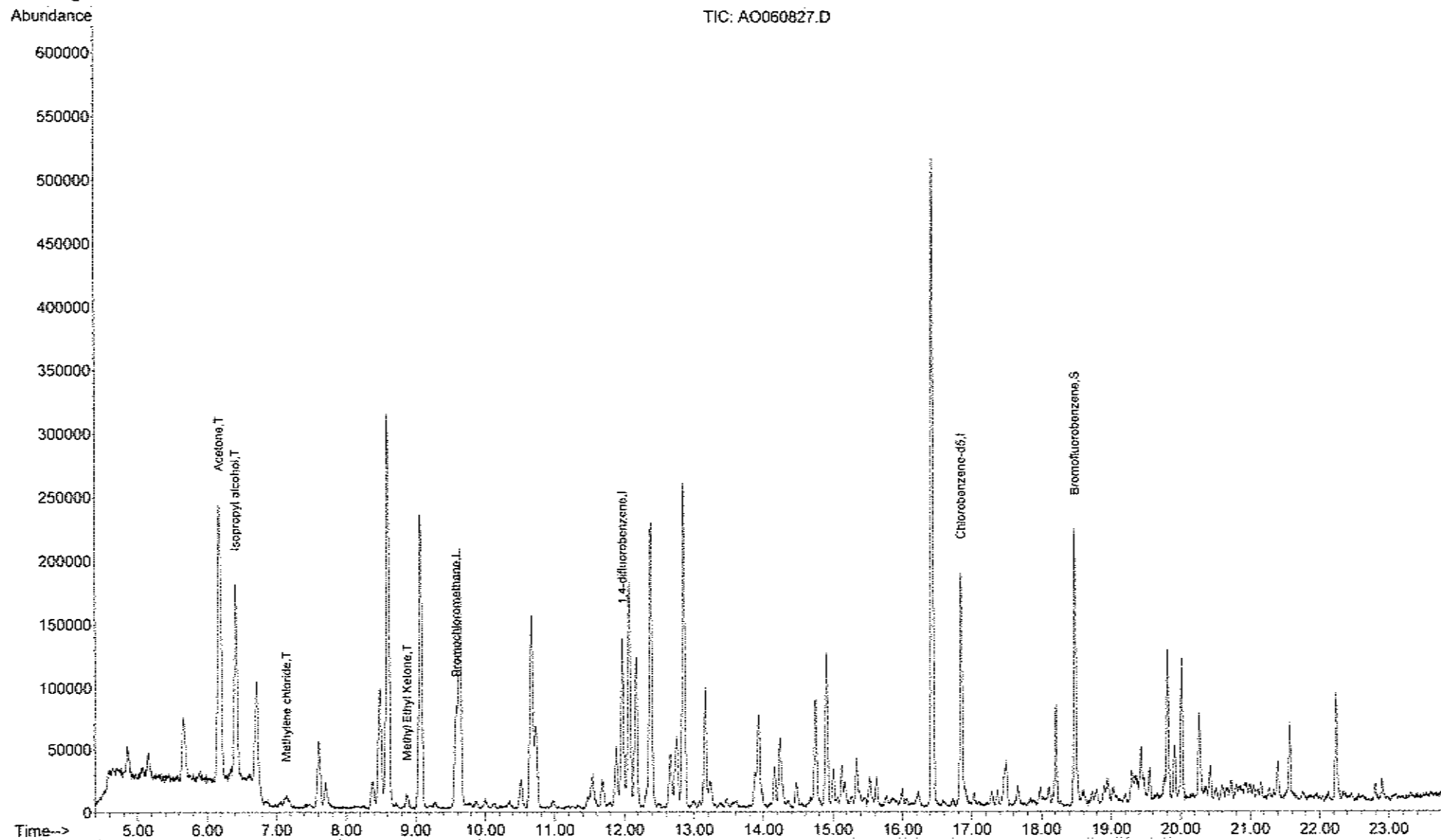
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO060827.D A605_1UG.M Thu Jun 29 10:08:04 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060827.D
Acq On : 9 Jun 2017 3:50 am
Sample : C1706015-005A 10X
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 15 11:05 2017

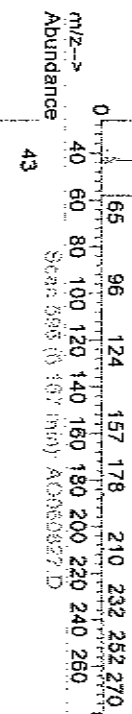
Vial: 27
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration

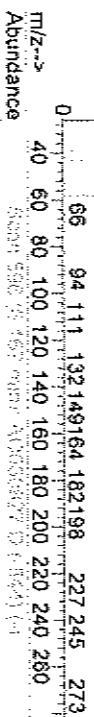


#15
Acetone
Concen: 4.46 ppb
RT: 6.17 min Scan# 596
Delta R.T. 0.01 min
Lab File: AO060827.D
Acq: 9 Jun 2017 3:50 am

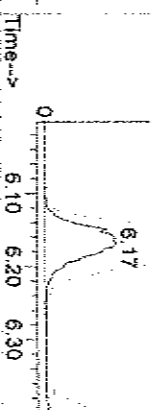


Tgt Ion: 58 Resp: 85979
Ion Ratio Lower Upper
58 100
43 365.6 263.2 323.2#

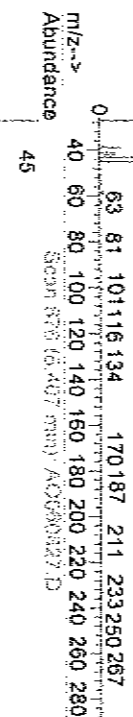
Raw



Abundance Ion 43.00 (42.70 to 43.70): AO

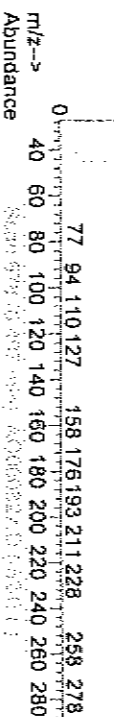


#17
Isopropyl alcohol
Concen: 4.17 ppb
RT: 6.41 min Scan# 676
Delta R.T. 0.01 min
Lab File: AO060827.D
Acq: 9 Jun 2017 3:50 am

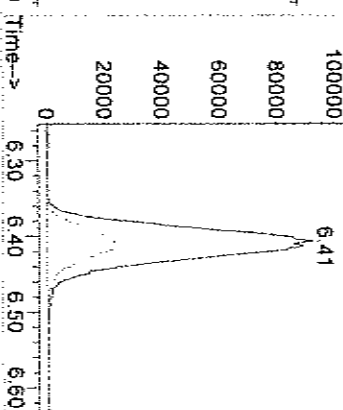
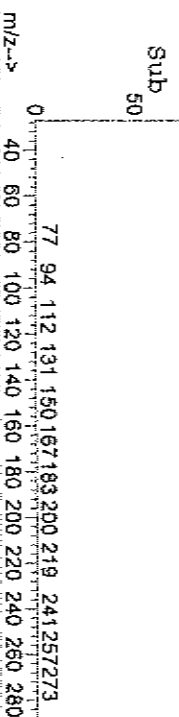


Tgt Ion: 45 Resp: 264451
Ion Ratio Lower Upper
45 100
43 27.7 0.0 20.0#

Raw



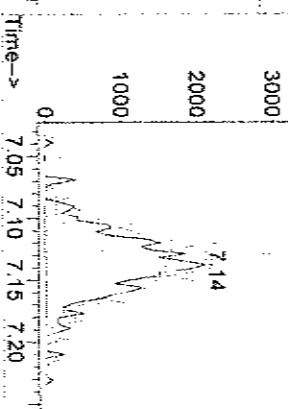
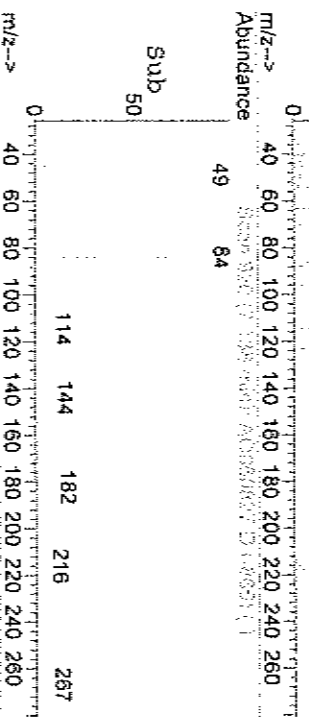
Abundance Ion 45.00 (44.70 to 45.70): AO



#21
Methylene chloride
Concen: 0.19 ppb
RT: 7.14 min Scan# 920
Delta R.T. 0.01 min
Lab File: AO060827.D
Acq: 9 Jun 2017 3:50 am

Tgt Ion: 84 Resp: 5654
Ion Ratio Lower Upper
84 100
49 128.4 86.2 126.2#
86 70.9 36.1 76.1

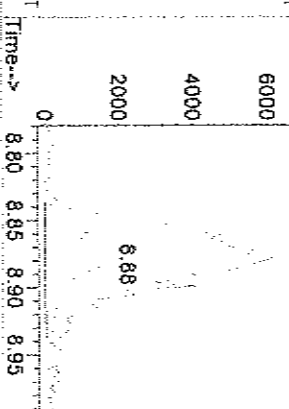
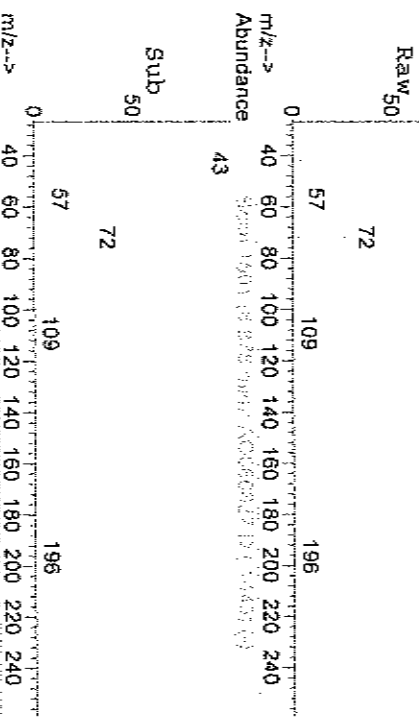
Abundance 84.00 (83.70 to 84.70): AO
Scan 920 (7.138 min): AO060827.D



#28
Methyl Ethyl Ketone
Concen: 0.32 ppb
RT: 8.88 min Scan# 1501
Delta R.T. 0.02 min
Lab File: AO060827.D
Acq: 9 Jun 2017 3:50 am

Tgt Ion: 72 Resp: 4559
Ion Ratio Lower Upper
72 100
43 0.0 383.1 423.1#
72 100.0 80.0 120.0

Abundance 72.00 (71.70 to 72.70): AO
Scan 1501 (8.873 min): AO060827.D



Scan 1501 (8.873 min): AO060827.D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060832.D Vial: 32
Acq On : 9 Jun 2017 8:24 am Operator: RJP
Sample : C1706015-005A 20X Inst : MSD #1
Misc : A605_1UG Multiplier: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 09:52:55 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 05 19:44:28 2017
Response via : Initial Calibration
DataAcq Mech : 1UG_RUN

Internal Standards	R.T. QIon		Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.57	128	29594	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.95	114	121669	1.00 ppb	0.00
50) Chlorobenzene-d5	16.84	117	112457	1.00 ppb	0.00
System Monitoring Compounds					
65) Bromofluorobenzene	18.47	95	71664	0.92 ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery =	92.00%
Target Compounds					
15) Acetone	6.16	58	40567	2.17 ppb	Qvalue 86
17) Isopropyl alcohol	6.41	45	129603	2.10 ppb	# 100

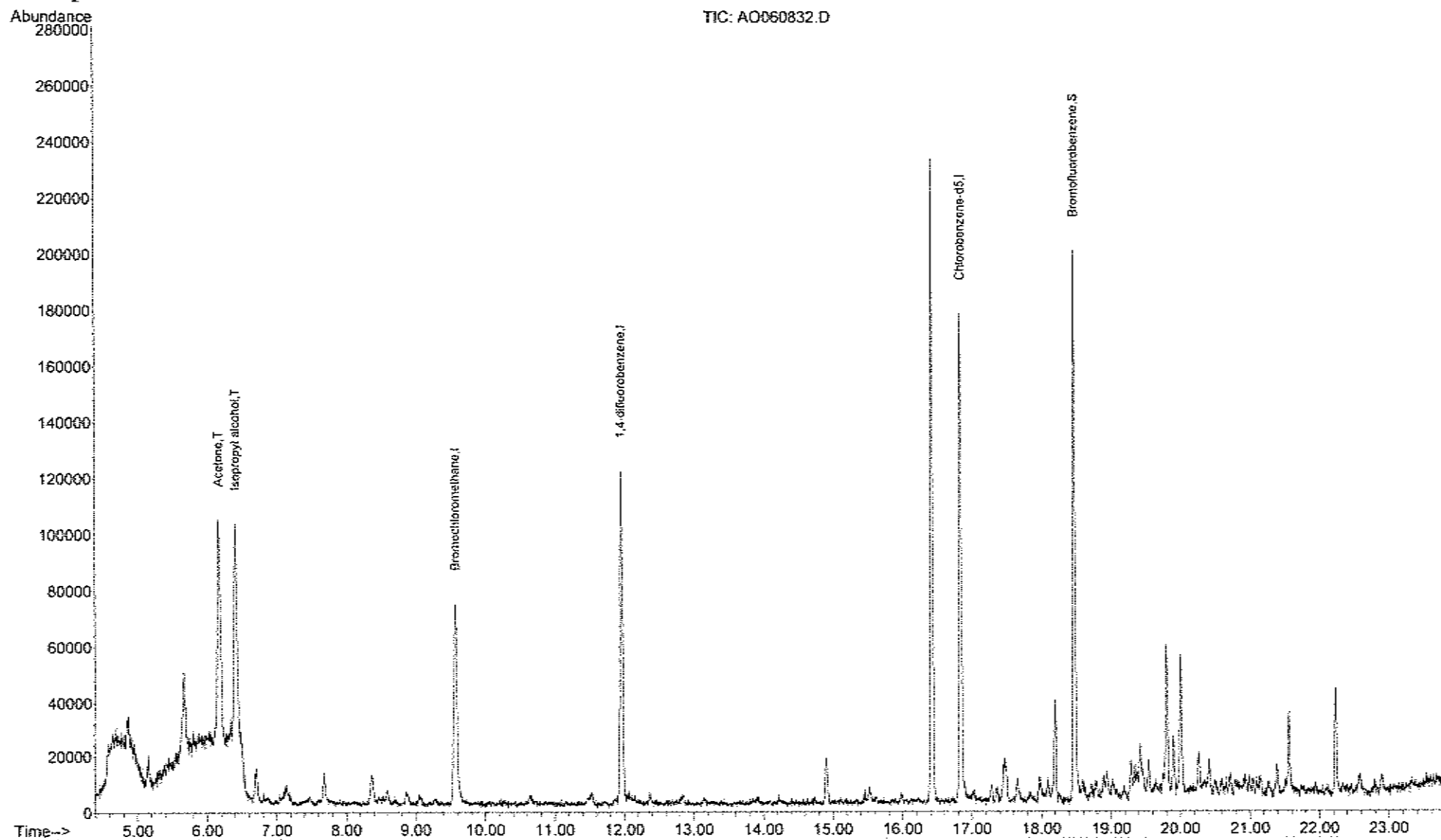
(#) = qualifier out of range (m) = manual integration (+) = signals summed
A0060832.D A605_1UG.M Thu Jun 29 10:08:29 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060832.D
Acq On : 9 Jun 2017 8:24 am
Sample : C1706015-005A 20X
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 15 11:09 2017

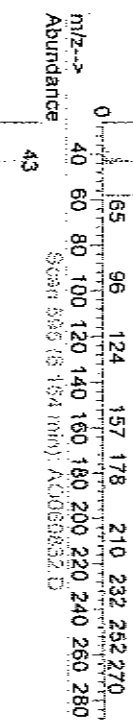
Vial: 32
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration

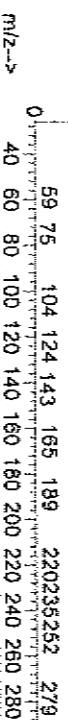
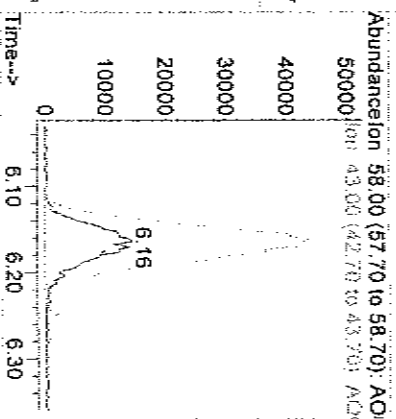
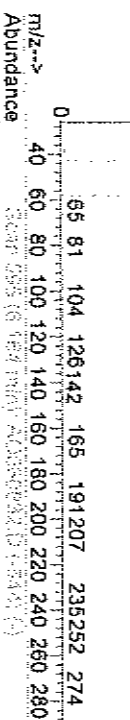


#15
Acetone
Concen: 2.17 ppb
RT: 6.16 min Scan# 595
Delta R.T. 0.00 min
Lab File: AO060832.D
Acq: 9 Jun 2017 8:24 am



Tgt Ion: 58 Resp: 40567
Ion Ratio Lower Upper
58 100
43 320.7 263.2 323.2

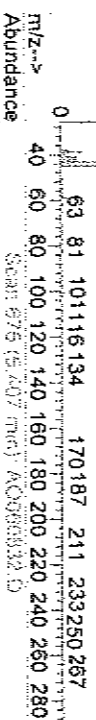
RAW



Abundance

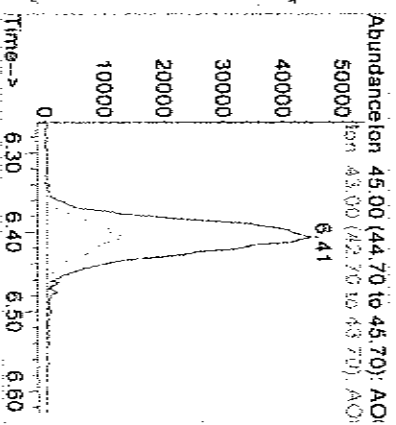
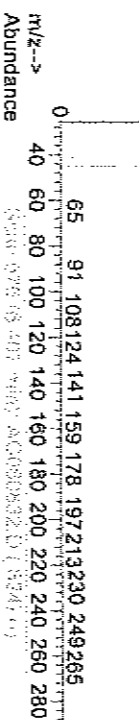
Scan 676 (6.404 min): AO060802.D (-652.0)

#17
Isopropyl alcohol
Concen: 2.10 ppb
RT: 6.41 min Scan# 676
Delta R.T. 0.01 min
Lab File: AO060832.D
Acq: 9 Jun 2017 8:24 am

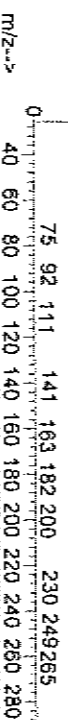


Tgt Ion: 45 Resp: 129603
Ion Ratio Lower Upper
45 100
43 30.0 0.0 20.0#

RAW



Sub



Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-006A

Client Sample ID: Roof
 Tag Number: 129.1160
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-6			FLD		Analyst:
Lab Vacuum Out	-30			"Hg		6/7/2017
				"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15		ppbv	1	Analyst: RJP 6/15/2017 7:18:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2,4-Trimethylbenzene	0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2-Dibromochloroethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/15/2017 7:18:00 AM
2,2,4-Trimethylpentane	0.43	0.15		ppbv	1	6/15/2017 7:18:00 AM
4-ethyltoluene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Acetone	30	3.0		ppbv	10	6/9/2017 4:28:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Benzene	0.35	0.15		ppbv	1	6/15/2017 7:18:00 AM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Bromoform	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Bromomethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Carbon disulfide	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Carbon tetrachloride	0.070	0.040		ppbv	1	6/15/2017 7:18:00 AM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Chloroethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Chloroform	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Chloromethane	0.75	0.15		ppbv	1	6/15/2017 7:18:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Cyclohexane	0.41	0.15		ppbv	1	6/15/2017 7:18:00 AM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Ethyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Qualifiers:	**	Quantitation Limit				Results reported are not blank corrected
B	Analyte detected in the associated Method Blank				E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded				J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.				ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LabBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-006A

Client Sample ID: Roof
 Tag Number: 129.1160
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	< 0.15	0.15	TO-15	ppbv	1	Analyst: RJP 6/15/2017 7:18:00 AM
Freon 11	0.21	0.15		ppbv	1	6/15/2017 7:18:00 AM
Freon 113	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Freon 114	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Freon 12	0.46	0.15		ppbv	1	6/15/2017 7:18:00 AM
Heptane	0.35	0.15		ppbv	1	6/15/2017 7:18:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Hexane	1.7	0.15		ppbv	1	6/15/2017 7:18:00 AM
Isopropyl alcohol	1.2	0.15		ppbv	1	6/15/2017 7:18:00 AM
m&p-Xylene	0.17	0.30	J	ppbv	1	6/15/2017 7:18:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 7:18:00 AM
Methyl Ethyl Ketone	0.52	0.30		ppbv	1	6/15/2017 7:18:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 7:18:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Methylene chloride	6.1	1.5		ppbv	10	6/9/2017 4:28:00 AM
o-Xylene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Propylene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Styrene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Toluene	0.86	0.15		ppbv	1	6/15/2017 7:18:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Trichloroethene	0.10	0.040		ppbv	1	6/15/2017 7:18:00 AM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/15/2017 7:18:00 AM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/15/2017 7:18:00 AM
Surf: Bromofluorobenzene	93.0	70-130		%REC	1	6/15/2017 7:18:00 AM

Qualifiers:	**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Date: 29-Jun-17

Centek Laboratories, LLC

CLIENT: Labella Associates, P.C.

Client Sample ID: Roof

Lab Order: C1706015

Tag Number: 129.1160

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-006A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82	TO-15	ug/m3	1	Analyst: RJP 6/15/2017 7:18:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 7:18:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 7:18:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 7:18:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 7:18:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 7:18:00 AM
1,2,4-Trimethylbenzene	0.74	0.74		ug/m3	1	6/15/2017 7:18:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 7:18:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 7:18:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 7:18:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 7:18:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/15/2017 7:18:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 7:18:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 7:18:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 7:18:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 7:18:00 AM
2,2,4-trimethylpentane	2.0	0.70		ug/m3	1	6/15/2017 7:18:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/15/2017 7:18:00 AM
Acetone	70	7.1		ug/m3	10	6/9/2017 4:28:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 7:18:00 AM
Benzene	1.1	0.48		ug/m3	1	6/15/2017 7:18:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 7:18:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 7:18:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/15/2017 7:18:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 7:18:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/15/2017 7:18:00 AM
Carbon tetrachloride	0.44	0.25		ug/m3	1	6/15/2017 7:18:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 7:18:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 7:18:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/15/2017 7:18:00 AM
Chloromethane	1.5	0.31		ug/m3	1	6/15/2017 7:18:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 7:18:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 7:18:00 AM
Cyclohexane	1.4	0.62		ug/m3	1	6/15/2017 7:18:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 7:18:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/15/2017 7:18:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/15/2017 7:18:00 AM
Freon 11	1.2	0.84		ug/m3	1	6/15/2017 7:18:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 7:18:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 7:18:00 AM
Quantifiers:	Results reported are not blank corrected					
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range			
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit			
IN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection			
S	Spike Recovery outside accepted recovery limits					

Page 11 of 16

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.

Client Sample ID: Roof

Lab Order: C1706015

Tag Number: 129.1160

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-006A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	2.3	0.74		ug/m3	1	6/15/2017 7:18:00 AM
Heptane	1.4	0.61		ug/m3	1	6/15/2017 7:18:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 7:18:00 AM
Hexane	6.1	0.53		ug/m3	1	6/15/2017 7:18:00 AM
Isopropyl alcohol	2.9	0.37		ug/m3	1	6/15/2017 7:18:00 AM
m&p-Xylene	0.74	1.3	J	ug/m3	1	6/15/2017 7:18:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 7:18:00 AM
Methyl Ethyl Ketone	1.5	0.88		ug/m3	1	6/15/2017 7:18:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 7:18:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 7:18:00 AM
Methylene chloride	21	5.2		ug/m3	10	6/9/2017 4:28:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	6/15/2017 7:18:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 7:18:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 7:18:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/15/2017 7:18:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/15/2017 7:18:00 AM
Toluene	3.2	0.57		ug/m3	1	6/15/2017 7:18:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 7:18:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 7:18:00 AM
Trichloroethene	0.54	0.21		ug/m3	1	6/15/2017 7:18:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 7:18:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 7:18:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 7:18:00 AM

Qualifiers:	**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Data File : C:\HPCHEM\1\DATA\AO061415.D
 Acq On : 15 Jun 2017 7:18 am
 Sample : C1706015-006A
 Misc : A605_IUG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 15 09:01:54 2017

Vial: 34
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_IUG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_IUG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : IUG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.56	128	34843	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.96	114	156350	1.00 ppb	0.00
50) Chlorobenzene-d5	16.84	117	136513	1.00 ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene 18.47 95 87590 0.93 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 93.00%

Target Compounds

					Qvalue
3) Freon 12	4.56	85	103065	0.46 ppb	94
4) Chloromethane	4.73	50	30940	0.75 ppb	92
14) Freon 11	6.32	101	57606	0.21 ppb	97
15) Acetone	6.15	58	201923	9.18 ppb	73
17) Isopropyl alcohol	6.40	45	84462	1.16 ppb	100
21) Methylene chloride	7.12	84	183262	5.43 ppb	81
28) Methyl Ethyl Ketone	8.86	72	8538	0.52 ppb	1
30) Hexane	9.62	57	73662	1.74 ppb	88
37) Cyclohexane	11.87	56	18383m	0.41 ppb	
38) Carbon tetrachloride	11.71	117	9561m	0.07 ppb	
39) Benzene	11.53	78	37124	0.35 ppb	86
42) 2,2,4-trimethylpentane	12.84	57	60916	0.43 ppb	59
43) Heptane	13.14	43	16422	0.35 ppb	96
44) Trichloroethene	12.79	130	5801	0.10 ppb	89
51) Toluene	14.90	92	66828	0.86 ppb	84
59) m&p-xylene	17.47	91	27788	0.17 ppb	89
60) Nonane	18.19	43	9725	0.14 ppb	87
71) 1,2,4-trimethylbenzene	19.91	105	23919	0.15 ppb	92

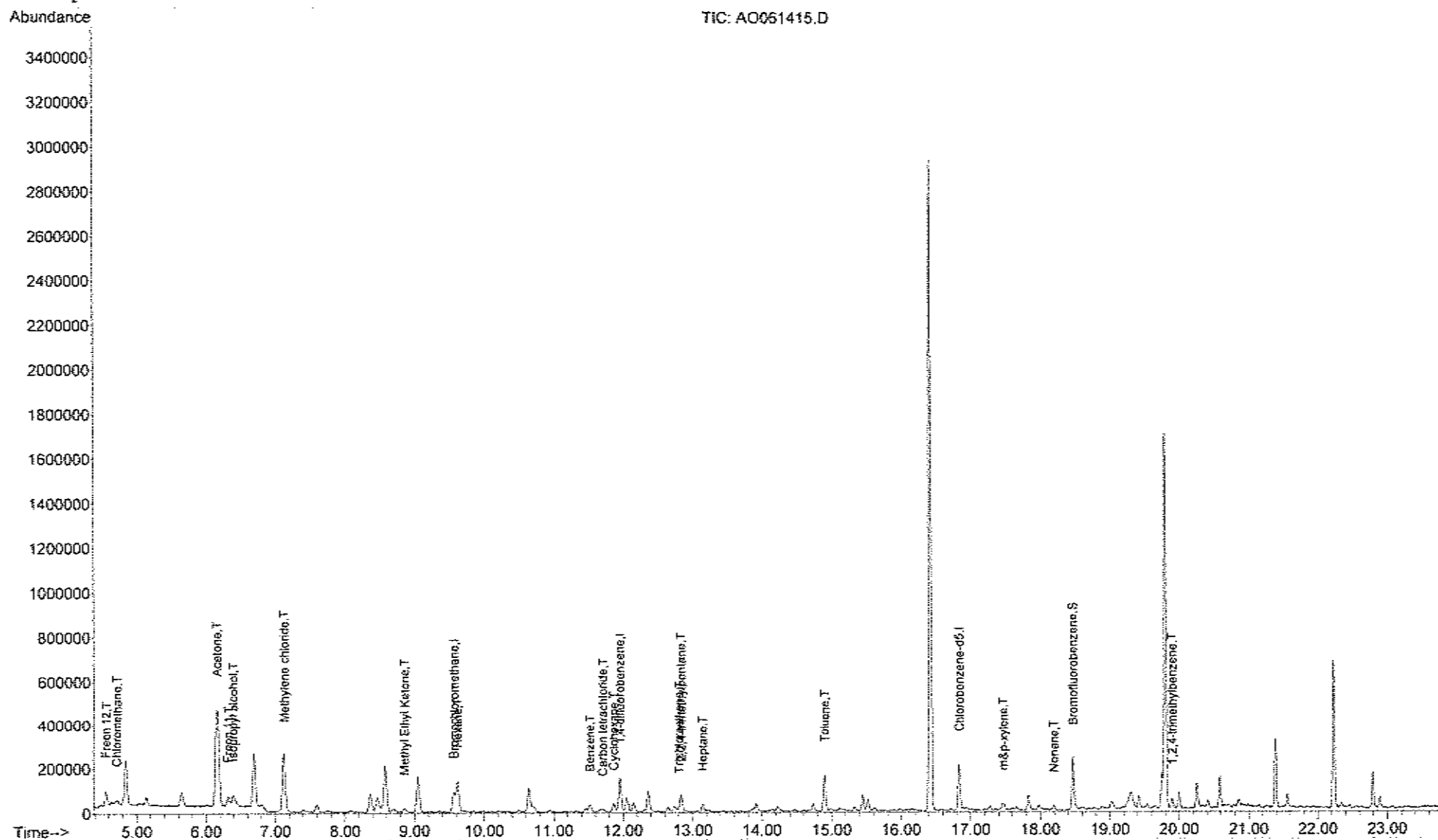
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO061415.D A605_IUG.M Thu Jun 29 10:09:04 2017 MSDI

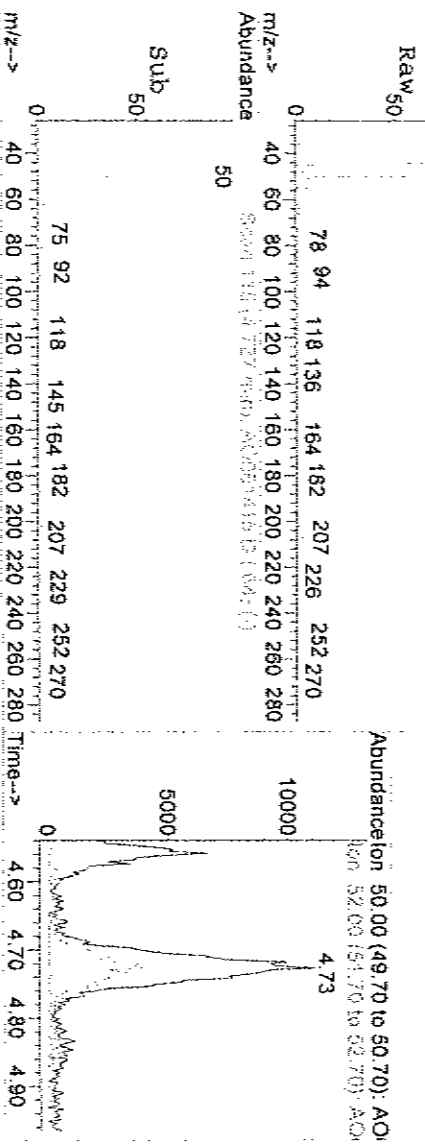
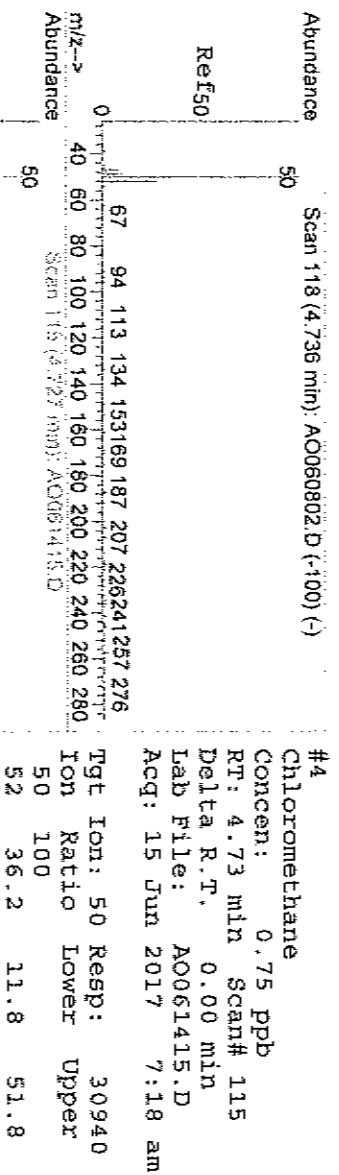
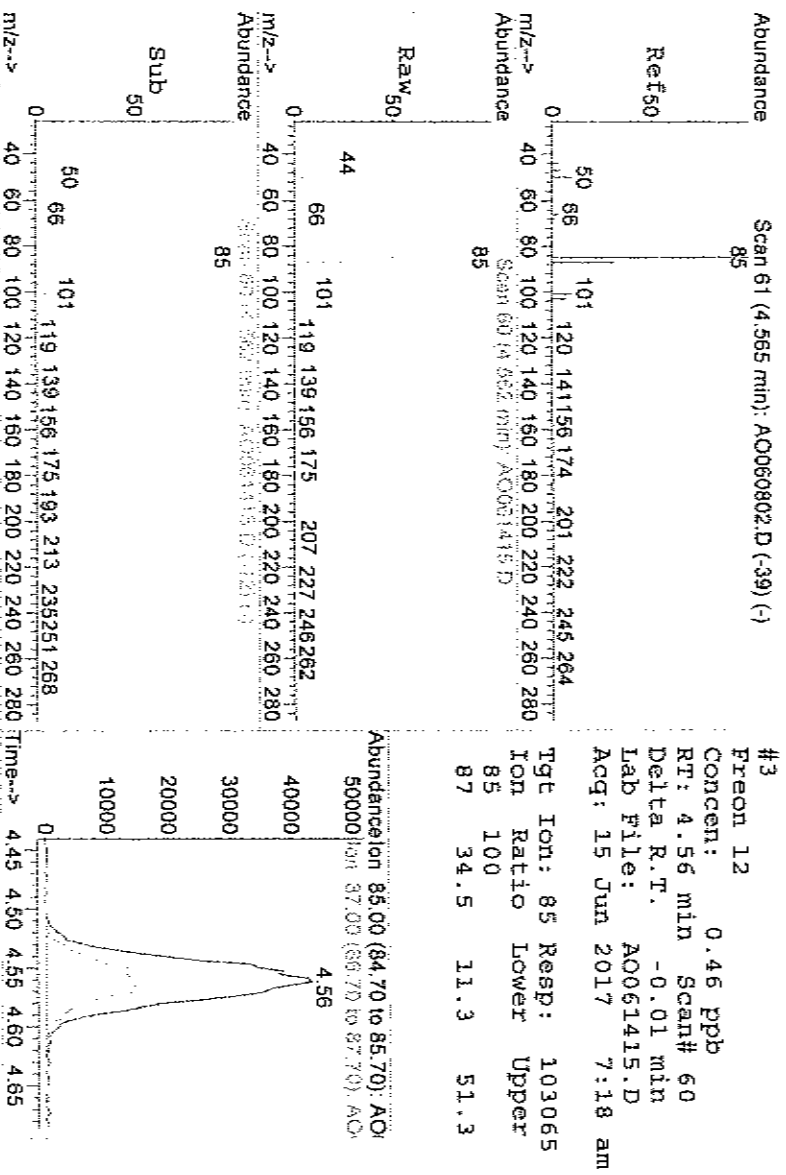
Data File : C:\HPCHEM\1\DATA\AO061415.D
Acq On : 15 Jun 2017 7:18 am
Sample : C1706015-006A
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 15 10:26 2017

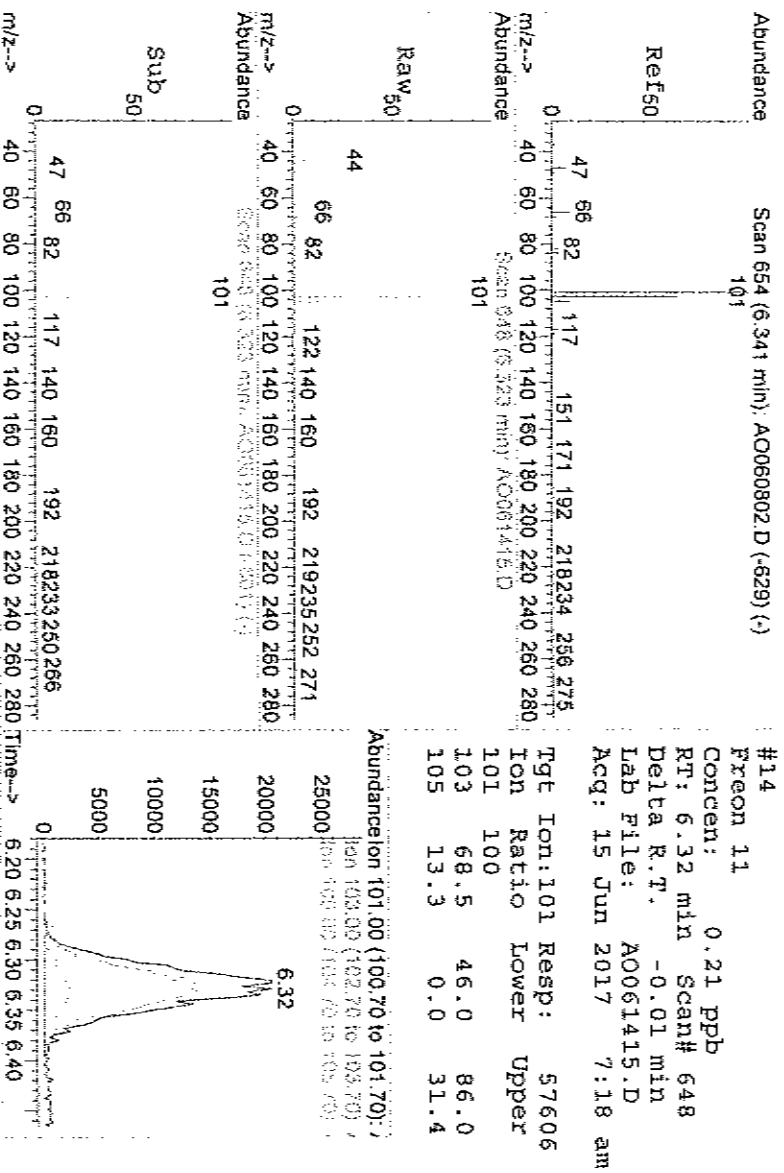
Vial: 34
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration







#14
Freon 11
Concen: 0.21 ppb
RT: 6.32 min Scan# 648
Delta R.T. -0.01 min
Lab File: AO061415.D
Acq: 15 Jun 2017 7:18 am

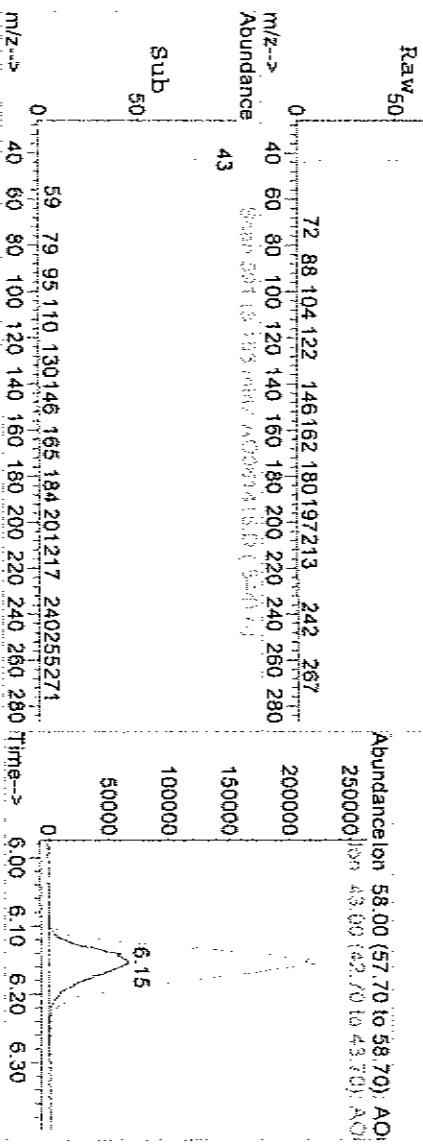
#15
Acetone
Concen: 9.18 ppb
RT: 6.15 min Scan# 591
Delta R.T. -0.01 min
Lab File: AO061415.D
Acq: 15 Jun 2017 7:18 am

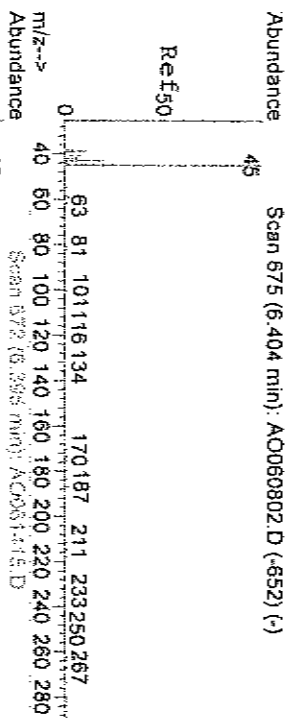
Tgt Ion: 58 Resp: 201923

Ion Ratio Lower Upper

58 100

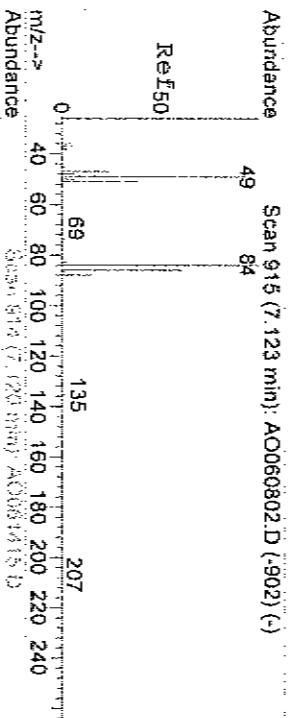
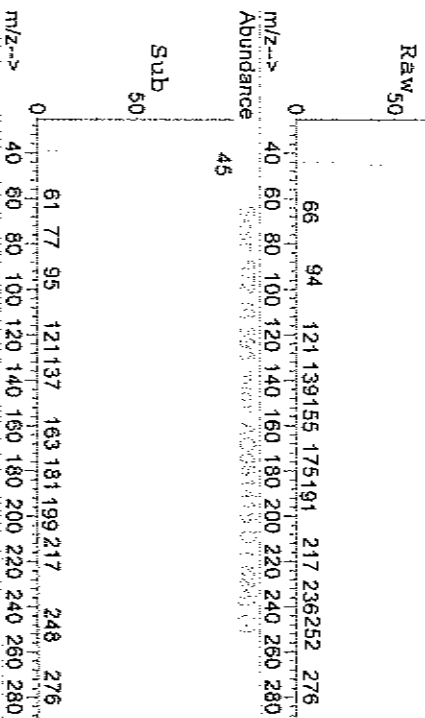
43 345.5 263.2 323.2#



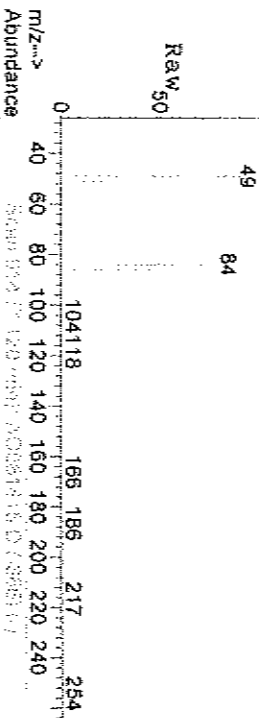


```
#17
Isopropyl alcohol
Concn: 1.16 ppb
RT: 6.40 min Scan# 672
Delta R.T. -0.01 min
Lab File: A0061415.D
Acq: 15 Jun 2017 7:18 am

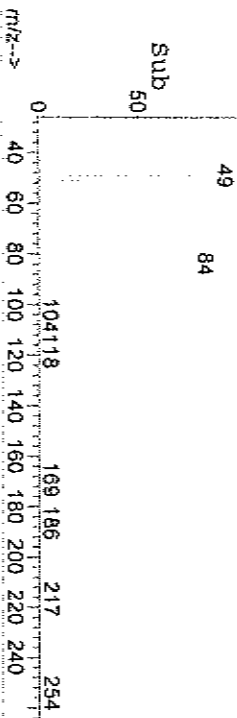
Tgt Ion: 45 Resp: 84462
Ion Ratio Lower Upper
45 100
43 37.2 0.0 20.0#
```

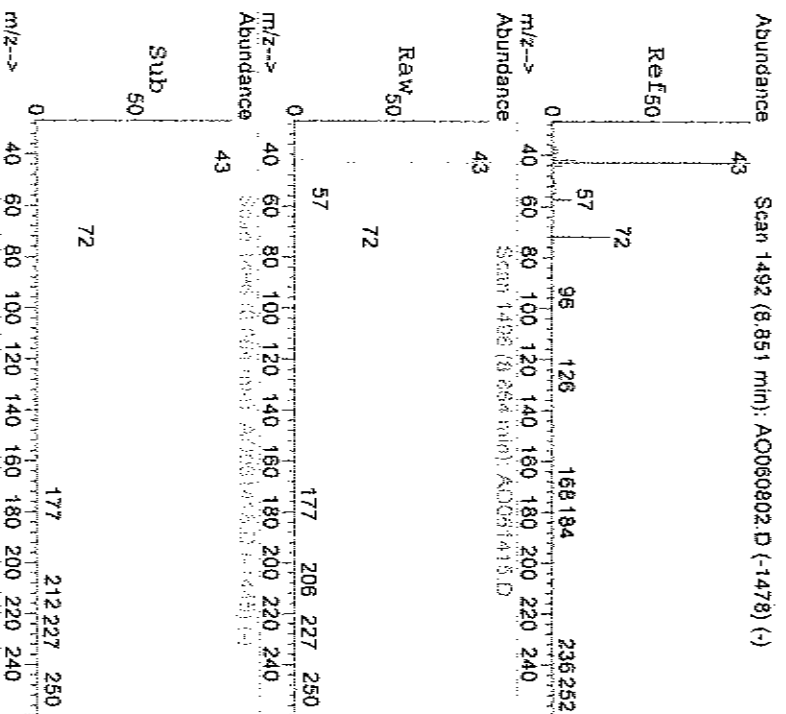


```
#21
Methylene chloride
Concen: 5.43 ppb
RT: 7.12 min Scan# 914
Delta R.T. -0.01 min
Lab File: A0061415.D
Acq: 15 Jun 2017 7:18 am
```

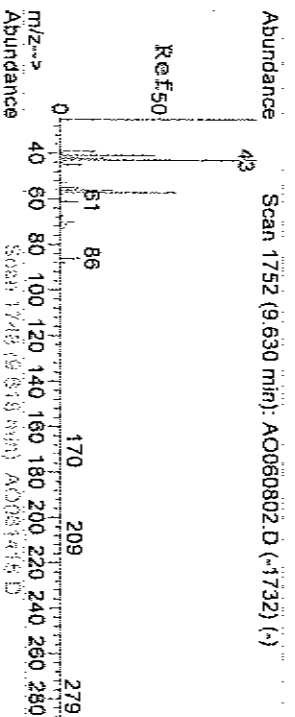
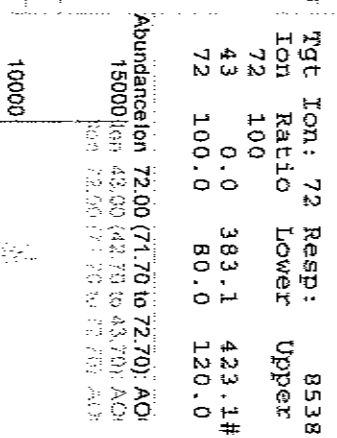


Tgt Ion:	84	Resp:	183262
Ion Ratio	Lower	Upper	
84	100		
49	130.1	86.2	126.2#
86	63.9	36.1	76.1





```
#28  
Methyl Ethyl Ketone  
Concen: 0.52 ppb  
RT: 8.86 min Scan# 1496  
Delta R.T. 0.00 min  
Lab File: A0061415.D  
Acq: 15 Jun 2017 7:18 am
```

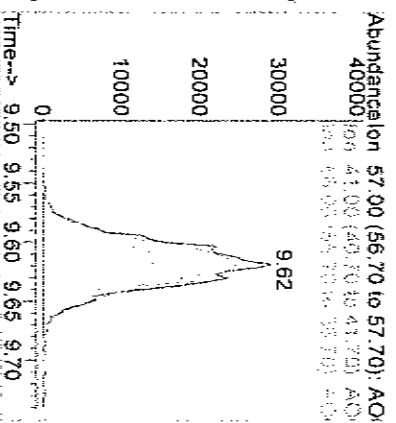
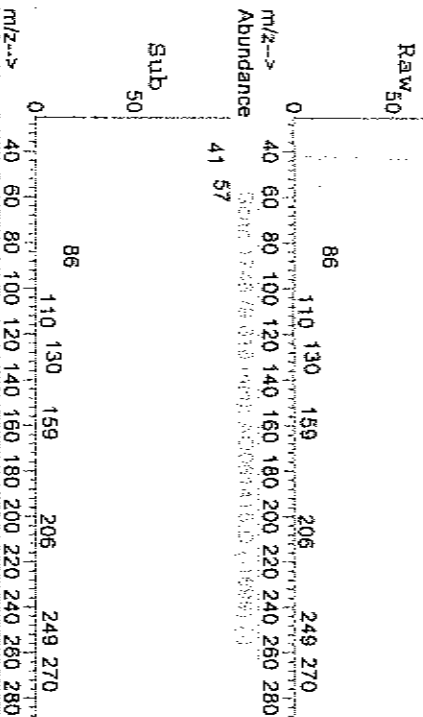


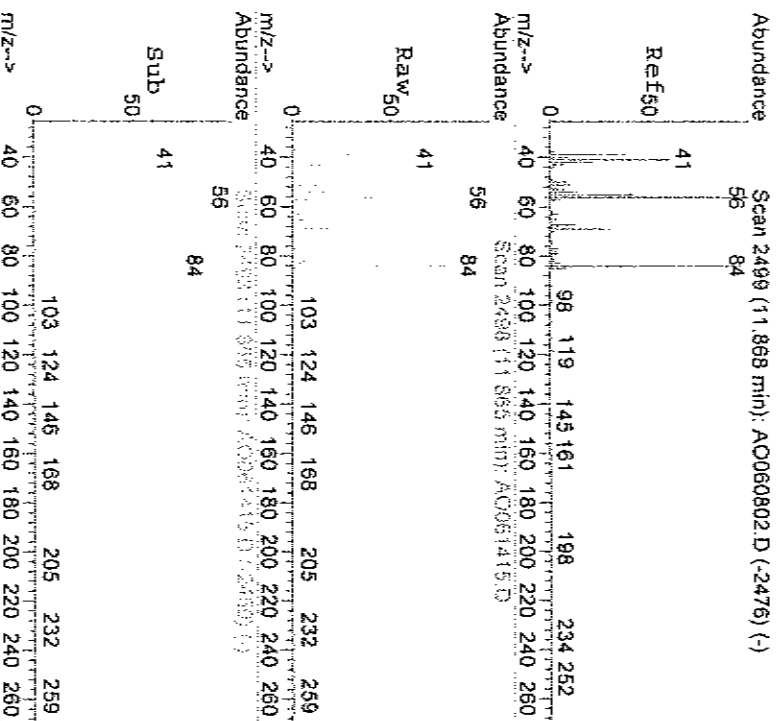
```

#30
Hexane
Concen: 1.74 ppb
RT: 9.62 min Scan# 1748
Delta R.T. -0.00 min
Lab File: A0061415.D
Acq: 15 Jun 2017 7:18 am

Tgt Ion: 57 Resp: 73662
Ion Ratio Lower Upper
57 100
41 91.8 57.7 97.7
56 55.5 41.0 81.0

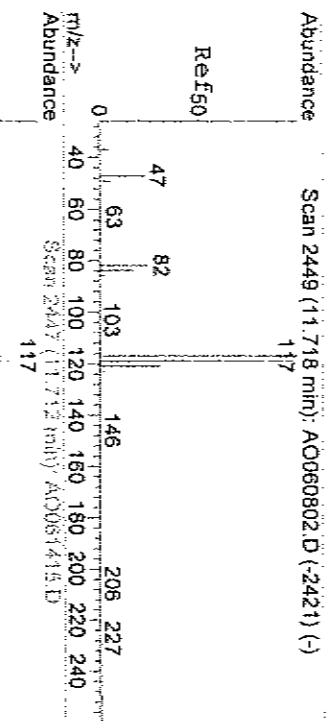
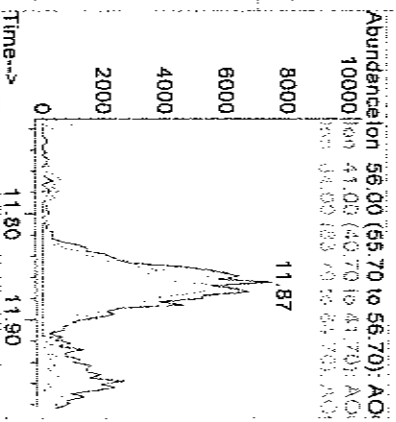
```





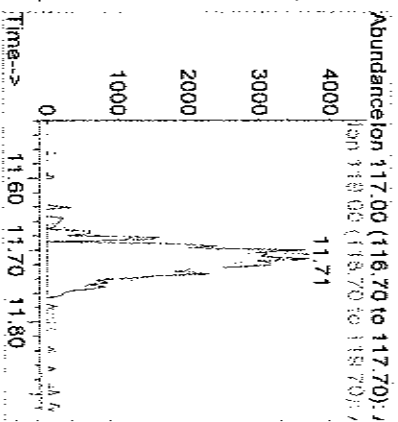
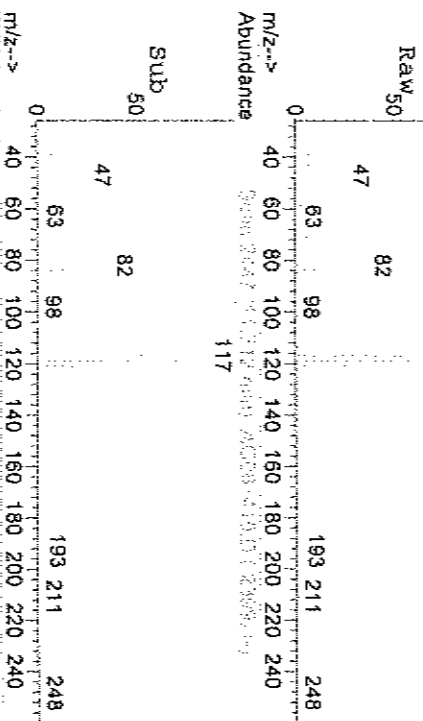
#37
Cyclohexane
Concen: 0.41 ppb m
RT: 11.87 min Scan# 2498
Delta R.T. -0.01 min
Lab File: AO061415.D
Acq: 15 Jun 2017 7:18 am

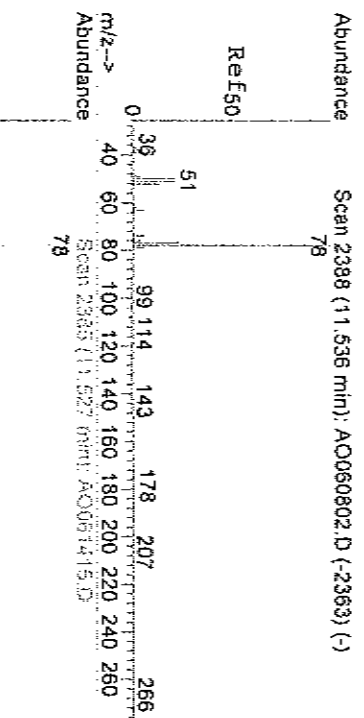
Tgt Ion: 56	Resp: 18163
Ion Ratio	Lower Upper
56	100
41	78.7 43.2 83.2
84	90.0 64.8 104.8



#38
Carbon tetrachloride
Concen: 0.07 ppb m
RT: 11.71 min Scan# 2447
Delta R.T. -0.01 min
Lab File: AO061415.D
Acq: 15 Jun 2017 7:18 am

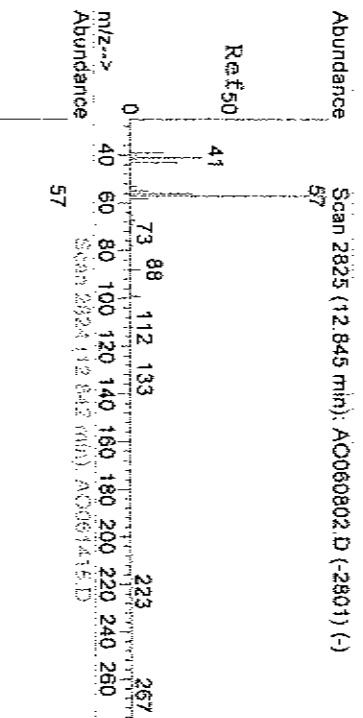
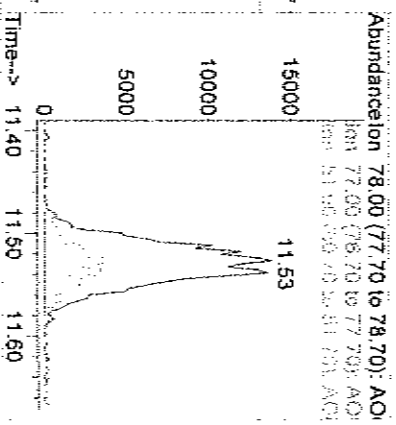
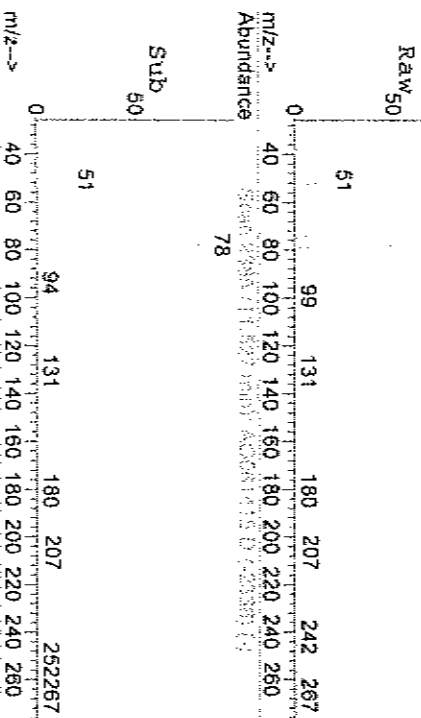
Tgt Ion: 117	Resp: 9561
Ion Ratio	Lower Upper
117	100
119	94.6 74.9 114.9





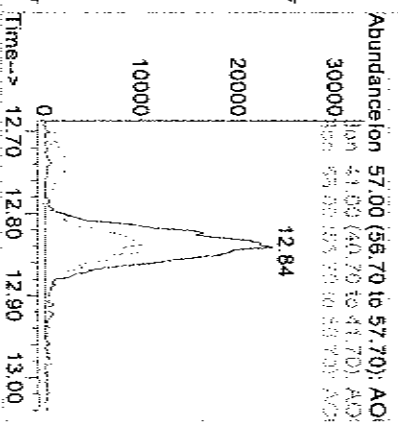
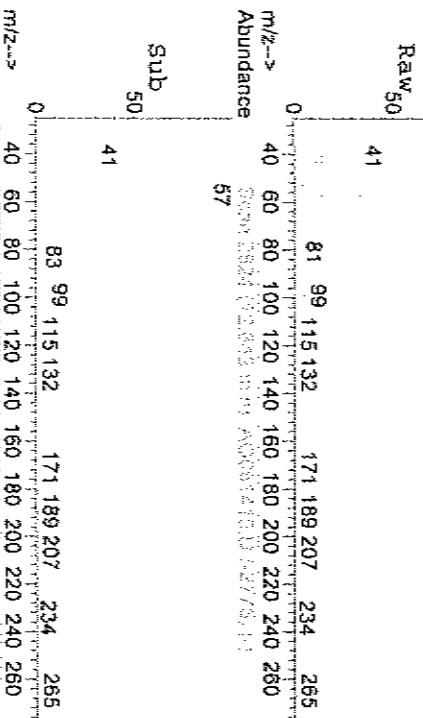
#39
Benzene
Concen: 0.35 ppb
RT: 11.53 min Scan# 2385
Delta R.T. -0.00 min
Lab File: AO061415.D
Acq: 15 Jun 2017 7:18 am

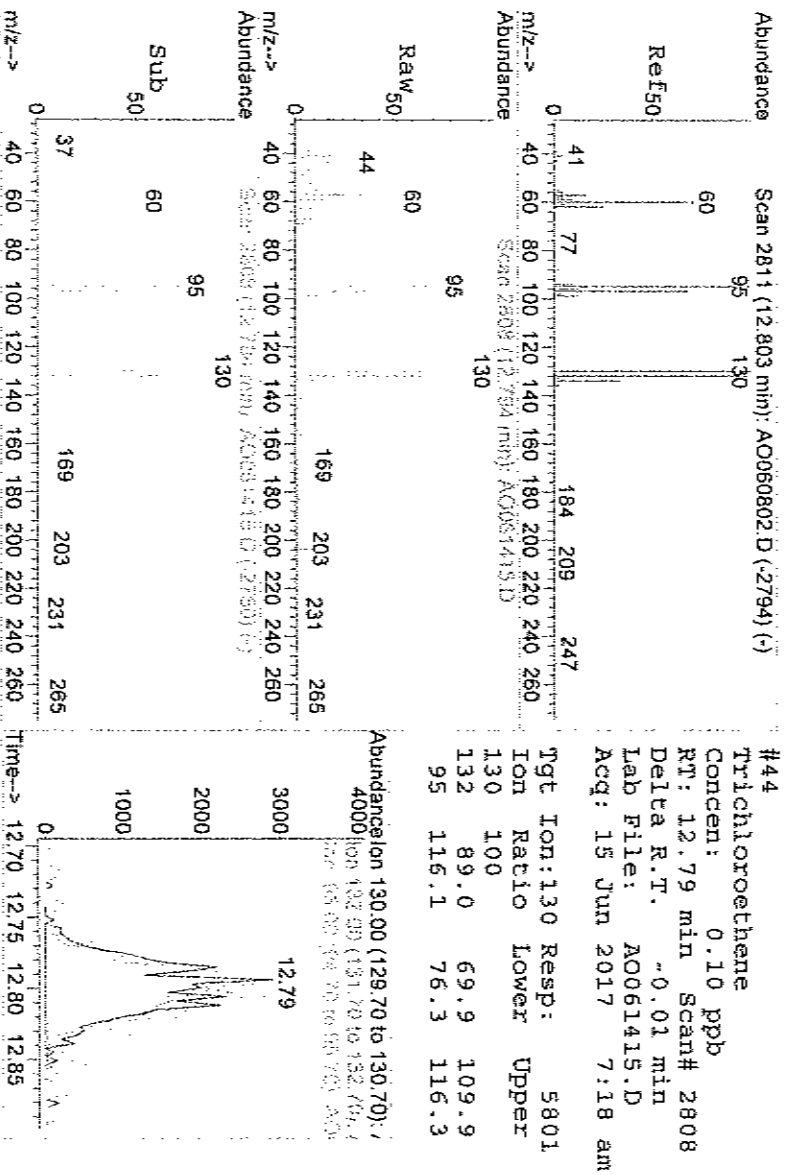
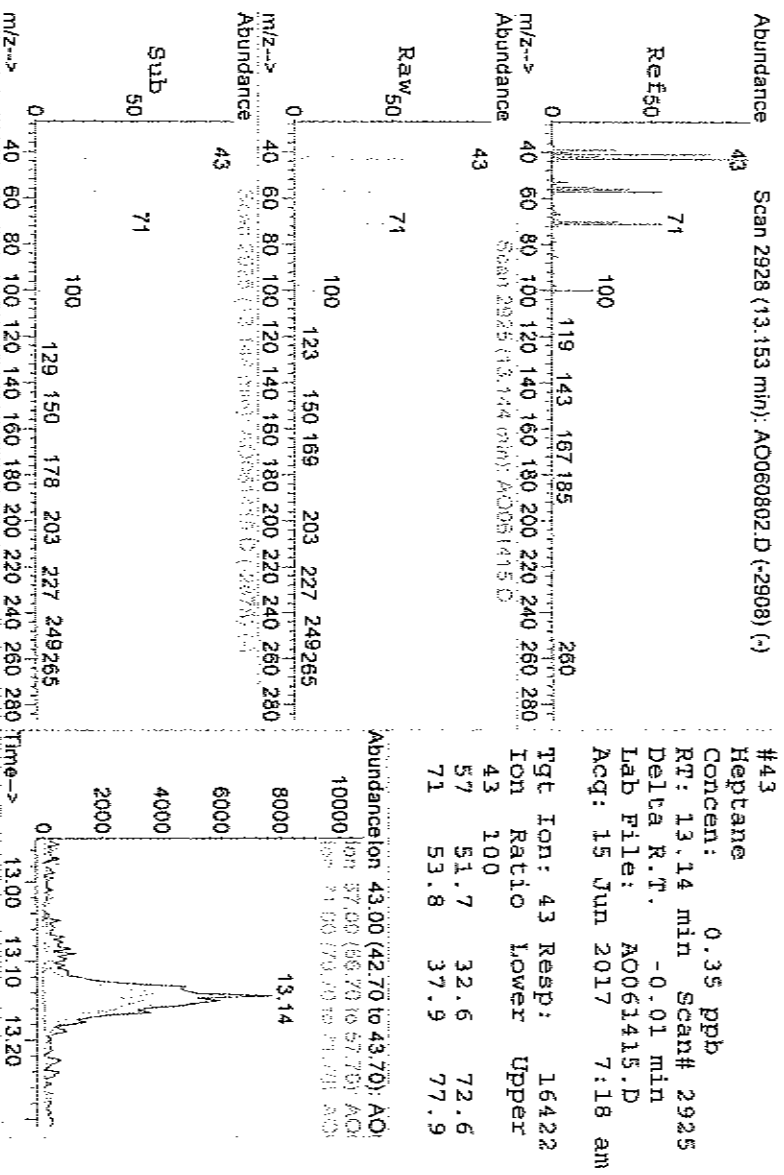
Tgt Ion: 78 Resp: 37124
Ion Ratio Lower Upper
78 100
77 26.8 0.0 39.9
51 21.1 0.0 35.8

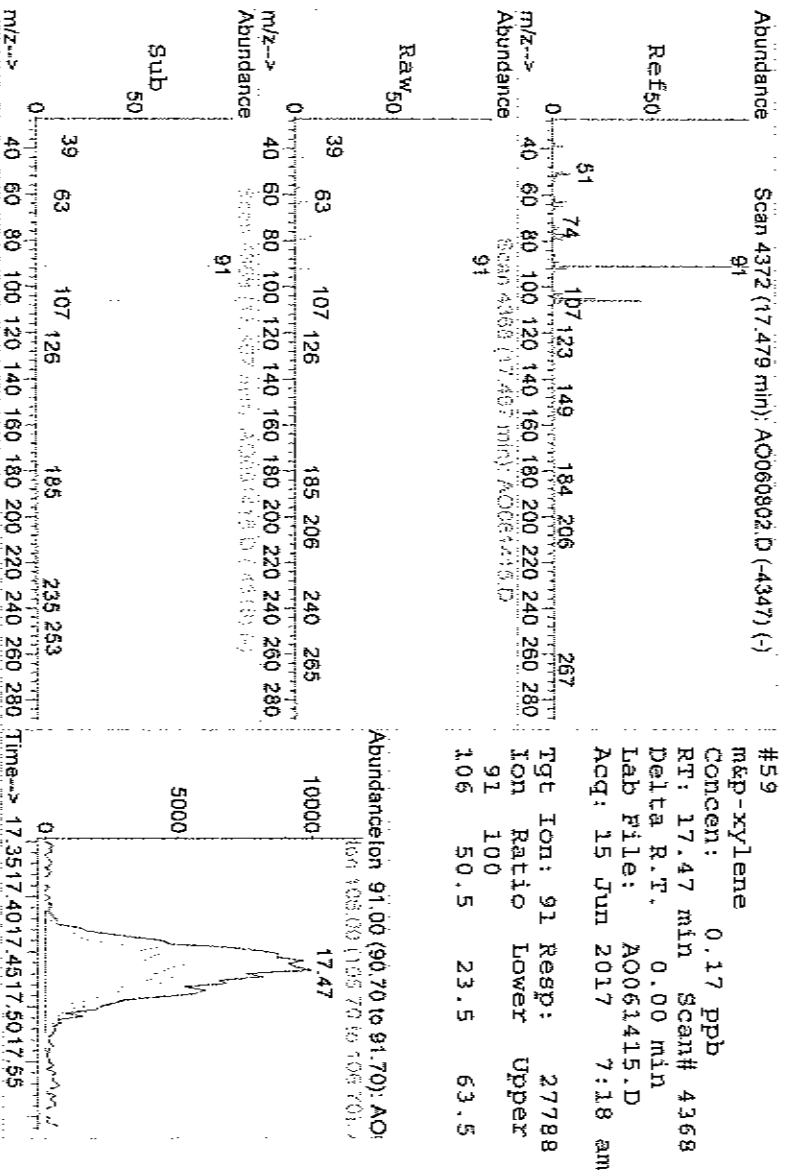
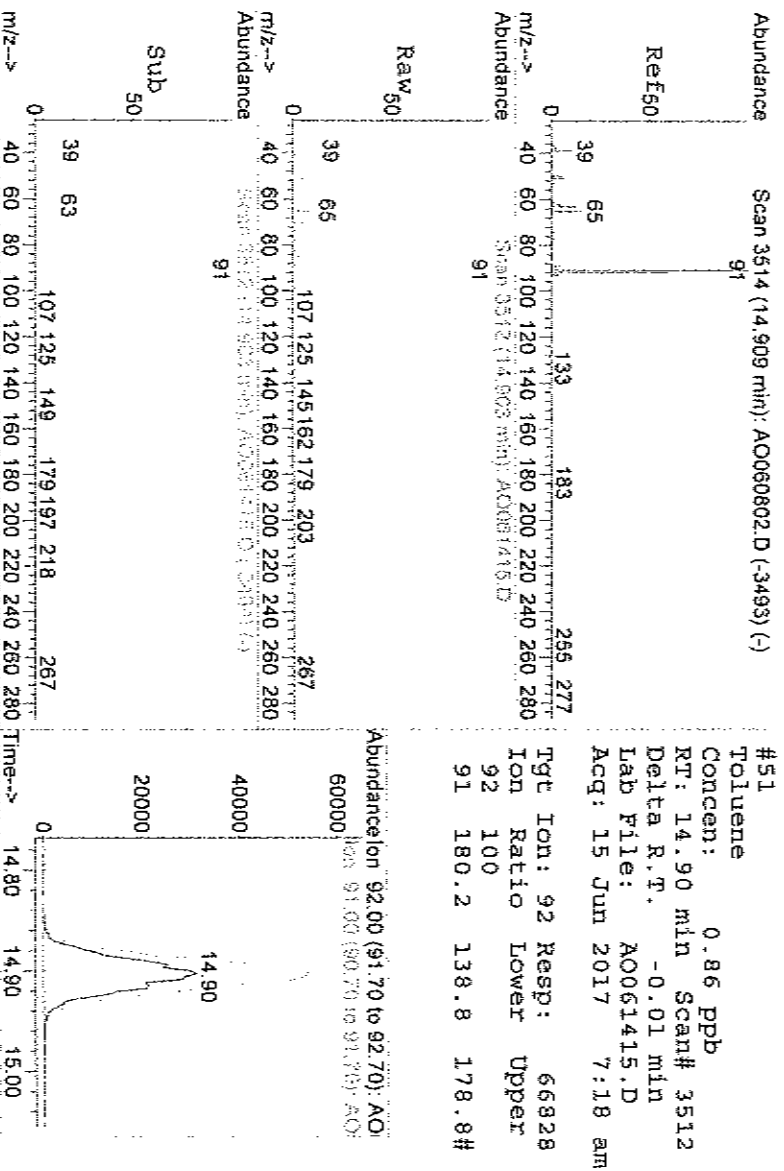


#42
2,2,4-trimethylpentane
Concen: 0.43 ppb
RT: 12.84 min Scan# 2824
Delta R.T. -0.00 min
Lab File: AO061415.D
Acq: 15 Jun 2017 7:18 am

Tgt Ion: 57 Resp: 60916
Ion Ratio Lower Upper
57 100
41 43.1 6.1 46.1
56 53.4 7.8 47.8#

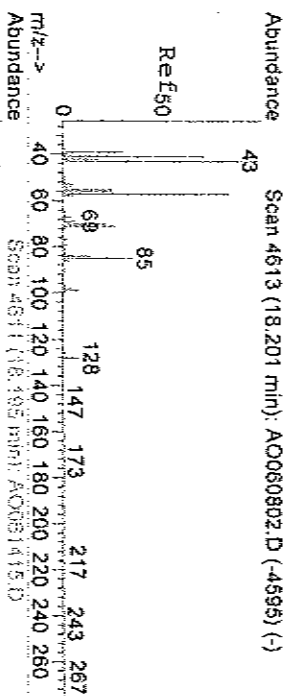




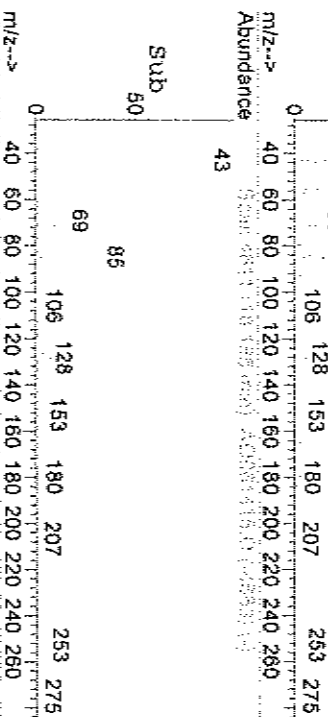
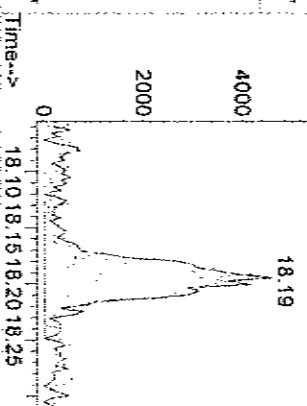


#60
Nonane
Concen: 0.14 ppb
RT: 18.19 min Scan# 4611
Delta R.T. -0.01 min
Lab File: AO061415.D
Acq: 15 Jun 2017 7:18 am

Tgt Ion: 43 Resp: 9725
Ion Ratio Lower Upper
43 100
57 77.0 72.9 109.3
71 23.9 19.4 35.2

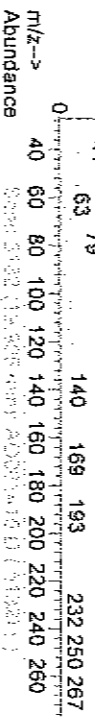
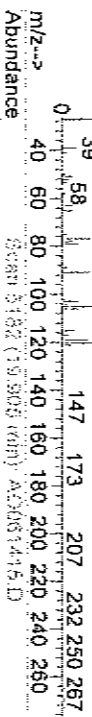


Abundance 43.00 (42.70 to 43.70): AO
Ion 57.00 (56.70 to 57.70): AO
Ion 71.00 (70.70 to 71.70): AO

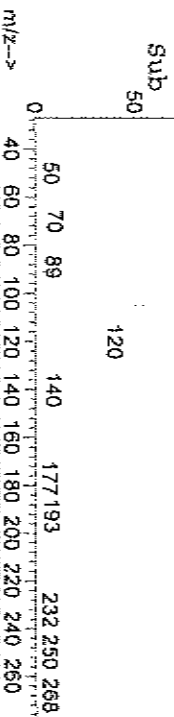
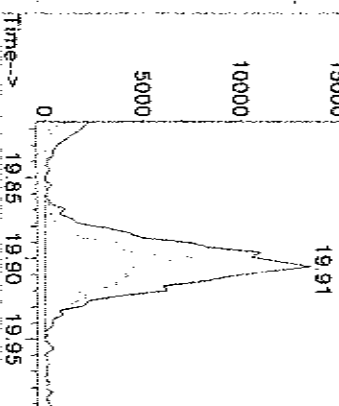


#71
1,2,4-trimethylbenzene
Concen: 0.15 ppb
RT: 19.91 min Scan# 5182
Delta R.T. 0.00 min
Lab File: AO061415.D
Acq: 15 Jun 2017 7:18 am

Tgt Ion: 105 Resp: 23919
Ion Ratio Lower Upper
105 100
120 45.4 20.3 60.3



Abundance 105.00 (104.70 to 105.70):
Ion 120.00 (119.70 to 120.70):



Data File : C:\HPCHEM\1\DATA\AO060828.D
Acq On : 9 Jun 2017 4:28 am
Sample : C1706015-006A 10X
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 09 07:24:43 2017

Vial: 28
Operator: RJP
Inst : MSD #1
Multiplier: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 05 19:44:28 2017
Response Via : Initial Calibration
DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.59	128	30088	1.00	ppb	0.02
35) 1,4-difluorobenzene	11.97	114	134990	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	118369	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.48	95	76255	0.93	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	93.00%

Target Compounds

15) Acetone	6.17	58	56084m	2.95	ppb	Qvalue
21) Methylene chloride	7.14	84	17748m	0.61	ppb	

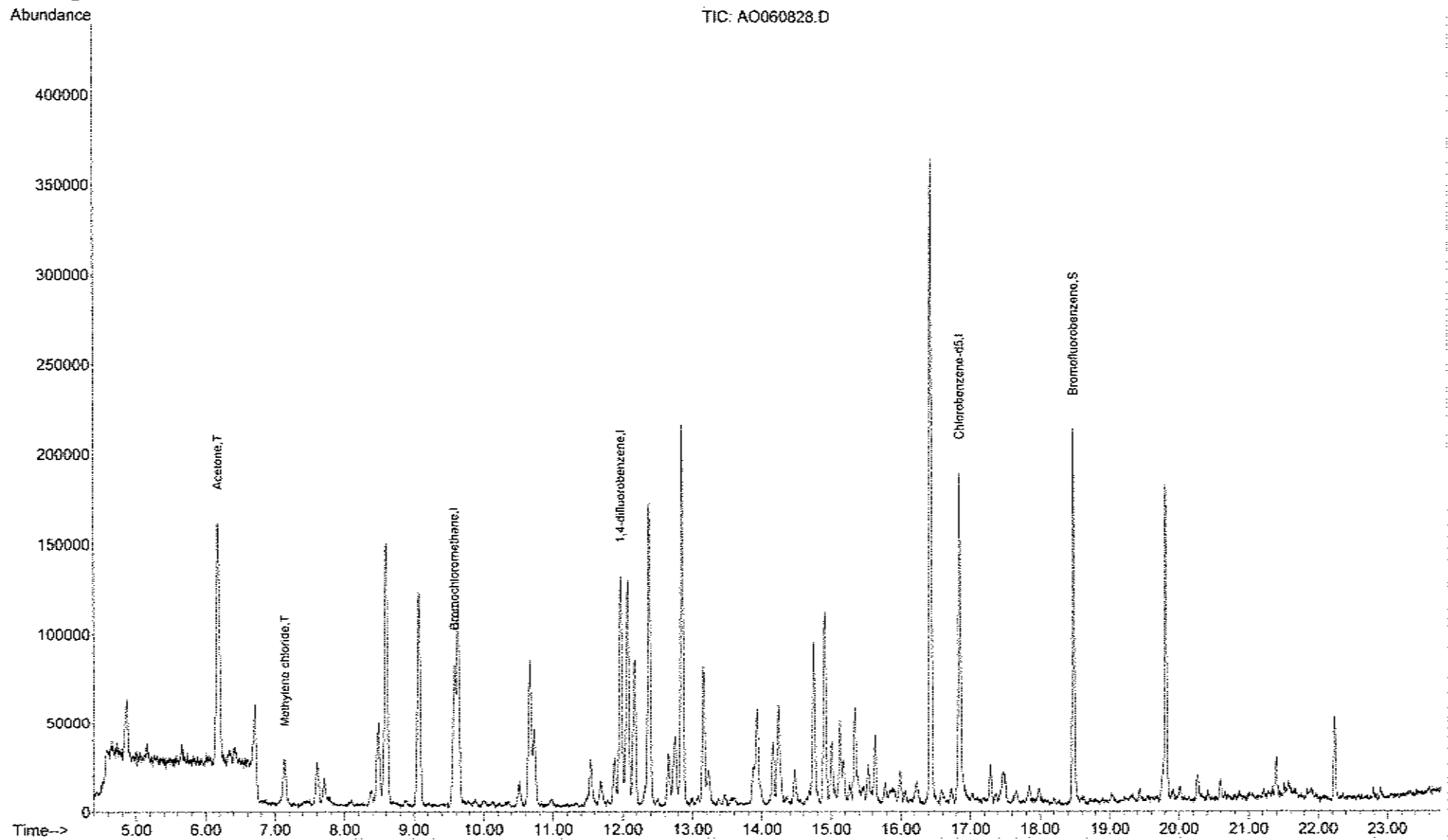
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO060828.D A605_1UG.M Thu Jun 29 10:08:10 2017 MSD1

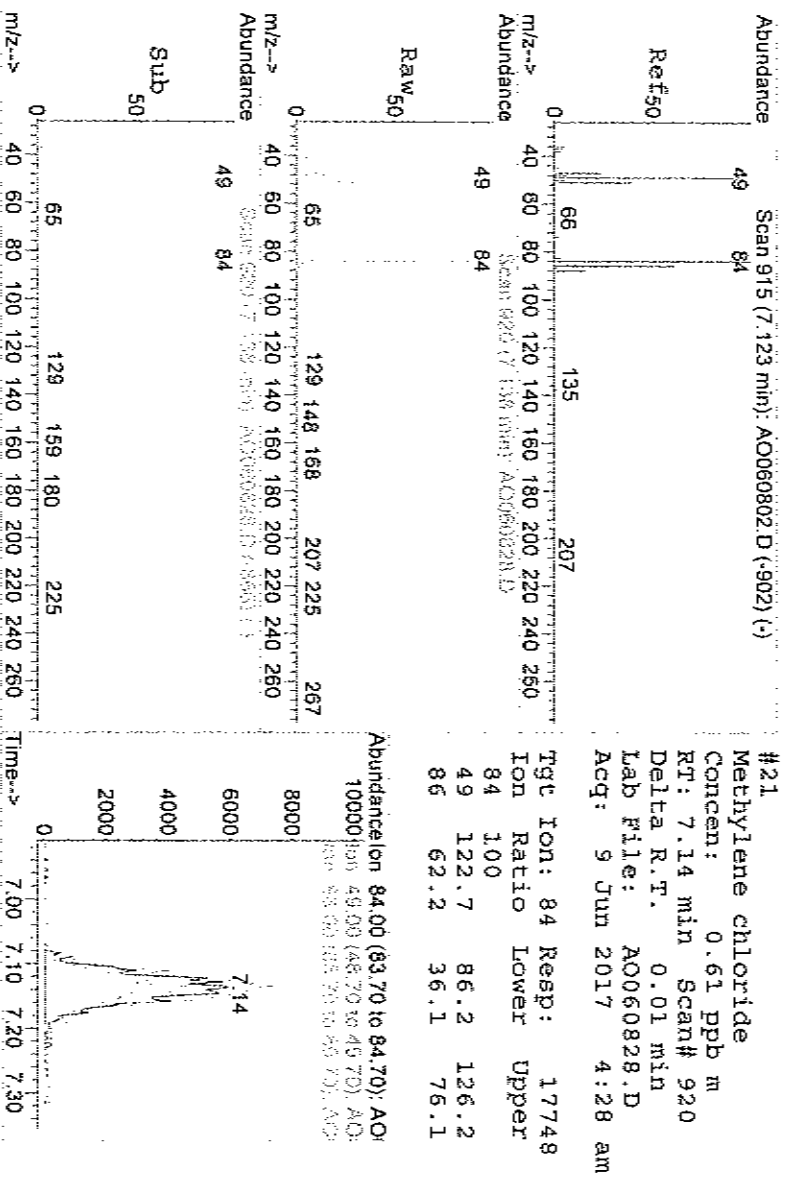
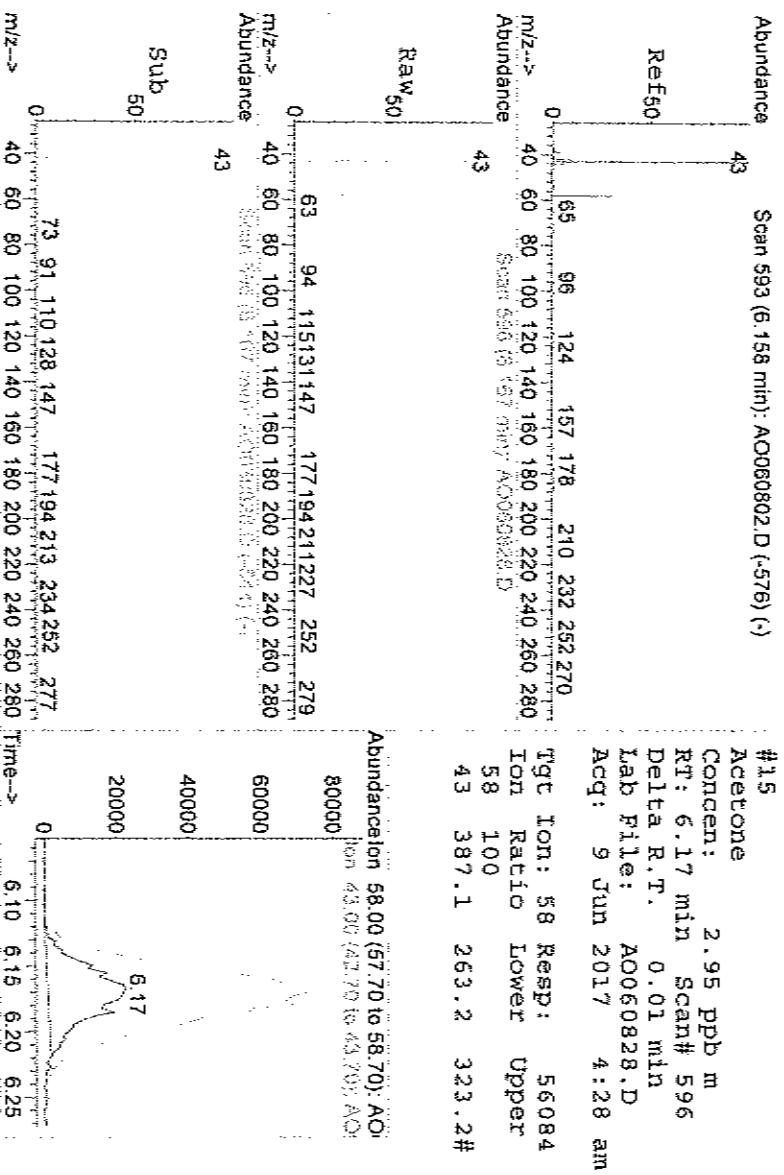
Data File : C:\HPCHEM\1\DATA\AO060828.D
Acq On : 9 Jun 2017 4:28 am
Sample : C1706015-006A 10X
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 15 11:12 2017

Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration





Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-007A

Client Sample ID: Km 126
 Tag Number: 225.265
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-6			FLD		Analyst:
Lab Vacuum Out	-30			"Hg		6/7/2017
				"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15		TO-15		Analyst: RJP
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,2,4-Trimethylbenzene	0.12	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,2-Dibromomethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/15/2017 8:01:00 AM
2,2,4-trimethylpentane	0.71	0.15		ppbv	1	6/15/2017 8:01:00 AM
4-ethyltoluene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Acetone	21	3.0		ppbv	10	6/9/2017 5:06:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Benzene	0.37	0.15		ppbv	1	6/15/2017 8:01:00 AM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Bromoform	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Bromomethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Carbon disulfide	0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Carbon tetrachloride	0.070	0.040		ppbv	1	6/15/2017 8:01:00 AM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Chloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Chloroform	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Chloromethane	0.61	0.15		ppbv	1	6/15/2017 8:01:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Cyclohexane	0.30	0.15		ppbv	1	6/15/2017 8:01:00 AM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/15/2017 8:01:00 AM
Ethyl acetate	0.89	0.15		ppbv	1	6/15/2017 8:01:00 AM
Qualifiers:						
**	Quantitation Limit					Results reported are not blank corrected
B	Analyte detected in the associated Method Blank					E3 Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded					J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.					NID Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits					

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-007A

Client Sample ID: Rm 126
 Tag Number: 225.265
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.18	TO-15		ppbV	1	Analyst: RJP 6/15/2017 8:01:00 AM
Freon 11	0.20	0.15		ppbV	1	6/15/2017 8:01:00 AM
Freon 113	< 0.15	0.15		ppbV	1	6/15/2017 8:01:00 AM
Freon 114	< 0.15	0.15		ppbV	1	6/15/2017 8:01:00 AM
Freon 12	0.42	0.15		ppbV	1	6/15/2017 8:01:00 AM
Heptane	1.0	0.15		ppbV	1	6/15/2017 8:01:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/15/2017 8:01:00 AM
Hexane	1.0	0.15		ppbV	1	6/15/2017 8:01:00 AM
Isopropyl alcohol	48	1.5		ppbV	10	6/9/2017 5:06:00 AM
m&p-Xylene	0.30	0.30		ppbV	1	6/15/2017 8:01:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/15/2017 8:01:00 AM
Methyl Ethyl Ketone	0.93	0.30		ppbV	1	6/15/2017 8:01:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/15/2017 8:01:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/15/2017 8:01:00 AM
Methylene chloride	0.67	0.15		ppbV	1	6/15/2017 8:01:00 AM
o-Xylene	0.11	0.15	J	ppbV	1	6/15/2017 8:01:00 AM
Propylene	< 0.15	0.15		ppbV	1	6/15/2017 8:01:00 AM
Styrene	< 0.15	0.15		ppbV	1	6/15/2017 8:01:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/15/2017 8:01:00 AM
Tetrahydrofuran	0.50	0.15		ppbV	1	6/15/2017 8:01:00 AM
Toluene	0.72	0.15		ppbV	1	6/15/2017 8:01:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/15/2017 8:01:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/15/2017 8:01:00 AM
Trichloroethene	< 0.040	0.040		ppbV	1	6/15/2017 8:01:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/15/2017 8:01:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/15/2017 8:01:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	6/15/2017 8:01:00 AM
Surr. Bromofluorobenzene	90.0	70-130		%REC	1	6/15/2017 8:01:00 AM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-007A

Client Sample ID: Rm 126
 Tag Number: 225.265
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82	TO-15	ug/m3	1	Analyst: RJP 6/15/2017 8:01:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 8:01:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:01:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:01:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 8:01:00 AM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 8:01:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/15/2017 8:01:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 8:01:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:01:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:01:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 8:01:00 AM
2,2,4-trimethylpentane	3.3	0.70		ug/m3	1	6/15/2017 8:01:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/15/2017 8:01:00 AM
Acetone	49	7.1		ug/m3	10	6/9/2017 5:06:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 8:01:00 AM
Benzene	1.2	0.48		ug/m3	1	6/15/2017 8:01:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 8:01:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM
Bromoforn	< 1.6	1.6		ug/m3	1	6/15/2017 8:01:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 8:01:00 AM
Carbon disulfide	0.47	0.47		ug/m3	1	6/15/2017 8:01:00 AM
Carbon tetrachloride	0.44	0.25		ug/m3	1	6/15/2017 8:01:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 8:01:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 8:01:00 AM
Chloroforn	< 0.73	0.73		ug/m3	1	6/15/2017 8:01:00 AM
Chloromethane	1.3	0.31		ug/m3	1	6/15/2017 8:01:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:01:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:01:00 AM
Cyclohexane	1.0	0.52		ug/m3	1	6/15/2017 8:01:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 8:01:00 AM
Ethyl acetate	3.2	0.54		ug/m3	1	6/15/2017 8:01:00 AM
Ethylbenzene	0.78	0.65		ug/m3	1	6/15/2017 8:01:00 AM
Freon 11	1.1	0.84		ug/m3	1	6/15/2017 8:01:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 8:01:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM

Qualifiers:

**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	NID Not Detected in the Limit of Detection
S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-007A

Client Sample ID: Rm 126
 Tag Number: 225.265
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.1	TO-15 0.74		ug/m3	1	Analyst: RJP 6/15/2017 8:01:00 AM
Heptane	4.2	0.61		ug/m3	1	6/15/2017 8:01:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 8:01:00 AM
Hexane	3.7	0.53		ug/m3	1	6/15/2017 8:01:00 AM
Isopropyl alcohol	120	3.7		ug/m3	10	6/9/2017 5:06:00 AM
m&p-Xylene	1.3	1.3		ug/m3	1	6/15/2017 8:01:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:01:00 AM
Methyl Ethyl Ketone	2.7	0.88		ug/m3	1	6/15/2017 8:01:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:01:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 8:01:00 AM
Methylene chloride	2.3	0.52		ug/m3	1	6/15/2017 8:01:00 AM
o-Xylene	0.48	0.65	J	ug/m3	1	6/15/2017 8:01:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 8:01:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 8:01:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM
Tetrahydrofuran	1.5	0.44		ug/m3	1	6/15/2017 8:01:00 AM
Toluene	2.7	0.57		ug/m3	1	6/15/2017 8:01:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:01:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:01:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	6/15/2017 8:01:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 8:01:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 8:01:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 8:01:00 AM

Qualifiers:

**	Quantitation Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits	

Data File : C:\HPCHEM\1\DATA\AO061416.D
 Acq On : 15 Jun 2017 8:01 am
 Sample : C1706015-007A
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 15 09:02:10 2017

Vial: 35

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev	(min)
1) Bromochloromethane	9.56	128	35122	1.00	ppb	0.00	
35) 1,4-difluorobenzene	11.96	114	150124	1.00	ppb	0.00	
50) Chlorobenzene-d5	16.84	117	137895	1.00	ppb	0.00	

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	86320	0.90	ppb	0.00	
Spiked Amount	1.000	Range	70 - 130	Recovery	=	90.00%	

Target Compounds

Target Compounds						Qvalue
3) Freon 12	4.56	85	94404	0.42	ppb	99
4) Chloromethane	4.72	50	25427	0.61	ppb	99
14) Freon 11	6.33	101	55861	0.20	ppb	97
15) Acetone	6.14	58	266377	12.01	ppb	85
17) Isopropyl alcohol	6.39	45	2685407	36.75	ppb	100
21) Methylene chloride	7.12	84	22728	0.67	ppb	77
23) Carbon disulfide	7.47	76	15528	0.15	ppb	93
28) Methyl Ethyl Ketone	8.86	72	15467	0.93	ppb	98
30) Hexane	9.62	57	44598	1.05	ppb	85
31) Ethyl acetate	9.63	43	85510	0.89	ppb	96
33) Tetrahydrofuran	10.26	42	14899	0.50	ppb	96
37) Cyclohexane	11.87	56	12955	0.30	ppb	90
38) Carbon tetrachloride	11.71	117	8905	0.07	ppb	94
39) Benzene	11.53	78	37789	0.37	ppb	86
42) 2,2,4-trimethylpentane	12.84	57	95605	0.71	ppb	65
43) Heptane	13.15	43	46522	1.02	ppb	95
51) Toluene	14.91	92	57072	0.72	ppb	87
58) Ethylbenzene	17.28	91	33776	0.18	ppb	99
59) m,p-xylene	17.46	91	48391	0.30	ppb	94
63) o-xylene	17.98	91	17527	0.11	ppb	92
71) 1,2,4-trimethylbenzene	19.90	105	19632	0.12	ppb	97

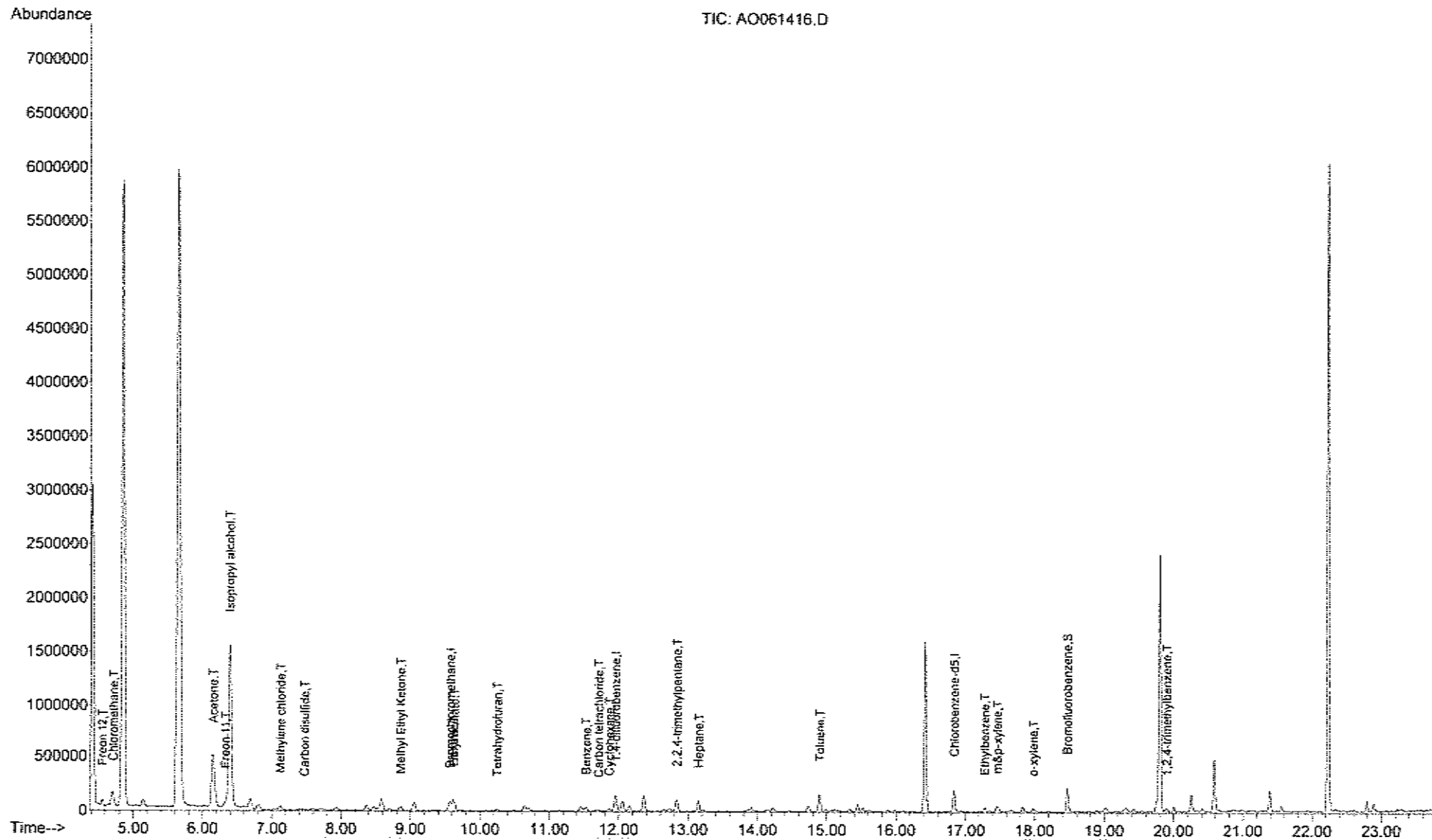
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO061416.D A605_1UG.M Thu Jun 29 10:09:17 2017 MSD1

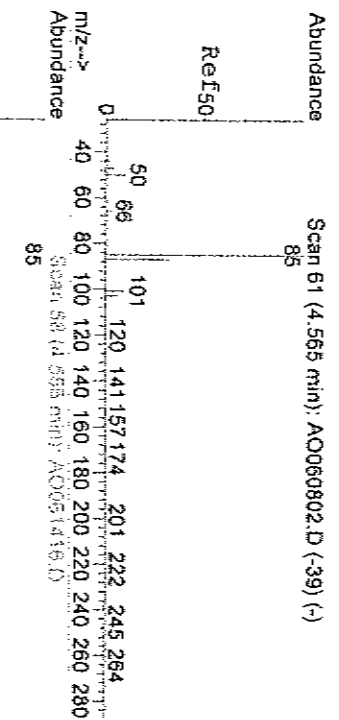
Data File : C:\HPCHEM\1\DATA\AO061416.D
Acq On : 15 Jun 2017 8:01 am
Sample : C1706015-007A
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 15 10:29 2017

Vial: 35
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration





#3

Freon 12

Concen: 0.42 ppb

RT: 4.56 min Scan# 58

Delta R.T. -0.01 min

Lab File: AO061416.D

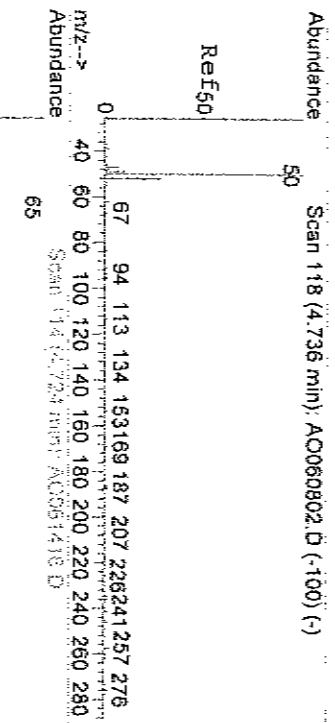
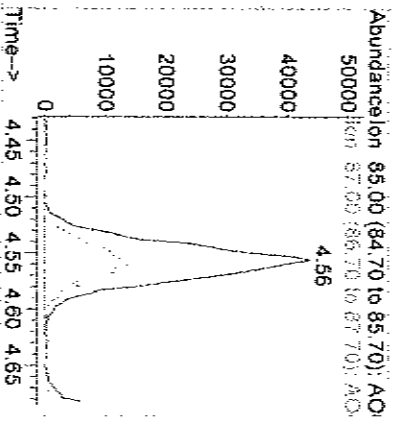
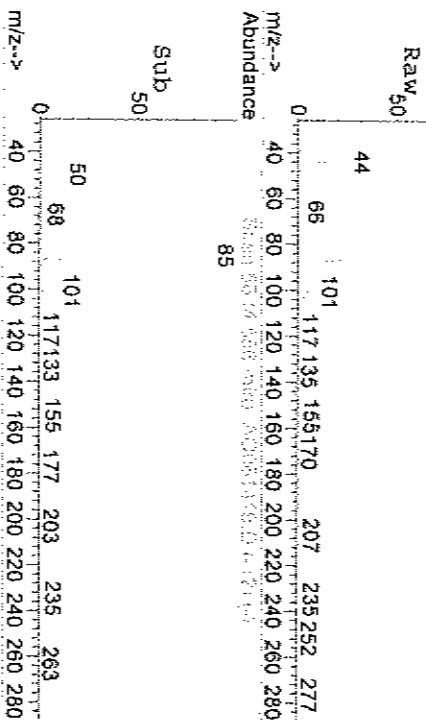
Acq: 15 Jun 2017 8:01 am

Tgt Ion: 85 Resp: 94404

Ion Ratio Lower Upper

85 100

87 32.1 11.3 51.3



#4

Chloromethane

Concen: 0.61 ppb

RT: 4.72 min Scan# 114

Delta R.T. 0.00 min

Lab File: AO061416.D

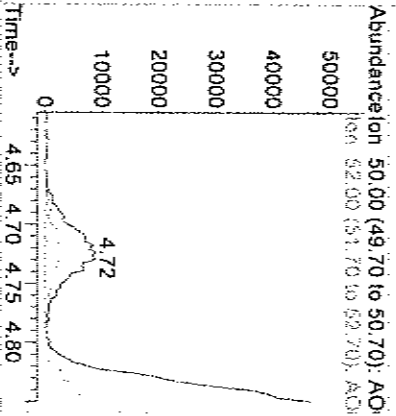
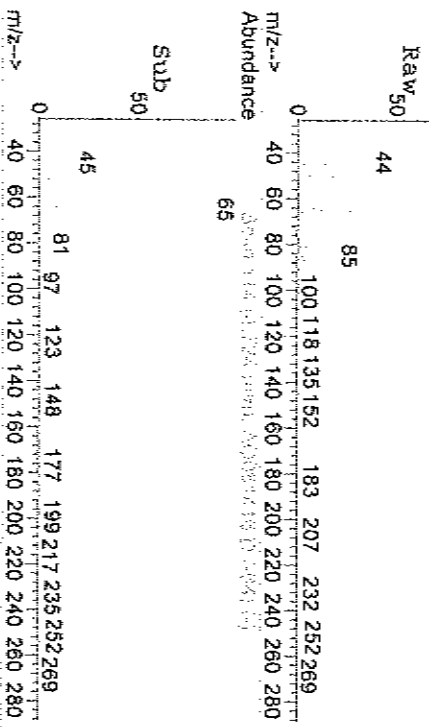
Acq: 15 Jun 2017 8:01 am

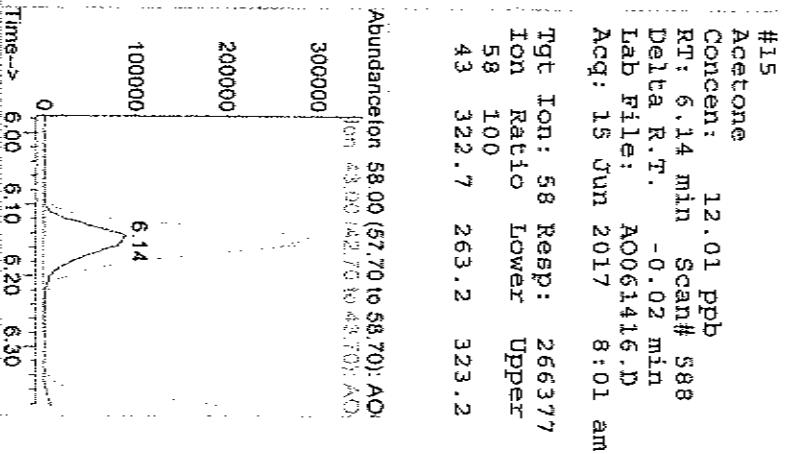
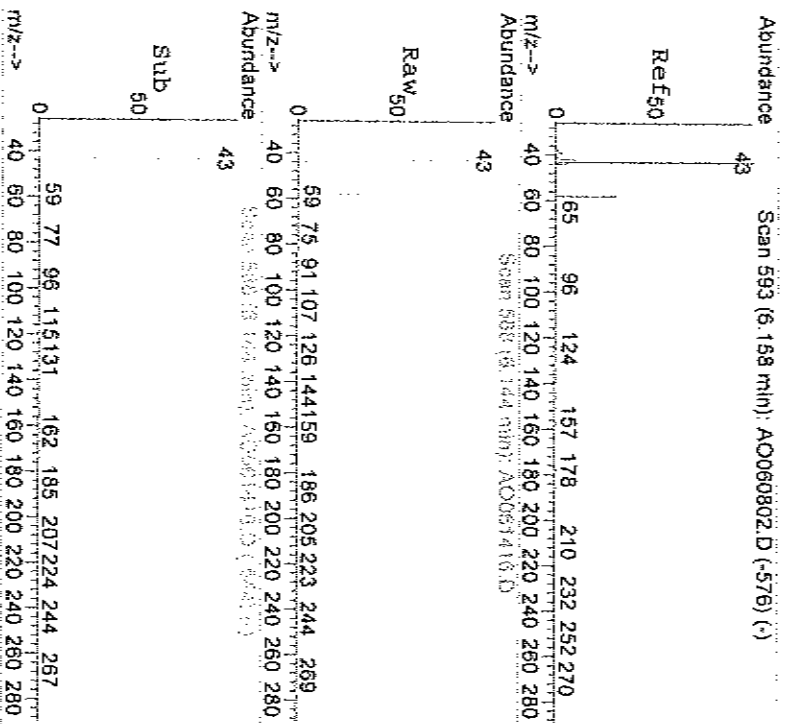
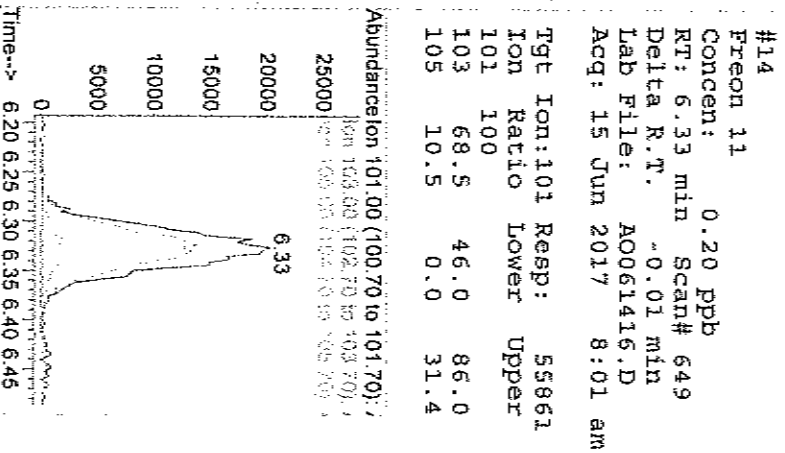
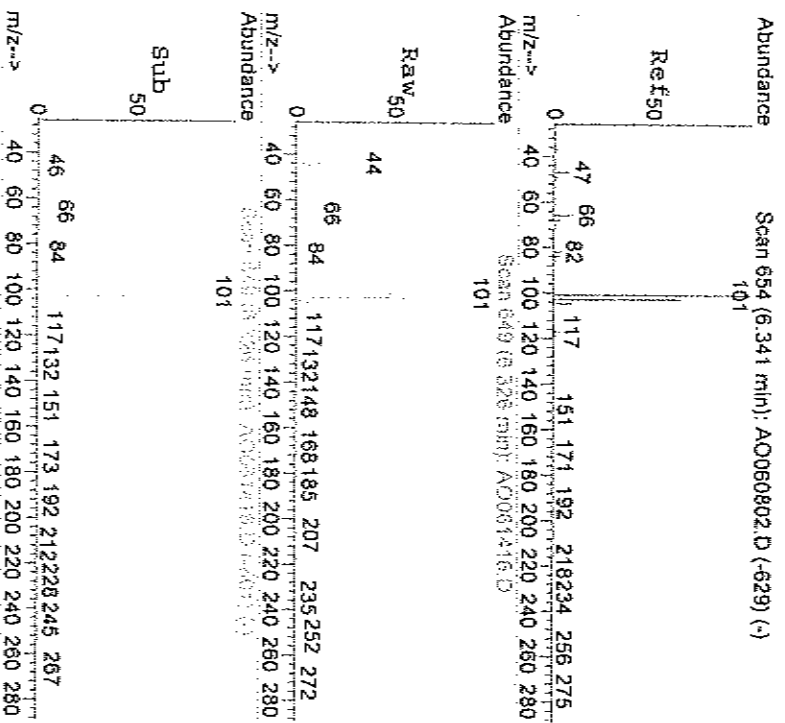
Tgt Ion: 50 Resp: 25427

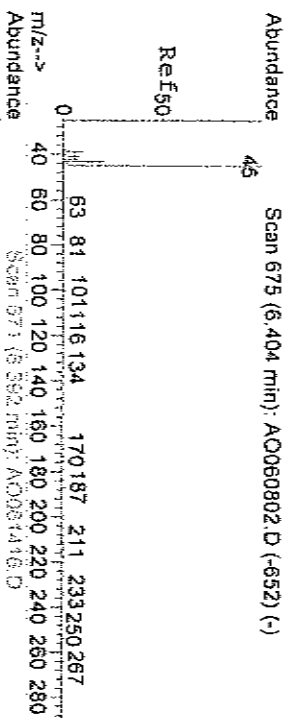
Ion Ratio Lower Upper

50 100

52 32.6 11.8 51.8

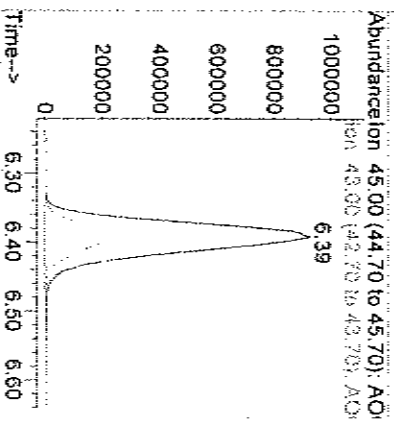
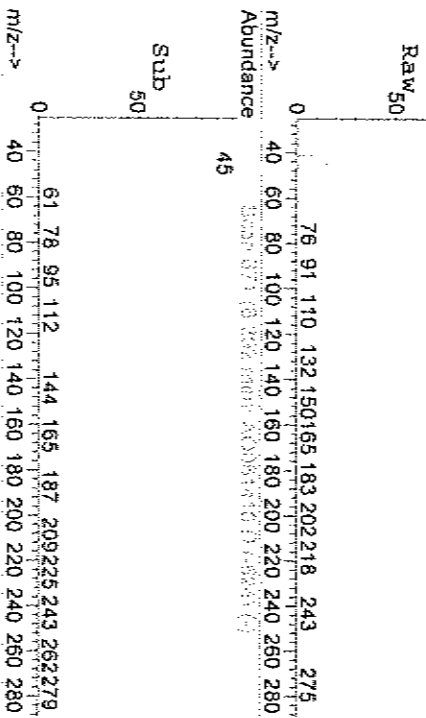






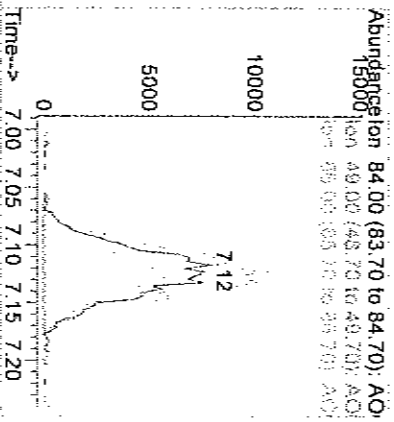
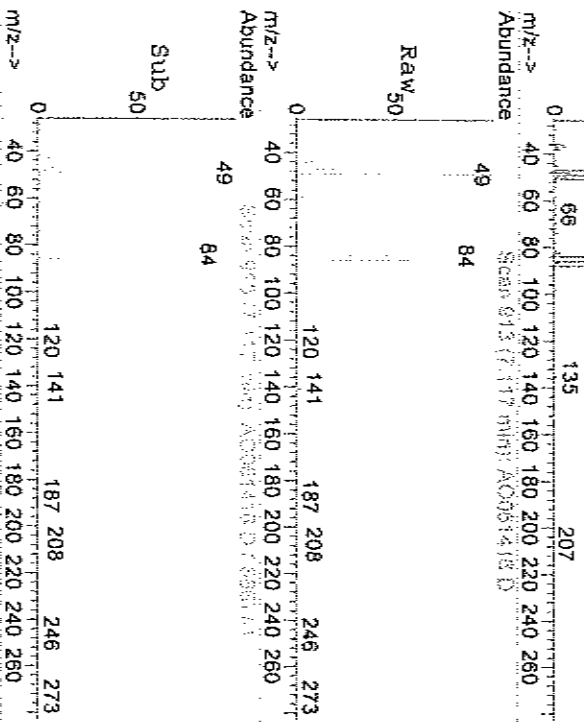
#17
Isopropyl alcohol
Concen: 36.75 ppb
RT: 6.39 min Scan# 671
Delta R.T. -0.01 min
Lab File: A0061416.D
Acq: 15 Jun 2017 8:01 am

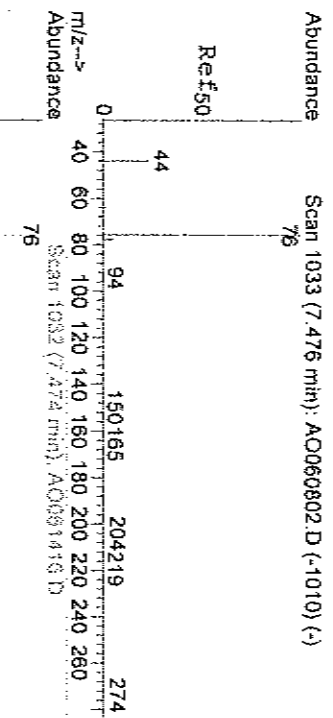
Tgt Ion: 45 Resp: 2685407
Ion Ratio Lower Upper
45 100
43 24.5 0.0 20.0#



#21
Methylene chloride
Concen: 0.67 ppb
RT: 7.12 min Scan# 913
Delta R.T. -0.01 min
Lab File: A0061416.D
Acq: 15 Jun 2017 8:01 am

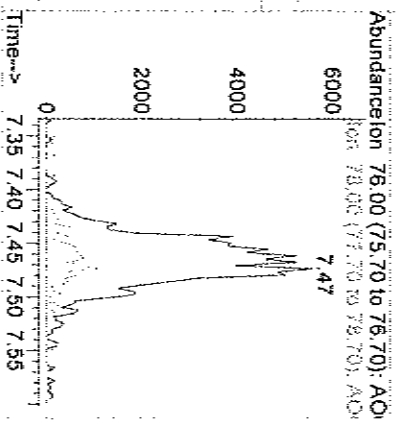
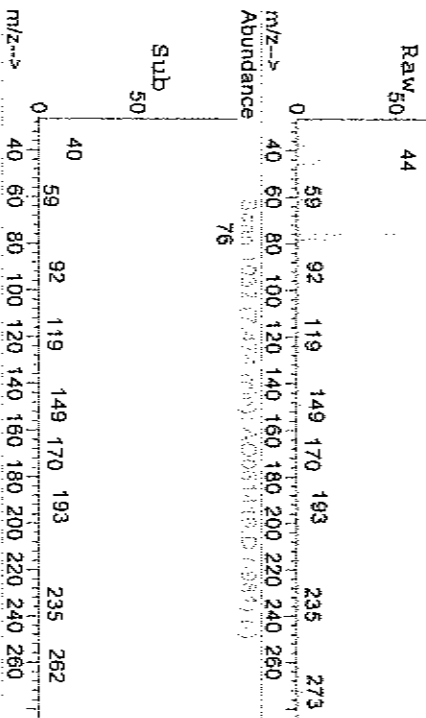
Tgt Ion: 84 Resp: 22728
Ion Ratio Lower Upper
84 100
49 130.9 86.2 126.2#
86 70.8 36.1 76.1



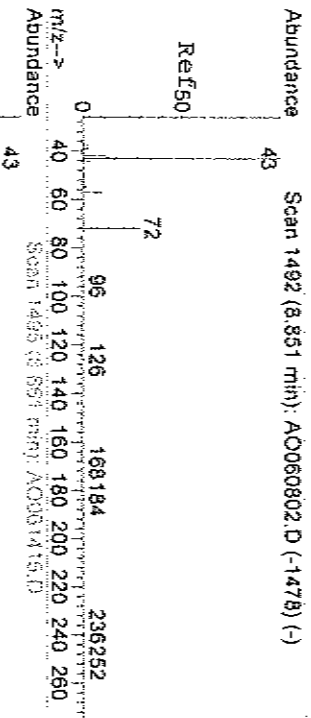


#23
Carbon disulfide
Concen: 0.15 ppb
RT: 7.47 min Scan# 1032
Delta R.T. 0.00 min
Lab File: AO061416.D
Acq: 15 Jun 2017 8:01 am

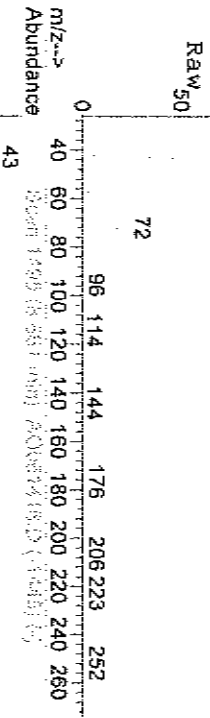
Tgt Ion: 76 Resp: 15528
Ion Ratio Lower Upper
76 100
78 9.3 0.0 26.8



#28
Methyl Ethyl Ketone
Concen: 0.93 ppb
RT: 8.86 min Scan# 1495
Delta R.T. 0.00 min
Lab File: AO061416.D
Acq: 15 Jun 2017 8:01 am



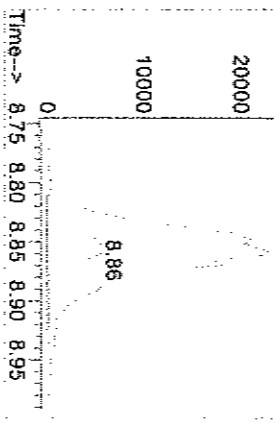
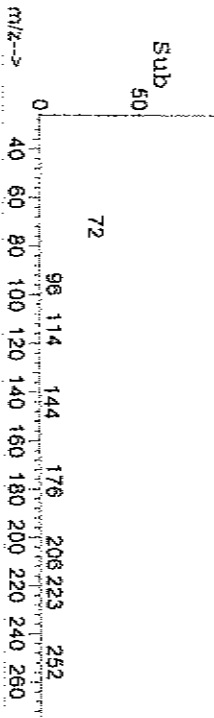
Tgt Ion: 72 Resp: 15467
Ion Ratio Lower Upper
72 100
43 409.4 383.1 423.1
72 100.0 80.0 120.0

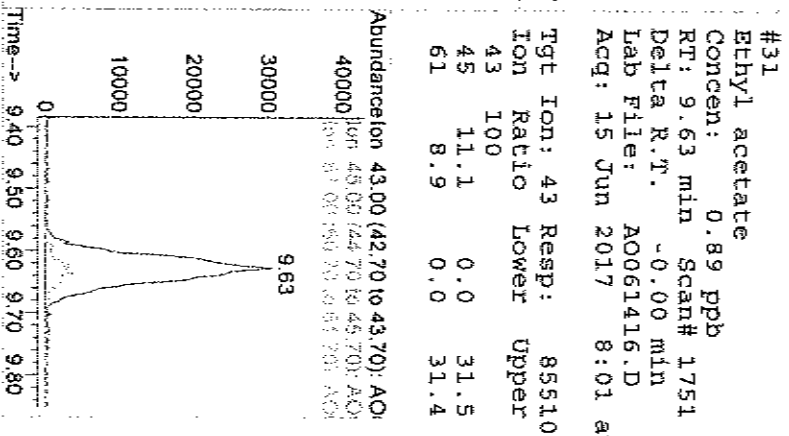
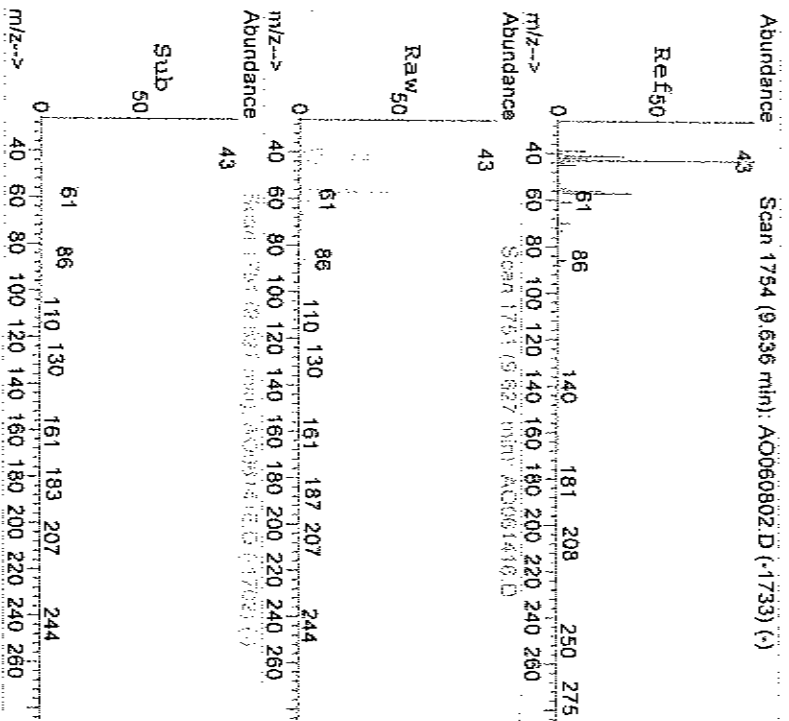
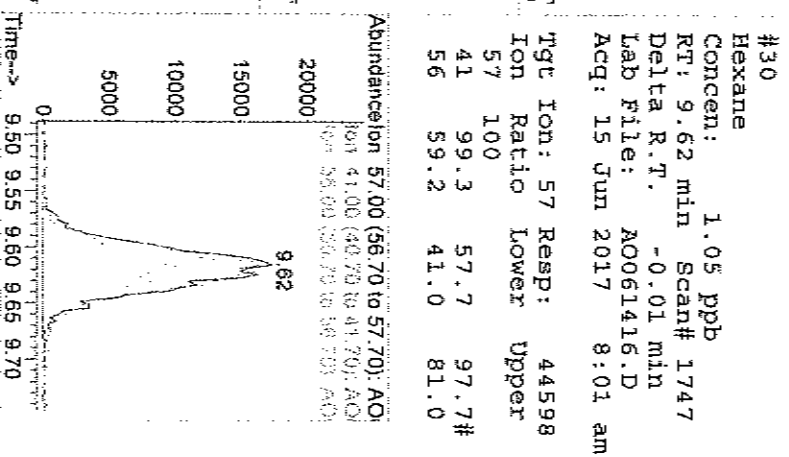
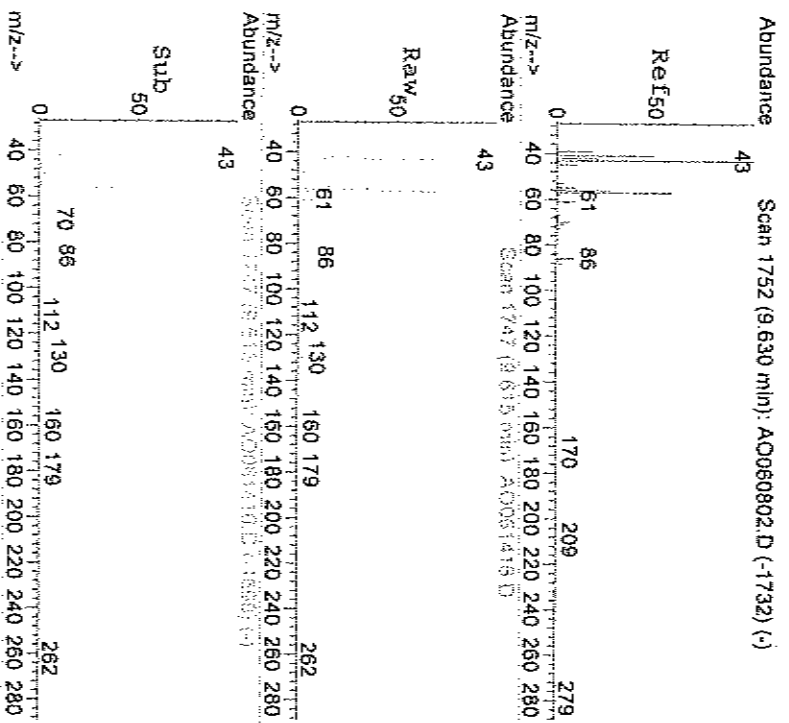


Abundance Scan 72.00 (71.70 to 72.70): AO061416.D

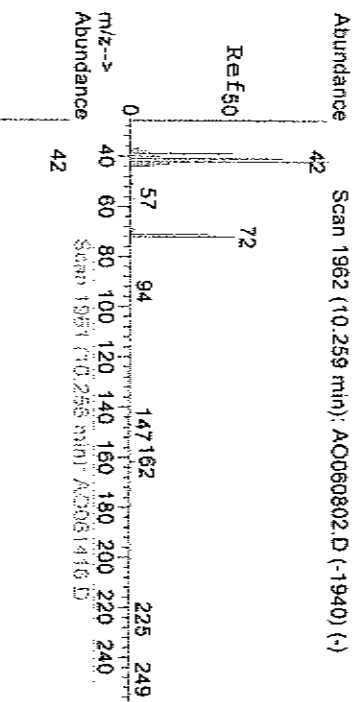
Time-->

8.86

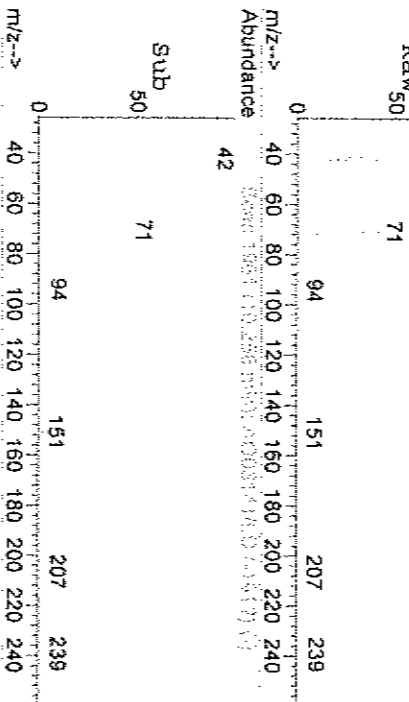




#33
Tetrahydrofuran
Concen: 0.50 ppb
RT: 10.26 min Scan# 1961
Delta R.T. -0.00 min
Lab File: AO061416.D
Acq: 15 Jun 2017 8:01 am

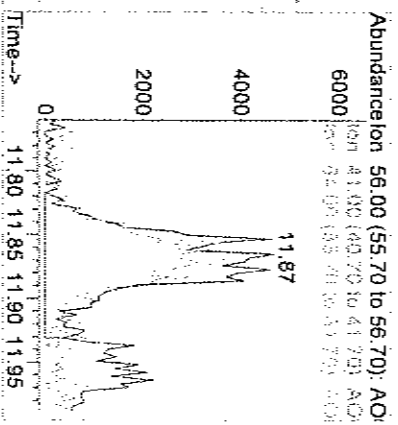
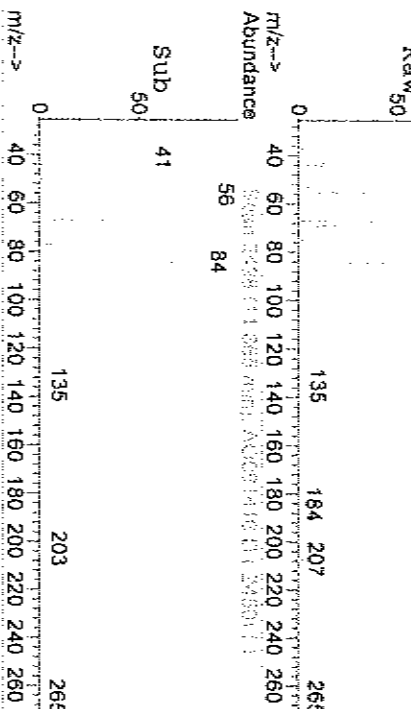


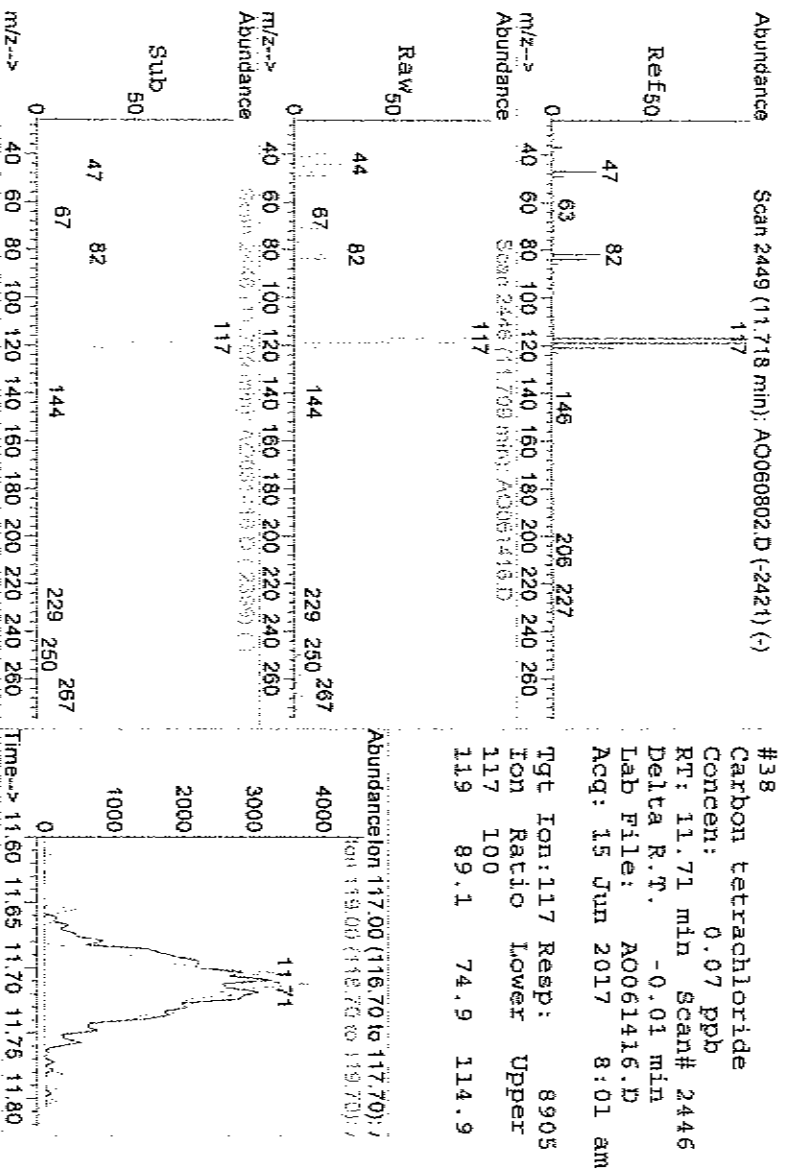
Tgt Ion: 42 Resp: 14899
Ion Ratio Lower Upper
42 100
71 35.4 14.9 54.9
72 38.5 22.2 62.2



#37
Cyclohexane
Concen: 0.30 ppb
RT: 11.87 min Scan# 2498
Delta R.T. -0.01 min
Lab File: AO061416.D
Acq: 15 Jun 2017 8:01 am

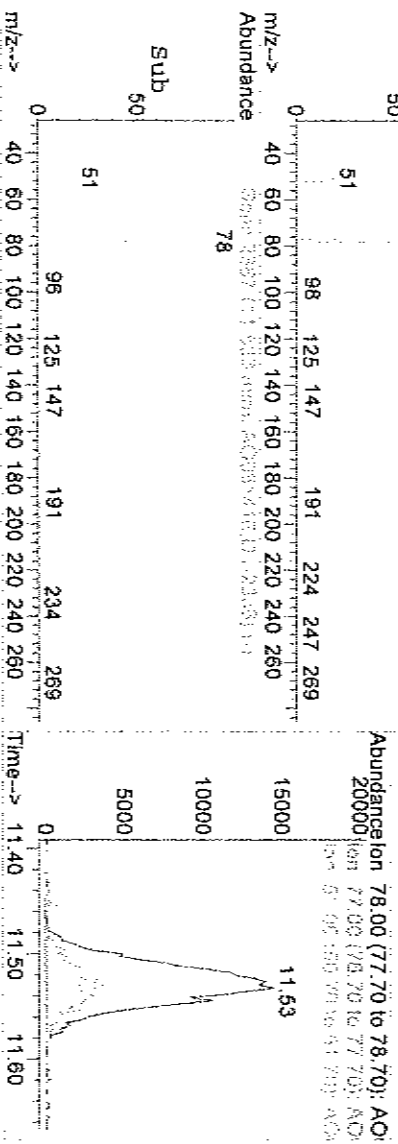
Tgt Ion: 56 Resp: 12955
Ion Ratio Lower Upper
56 100
41 75.2 43.2 93.2
84 79.4 64.8 104.8





#39
Benzene
Concen: 0.37 ppb
RT: 11.53 min Scan# 2387
Delta R.T. 0.00 min
Lab File: A0061416.D
Acq: 15 Jun 2017 8:01 am

Tgt Ion: 78 Resp: 37789
Ion Ratio Lower Upper
78 100
77 25.5 0.0 39.9
51 22.3 0.0 35.8



#42
2,2,4-trimethylpentane

1030

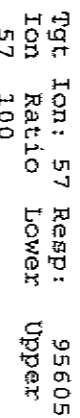
1030

2823 371#

1. m, n

416.D

8:01 am

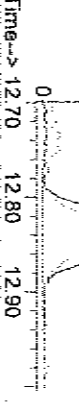


TOT TON: 57 BASTN: 95605

Ion	Ratio	Lower	Upper
Ag	100	100	100
Co	100	100	100
Cr	100	100	100
Cu	100	100	100
Fe	100	100	100
Mn	100	100	100
Ni	100	100	100
Pb	100	100	100
Sr	100	100	100
Zn	100	100	100

57	100	++
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56	39.0	7.8	47.8
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#43
Heptane

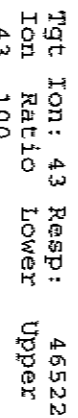
Concent: 1.02 ppb

RT: 13.15 min Scan# 2927

Delta R.T. -0.00 min

Lab File: A0061416.D

Acq: 15 Jun 2017 8:01 a



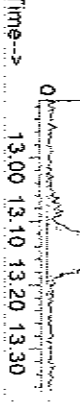
Met Tom: 42 Years

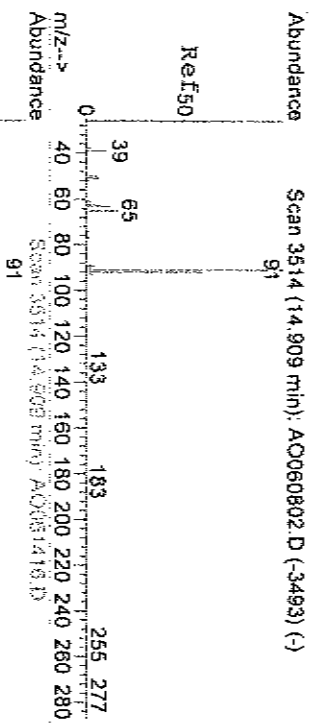
Top	Base	Lower	Inner
196	101	43	40222
197	102	44	40223
198	103	45	40224
199	104	46	40225
200	105	47	40226
201	106	48	40227
202	107	49	40228
203	108	50	40229
204	109	51	40230
205	110	52	40231
206	111	53	40232
207	112	54	40233
208	113	55	40234
209	114	56	40235
210	115	57	40236
211	116	58	40237
212	117	59	40238
213	118	60	40239
214	119	61	40240
215	120	62	40241
216	121	63	40242
217	122	64	40243
218	123	65	40244
219	124	66	40245
220	125	67	40246
221	126	68	40247
222	127	69	40248
223	128	70	40249
224	129	71	40250
225	130	72	40251
226	131	73	40252
227	132	74	40253
228	133	75	40254
229	134	76	40255
230	135	77	40256
231	136	78	40257
232	137	79	40258
233	138	80	40259
234	139	81	40260
235	140	82	40261
236	141	83	40262
237	142	84	40263
238	143	85	40264
239	144	86	40265
240	145	87	40266
241	146	88	40267
242	147	89	40268
243	148	90	40269
244	149	91	40270
245	150	92	40271
246	151	93	40272
247	152	94	40273
248	153	95	40274
249	154	96	40275
250	155	97	40276
251	156	98	40277
252	157	99	40278
253	158	100	40279
254	159	101	40280
255	160	102	40281
256	161	103	40282
257	162	104	40283
258	163	105	40284
259	164	106	40285
260	165	107	40286
261	166	108	40287
262	167	109	40288
263	168	110	40289
264	169	111	40290
265	170	112	40291
266	171	113	40292
267	172	114	40293
268	173	115	40294
269	174	116	40295
270	175	117	40296
271	176	118	40297
272	177	119	40298
273	178	120	40299
274	179	121	40300
275	180	122	40301
276	181	123	40302
277	182	124	40303
278	183	125	40304
279	184	126	40305
280	185	127	40306
281	186	128	40307
282	187	129	40308
283	188	130	40309
284	189	131	40310
285	190	132	40311
286	191	133	40312
287	192	134	40313
288	193	135	40314
289	194	136	40315
290	195	137	40316
291	196	138	40317
292	197	139	40318
293	198	140	40319
294	199	141	40320
295	200	142	40321
296	201	143	40322
297	202	144	40323
298	203	145	40324
299	204	146	40325
300	205	147	40326
301	206	148	40327
302	207	149	40328
303	208	150	40329
304	209		

43	100	LOWEL	OPPER
LOH	KALLO		

48.4	32.6	72.6
57		

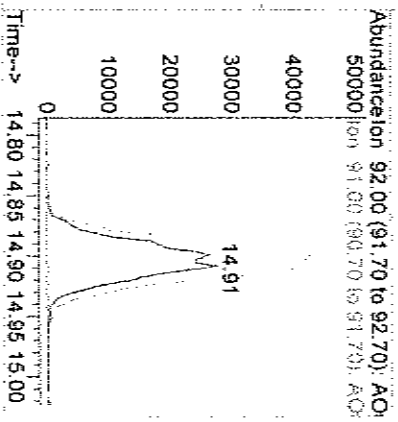
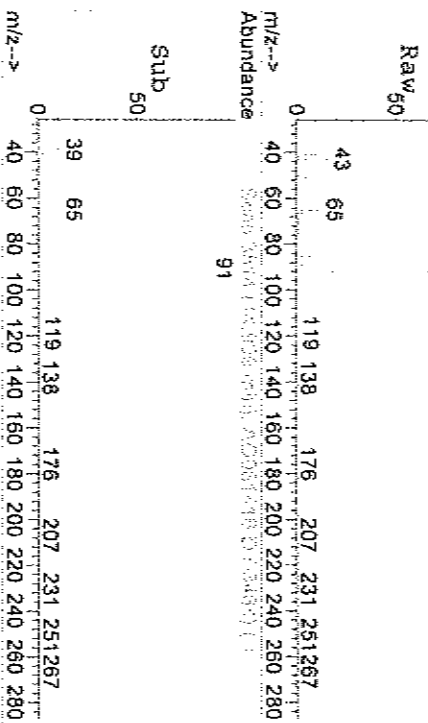
51	20.1	26.0	1.4
71	54.3	37.9	77.9





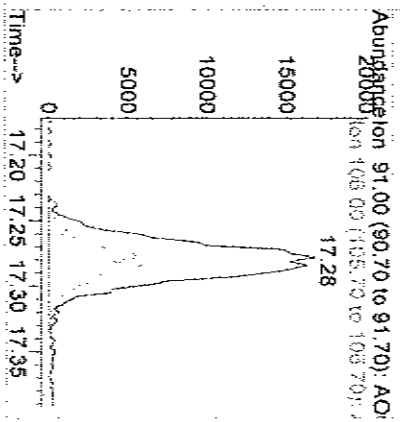
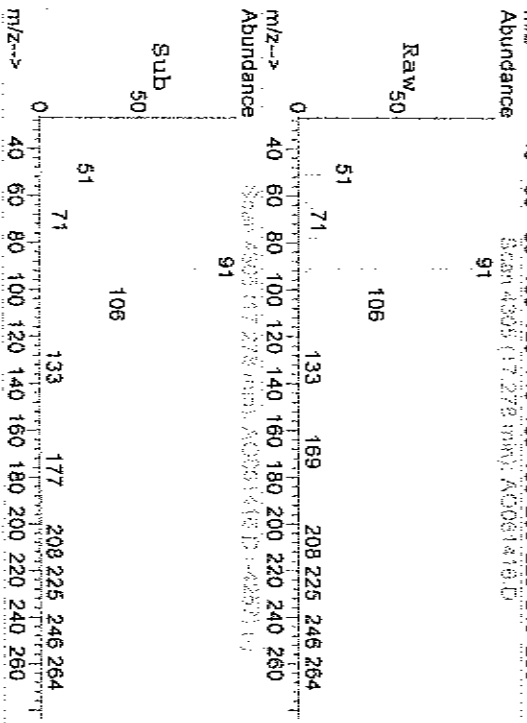
#51
Toluene
Concen: 0.72 ppb
RT: 14.91 min Scan# 3514
Delta R.T. 0.00 min
Lab File: A0061416.D
Acq: 15 Jun 2017 8:01 am

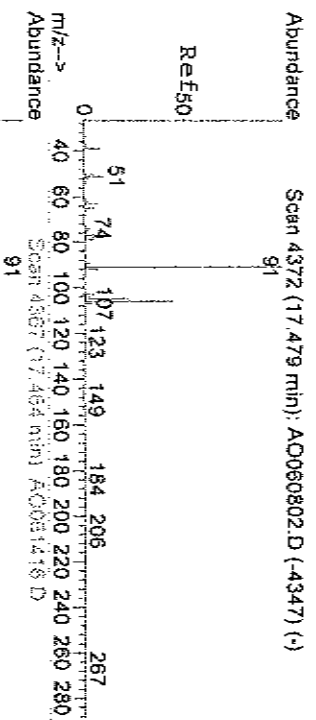
Tgt Ion: 92 Resp: 57072
Ion Ratio Lower Upper
92 100
91 176.2 138.8 178.8



#58
Ethylbenzene
Concen: 0.18 ppb
RT: 17.28 min Scan# 4305
Delta R.T. -0.01 min
Lab File: A0061416.D
Acq: 15 Jun 2017 8:01 am

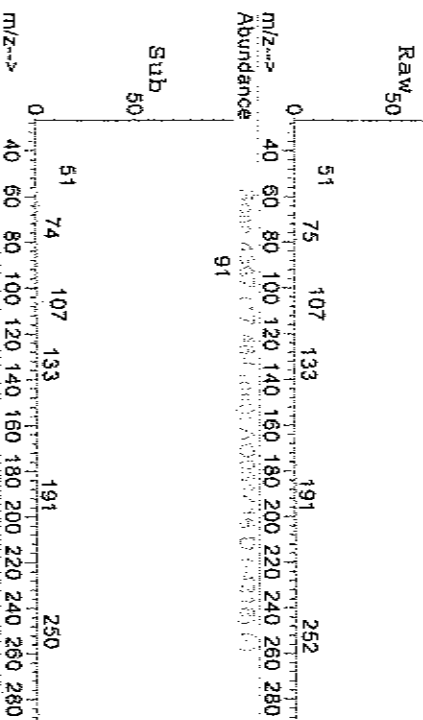
Tgt Ion: 91 Resp: 33776
Ion Ratio Lower Upper
91 100
106 30.1 10.4 50.4





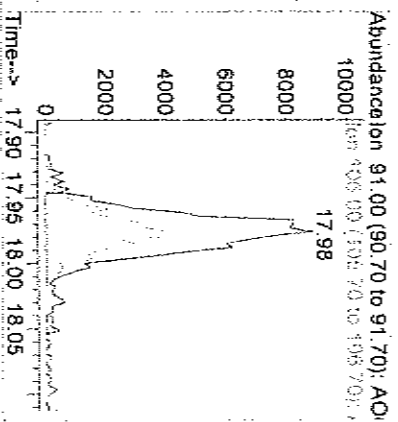
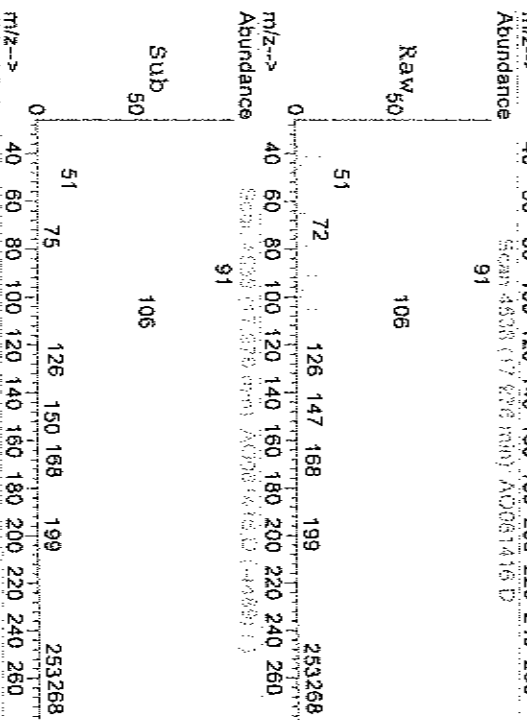
#59
m,p-xylene
Concen: 0.30 ppb
RT: 17.46 min Scan# 4367
Delta R.T. -0.00 min
Lab File: AO061416.D
Acq: 15 Jun 2017 8:01 am

Tgt Ion:	91	Resp:	48391
Ion Ratio	Lower	Upper	
91	100		
106	47.5	23.5	63.5



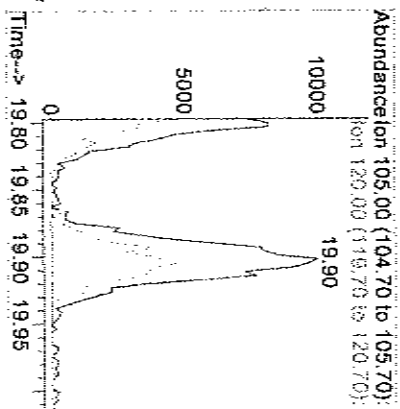
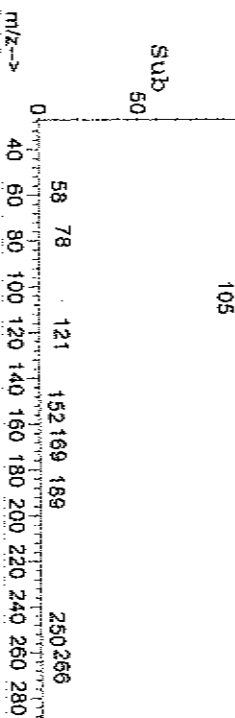
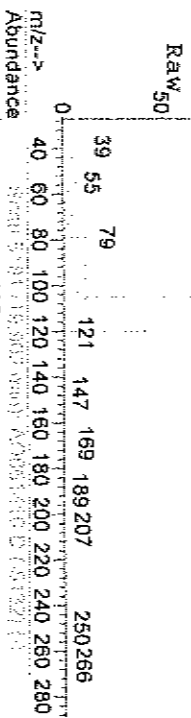
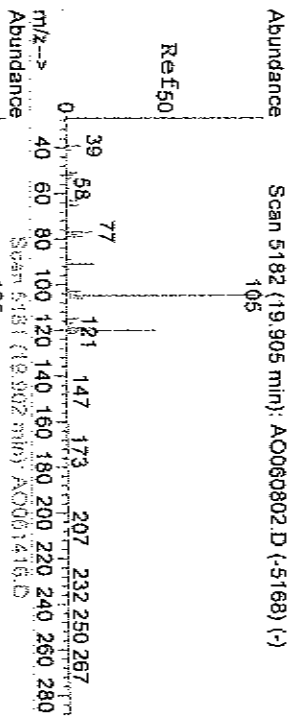
#63
o-xylene
Concen: 0.11 ppb
RT: 17.98 min Scan# 4538
Delta R.T. -0.00 min
Lab File: AO061416.D
Acq: 15 Jun 2017 8:01 am

Tgt Ion:	91	Resp:	17527
Ion Ratio	Lower	Upper	
91	100		
106	42.5	27.7	67.7



#71
1,2,4-trimethylbenzene
Concen: 0.12 ppb
RT: 19.90 min Scan# 5181
Delta R.T. -0.00 min
Lab File: AO061416.D
Acq: 15 Jun 2017 8:01 am

Tgt Ion:105 Resp: 19632
Ion Ratio Lower Upper
105 100
120 42.4 20.3 60.3



Data File : C:\HPCHEM\1\DATA\AO060829.D
Acq On : 9 Jun 2017 5:06 am
Sample : C1706015-007A 10X
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 09 07:24:44 2017

Vial: 29

Operator: RJP

Inst : MSD #1

Multiplier: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev	(Min)
1) Bromochloromethane	9.57	128	29644	1.00	ppb	0.00	
35) 1,4-difluorobenzene	11.97	114	127102	1.00	ppb	0.00	
50) Chlorobenzene-d5	16.84	117	113196	1.00	ppb	0.00	
System Monitoring Compounds							
65) Bromofluorobenzene	18.48	95	70303	0.90	ppb	0.00	
Spiked Amount	1.000	Range 70 - 130	Recovery	=	90.00%		
Target Compounds							
15) Acetone	6.16	58	38845m	2.08	ppb		Qvalue
17) Isopropyl alcohol	6.40	45	298135m	4.83	ppb		

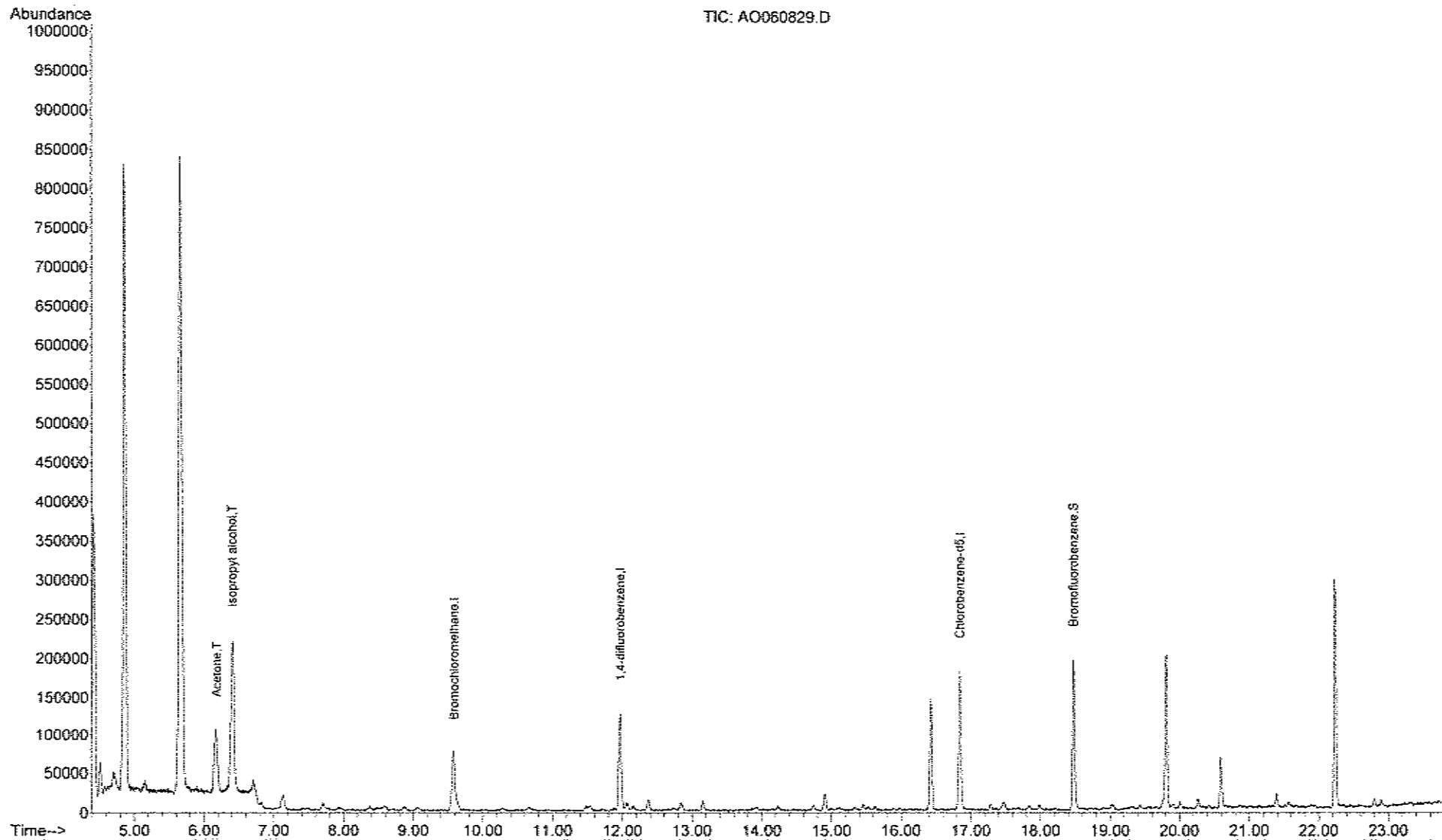
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO060829.D A605_1UG.M Thu Jun 29 10:08:15 2017 MSD1

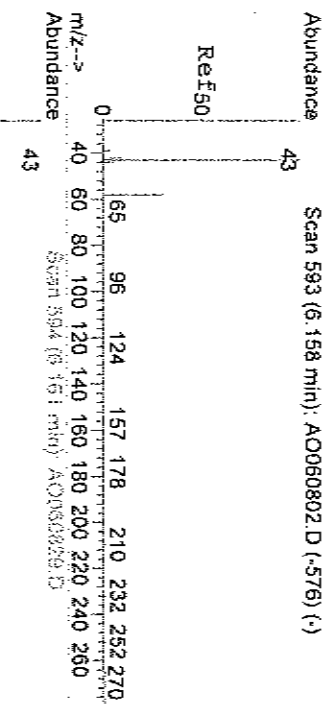
Data File : C:\HPCHEM\1\DATA\AO060829.D
Acq On : 9 Jun 2017 5:06 am
Sample : C1706015-007A 10X
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 15 11:17 2017

Vial: 29
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

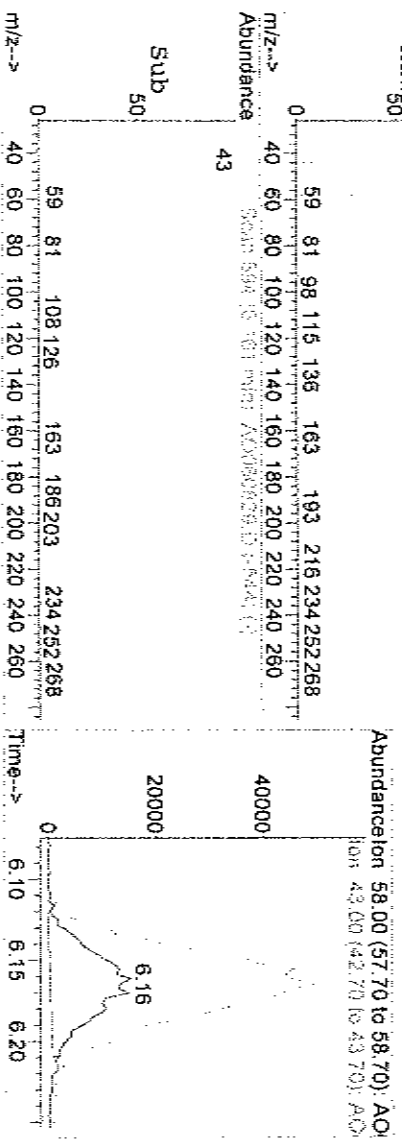
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration



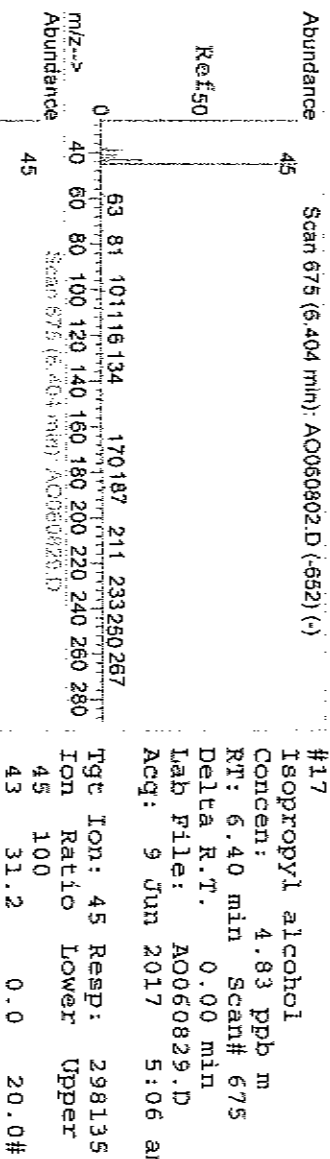


#15
Acetone 2.08 ppb m
Concen: 2.08 ppb m
RT: 6.16 min Scan# 594
Delta R.T. 0.00 min
Lab File: AO060829.D
Acq: 9 Jun 2017 5:06 am

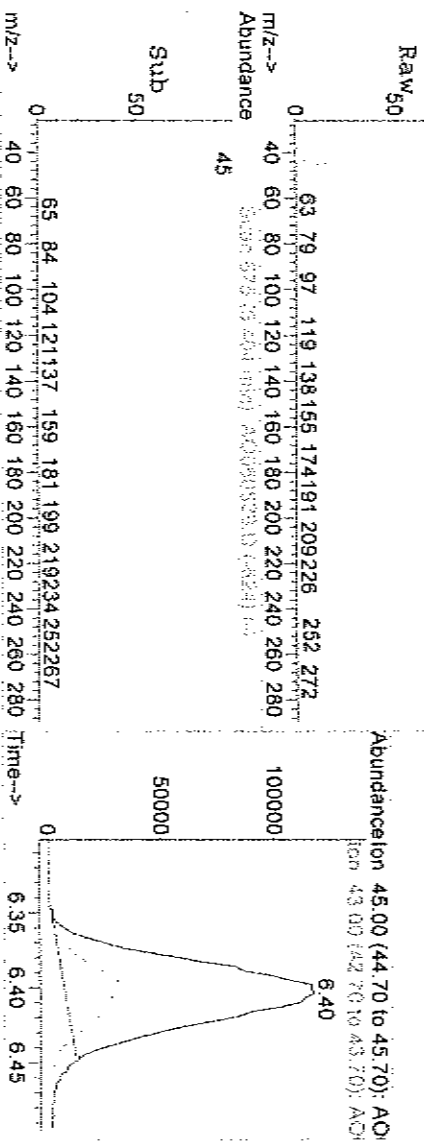
Tgt Ion: 58 Resp: 38845
Ion Ratio Lower Upper
58 100
43 359.5 263.2 323.2#



#17
Isopropyl alcohol
Concen: 4.83 ppb m
RT: 6.40 min Scan# 675
Delta R.T. 0.00 min
Lab File: AO060829.D
Acq: 9 Jun 2017 5:06 am



Tgt Ion: 45 Resp: 298135
Ion Ratio Lower Upper
45 100
43 31.2 0.0 20.0#



Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-008A

Client Sample ID: Rm 107 Dup
 Tag Number: 98.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-3			FLD		Analyst:
Lab Vacuum Out	-30			"Hg		6/7/2017
				"Hg		6/7/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.15	0.15		ppbv	1	Analyst: RJP 6/15/2017 8:43:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,2,4-Trimethylbenzene	0.18	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,2-Dibromooethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
1,4-Dioxane	< 0.30	0.30		ppbv	1	6/15/2017 8:43:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
4-ethyltoluene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Acetone	17	3.0		ppbv	10	6/9/2017 5:45:00 AM
Allyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Benzene	0.68	0.15		ppbv	1	6/15/2017 8:43:00 AM
Benzyl chloride	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Bromodichloromethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Bromoform	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Bromomethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Carbon disulfide	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Carbon tetrachloride	0.080	0.040		ppbv	1	6/15/2017 8:43:00 AM
Chlorobenzene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Chloroethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Chloroform	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Chloromethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Cyclohexane	1.4	0.15		ppbv	1	6/15/2017 8:43:00 AM
Dibromochloromethane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Ethyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM

Qualifiers: ** Quantitation Limit

Results reported are not blank corrected

B Analyte detected in the associated Method Blank
 E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated.
 ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: Labella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-008A

Client Sample ID: Rm 107 Dup
 Tag Number: 98.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Ethylbenzene	0.22	TO-15		ppbv	1	Analyst: RJP 6/15/2017 8:43:00 AM
Freon 11	0.27	0.15		ppbv	1	6/15/2017 8:43:00 AM
Freon 113	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Freon 114	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Freon 12	0.53	0.15		ppbv	1	6/15/2017 8:43:00 AM
Heptane	2.2	0.15		ppbv	1	6/15/2017 8:43:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Hexane	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Isopropyl alcohol	29	1.5		ppbv	10	6/9/2017 5:45:00 AM
m&p-Xylene	0.44	0.30		ppbv	1	6/15/2017 8:43:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 8:43:00 AM
Methyl Ethyl Ketone	1.5	0.30		ppbv	1	6/15/2017 8:43:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbv	1	6/15/2017 8:43:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Methylene chloride	1.0	0.15		ppbv	1	6/15/2017 8:43:00 AM
o-Xylene	0.17	0.15		ppbv	1	6/15/2017 8:43:00 AM
Propylene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Styrene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Toluene	1.2	0.15		ppbv	1	6/15/2017 8:43:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Trichloroethene	0.22	0.040		ppbv	1	6/15/2017 8:43:00 AM
Vinyl acetate	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Vinyl Bromide	< 0.15	0.15		ppbv	1	6/15/2017 8:43:00 AM
Vinyl chloride	< 0.040	0.040		ppbv	1	6/15/2017 8:43:00 AM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	6/15/2017 8:43:00 AM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-008A

Client Sample ID: Rm 107 Dup
 Tag Number: 98,260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	TO-15 0.82		ug/m3	1	Analyst: RJP 6/15/2017 8:43:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 8:43:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:43:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:43:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 8:43:00 AM
1,2,4-Trimethylbenzene	0.88	0.74		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dibromooethane	< 1.2	1.2		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dichloropropene	< 0.69	0.69		ug/m3	1	6/15/2017 8:43:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/15/2017 8:43:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 8:43:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:43:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:43:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 8:43:00 AM
2,2,4-Trimethylpentane	< 0.70	0.70		ug/m3	1	6/15/2017 8:43:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/15/2017 8:43:00 AM
Acetone	41	7.1		ug/m3	10	6/9/2017 5:45:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 8:43:00 AM
Benzene	2.2	0.48		ug/m3	1	6/15/2017 8:43:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 8:43:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM
Bromoforn	< 1.6	1.6		ug/m3	1	6/15/2017 8:43:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 8:43:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/15/2017 8:43:00 AM
Carbon tetrachloride	0.50	0.25		ug/m3	1	6/15/2017 8:43:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 8:43:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 8:43:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/15/2017 8:43:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/15/2017 8:43:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:43:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:43:00 AM
Cyclohexane	4.9	0.52		ug/m3	1	6/15/2017 8:43:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 8:43:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/15/2017 8:43:00 AM
Ethylbenzene	0.96	0.65		ug/m3	1	6/15/2017 8:43:00 AM
Freon 11	1.5	0.84		ug/m3	1	6/15/2017 8:43:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 8:43:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM

Qualifiers: ** Quantitation Limit

Results reported are not blank corrected

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 107 Dup

Lab Order: C1706015

Tag Number: 98.260

Project: 690 ST PAUL St

Collection Date: 6/5/2017

Lab ID: C1706015-008A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
Freon 12	2.6	TO-15 0.74		ug/m3	1	Analyst: RJP 6/15/2017 8:43:00 AM
Heptane	0.1	0.61		ug/m3	1	6/15/2017 8:43:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 8:43:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/15/2017 8:43:00 AM
Isopropyl alcohol	71	3.7		ug/m3	10	6/9/2017 5:45:00 AM
m&p-Xylene	1.9	1.3		ug/m3	1	6/15/2017 8:43:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:43:00 AM
Methyl Ethyl Ketone	4.5	0.88		ug/m3	1	6/15/2017 8:43:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:43:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 8:43:00 AM
Methylene chloride	3.5	0.52		ug/m3	1	6/15/2017 8:43:00 AM
o-Xylene	0.74	0.65		ug/m3	1	6/15/2017 8:43:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 8:43:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 8:43:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/15/2017 8:43:00 AM
Toluene	4.4	0.57		ug/m3	1	6/15/2017 8:43:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:43:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:43:00 AM
Trichloroethene	1.2	0.21		ug/m3	1	6/15/2017 8:43:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 8:43:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 8:43:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 8:43:00 AM

Qualifiers: ** Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
JN Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

E Estimated Value above quantitation range
J Analyte detected below quantitation limit
N/D Not Detected at the Limit of Detection

Data File : C:\HPCHEM\1\DATA\AO061417.D
 Acq On : 15 Jun 2017 8:43 am
 Sample : C1706015-008A
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 15 10:23:21 2017

Vial: 36

Operator: RJP

Inst : MSD #1

Multiplier: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.58	128	33509	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.96	114	158237	1.00 ppb	0.00
50) Chlorobenzene-d5	16.83	117	141533	1.00 ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	91786	0.94 ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	= 94.00%

Target Compounds					Qvalue
3) Freon 12	4.56	85	114579	0.53 ppb	96
14) Freon 11	6.34	101	71679	0.27 ppb	94
15) Acetone	6.15	58	311258	14.71 ppb	74
17) Isopropyl alcohol	6.40	45	1910757	27.40 ppb	100
21) Methylene chloride	7.13	84	32333	1.00 ppb	79
28) Methyl Ethyl Ketone	8.86	72	24222	1.53 ppb	99
37) Cyclohexane	11.88	56	64684	1.42 ppb	97
38) Carbon tetrachloride	11.72	117	11758	0.08 ppb	97
39) Benzene	11.53	78	72623	0.68 ppb	88
43) Heptane	13.15	43	105938	2.21 ppb	97
44) Trichloroethene	12.80	130	12465	0.22 ppb	83
51) Toluene	14.91	92	95190	1.18 ppb	82
58) Ethylbenzene	17.28	91	42673	0.22 ppb	99
59) m&p-xylene	17.46	91	74541	0.44 ppb	91
63) o-xylene	17.97	91	28367	0.17 ppb	90
71) 1,2,4-trimethylbenzene	19.91	105	30304	0.18 ppb	96

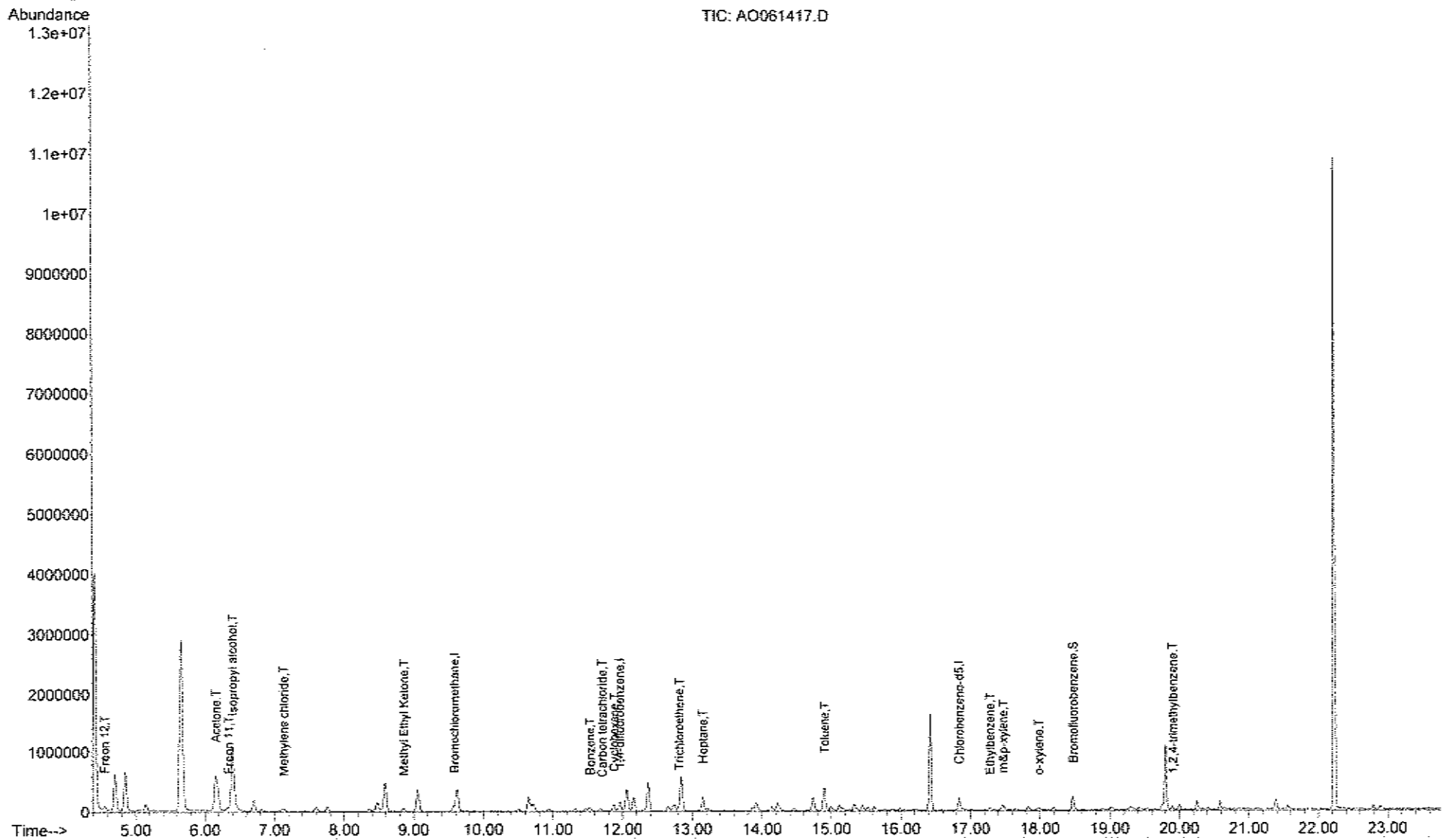
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO061417.D A605_1UG.M Thu Jun 29 10:09:31 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO061417.D
 Acq On : 15 Jun 2017 8:43 am
 Sample : C1706015-008A
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 15 11:20 2017

Vial: 36
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

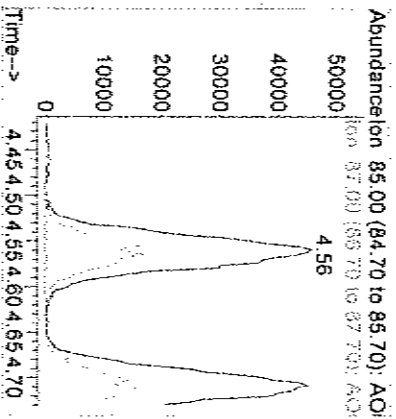
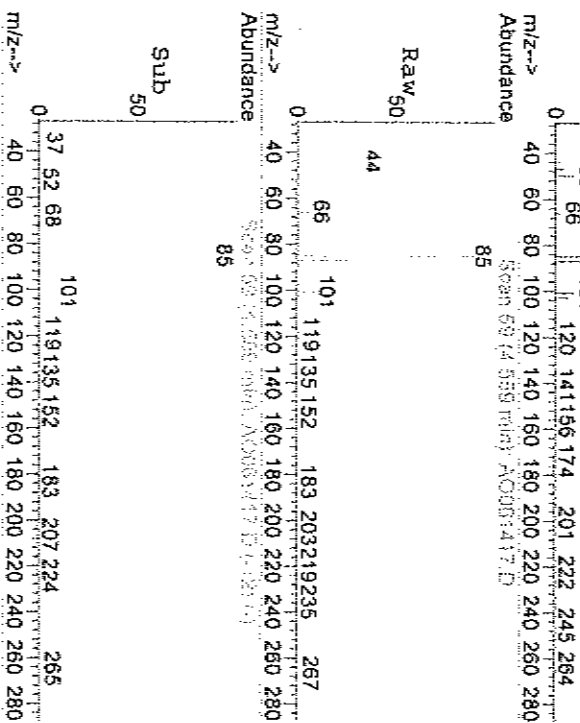
Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 10:00:17 2017
 Response via : Initial Calibration



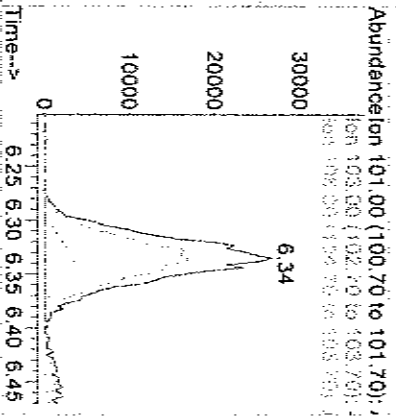
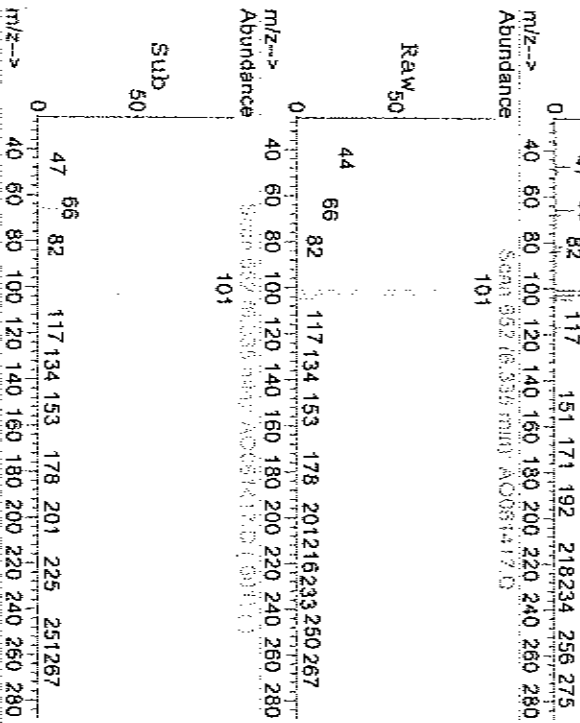
#3
 Freon 12
 Concen: 0.53 ppb
 RT: 4.56 min Scan# 59
 Delta R.T. -0.01 min
 Lab File: AO061417.D
 Acq: 15 Jun 2017 8:43 am

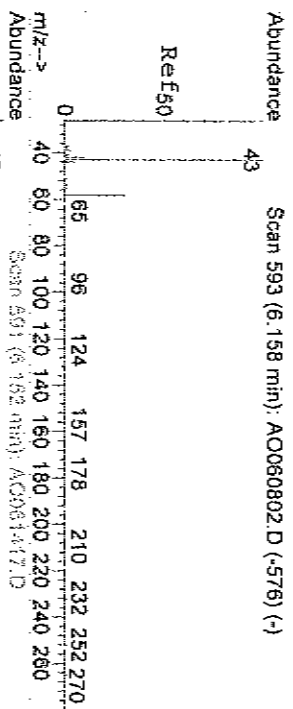
Tgt Ion: 85 Resp: 114579
 Ion Ratio Lower Upper
 85 100
 87 33.5 11.3 51.3



#14
 Freon 11
 Concen: 0.27 ppb
 RT: 6.34 min Scan# 652
 Delta R.T. 0.00 min
 Lab File: AO061417.D
 Acq: 15 Jun 2017 8:43 am

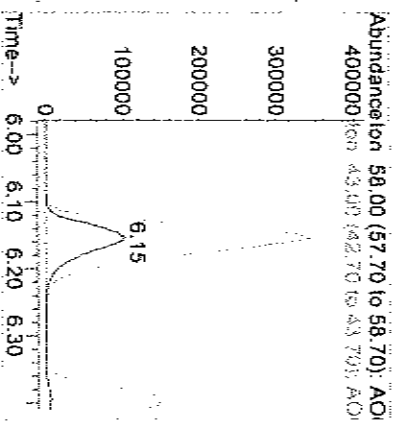
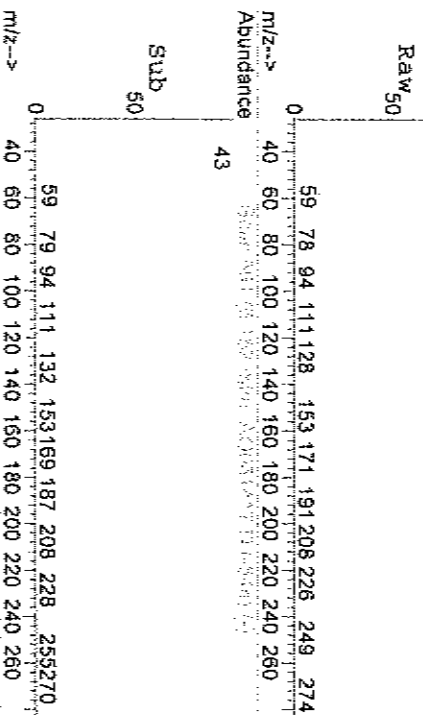
Tgt Ion: 101 Resp: 71679
 Ion Ratio Lower Upper
 101 100
 103 71.1 46.0 86.0
 105 12.2 0.0 31.4





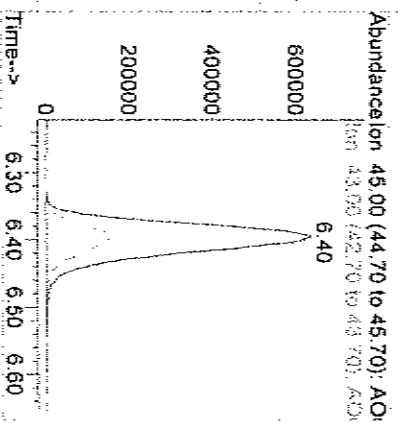
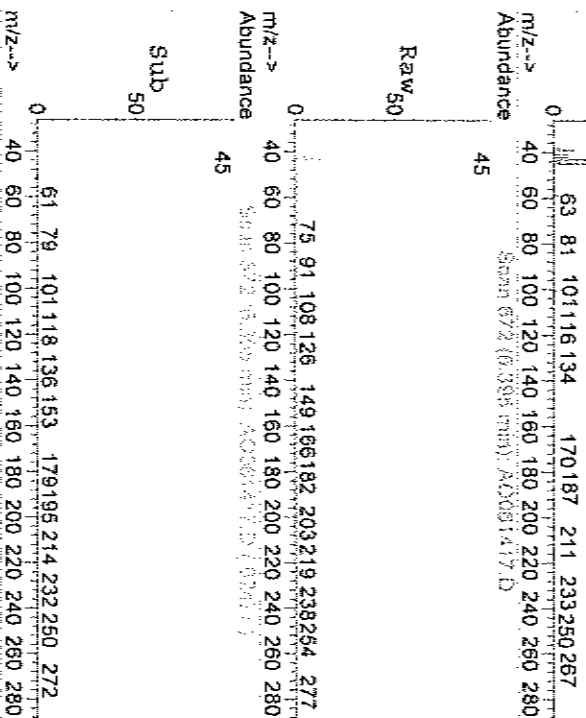
#15
Acetone
Concen: 14.71 ppb
RT: 6.15 min Scan# 591
Delta R.T. -0.01 min
Lab File: AO061417.D
Acq: 15 Jun 2017 8:43 am

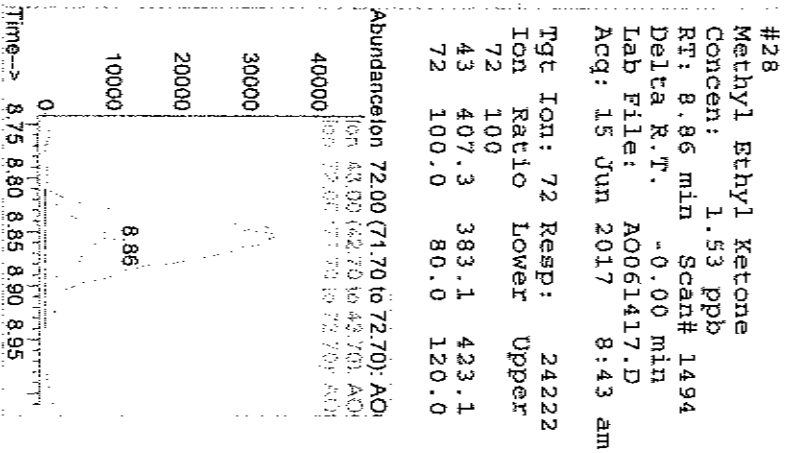
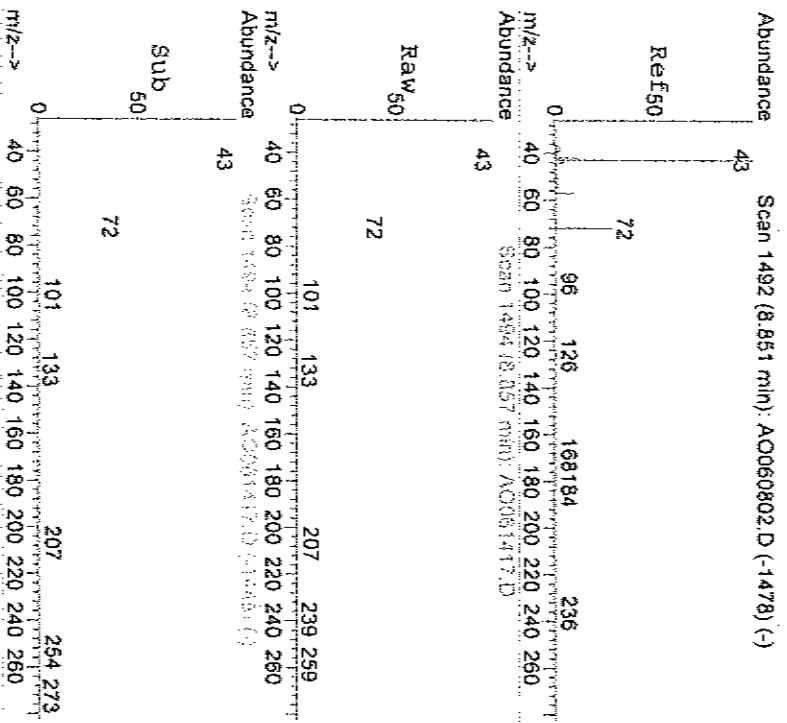
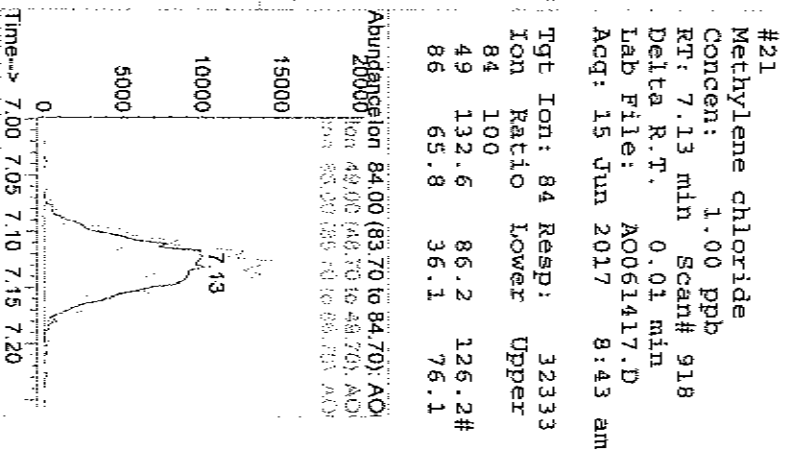
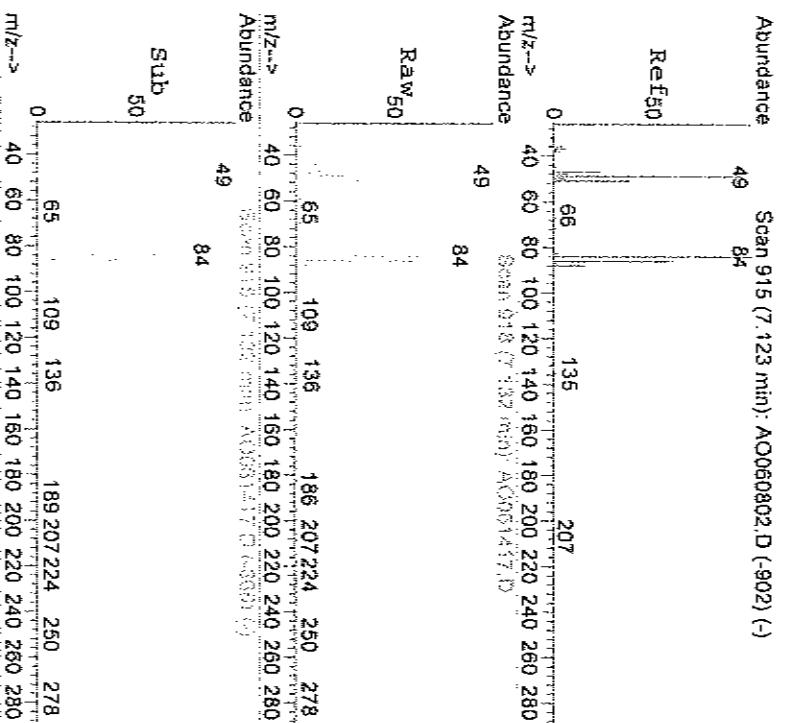
Tgt Ion: 58 Resp: 311258
Ion Ratio Lower Upper
58 100
43 343.2 263.2 323.2#

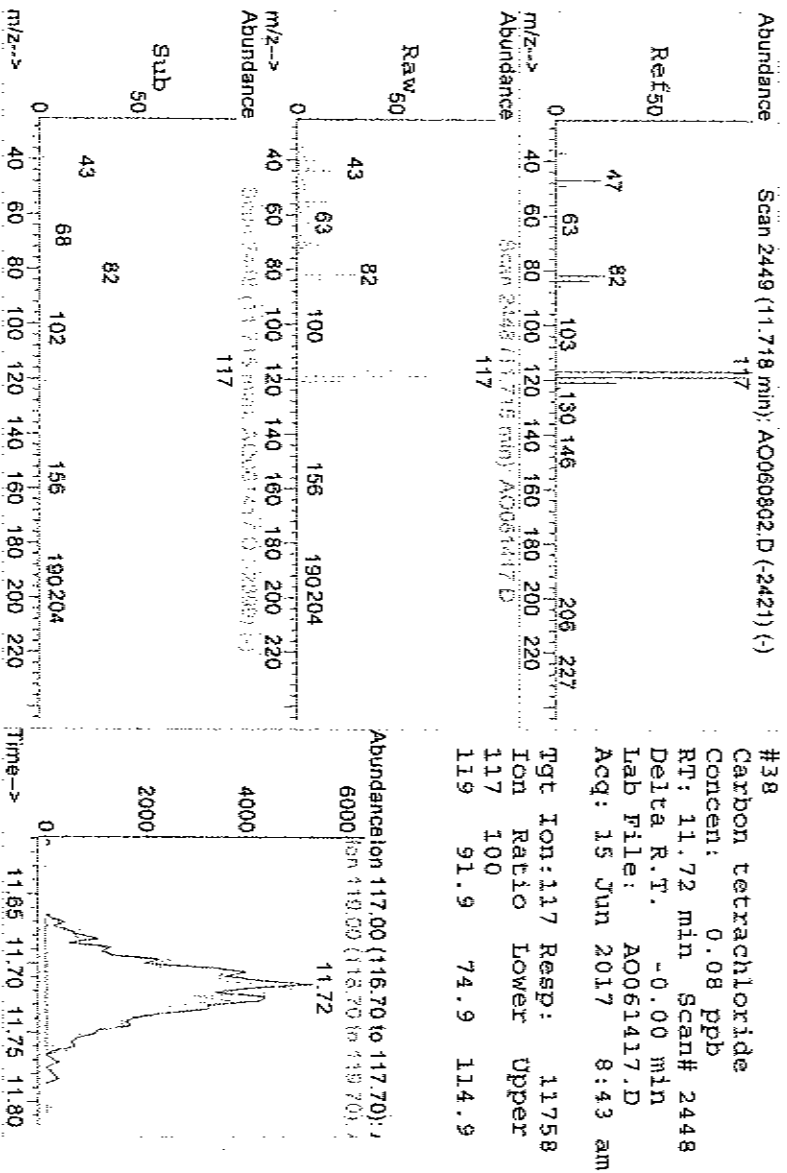
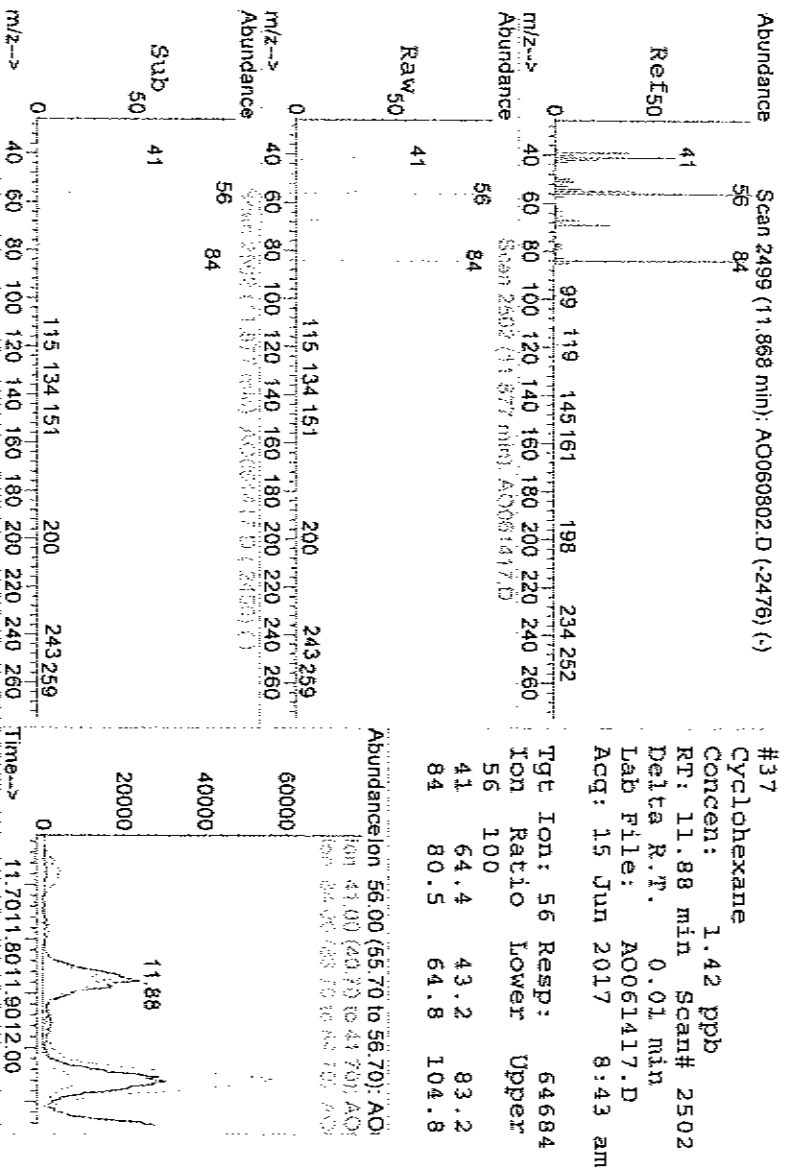


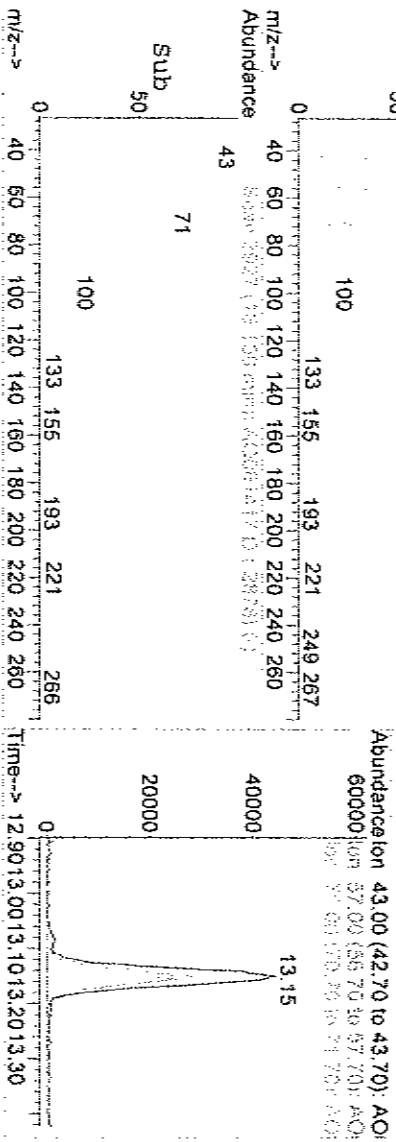
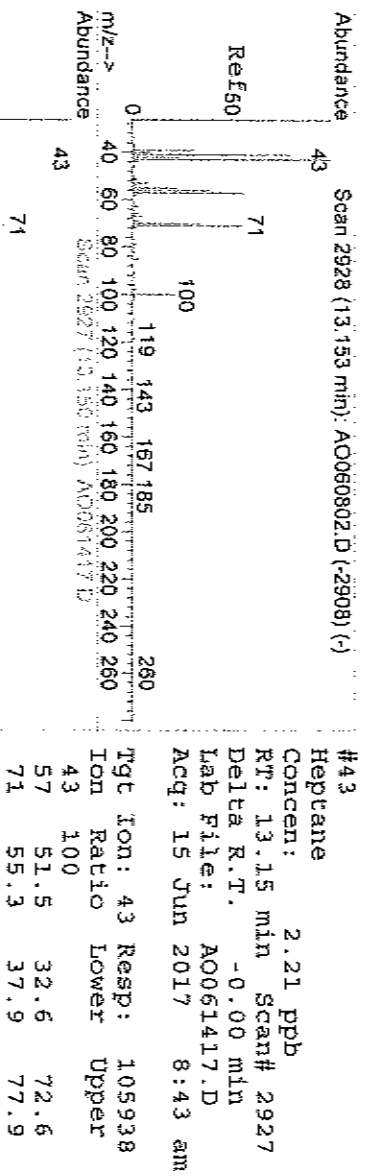
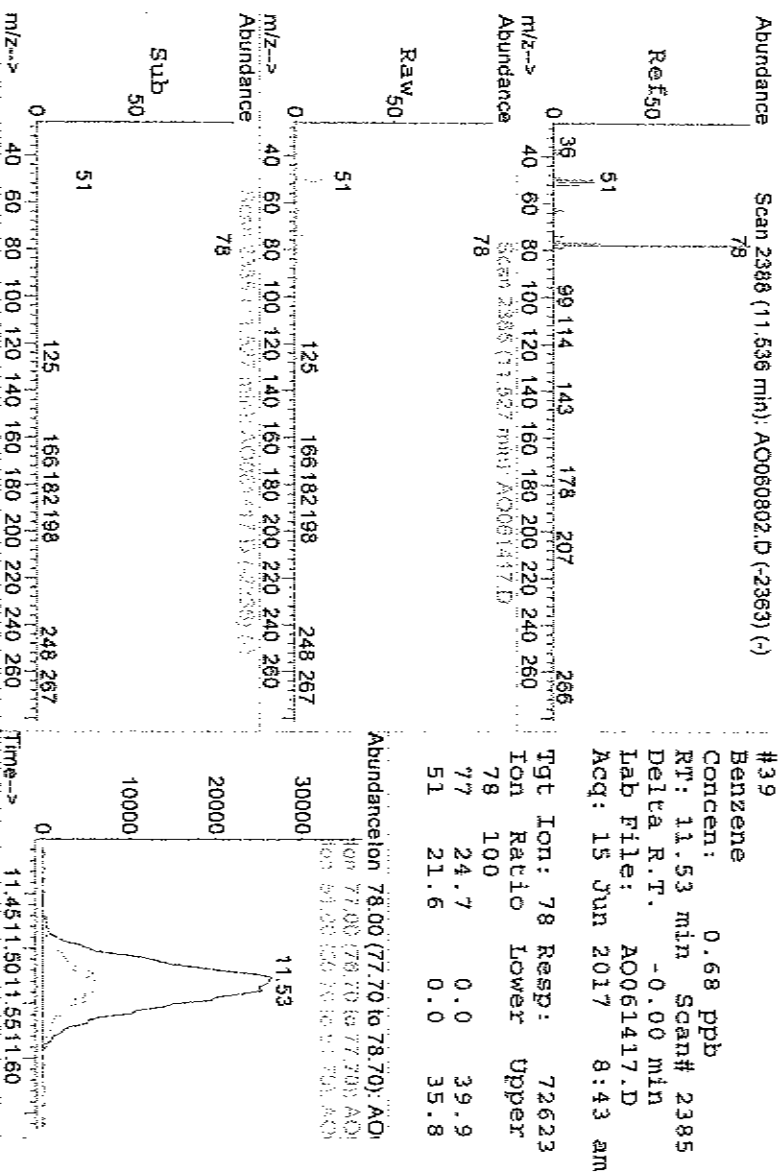
#17
Isopropyl alcohol
Concen: 27.40 ppb
RT: 6.40 min Scan# 672
Delta R.T. -0.01 min
Lab File: AO061417.D
Acq: 15 Jun 2017 8:43 am

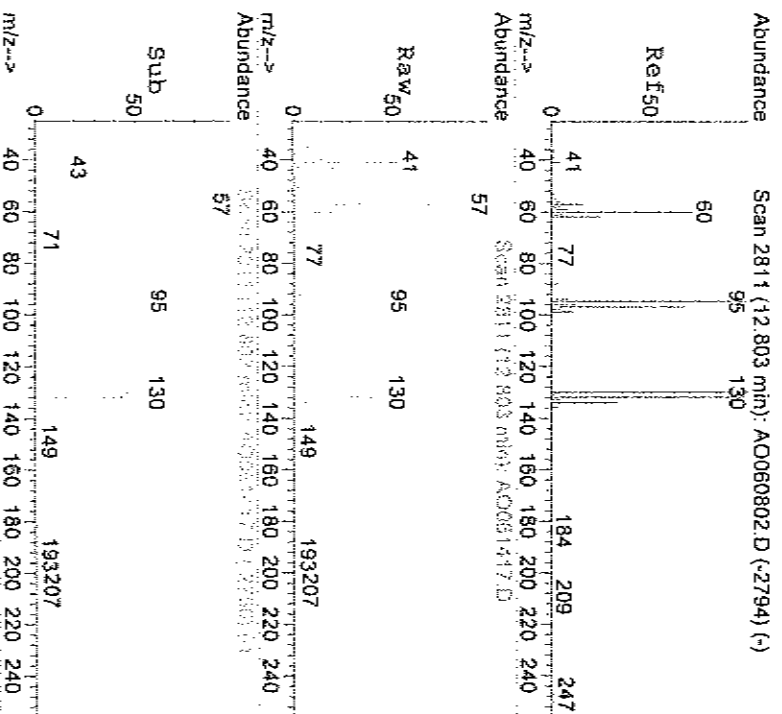
Tgt Ion: 45 Resp: 1910757
Ion Ratio Lower Upper
45 100
43 24.4 0.0 20.0#





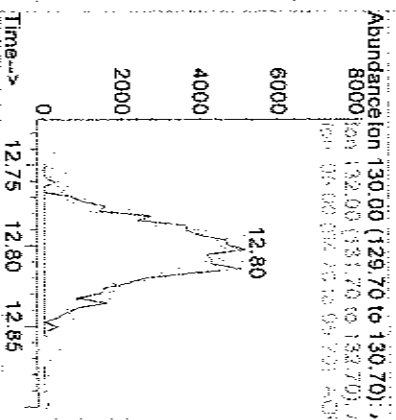






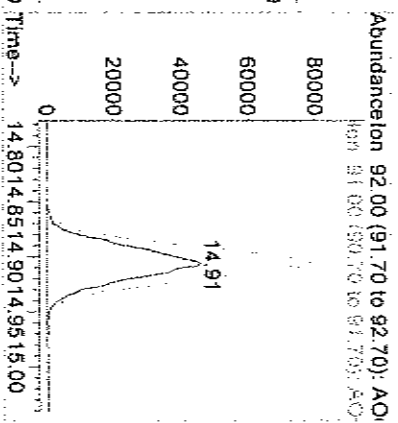
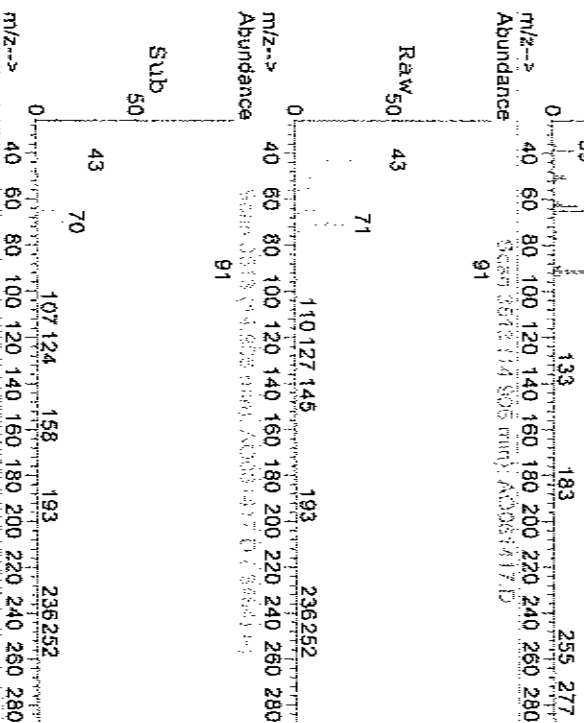
#44
Trichloroethene
Concen: 0.22 ppb
RT: 12.80 min Scan# 2811
Delta R.T. 0.00 min
Lab File: AO061417.D
Acq: 15 Jun 2017 8:43 am

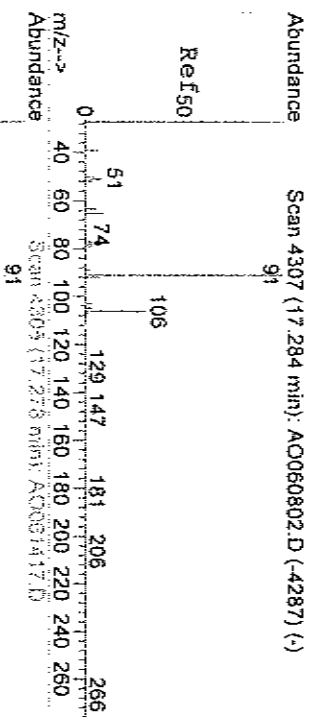
Tgt Ion: 130 Resp: 12465
Ion Ratio Lower Upper
130 100
132 96.1 69.9 109.9
95 123.0 76.3 116.3#



#51
Toluene
Concen: 1.18 ppb
RT: 14.91 min Scan# 3513
Delta R.T. -0.00 min
Lab File: AO061417.D
Acq: 15 Jun 2017 8:43 am

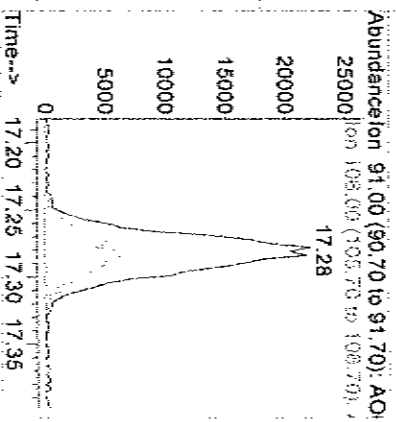
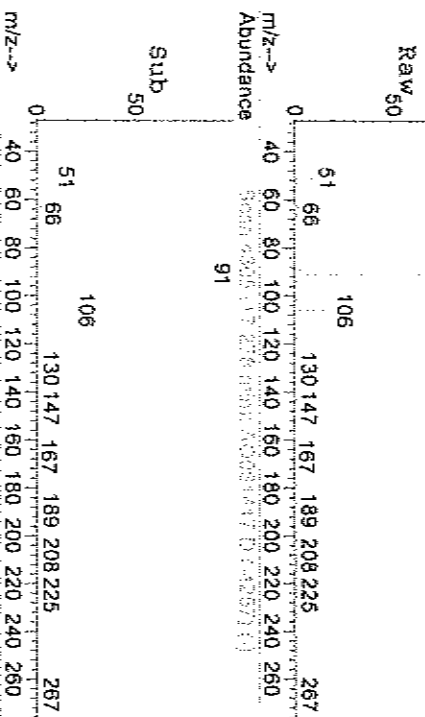
Tgt Ion: 92 Resp: 95190
Ion Ratio Lower Upper
92 100
91 182.7 138.8 178.8#





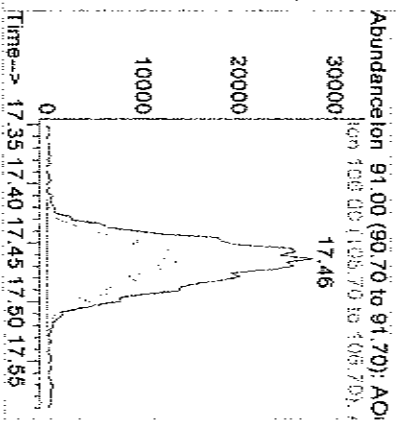
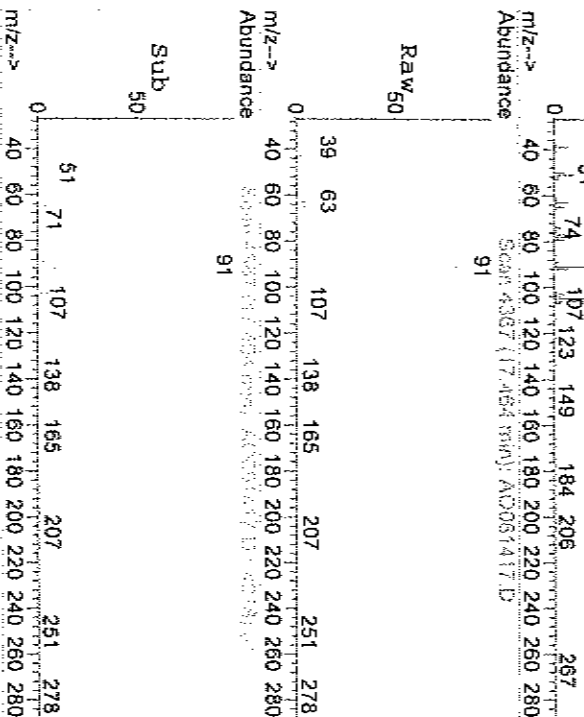
#58
Ethylbenzene
Concen: 0.22 ppb
RT: 17.28 min Scan# 4305
Delta R.T. -0.01 min
Lab File: AO061417.D
Acq: 15 Jun 2017 8:43 am

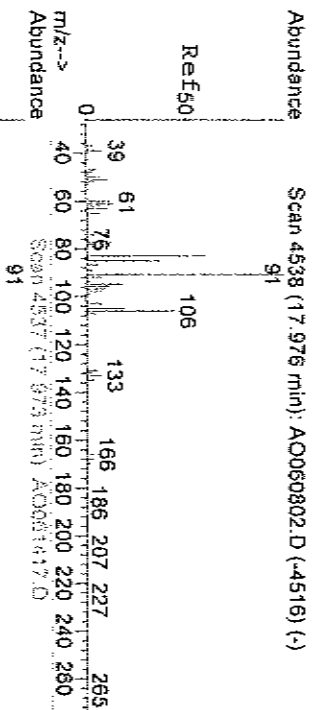
Tgt Ion: 91 Resp: 42673
Ion Ratio Lower Upper
91 100
106 30.8 10.4 50.4



#59
mXp-ylene
Concen: 0.44 ppb
RT: 17.46 min Scan# 4367
Delta R.T. -0.00 min
Lab File: AO061417.D
Acq: 15 Jun 2017 8:43 am

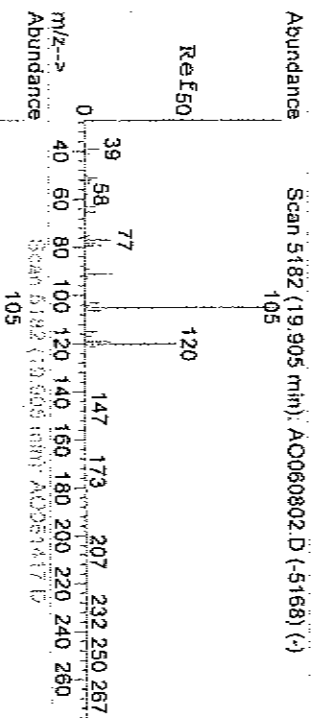
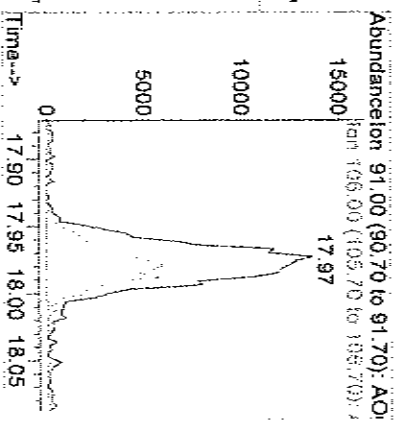
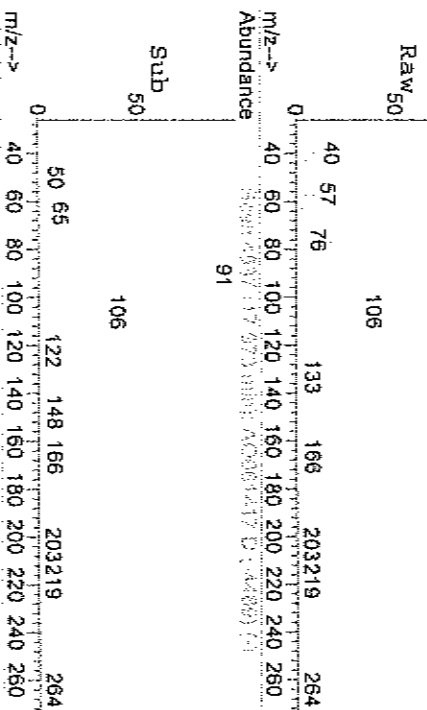
Tgt Ion: 91 Resp: 74541
Ion Ratio Lower Upper
91 100
106 49.0 23.5 63.5





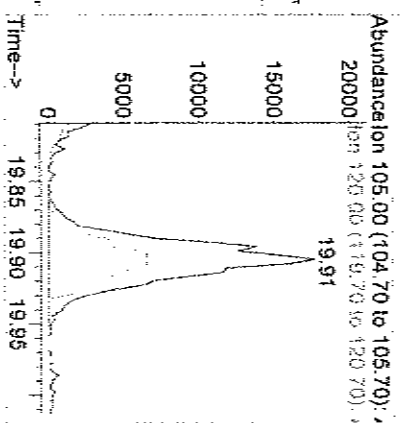
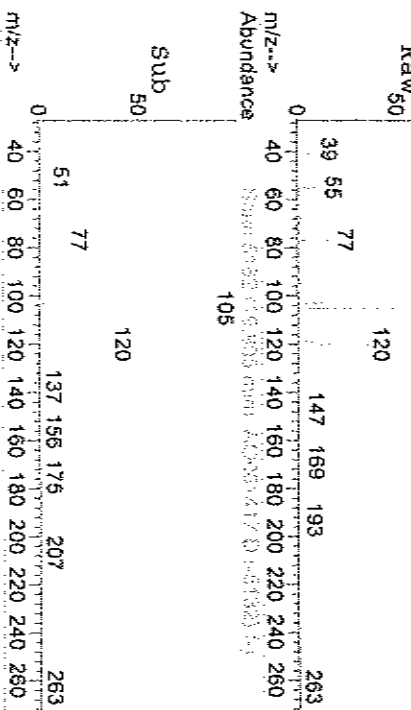
#63
o-xylene
Concen: 0.17 ppb
RT: 17.97 min Scan# 4537
Delta R.T. -0.01 min
Lab File: A0061417.D
Acq: 15 Jun 2017 8:43 am

Tgt Ion: 91	Resp: 28367
Ion Ratio Lower	Upper
91	100
106	41.2 27.7 67.7



#71
1,2,4-trimethylbenzene
Concen: 0.18 ppb
RT: 19.91 min Scan# 5182
Delta R.T. 0.00 min
Lab File: A0061417.D
Acq: 15 Jun 2017 8:43 am

Tgt Ion: 105	Resp: 30304
Ion Ratio Lower	Upper
105	100
120	42.8 20.3 60.3



Data File : C:\HPCHEM\1\DATA\AO060830.D
Acq On : 9 Jun 2017 5:45 am
Sample : C1706015-008A 10X
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 09 07:24:45 2017

Vial: 30
Operator: RJP
Inst : MSD #1
Multiplier: 1.00
Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards

R.T. QIon Response Conc Units Dev(Min)

1) Bromochloromethane	9.58	128	29816	1.00	ppb	0.01
35) 1,4-difluorobenzene	11.97	114	129103	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	111432	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	71708	0.93	ppb	0.00
Spiked Amount	1.000	Range	70 ~ 130	Recovery	%	93.00%

Target Compounds

15) Acetone	6.16	58	32357	1.72	ppb	Qvalue 86
17) Isopropyl alcohol	6.41	45	178827	2.88	ppb	# 100

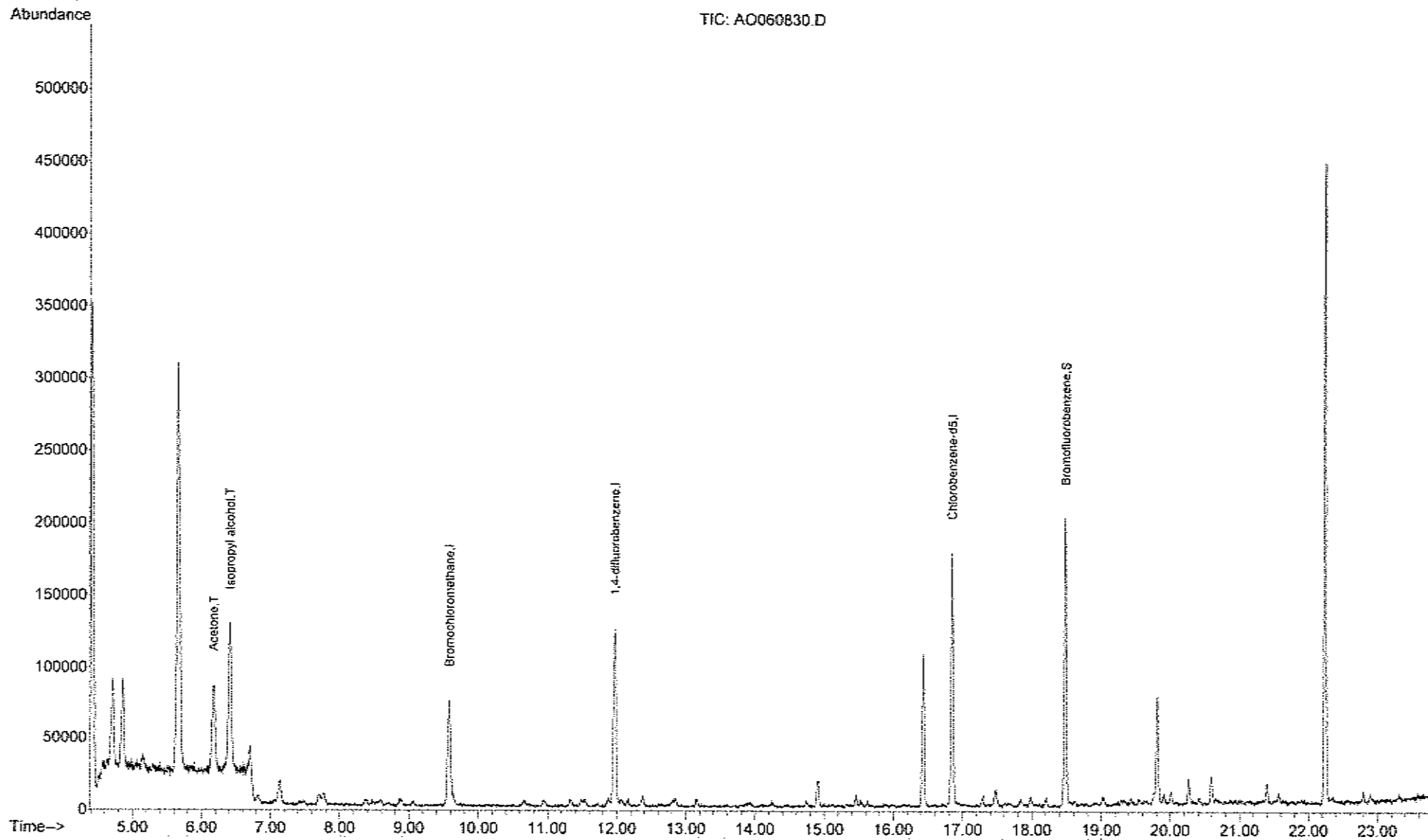
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO060830.D A605_1UG.M Thu Jun 29 10:08:20 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060830.D
Acq On : 9 Jun 2017 5:45 am
Sample : C1706015-008A 10X
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 15 11:19 2017

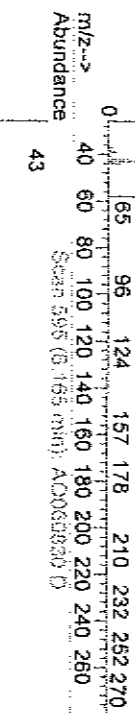
Vial: 30
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration

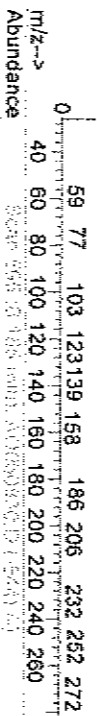


#15
Acetone 1.72 ppb
Concn: 1.72 ppb
RT: 6.16 min Scan# 595
Delta R.T. 0.00 min
Lab File: AO060830.D
Acq: 9 Jun 2017 5:45 am



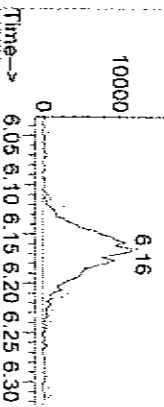
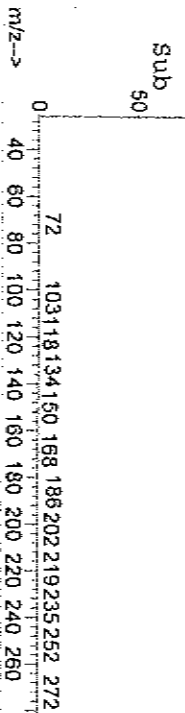
Tgt Ion: 58 Resp: 32357
Ion Ratio Lower Upper
58 100
43 319.4 263.2 323.2

Raw 50

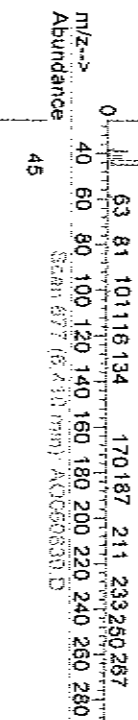


Abundance Ion 58.00 (57.70 to 58.70): AO

40000 Ion 43.08 (42.70 to 43.70): AO

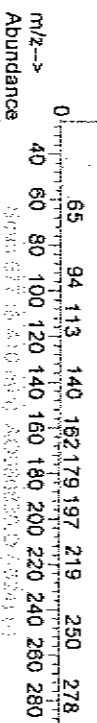


#17
Isopropyl alcohol
Concn: 2.88 ppb
RT: 6.41 min Scan# 677
Delta R.T. 0.01 min
Lab File: AO060830.D
Acq: 9 Jun 2017 5:45 am



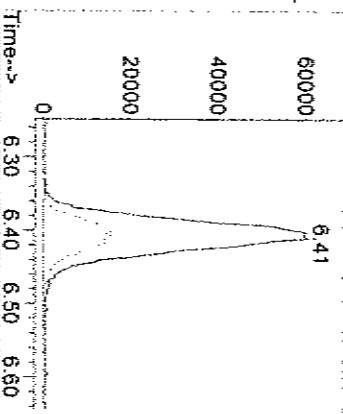
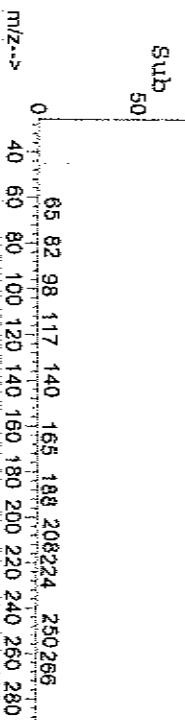
Tgt Ion: 45 Resp: 178827
Ion Ratio Lower Upper
45 100
43 28.2 0.0 20.0#

Raw 50



Abundance Ion 45.00 (44.70 to 45.70): AO

60000 Ion 43.00 (42.70 to 43.70): AO



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HECHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 09:02:02 2017
 Response via : Initial Calibration

Calibration Files
 0.04 =A0060515.D 0.10 =A0060514.D 0.15 =A0060513.D
 0.30 =A0060512.D 0.50 =A0060511.D 0.75 =A0060510.D

Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
1) I Bromochloromethane								
2) T Propylene			0.963	0.789	0.790	0.824	0.836	6.81
3) T Freon 12			7.201	6.672	6.380	6.358	6.465	7.04
4) T Chloromethane			1.464	1.203	1.181	1.170	1.180	11.45
5) T Freon 114			6.284	5.979	5.973	5.901	5.834	6.58
6) T Vinyl Chloride		1.671	1.885	1.940	1.695	1.626	1.689	9.36
7) T Butane			2.134	1.839	1.805	1.845	1.787	9.84
8) T 1,3-butadiene			1.332	1.182	1.101	1.160	1.161	7.72
9) T Bromomethane			2.632	2.784	2.244	2.269	2.280	13.29
10) T Chloroethane			0.935	0.728	0.773	0.818	0.751	12.91
11) T Ethanol			0.718	0.626	0.588	0.492	0.543	18.31
12) T Acrolein			0.711	0.623	0.574	0.524	0.567	12.38
13) T Vinyl Bromide			2.566	2.329	2.374	1.860	2.218	10.27
14) T Freon 11			8.461	7.957	7.854	8.038	7.838	4.91
15) T Acetone			0.671	0.707	0.672	0.620	0.631	7.99
16) T Pentane			0.937	0.776	0.884	0.903	0.867	6.05
17) T Isopropyl alcoh			2.390	2.475	2.018	2.119	2.081	11.83
18) T 1,1-dichloroeth		1.001	1.148	1.081	0.933	1.000	1.015	1.008
19) T Freon 113			2.490	2.526	2.455	2.401	2.435	3.49
20) T t-Butyl alcohol			2.362	2.182	2.239	2.213	2.238	5.76
21) T Methylene chlor			1.108	1.008	0.946	0.966	0.968	6.67
22) T Aliyl chloride			1.064	1.006	1.038	1.082	1.052	3.44
23) T Carbon disulfid			3.453	2.971	2.963	3.031	2.992	7.04
24) T trans-1,2-dichl			1.628	1.473	1.552	1.603	1.551	3.30
25) T methyl tert-but			3.151	3.094	2.999	3.164	3.094	1.79
26) T 1,1-dichloroeth		1.920	1.940	1.964	1.889	1.950	1.943	1.922
27) T Vinyl acetate			2.344	2.271	2.196	2.210	2.262	2.36
28) T Methyl Ethyl Ke			0.558	0.479	0.452	0.455	0.471	7.83
29) T cis-1,2-dichlor		1.525	1.492	1.425	1.450	1.429	1.480	1.449
30) T Hexane			1.173	1.228	1.155	1.276	1.215	3.22
31) T Ethyl acetate			2.674	2.788	2.634	2.764	2.723	2.83
32) T Chloroform			3.082	2.967	3.068	3.135	3.032	2.68
33) T Tetrahydrofuran			0.994	0.887	0.766	0.838	0.856	7.73
34) T 1,2-dichloroeth			2.336	2.401	2.306	2.429	2.340	3.19

35) I 1,4-difluorobenzene								
36) T 1,1,1-trichloro			0.872	0.811	0.802	0.784	0.803	3.80
37) T Cyclohexane			0.274	0.252	0.330	0.294	0.289	7.51
38) T Carbon tetrachl		0.857	0.875	0.939	0.917	0.892	0.870	0.891
39) T Benzene			0.759	0.709	0.645	0.640	0.674	5.94
40) T Methyl methacry			0.317	0.292	0.279	0.277	0.291	4.79
41) T 1,4-dioxane			0.138	0.125	0.112	0.113	0.119	8.00
42) T 2,2,4-trimethyl			0.863	0.876	0.855	0.902	0.900	3.61
43) T Heptane			0.292	0.302	0.295	0.297	0.303	2.71
44) T Trichloroethene		0.384	0.362	0.379	0.374	0.353	0.341	0.360
45) T 1,2-dichloropro			0.236	0.226	0.208	0.214	0.220	3.84
46) T Bromodichlorome			0.749	0.737	0.743	0.707	0.737	1.87
47) T cis-1,3-dichlor			0.403	0.381	0.393	0.388	0.400	2.82
48) T trans-1,3-dichl			0.403	0.407	0.393	0.386	0.405	2.88
49) T 1,1,2-trichloro			0.336	0.324	0.309	0.299	0.311	4.14
50) I Chlorobenzene-d5								
51) T Toluene			0.665	0.586	0.544	0.556	0.571	7.12

(#) = Out of Range ## Number of calibration levels exceeded format ##
 A605_1UG.M Thu Jun 29 09:27:03 2017 MSD1

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 09:02:02 2017
 Response via : Initial Calibration

Calibration Files

0.04 =A0060515.D 0.10 =A0060514.D 0.15 =A0060513.D
 0.30 =A0060512.D 0.50 =A0060511.D 0.75 =A0060510.D

Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
52) T Methyl Isobutyl			0.500	0.467	0.460	0.439	0.468	8.35
53) T Dibromochlorome			0.840	0.827	0.819	0.832	0.831	1.42
54) T Methyl Butyl Ke			0.374	0.356	0.336	0.372	0.370	14.50
55) T 1,2-dibromoetha			0.584	0.585	0.568	0.572	0.573	1.65
56) T Tetrachloroethy			0.437	0.467	0.428	0.444	0.443	2.82
57) T Chlorobenzene			0.848	0.821	0.810	0.855	0.833	1.95
58) T Ethylbenzene			2.394	1.276	1.300	1.360	1.343	3.05
59) T m,p-xylene			1.228	1.207	1.152	1.119	1.185	4.07
60) T Nonane			0.455	0.464	0.491	0.524	0.510	7.31
61) T Styrene			0.688	0.738	0.715	0.706	0.722	3.11
62) T Bromoform			0.742	0.775	0.724	0.759	0.759	2.74
63) T o-xylene			1.186	1.129	1.111	1.141	1.152	2.22
64) T Cumene			1.595	1.525	1.456	1.550	1.526	2.68
65) S Bromofluorobenz	0.629	0.678	0.671	0.687	0.700	0.706	0.692	3.92
66) T 1,1,2,2-tetrach			0.723	0.714	0.673	0.683	0.690	3.13
67) T Propylbenzene			0.373	0.393	0.388	0.419	0.397	4.04
68) T 2-Chlorotoluene			0.374	0.350	0.354	0.368	0.366	2.78
69) T 4-ethyltoluene			1.300	1.263	1.350	1.409	1.393	5.91
70) T 1,3,5-trimethyl			1.322	1.275	1.263	1.325	1.301	2.32
71) T 1,2,4-trimethyl			1.201	1.182	1.129	1.215	1.205	3.20
72) T 1,3-dichloroben			0.752	0.760	0.782	0.808	0.810	5.26
73) T benzyl chloride			0.621	0.667	0.634	0.708	0.701	8.15
74) T 1,4-dichloroben			0.688	0.690	0.686	0.770	0.749	7.28
75) T 1,2,3-trimethyl			1.130	1.156	1.153	1.194	1.193	3.44
76) T 1,2-dichloroben			0.681	0.744	0.725	0.782	0.759	5.31
77) T 1,2,4-trichloro			0.229	0.204	0.223	0.258	0.265	16.99
78) T Naphthalene			0.460	0.560	0.517	0.580	0.601	15.42
79) T Hexachloro-1,3-			0.687	0.720	0.649	0.655	0.686	3.37

(#) = Out of Range ## Number of calibration levels exceeded format ##
 A605_1UG.M Thu Jun 29 09:27:03 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060506.D
 Acq On : 5 Jun 2017 11:53 am
 Sample : A1UG_2.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 14:32:23 2017

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QION	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.57	128	40195	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.97	114	177154	1.00 ppb	0.00
50) Chlorobenzene-d5	16.83	117	159264	1.00 ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	113433	1.01 ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	= 101.00%

Target Compounds

2) Propylene	4.48	41	63910	1.89 ppb	Qvalue
3) Freon 12	4.56	85	452285	1.66 ppb	79
4) Chloromethane	4.74	50	82152m	1.77 ppb	98
5) Freon 114	4.83	85	401650	1.64 ppb	98
6) Vinyl Chloride	4.95	62	112827	1.75 ppb	93
7) Butane	5.15	43	123671	1.72 ppb	93
8) 1,3-butadiene	5.10	39	82570m	1.74 ppb	
9) Bromomethane	5.37	94	152987	1.69 ppb	94
10) Chloroethane	5.55	64	50518	1.63 ppb	84
11) Ethanol	5.66	45	33382	1.62 ppb	87
12) Acrolein	6.02	56	39525	1.78 ppb	87
13) Vinyl Bromide	5.91	106	159845	1.71 ppb	95
14) Freon 11	6.34	101	575032	1.79 ppb	100
15) Acetone	6.16	58	44419	1.75 ppb	71
16) Pentane	6.71	42	66451	1.81 ppb	40
17) Isopropyl alcohol	6.41	45	139176	1.71 ppb	100
18) 1,1-dichloroethene	7.01	96	73771	1.80 ppb	91
19) Freon 113	7.42	101	183938	1.80 ppb	95
20) t-Butyl alcohol	7.05	59	166581	1.74 ppb	96
21) Methylene chloride	7.13	84	72922	1.89 ppb	90
22) Allyl chloride	7.26	41	81616	1.82 ppb	95
23) Carbon disulfide	7.47	76	221651	1.81 ppb	82
24) trans-1,2-dichloroethene	8.17	61	121082	1.91 ppb	94
25) methyl tert-butyl ether	8.47	73	244407	1.96 ppb	95
26) 1,1-dichloroethane	8.39	63	149026	1.89 ppb	97
27) Vinyl acetate	8.55	43	182994m	2.00 ppb	
28) Methyl Ethyl Ketone	8.86	72	35834	1.91 ppb	88
29) cis-1,2-dichloroethene	9.37	61	109401	1.81 ppb	98
30) Hexane	9.63	57	97260	1.96 ppb	85
31) Ethyl acetate	9.64	43	210365	1.88 ppb	97
32) Chloroform	9.72	83	231863	1.86 ppb	97
33) Tetrahydrofuran	10.25	42	65336	1.90 ppb	80
34) 1,2-dichloroethane	10.64	62	175955	1.83 ppb	94
36) 1,1,1-trichloroethane	10.96	97	276264	1.95 ppb	98
37) Cyclohexane	11.87	56	103648	2.02 ppb	93
38) Carbon tetrachloride	11.72	117	320402	2.07 ppb	99
39) Benzene	11.54	78	233854	1.99 ppb	92
40) Methyl methacrylate	13.03	41	108215	2.18 ppb	99
41) 1,4-dioxane	12.82	58	40726	1.94 ppb	50
42) 2,2,4-trimethylpentane	12.84	57	333480	2.07 ppb	88
43) Heptane	13.15	43	111914	2.07 ppb	95
44) Trichloroethene	12.81	130	126892	2.04 ppb	93
45) 1,2-dichloropropane	12.52	63	78643	2.02 ppb	100

(#) = qualifier out of range (m) = manual integration

A0060506.D A605_1UG.M

Thu Jun 29 09:27:26 2017

MSD1

Quantitation Report (QTR Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060506.D
 Acq On : 5 Jun 2017 11:53 am
 Sample : A1UG_2.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 14:32:23 2017

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_RUN

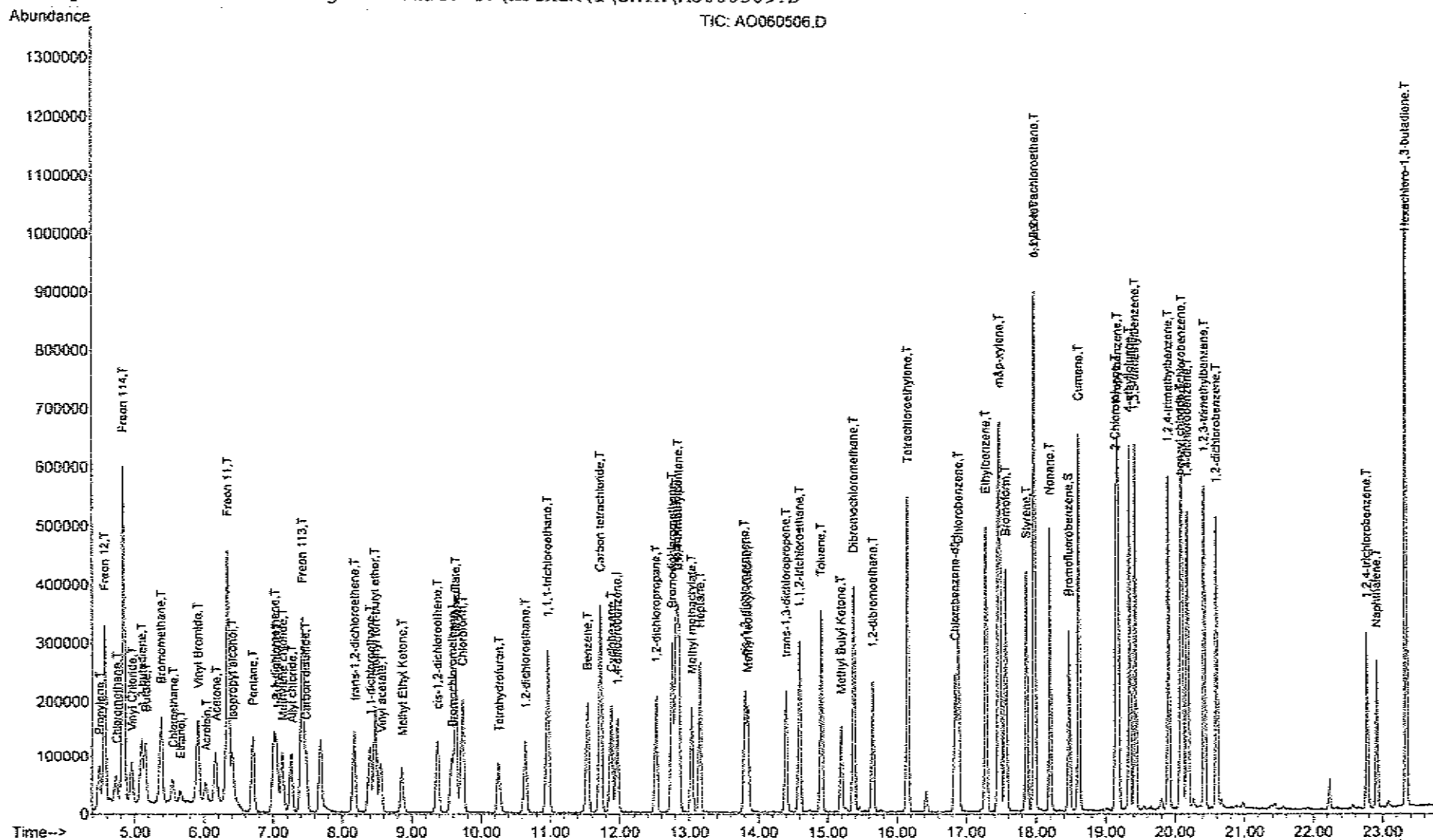
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.75	83	264412	2.02 ppb	99
47) cis-1,3-dichloropropene	13.80	75	146034	2.02 ppb	97
48) trans-1,3-dichloropropene	14.40	75	148433	2.05 ppb	96
49) 1,1,2-trichloroethane	14.60	97	108150	2.02 ppb	98
51) Toluene	14.91	92	179023	2.09 ppb	88
52) Methyl Isobutyl Ketone	13.85	43	144904	1.91 ppb	95
53) Dibromochloromethane	15.38	129	263236	2.02 ppb	92
54) Methyl Butyl Ketone	15.19	43	121466	2.03 ppb	94
55) 1,2-dibromoethane	15.65	107	181022	2.03 ppb	97
56) Tetrachloroethylene	16.16	164	137017	1.94 ppb	97
57) Chlorobenzene	16.89	112	259164	1.94 ppb	97
58) Ethylbenzene	17.28	91	431439	2.02 ppb	95
59) m&p-xylene	17.48	91	770312	2.02 ppb	99
60) Nonane	18.20	43	175335	2.16 ppb	96
61) Styrene	17.86	104	235464	2.09 ppb	100
62) Bromoform	17.57	173	246133	2.06 ppb	99
63) o-xylene	17.98	91	369345	2.01 ppb	93
64) Cumene	18.61	105	487376	2.05 ppb	98
66) 1,1,2,2-tetrachloroethane	17.97	83	210266	1.92 ppb	94
67) Propylbenzene	19.18	120	131285	2.12 ppb	1
68) 2-Chlorotoluene	19.15	126	118994	2.07 ppb	1
69) 4-ethyltoluene	19.34	105	467478	2.10 ppb	99
70) 1,3,5-trimethylbenzene	19.43	105	418187	2.07 ppb	100
71) 1,2,4-trimethylbenzene	19.91	105	395561	2.08 ppb	96
72) 1,3-dichlorobenzene	20.10	146	274834	2.12 ppb	98
73) benzyl chloride	20.07	91	247760	2.21 ppb	89
74) 1,4-dichlorobenzene	20.18	146	256591	2.13 ppb	96
75) 1,2,3-trimethylbenzene	20.42	105	391245	2.02 ppb	97
76) 1,2-dichlorobenzene	20.59	146	250512	2.04 ppb	98
77) 1,2,4-trichlorobenzene	22.77	180	105992	2.47 ppb	92
78) Naphthalene	22.92	128	238974	2.45 ppb	95
79) Hexachloro-1,3-butadiene	23.33	225	220648	1.99 ppb	98

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0060506.D A605_1UG.M Thu Jun 29 09:27:27 2017 MSD1

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605 1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_LUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 09:02:02 2017
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AO060509.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AO060507.D
 Acq On : 5 Jun 2017 12:34 pm
 Sample : AUG 1.5
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 14:32:02 2017
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AO060509.D

Dataacq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.57	128	38112	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.96	114	174144	1.00 ppb	0.00
50) Chlorobenzene-d5	16.84	117	149968	1.00 ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	108176	1.02 ppb	0.00
Spiked Amount	1.000	Range	70 - 110	Recovery	= 102.00%

Target Compounds

2) Propylene	4.49	41	48686	1.52 ppb	Qvalue
3) Freon 12	4.56	85	367784	1.42 ppb	79
4) Chloromethane	4.73	50	63122m	1.43 ppb	97
5) Freon 114	4.83	85	326839	1.41 ppb	95
6) Vinyl Chloride	4.96	62	88561	1.45 ppb	91
7) Butane	5.15	43	94008	1.38 ppb	94
8) 1,3-butadiene	5.09	39	63407m	1.41 ppb	94
9) Bromomethane	5.37	94	110859	1.29 ppb	83
10) Chloroethane	5.55	64	37617	1.28 ppb	86
11) Ethanol	5.66	45	25327	1.29 ppb	92
12) Acrolein	6.01	56	29646	1.41 ppb	95
13) Vinyl Bromide	5.91	106	120356	1.36 ppb	99
14) Freon 11	6.34	101	434960	1.43 ppb	75
15) Acetone	6.16	58	33446	1.39 ppb	32
16) Pentane	6.70	42	48279	1.39 ppb	100
17) Isopropyl alcohol	6.40	45	108177	1.40 ppb	91
18) 1,1-dichloroethene	7.01	96	56025	1.44 ppb	96
19) Freon 113	7.41	101	135467	1.40 ppb	87
20) t-Butyl alcohol	7.05	59	118472	1.31 ppb	96
21) Methylen chloride	7.13	84	52592	1.44 ppb	82
22) Allyl chloride	7.25	41	60432	1.42 ppb	96
23) Carbon disulfide	7.47	76	164359	1.41 ppb	95
24) trans-1,2-dichloroethane	8.16	61	87572	1.45 ppb	93
25) methyl tert-butyl ether	8.46	73	175560	1.48 ppb	95
26) 1,1-dichloroethane	8.39	63	107749	1.44 ppb	95
27) Vinyl acetate	8.55	43	127866m	1.47 ppb	1
28) Methyl Ethyl Ketone	8.85	72	26458	1.48 ppb	98
29) cis-1,2-dichloroethane	9.36	61	80956	1.41 ppb	84
30) Hexane	9.63	57	71023	1.51 ppb	96
31) Ethyl acetate	9.64	43	154297	1.45 ppb	97
32) Chloroform	9.73	83	170849	1.45 ppb	84
33) Tetrahydrofuran	10.24	42	48233	1.48 ppb	98
34) 1,2-dichloroethane	10.64	62	133963	1.47 ppb	96
36) 1,1,1-trichloroethane	10.96	97	208972	1.50 ppb	93
37) Cyclohexane	11.87	56	75367	1.49 ppb	99
38) Carbon tetrachloride	11.72	117	235159	1.54 ppb	91
39) Benzene	11.53	78	172584	1.49 ppb	98
40) Methyl methacrylate	13.03	41	75584	1.37 ppb	56
41) 1,4-dioxane	12.82	58	28345	1.54 ppb	93
42) 2,2,4-trimethylpentane	12.84	57	243417	1.53 ppb	88
43) Heptane	13.15	43	80975	1.46 ppb	88
44) Trichloroethene	12.80	130	89522	1.51 ppb	100
45) 1,2-dichloropropane	12.52	63	57535	1.51 ppb	100

(#) = qualifier out of range (m) = manual integration

AO060507.D A605_1UG.M Thu Jun 29 09:27:30 2017

MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060507.D
 Acq On : 5 Jun 2017 12:34 pm
 Sample : AUG 1.5
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 14:32:02 2017

Vial: 7
 Operator: RUP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

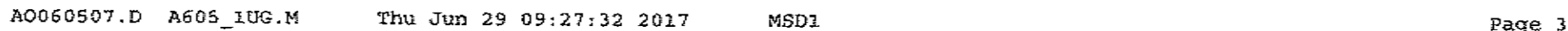
DataAcq Meth : 1UG_RUN

Compound	R.T.	Qion	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.75	83	195337	1.52 ppb	98
47) cis-1,3-dichloropropene	13.80	75	107384	1.51 ppb	100
48) trans-1,3-dichloropropene	14.39	75	109608	1.54 ppb	95
49) 1,1,2-trichloroethane	14.59	97	79513	1.51 ppb	98
51) Toluene	14.91	92	127304	1.58 ppb	80
52) Methyl Isobutyl Ketone	13.84	43	92071	1.29 ppb	96
53) Dibromochloromethane	15.37	129	192464	1.57 ppb	95
54) Methyl Butyl Ketone	15.20	43	64707	1.15 ppb	94
55) 1,2-dibromoethane	15.65	107	130802	1.56 ppb	95
56) Tetrachloroethylene	16.15	164	102002	1.54 ppb	100
57) Chlorobenzene	16.89	112	189212	1.51 ppb	98
58) Ethylbenzene	17.28	91	312926	1.56 ppb	100
59) m,p-xylene	17.47	91	560390	3.10 ppb	99
60) Nonane	18.20	43	124278	1.62 ppb	97
61) Styrene	17.86	104	170405	1.61 ppb	97
62) Bromoform	17.57	173	177880	1.58 ppb	99
63) o-xylene	17.98	91	266418	1.54 ppb	94
64) Cumene	18.61	105	346661	1.55 ppb	98
66) 1,1,2,2-tetrachloroethane	17.97	83	158519	1.54 ppb	97
67) Propylbenzene	19.18	120	93258	1.60 ppb	1
68) 2-Chlorotoluene	19.15	126	85120	1.57 ppb	1
69) 4-ethyltoluene	19.34	105	330012	1.57 ppb	99
70) 1,3,5-trimethylbenzene	19.43	105	303069	1.59 ppb	99
71) 1,2,4-trimethylbenzene	19.91	105	280683	1.57 ppb	95
72) 1,3-dichlorobenzene	20.10	146	192711	1.58 ppb	53
73) benzyl chloride	20.07	91	168981	1.60 ppb	88
74) 1,4-dichlorobenzene	20.18	146	184804	1.63 ppb	50
75) 1,2,3-trimethylbenzene	20.42	105	278877	1.53 ppb	97
76) 1,2-dichlorobenzene	20.59	146	180593	1.56 ppb	99
77) 1,2,4-trichlorobenzene	22.77	180	70034	1.74 ppb	95
78) Naphthalene	22.91	128	147655	1.61 ppb	95
79) Hexachloro-1,3-butadiene	23.33	225	156630	1.50 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0060507.D A605_1UG.M Thu Jun 29 09:27:31 2017 MSD1

Quant Results File: A605_1UG.RES

TIC: A0060507.D



Quantitation Report (QTR Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060508.D
 Acq On : 5 Jun 2017 1:14 pm
 Sample : A1UG_1.25
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 14:31:34 2017

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.56	128	37598	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.96	114	171088	1.00 ppb	0.00
50) Chlorobenzene-d5	16.84	117	149965	1.00 ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	106454	1.01 ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	= 101.00%

Target Compounds

2) Propylene	4.48	41	39004	1.23 ppb	Qvalue 79
3) Freon 12	4.56	85	294432	1.15 ppb	94
4) Chloromethane	4.73	50	52867m	1.21 ppb	
5) Freon 114	4.83	85	269852	1.18 ppb	95
6) Vinyl Chloride	4.96	62	74755	1.24 ppb	95
7) Butane	5.15	43	79979	1.19 ppb	96
8) 1,3-butadiene	5.09	39	54983m	1.24 ppb	
9) Bromomethane	5.37	94	103905	1.23 ppb	94
10) Chloroethane	5.55	64	32917	1.14 ppb	82
11) Ethanol	5.66	45	25783	1.33 ppb	82
12) Acrolein	6.01	56	25521	1.23 ppb	89
13) Vinyl Bromide	5.90	106	103321	1.18 ppb	91
14) Freon 11	6.33	101	358312	1.19 ppb	99
15) Acetone	6.16	58	28726	1.21 ppb	81
16) Pentane	6.69	42	40025	1.16 ppb	27
17) Isopropyl alcohol	6.39	45	93786	1.23 ppb	100
18) 1,1-dichloroethene	7.00	96	46491	1.21 ppb	91
19) Freon 113	7.41	101	113148	1.18 ppb	97
20) t-Butyl alcohol	7.04	59	112132	1.25 ppb	97
21) Methylene chloride	7.12	84	43723	1.21 ppb	88
22) Allyl chloride	7.25	41	48619	1.16 ppb	97
23) Carbon disulfide	7.47	76	133430	1.16 ppb	82
24) trans-1,2-dichloroethene	8.16	61	71943	1.21 ppb	96
25) methyl tert-butyl ether	8.46	73	146734	1.26 ppb	94
26) 1,1-dichloroethane	8.39	63	89901	1.22 ppb	94
27) Vinyl acetate	8.55	43	104966m	1.22 ppb	
28) Methyl Ethyl Ketone	8.86	72	21091	1.20 ppb	94
29) cis-1,2-dichloroethene	9.36	61	66439	1.18 ppb	96
30) Hexane	9.62	57	56358	1.21 ppb	87
31) Ethyl acetate	9.64	43	132560	1.27 ppb	95
32) Chloroform	9.72	83	142733	1.23 ppb	98
33) Tetrahydrofuran	10.26	42	39834	1.24 ppb	82
34) 1,2-dichloroethane	10.63	62	109204	1.21 ppb	97
36) 1,1,1-trichloroethane	10.96	97	165878	1.22 ppb	98
37) Cyclohexane	11.87	56	62157	1.25 ppb	94
38) Carbon tetrachloride	11.71	117	188202	1.26 ppb	99
39) Benzene	11.54	78	140475	1.24 ppb	91
40) Methyl methacrylate	13.03	41	61574	1.29 ppb	96
41) 1,4-dioxane	12.82	58	26722	1.32 ppb	37
42) 2,2,4-trimethylpentane	12.84	57	197589	1.27 ppb	88
43) Heptane	13.14	43	66101	1.27 ppb	91
44) Trichloroethene	12.80	130	74951	1.25 ppb	91
45) 1,2-dichloropropane	12.51	63	46158	1.23 ppb	94

(#) = qualifier out of range (m) = manual integration

A0060508.D A605_1UG.M

Thu Jun 29 09:27:34 2017

MSDL

Quantitation Report (QTR Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060508.D
 Acq On : 5 Jun 2017 1:14 pm
 Sample : A1UG_1.25
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 14:31:34 2017

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_RUN

Compound	R.T.	Qion	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.75	83	156401	1.24 ppb	98
47) cis-1,3-dichloropropene	13.79	75	86270	1.23 ppb	98
48) trans-1,3-dichloropropene	14.40	75	87414	1.25 ppb	98
49) 1,1,2-trichloroethane	14.58	97	65373	1.27 ppb	94
51) Toluene	14.91	92	103608	1.29 ppb	85
52) Methyl Isobutyl Ketone	13.84	43	101142	1.42 ppb	94
53) Dibromochloromethane	15.38	129	155752	1.27 ppb	93
54) Methyl Butyl Ketone	15.19	43	89816	1.59 ppb	95
55) 1,2-dibromomethane	15.65	107	105614	1.26 ppb	95
56) Tetrachloroethylene	16.15	164	82575	1.24 ppb	99
57) Chlorobenzene	16.88	112	156480	1.25 ppb	98
58) Ethylbenzene	17.28	91	249819	1.24 ppb	99
59) m&p-xylene	17.47	91	420484	2.33 ppb	97
60) Nonane	18.20	43	100173	1.31 ppb	96
61) Styrene	17.86	104	135452	1.28 ppb	97
62) Bromoform	17.56	173	142104	1.26 ppb	99
63) o-xylene	17.98	91	216118	1.25 ppb	92
64) Cumene	18.61	105	284979	1.27 ppb	98
66) 1,1,2,2-tetrachloroethane	17.97	83	127198	1.24 ppb	94
67) Propylbenzene	19.18	120	73114	1.25 ppb	1
68) 2-Chlorotoluene	19.15	126	68896	1.27 ppb	1
69) 4-ethyltoluene	19.34	105	278602	1.33 ppb	98
70) 1,3,5-trimethylbenzene	19.43	105	242609	1.27 ppb	99
71) 1,2,4-trimethylbenzene	19.90	105	230612	1.29 ppb	96
72) 1,3-dichlorobenzene	20.09	146	157918	1.29 ppb	97
73) benzyl chloride	20.07	91	140379	1.33 ppb	89
74) 1,4-dichlorobenzene	20.17	146	145279	1.28 ppb	95
75) 1,2,3-trimethylbenzene	20.42	105	229531	1.26 ppb	94
76) 1,2-dichlorobenzene	20.59	146	146827	1.27 ppb	99
77) 1,2,4-trichlorobenzene	22.77	180	54509	1.35 ppb	93
78) Naphthalene	22.91	128	126496	1.38 ppb	94
79) Hexachloro-1,3-butadiene	23.33	225	129896	1.25 ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0060508.D A605_1UG.M Thu Jun 29 09:27:35 2017 MSD1

Data File : C:\HPCHEM\1\DATA\A0060508.D

Acq On : 5 Jun 2017 1:14 pm

Sample : A1UG_1.25

Misc : A605_1UG

MS Integration Params: RTEINT.P

Quant Time: Jun 5 19:27 2017

Vial: 8

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

Quant Results File: A605_1UG.RES

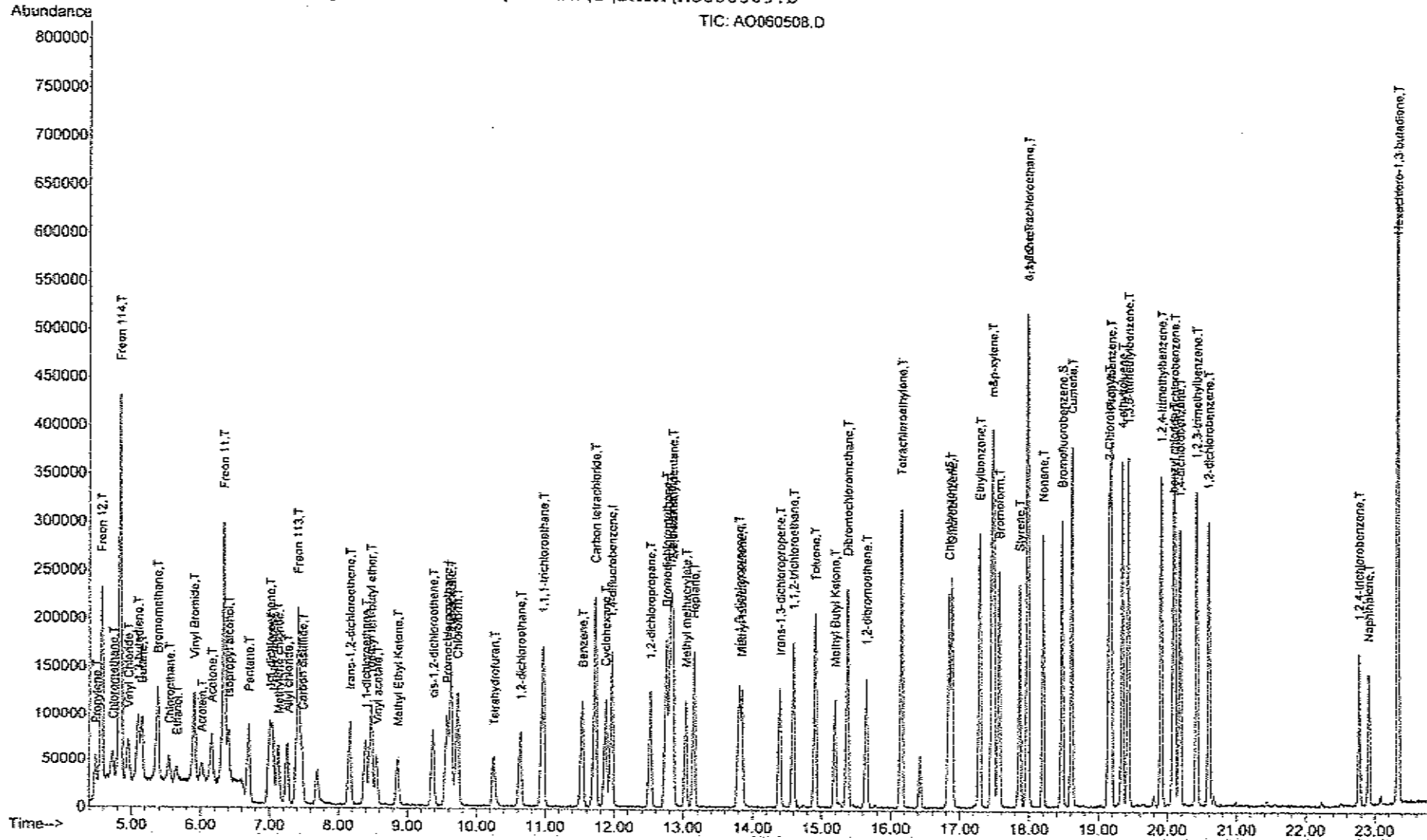
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 09:02:02 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060508.D

TIC: A0060508.D



A0060508.D A605_1UG.M

Thu Jun 29 09:27:36 2017

MSD1

Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060509.D
 Acq On : 5 Jun 2017 1:53 pm
 Sample : A1UG.1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 14:31:22 2017
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : 70-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.57	128	35528	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.96	114	167149	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	145755	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene 18.47 95 102815 1.00 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 100.00%

Target Compounds

Target Compounds						Qvalue
2) Propylene	4.49	41	29886	1.00	ppb	78
3) Freon 12	4.57	85	241125	1.00	ppb	98
4) Chloromethane	4.72	50	40881m	0.99	ppb	
5) Freon 114	4.83	85	215924	1.00	ppb	97
6) Vinyl Chloride	4.96	62	56847	1.00	ppb	88
7) Butane	5.15	43	63542	1.00	ppb	97
8) 1,3-butadiene	5.09	39	42902m	1.03	ppb	
9) Bromomethane	5.38	94	80149	1.00	ppb	95
10) Chloroethane	5.54	64	27354	1.00	ppb	82
11) Ethanol	5.65	45	18251	1.00	ppb	91
12) Acrolein	6.02	56	19666	1.00	ppb	98
13) Vinyl Bromide	5.91	106	82587	1.00	ppb	93
14) Freon 11	6.33	101	284358	1.00	ppb	98
15) Acetone	6.16	58	22473	1.00	ppb	77
16) Pentane	6.70	42	32492	1.00	ppb	35
17) Isopropyl alcohol	6.40	45	71958	1.00	ppb	100
18) 1,1-dichloroethene	7.00	96	36162	1.00	ppb	90
19) Freon 113	7.41	101	90252	1.00	ppb	95
20) t-Butyl alcohol	7.04	59	84592	1.00	ppb	95
21) Methylene chloride	7.13	84	34089	1.00	ppb	85
22) Allyl chloride	7.25	41	39650	1.00	ppb	94
23) Carbon disulfide	7.47	76	108281	1.00	ppb	83
24) trans-1,2-dichloroethene	8.16	61	56172	1.00	ppb	96
25) methyl tert-butyl ether	8.46	73	110412	1.00	ppb	91
26) 1,1-dichloroethane	8.40	63	69746	1.00	ppb	94
27) Vinyl acetate	8.55	43	82696m	1.02	ppb	
28) Methyl Ethyl Ketone	8.86	72	16619	1.00	ppb	96
29) cis-1,2-dichloroethene	9.36	61	53341	1.00	ppb	93
30) Hexane	9.62	57	43850	1.00	ppb	86
31) Ethyl acetate	9.63	43	98962	1.00	ppb	96
32) Chloroform	9.73	83	109906	1.00	ppb	99
33) Tetrahydrofuran	10.26	42	30390	1.00	ppb	78
34) 1,2-dichloroethane	10.63	62	85043	1.00	ppb	96
36) 1,1,1-trichloroethane	10.96	97	133350	1.00	ppb	95
37) Cyclohexane	11.87	56	48391	1.00	ppb	91
38) Carbon tetrachloride	11.72	117	146178	1.00	ppb	97
39) Benzene	11.53	78	110968	1.00	ppb	91
40) Methyl methacrylate	13.03	41	46805	1.00	ppb	99
41) 1,4-dioxane	12.83	58	19803	1.00	ppb	48
42) 2,2,4-trimethylpentane	12.84	57	152121	1.00	ppb	88
43) Heptane	13.15	43	50951	1.00	ppb	91
44) Trichloroethene	12.80	130	58747	1.00	ppb	92
45) 1,2-dichloropropane	12.52	63	36648	1.00	ppb	98

{#} = qualifier out of range (m) = manual integration

A0060509.D A605_1UG.M Thu Jun 29 09:27:38 2017

MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060509.D
 Acq On : 5 Jun 2017 1:53 pm
 Sample : AUG_1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 14:31:22 2017

Vial: 9
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Mech : 1UG_RUN

Compound	R.T.	Qion	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.75	83	123439	1.00 ppb	98
47) cis-1,3-dichloropropene	13.80	75	68322	1.00 ppb	98
48) trans-1,3-dichloropropene	14.39	75	68155	1.00 ppb	97
49) 1,1,2-trichloroethane	14.59	97	50401	1.00 ppb	100
51) Toluene	14.91	92	78343	1.00 ppb	80
52) Methyl Isobutyl Ketone	13.85	43	69313	1.00 ppb	95
53) Dibromochloromethane	15.38	129	119497	1.00 ppb	90
54) Methyl Butyl Ketone	15.19	43	54843	1.00 ppb	93
55) 1,2-dibromoethane	15.65	107	81693	1.00 ppb	97
56) Tetrachloroethylene	16.16	164	64538	1.00 ppb	99
57) Chlorobenzene	16.89	112	122035	1.00 ppb	97
58) Ethylbenzene	17.28	91	195053	1.00 ppb	99
59) m,p-xylene	17.47	91	349601	1.99 ppb	98
60) Nonane	18.20	43	74347	1.00 ppb	99
61) Styrene	17.86	104	103002	1.00 ppb	99
62) Bromoform	17.57	173	109537	1.00 ppb	99
63) o-xylene	17.98	91	167947	1.00 ppb	93
64) Cumene	18.61	105	217464	1.00 ppb	99
66) 1,1,2,2-tetrachloroethane	17.98	83	100060	1.00 ppb	96
67) Propylbenzene	19.18	120	56624	1.00 ppb	1
68) 2-Chlorotoluene	19.15	126	52586	1.00 ppb	1
69) 4-ethyltoluene	19.34	105	203694	1.00 ppb	98
70) 1,3,5-trimethylbenzene	19.43	105	185254	1.00 ppb	97
71) 1,2,4-trimethylbenzene	19.90	105	174239	1.00 ppb	95
72) 1,3-dichlorobenzene	20.10	146	118600	1.00 ppb	99
73) benzyl chloride	20.08	91	102464	1.00 ppb	85
74) 1,4-dichlorobenzene	20.18	146	110313	1.00 ppb	95
75) 1,2,3-trimethylbenzene	20.42	105	177113	1.00 ppb	94
76) 1,2-dichlorobenzene	20.60	146	112387	1.00 ppb	98
77) 1,2,4-trichlorobenzene	22.77	180	39199	1.00 ppb	95
78) Naphthalene	22.91	128	89404	1.00 ppb	93
79) Hexachloro-1,3-butadiene	23.34	225	101360	1.00 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0060509.D A605_1UG.M Thu Jun 29 09:27:38 2017 MSD1

Data File : C:\HPCHEM\1\DATA\A0060509.D

Vial: 9

Acq On : 5 Jun 2017 1:53 pm

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A605_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Jun 5 19:28 2017

Quant Results File: A605_1UG.RES

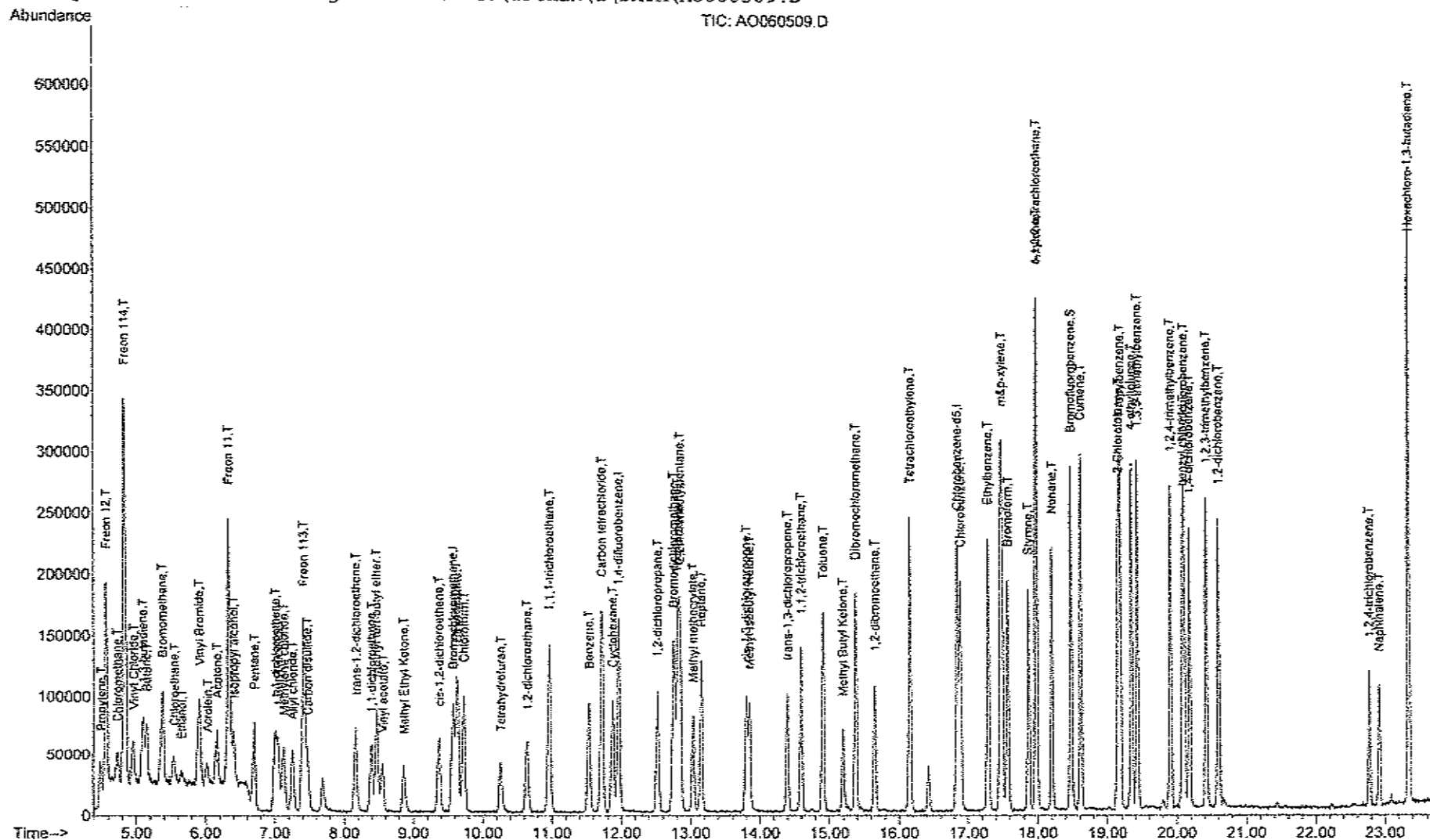
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 09:02:02 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

TIC: A0060509.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060510.D
Acq On : 5 Jun 2017 2:32 pm
Sample : A1UG_0.75
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 05 16:03:10 2017

```
Vial: 10
Operator: RJP
Inst : MSD #1
Multiplier: 1.00
```

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605.LUG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D
DataAcq Meth : 1UG_RUN

Standard 1: Integers

R.T. QIon Response Conc Units Dev(Mdn)

1) Bromochloromethane	9.57	128	34426	1.00	0.00
35) 1,4-difluorobenzene	11.96	114	164275	1.00	0.00
50) Chlorobenzene-d5	16.84	117	140190	1.00	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	99014	1.00	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	100.00%	

Target Compounds

Target Compounds		Ovalue
2) Propylene	4.49	41.
3) Freon 12	4.56	85
4) Chloromethane	4.73	50
5) Freon 114	4.83	85
6) Vinyl Chloride	4.95	62
7) Butane	5.16	43
8) 1,3-butadiene	5.09	39
9) Bromomethane	5.37	94
0) Chloroethane	5.55	64
1) Ethanol	5.67	45
2) Acrolein	6.03	56
3) Vinyl Bromide	5.91	106
4) Freon 11	6.33	101
5) Acetone	6.17	58
6) Pentane	6.70	42
7) Isopropyl alcohol	6.41	45
8) 1,1-dichloroethene	7.01	96
9) Freon 113	7.41	101
0) t-Butyl alcohol	7.06	59
1) Methylene chloride	7.13	84
2) Allyl chloride	7.25	41
3) Carbon disulfide	7.47	76
4) trans-1,2-dichloroethene	8.17	61
5) methyl tert-butyl ether	8.48	73
6) 1,1-dichloroethane	8.40	63
7) Vinyl acetate	8.56	43
8) Methyl Ethyl Ketone	8.87	72
9) cis-1,2-dichloroethene	9.37	61
0) Hexane	9.63	57
1) Ethyl acetate	9.64	43
2) Chloroform	9.72	83
3) Tetrahydrofuran	10.26	42
4) 1,2-dichloroethane	10.63	62
5) 1,1,1-trichloroethane	10.96	97
6) Cyclohexane	11.87	56
7) Carbon tetrachloride	11.72	117
8) Benzene	11.53	78
9) Methyl methacrylate	13.04	41
0) 1,4-dioxane	12.85	58
1) 2,2,4-trimethylpentane	12.85	57
2) Heptane	13.15	43
3) Trichloroethene	12.80	130
4) 1,2-dichloropropane	12.52	63

```
(#) = qualifier out of range (m) = manual integration
A0060510.D A605 100.M Thu Jun 29 09:27:42 2017
```

MSD1

पृष्ठ १

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060510.D Vial: 10
 Acq On : 5 Jun 2017 2:32 pm Operator: RUP
 Sample : A1UG_0.75 Inst : MSD #1
 Misc : A605_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 16:03:10 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_Run

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.75	83	87090	0.72 ppb	96
47) cis-1,3-dichloropropene	13.80	75	47844	0.71 ppb	96
48) trans-1,3-dichloropropene	14.39	75	47507	0.71 ppb	92
49) 1,1,2-trichloroethane	14.59	97	36853	0.74 ppb	97
51) Toluene	14.90	92	58486	0.78 ppb	86
52) Methyl Isobutyl Ketone	13.85	43	46155	0.69 ppb	94
53) Dibromochloromethane	15.37	129	87503	0.76 ppb	93
54) Methyl Butyl Ketone	15.20	43	39088	0.74 ppb	94
55) 1,2-dibromoethane	15.65	107	60114	0.77 ppb	94
56) Tetrachloroethylene	16.15	164	46659	0.75 ppb	94
57) Chlorobenzene	16.89	112	89923	0.77 ppb	98
58) Ethylbenzene	17.28	91	142998	0.76 ppb	99
59) mcp-xylene	17.47	91	235274	1.39 ppb	94
60) Nonane	18.20	43	55068	0.77 ppb	99
61) Styrene	17.86	104	74179	0.75 ppb	99
62) Bromoform	17.57	173	79808	0.76 ppb	98
63) o-xylene	17.98	91	119976	0.74 ppb	94
64) Cumene	18.62	105	163012	0.78 ppb	99
66) 1,1,2,2-tetrachloroethane	17.98	83	71774	0.75 ppb	97
67) Propylbenzene	19.18	120	44065	0.81 ppb	1
68) 2-Chlorotoluene	19.15	126	38664	0.76 ppb	1
69) 4-ethyltoluene	19.35	105	148183	0.76 ppb	97
70) 1,3,5-trimethylbenzene	19.43	105	139363	0.78 ppb	97
71) 1,2,4-trimethylbenzene	19.91	105	127697	0.76 ppb	95
72) 1,3-dichlorobenzene	20.10	146	84923	0.74 ppb	99
73) benzyl chloride	20.08	91	74415	0.76 ppb	87
74) 1,4-dichlorobenzene	20.18	146	80920	0.76 ppb	94
75) 1,2,3-trimethylbenzene	20.42	105	125557	0.74 ppb	95
76) 1,2-dichlorobenzene	20.60	146	82226	0.76 ppb	97
77) 1,2,4-trichlorobenzene	22.77	180	27170	0.72 ppb	96
78) Naphthalene	22.92	128	60996	0.71 ppb	92
79) Hexachloro-1,3-butadiene	23.33	225	68909	0.71 ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0060510.D A605_1UG.M Thu Jun 29 09:27:43 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060510.D

Acq On : 5 Jun 2017 2:32 pm

Sample : A1UG_0.75

Misc : A605_1UG

MS Integration Params: RTEINT.P

Quant Time: Jun 5 19:29 2017

Vial: 10

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

Quant Results File: A605_1UG.RES

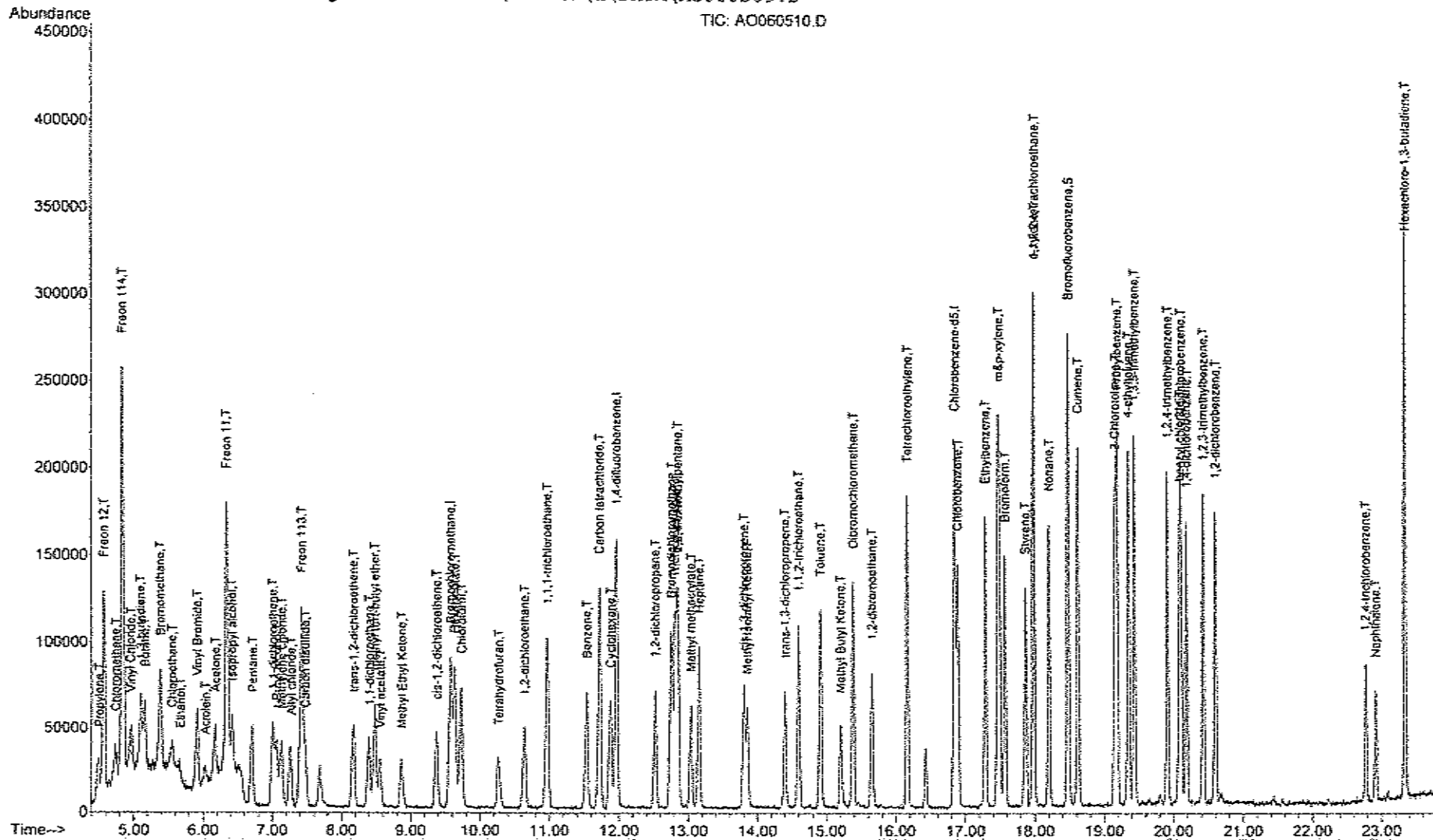
Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 09:02:02 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AO060509.D

TIC: AO060510.D



AO060510.D A605_1UG.M

Thu Jun 29 09:27:44 2017

MSD1

Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060511.D
 Acq On : 5 Jun 2017 3:10 pm
 Sample : A1UG 0.50
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 16:03:30 2017
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : 70-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.57	128	35436	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.96	114	160165	1.00 ppb	0.00
50) Chlorobenzene-d5	16.84	117	139824	1.00 ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene
 Spiked Amount 1.000 Range 70 - 130 Recovery = 99.00%

Target Compounds					Qvalue
2) Propylene	4.49	41	13991	0.47 ppb	70
3) Freon 12	4.57	85	113043	0.47 ppb	96
4) Chloromethane	4.73	50	20922m	0.51 ppb	
5) Freon 114	4.83	85	105836	0.49 ppb	98
6) Vinyl Chloride	4.95	62	28809	0.51 ppb	92
7) Butane	5.14	43	31986	0.50 ppb	87
8) 1,3-butadiene	5.10	39	19509m	0.47 ppb	
9) Bromomethane	5.38	94	39767	0.50 ppb	94
10) Chloroethane	5.54	64	13691	0.50 ppb	78
11) Ethanol	5.66	45	10414	0.57 ppb	87
12) Acrolein	6.02	56	10164	0.52 ppb	99
13) Vinyl Bromide	5.91	106	42071	0.51 ppb	97
14) Freon 11	6.33	101	139166	0.49 ppb	99
15) Acetone	6.16	58	11900	0.53 ppb	85
16) Pentane	6.70	42	15660	0.48 ppb	39
17) Isopropyl alcohol	6.41	45	35753	0.50 ppb	100
18) 1,1-dichloroethene	7.00	96	17725	0.49 ppb	92
19) Freon 113	7.41	101	43498	0.48 ppb	97
20) t-Butyl alcohol	7.05	59	39664	0.47 ppb	95
21) Methylene chloride	7.13	84	16756	0.49 ppb	82
22) Allyl chloride	7.26	41	18393	0.47 ppb	98
23) Carbon disulfide	7.47	76	52504	0.49 ppb	81
24) trans-1,2-dichloroethene	8.16	61	27505	0.49 ppb	96
25) methyl tert-butyl ether	8.47	73	53133	0.48 ppb	91
26) 1,1-dichloroethane	8.39	63	34542	0.50 ppb	95
27) Vinyl acetate	8.56	43	38908m	0.48 ppb	
28) Methyl Ethyl Ketone	8.87	72	8017	0.48 ppb	89
29) cis-1,2-dichloroethene	9.37	61	25323	0.48 ppb	97
30) Hexane	9.62	57	20456	0.47 ppb	86
31) Ethyl acetate	9.64	43	46667	0.47 ppb	98
32) Chloroform	9.72	83	54350	0.50 ppb	99
33) Tetrahydrofuran	10.26	42	13565	0.45 ppb	74
34) 1,2-dichloroethane	10.63	62	40854	0.48 ppb	93
36) 1,1,1-trichloroethane	10.96	97	64213	0.50 ppb	98
37) Cyclohexane	11.87	56	26390	0.57 ppb	90
38) Carbon tetrachloride	11.71	117	71430	0.51 ppb	99
39) Benzene	11.54	78	51633	0.49 ppb	89
40) Methyl methacrylate	13.04	41	22327	0.50 ppb	99
41) 1,4-dioxane	12.84	58	8985	0.47 ppb	40
42) 2,2,4-trimethylpentane	12.84	57	68480	0.47 ppb	83
43) Heptane	13.15	43	23658	0.48 ppb	95
44) Trichloroethene	12.81	130	28237	0.50 ppb	94
45) 1,2-dichloropropane	12.52	63	16665	0.47 ppb	93

(#) = qualifier out of range (m) = manual integration
 A0060511.D A605_1UG.M Thu Jun 29 09:27:46 2017

MSDL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060511.D
 Acq On : 5 Jun 2017 3:10 pm
 Sample : A1UG_0.50
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 16:03:30 2017

Vial: 11
 Operator: RJP
 Inst : MSD #1
 Multiplx: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.75	83	59480	0.50 ppb	99
47) cis-1,3-dichloropropene	13.80	75	31498	0.48 ppb	98
48) trans-1,3-dichloropropene	14.39	75	31489	0.48 ppb	94
49) 1,1,2-trichloroethane	14.59	97	24772	0.51 ppb	95
51) Toluene	14.91	92	38041	0.51 ppb	81
52) Methyl Isobutyl Ketone	13.85	43	32184	0.48 ppb	92
53) Dibromochloromethane	15.37	129	57266	0.50 ppb	92
54) Methyl Butyl Ketone	15.20	43	23525	0.45 ppb	99
55) 1,2-dibromoethane	15.65	107	39697	0.51 ppb	98
56) Tetrachloroethylene	16.15	164	29950	0.48 ppb	98
57) Chlorobenzene	16.88	112	56627	0.48 ppb	93
58) Ethylbenzene	17.29	91	90906	0.49 ppb	98
59) m&p-xylene	17.47	91	161143	0.96 ppb	100
60) Nonane	18.20	43	34296	0.48 ppb	96
61) Styrene	17.86	104	50020	0.51 ppb	94
62) Bromoform	17.56	173	50593	0.48 ppb	98
63) o-Xylene	17.98	91	77670	0.48 ppb	92
64) Cumene	18.61	105	101801	0.49 ppb	99
66) 1,1,2,2-tetrachloroethane	17.98	83	47067	0.49 ppb	95
67) Propylbenzene	19.18	120	27095	0.50 ppb	1
68) 2-Chlorotoluene	19.14	126	24728	0.49 ppb	1
69) 4-ethyltoluene	19.34	105	94383m	0.48 ppb	
70) 1,3,5-trimethylbenzene	19.43	105	88331m	0.50 ppb	
71) 1,2,4-trimethylbenzene	19.91	105	78897	0.47 ppb	95
72) 1,3-dichlorobenzene	20.10	146	54702	0.48 ppb	98
73) benzyl chloride	20.07	91	44300	0.45 ppb	88
74) 1,4-dichlorobenzene	20.18	146	47955	0.45 ppb	95
75) 1,2,3-trimethylbenzene	20.42	105	80591	0.47 ppb	93
76) 1,2-dichlorobenzene	20.60	146	50710	0.47 ppb	99
77) 1,2,4-trichlorobenzene	22.77	180	15622	0.42 ppb	93
78) Naphthalene	22.92	128	36111	0.42 ppb	94
79) Hexachloro-1,3-butadiene	23.33	225	45383	0.47 ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0060511.D A605_1UG.M Thu Jun 29 09:27:47 2017 MSD1

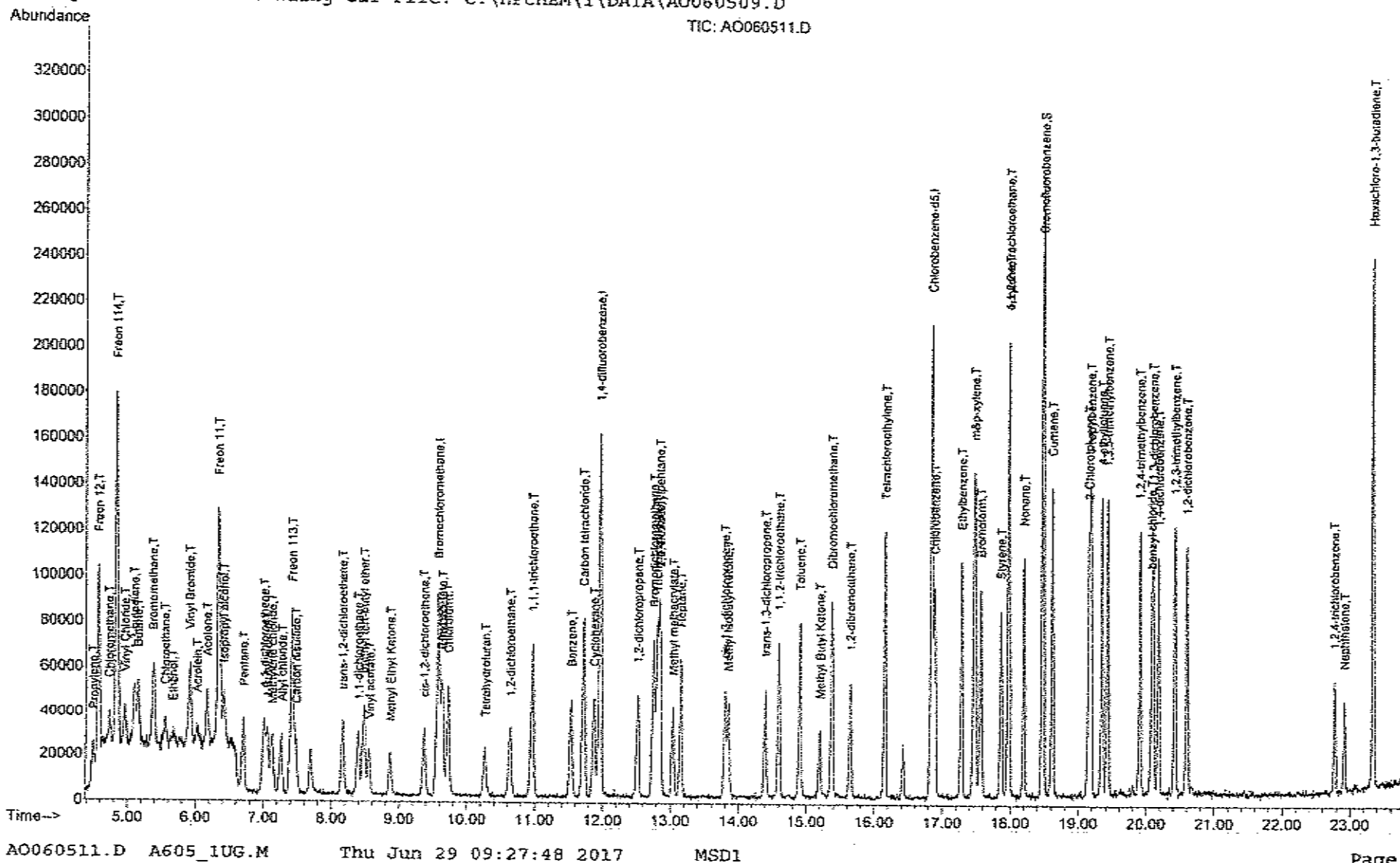
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AO060511.D
 Acq On : 5 Jun 2017 3:10 pm
 Sample : A1UG_0.50
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 5 19:32 2017

Vial: 11
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 09:02:02 2017
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AO060509.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060512.D Vial: 12
 Acq On : 5 Jun 2017 3:47 pm Operator: RJP
 Sample : A1UG_0.30 Inst : MSD #1
 Misc : A605_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 19:22:36 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.57	128	34340	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.95	114	152097	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	132550	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	91099	0.97	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	≈	97.00%

Target Compounds

Target Compounds						Qvalue
2) Propylene	4.50	41	8129	0.28	ppb	54
3) Freon 12	4.57	85	68732	0.29	ppb	99
4) Chloromethane	4.74	50	12392	0.31	ppb	85
5) Freon 114	4.83	85	61600	0.30	ppb	98
6) Vinyl Chloride	4.96	62	17464	0.32	ppb	81
7) Butane	5.15	43	18945	0.31	ppb	87
8) 1,3-butadiene	5.10	39	12176m	0.30	ppb	87
9) Bromomethane	5.38	94	28682	0.37	ppb	78
10) Chloroethane	5.55	64	7505	0.28	ppb	52
11) Ethanol	5.66	45	6454	0.37	ppb	86
12) Acrolein	6.02	56	6417	0.34	ppb	93
13) Vinyl Bromide	5.91	106	23996	0.30	ppb	92
14) Freon 11	6.33	101	81971	0.30	ppb	99
15) Acetone	6.16	58	7281	0.34	ppb	87
16) Pentane	6.70	42	7997	0.25	ppb	15
17) Isopropyl alcohol	6.40	45	25499	0.37	ppb	100
18) 1,1-dichloroethene	7.00	96	9608	0.27	ppb	85
19) Freon 113	7.41	101	26022	0.30	ppb	93
20) t-Butyl alcohol	7.05	59	22479	0.27	ppb	94
21) Methylene chloride	7.13	84	10383	0.32	ppb	80
22) Allyl chloride	7.25	41	10366	0.27	ppb	95
23) Carbon disulfide	7.47	76	30609	0.29	ppb	95
24) trans-1,2-dichloroethane	8.17	61	15178	0.28	ppb	96
25) methyl tert-butyl ether	8.48	73	31875	0.30	ppb	91
26) 1,1-dichloroethane	8.40	63	19457	0.29	ppb	91
27) Vinyl acetate	8.55	43	23398m	0.30	ppb	91
28) Methyl Ethyl Ketone	8.85	72	4931	0.31	ppb	91
29) cis-1,2-dichloroethene	9.36	61	14939	0.29	ppb	96
30) Hexane	9.62	57	12650	0.30	ppb	89
31) Ethyl acetate	9.63	43	28719	0.30	ppb	98
32) Chloroform	9.72	83	30568	0.29	ppb	97
33) Tetrahydrofuran	10.26	42	9141	0.31	ppb	83
34) 1,2-dichloroethane	10.63	62	24739	0.30	ppb	98
36) 1,1,1-trichloroethane	10.96	97	36992	0.30	ppb	95
37) Cyclohexane	11.88	56	11494	0.26	ppb	85
38) Carbon tetrachloride	11.72	117	41854	0.31	ppb	98
39) Benzene	11.54	78	32334	0.32	ppb	95
40) Methyl methacrylate	13.02	41	13335	0.31	ppb	91
41) 1,4-dioxane	12.83	58	5694	0.32	ppb	43
42) 2,2,4-trimethylpentane	12.84	57	39949	0.29	ppb	85
43) Heptane	13.14	43	13760	0.30	ppb	97
44) Trichloroethene	12.81	130	17070	0.32	ppb	95
45) 1,2-dichloropropane	12.51	63	10323	0.31	ppb	98

(H) = qualifier out of range (m) = manual integration

A0060512.D A605_1UG.M Thu Jun 29 09:27:50 2017

MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060512.D
 Acq On : 5 Jun 2017 3:47 pm
 Sample : A1UG_0.30
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 19:22:36 2017
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_RUN

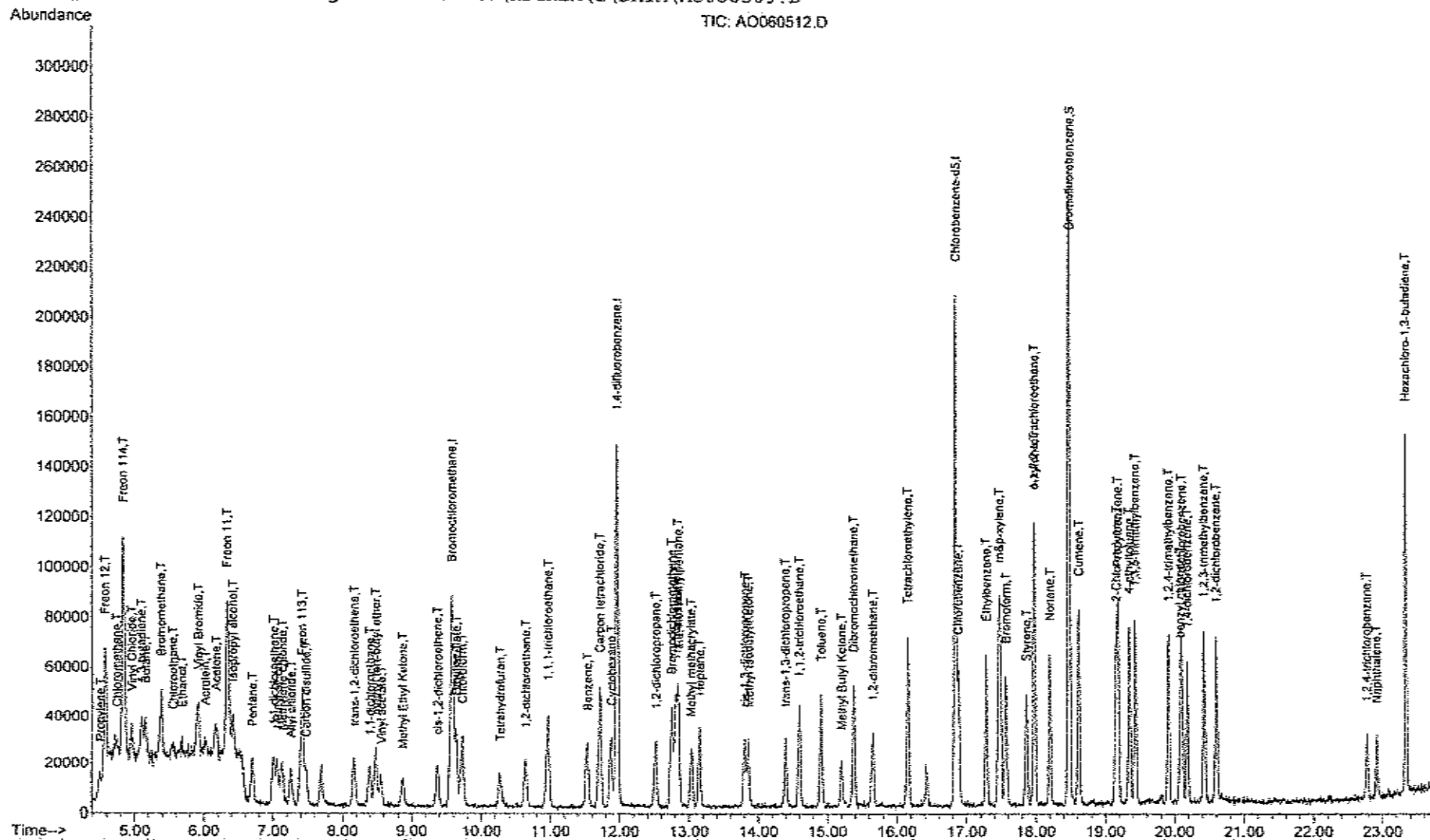
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.75	83	33613	0.30 ppb	96
47) cis-1,3-dichloropropene	13.80	75	17406	0.28 ppb	97
48) trans-1,3-dichloropropene	14.39	75	18573	0.30 ppb	94
49) 1,1,2-trichloroethane	14.58	97	14795	0.32 ppb	96
51) Toluene	14.90	92	23284	0.33 ppb	89
52) Methyl Isobutyl Ketone	13.85	43	18564	0.29 ppb	92
53) Dibromochloromethane	15.37	129	32903	0.30 ppb	90
54) Methyl Butyl Ketone	15.20	43	14166	0.28 ppb	95
55) 1,2-dibromoethane	15.65	107	23263	0.31 ppb	97
56) Tetrachloroethylene	16.15	164	18551	0.32 ppb	97
57) Chlorobenzene	16.88	112	32644	0.29 ppb	92
58) Ethylbenzene	17.29	91	50755	0.29 ppb	95
59) m&p-xylene	17.47	91	96028	0.60 ppb	97
60) Nonane	18.19	43	18458	0.27 ppb	100
61) Styrene	17.86	104	29362	0.31 ppb	87
62) Bromoform	17.56	173	30809	0.31 ppb	99
63) o-xylene	17.98	91	44887	0.29 ppb	95
64) Cumene	18.61	105	60631	0.31 ppb	99
65) 1,1,2,2-tetrachloroethane	17.97	83	28402	0.31 ppb	97
67) Propylbenzene	19.18	120	15636	0.30 ppb	1
68) 2-Chlorotoluene	19.15	126	13903	0.29 ppb	1
69) 4-ethyltoluene	19.34	105	50216	0.27 ppb	95
70) 1,3,5-trimethylbenzene	19.42	105	50691	0.30 ppb	100
71) 1,2,4-trimethylbenzene	19.91	105	46995	0.30 ppb	95
72) 1,3-dichlorobenzene	20.10	146	30228	0.28 ppb	97
73) benzyl chloride	20.07	91	26515	0.28 ppb	89
74) 1,4-dichlorobenzene	20.18	146	27421	0.27 ppb	93
75) 1,2,3-trimethylbenzene	20.42	105	45977	0.29 ppb	93
76) 1,2-dichlorobenzene	20.59	146	29578	0.29 ppb	97
77) 1,2,4-trichlorobenzene	22.77	180	8118	0.23 ppb	85
78) Naphthalene	22.92	128	22249	0.27 ppb	92
79) Hexachloro-1,3-butadiene	23.33	225	28636	0.31 ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0060512.D A605_1UG.M Thu Jun 29 09:27:51 2017 MSD1

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605 1UG.RES

```
Method      : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 09:02:02 2017
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.
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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060513.D
 Acq On : 5 Jun 2017 4:24 pm
 Sample : AUG 0.15
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 19:23:02 2017

Vial: 13
 Operator: RJP
 Inst : MSD #1
 Multiplier: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

File : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.57	128	33508	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.95	114	148018	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	132628	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	88948	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%

Target Compounds

2) Propylene	4.50	41	4842	0.17	ppb	Qvalue 72
3) Freon 12	4.56	85	36193	0.16	ppb	100
4) Chloromethane	4.73	50	7460m	0.19	ppb	
5) Freon 114	4.83	85	31583	0.16	ppb	98
6) Vinyl Chloride	4.96	62	9751	0.18	ppb	86
7) Butane	5.16	43	10728	0.18	ppb	92
8) 1,3-butadiene	5.09	39	6697m	0.17	ppb	
9) Bromomethane	5.37	94	13227m	0.18	ppb	
10) Chloroethane	5.55	64	4698	0.18	ppb	#
11) Ethanol	5.67	45	3607	0.21	ppb	37
12) Acrolein	6.02	56	3575	0.19	ppb	88
13) Vinyl Bromide	5.90	106	12897	0.17	ppb	87
14) Freon 11	6.33	101	42528	0.16	ppb	98
15) Acetone	6.16	58	3375	0.16	ppb	#
16) Pentane	6.69	42	4708	0.15	ppb	44
17) Isopropyl alcohol	6.40	45	12011	0.18	ppb	100
18) 1,1-dichloroethene	7.01	96	5431	0.16	ppb	93
19) Freon 113	7.40	101	12516	0.15	ppb	99
20) t-Butyl alcohol	7.05	59	11873	0.15	ppb	88
21) Methylene chloride	7.12	84	5568	0.17	ppb	#
22) Allyl chloride	7.25	41	5348	0.14	ppb	95
23) Carbon disulfide	7.46	76	17354	0.17	ppb	94
24) trans-1,2-dichloroethene	8.15	61	8183	0.15	ppb	99
25) methyl tert-butyl ether	8.48	73	15836	0.15	ppb	85
26) 1,1-dichloroethane	8.39	63	9869	0.15	ppb	97
27) Vinyl acetate	8.55	43	11782m	0.15	ppb	
28) Methyl Ethyl Ketone	8.88	72	2807	0.18	ppb	#
29) cis-1,2-dichloroethane	9.36	61	7162	0.14	ppb	85
30) Hexane	9.61	57	5896	0.14	ppb	81
31) Ethyl acetate	9.64	43	13438	0.14	ppb	98
32) Chloroform	9.71	83	15491	0.15	ppb	93
33) Tetrahydrofuran	10.26	42	4996	0.17	ppb	86
34) 1,2-dichloroethane	10.63	62	11739	0.15	ppb	89
36) 1,1,1-trichloroethane	10.95	97	19356	0.16	ppb	97
37) Cyclohexane	11.87	56	6080	0.14	ppb	83
38) Carbon tetrachloride	11.71	117	20844	0.16	ppb	98
39) Benzene	11.54	78	16856	0.17	ppb	87
40) Methyl methacrylate	13.03	41	7041	0.17	ppb	#
41) 1,4-dioxane	12.84	58	3061	0.17	ppb	90
42) 2,2,4-trimethylpentane	12.84	57	19150	0.14	ppb	#
43) Heptane	13.15	43	6475	0.14	ppb	79
44) Trichloroethene	12.80	130	8421	0.16	ppb	86
45) 1,2-dichloropropane	12.52	63	5246	0.16	ppb	91

(#) = qualifier out of range (m) = manual integration
 A0060513.D A605_1UG.M Thu Jun 29 09:27:54 2017

MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AO060513.D
 Acq On : 5 Jun 2017 4:24 pm
 Sample : ALUG_0.15
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 19:23:02 2017

Vial: 13
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RMS

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AO060509.D

DataAcq Meth : 1UG_RUN

Compound	R.T.	Qion	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.75	83	16635	0.15 ppb	93
47) cis-1,3-dichloropropene	13.80	75	8937	0.15 ppb	92
48) trans-1,3-dichloropropene	14.39	75	8943	0.15 ppb	87
49) 1,1,2-trichloroethane	14.58	97	7468	0.17 ppb	91
51) Toluene	14.91	92	13234	0.19 ppb	96
52) Methyl Isobutyl Ketone	13.85	43	9939	0.16 ppb	98
53) Dibromochloromethane	15.37	129	16708	0.15 ppb	96
54) Methyl Butyl Ketone	15.20	43	7450	0.15 ppb	97
55) 1,2-dibromoethane	15.64	107	11611	0.16 ppb	93
56) Tetrachloroethylene	16.15	164	8684	0.15 ppb	96
57) Chlorobenzene	16.88	112	16865	0.15 ppb	89
58) Ethylbenzene	17.28	91	27739	0.16 ppb	96
59) m&p-xylene	17.47	91	48859	0.31 ppb	99
60) Nonane	18.20	43	9051	0.13 ppb	99
61) Styrene	17.86	104	13686	0.15 ppb	92
62) Bromoform	17.56	173	14768	0.15 ppb	98
63) o-xylene	17.98	91	23591	0.15 ppb	91
64) Cumene	18.60	105	31732	0.16 ppb	99
66) 1,1,2,2-tetrachloroethane	17.97	83	14386	0.16 ppb	98
67) Propylbenzene	19.18	120	7430	0.14 ppb	1
68) 2-Chlorotoluene	19.14	126	7438	0.16 ppb	1
69) 4-ethyltoluene	19.34	105	25860	0.14 ppb	96
70) 1,3,5-trimethylbenzene	19.42	105	26299	0.16 ppb	100
71) 1,2,4-trimethylbenzene	19.90	105	23884	0.15 ppb	97
72) 1,3-dichlorobenzene	20.09	146	14951	0.14 ppb	97
73) benzyl chloride	20.07	91	12352	0.13 ppb	87
74) 1,4-dichlorobenzene	20.17	146	13694	0.14 ppb	94
75) 1,2,3-trimethylbenzene	20.42	105	22489	0.14 ppb	90
76) 1,2-dichlorobenzene	20.59	146	13546	0.13 ppb	97
77) 1,2,4-trichlorobenzene	22.77	180	4560m	0.13 ppb	
78) Naphthalene	22.90	128	9146m	0.11 ppb	
79) Hexachloro-1,3-butadiene	23.33	225	13663	0.15 ppb	43

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO060513.D A605_1UG.M Thu Jun 29 09:27:55 2017 MSD1

Vial: 13
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605 IUG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 09:02:02 2017
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AO060509.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060514.D Vial: 14
 Acq On : 5 Jun 2017 5:00 pm Operator: RJP
 Sample : A1UG_0.10 Inst : MSD #1
 Misc : A605_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 19:23:29 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.57	128	33234	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.96	114	147520	1.00	ppb	0.00
50) Chlorobenzene-d5	16.83	117	126550	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	10.47	95	85875	0.96	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	96.00%

Target Compounds

Target Compounds						Qvalue
6) Vinyl Chloride	4.96	62	6265	0.12	ppb	70
18) 1,1-dichloroethene	7.00	96	3814m	0.12	ppb	
26) 1,1-dichloroethane	8.39	63	6447m	0.10	ppb	
29) cis-1,2-dichloroethane	9.35	61	4959m	0.10	ppb	
38) Carbon tetrachloride	11.72	117	12912	0.10	ppb	100
44) Trichloroethene	12.79	130	5336	0.10	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0060514.D A605_1UG.M Thu Jun 29 09:27:58 2017 MSD1

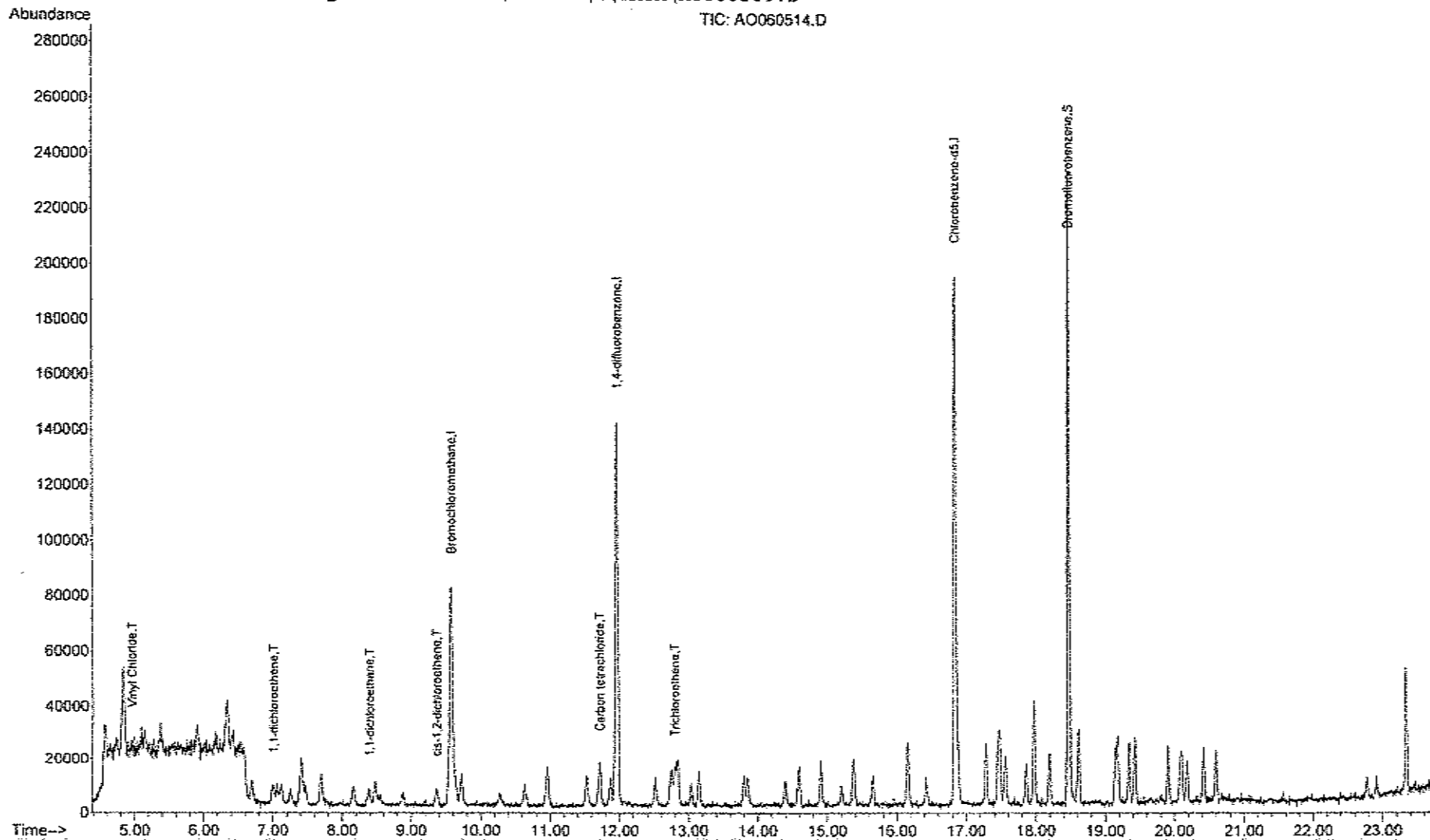
Data File : C:\HPCHEM\1\DATA\AO060514.D
Acq On : 5 Jun 2017 5:00 pm
Sample : A1UG_0.10
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 5 19:37 2017

Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 09:02:02 2017
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AO060509.D

TIC: AO060514.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AO060515.D Vial: 15
 Acq On : 5 Jun 2017 5:36 pm Operator: RJP
 Sample : A1UG_0.04 Inst : MSD #1
 Misc : A605_1UG Multiplx: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 05 19:24:03 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 14:31:08 2017

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AO060509.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.56	128	31854	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.95	114	141788	1.00 ppb	0.00
50) Chlorobenzene-d5	16.83	117	124972	1.00 ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	78647	0.89 ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery =	89.00%	

Target Compounds

					Qvalue
6) Vinyl Chloride	4.97	62	2129	0.04 ppb	71
29) cis-1,2-dichloroethene	9.36	61	1943	0.04 ppb	73
38) Carbon tetrachloride	11.72	117	4862	0.04 ppb	88
44) Trichloroethene	12.79	130	2179	0.04 ppb	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO060515.D A605_1UG.M Thu Jun 29 09:28:01 2017 MSD1

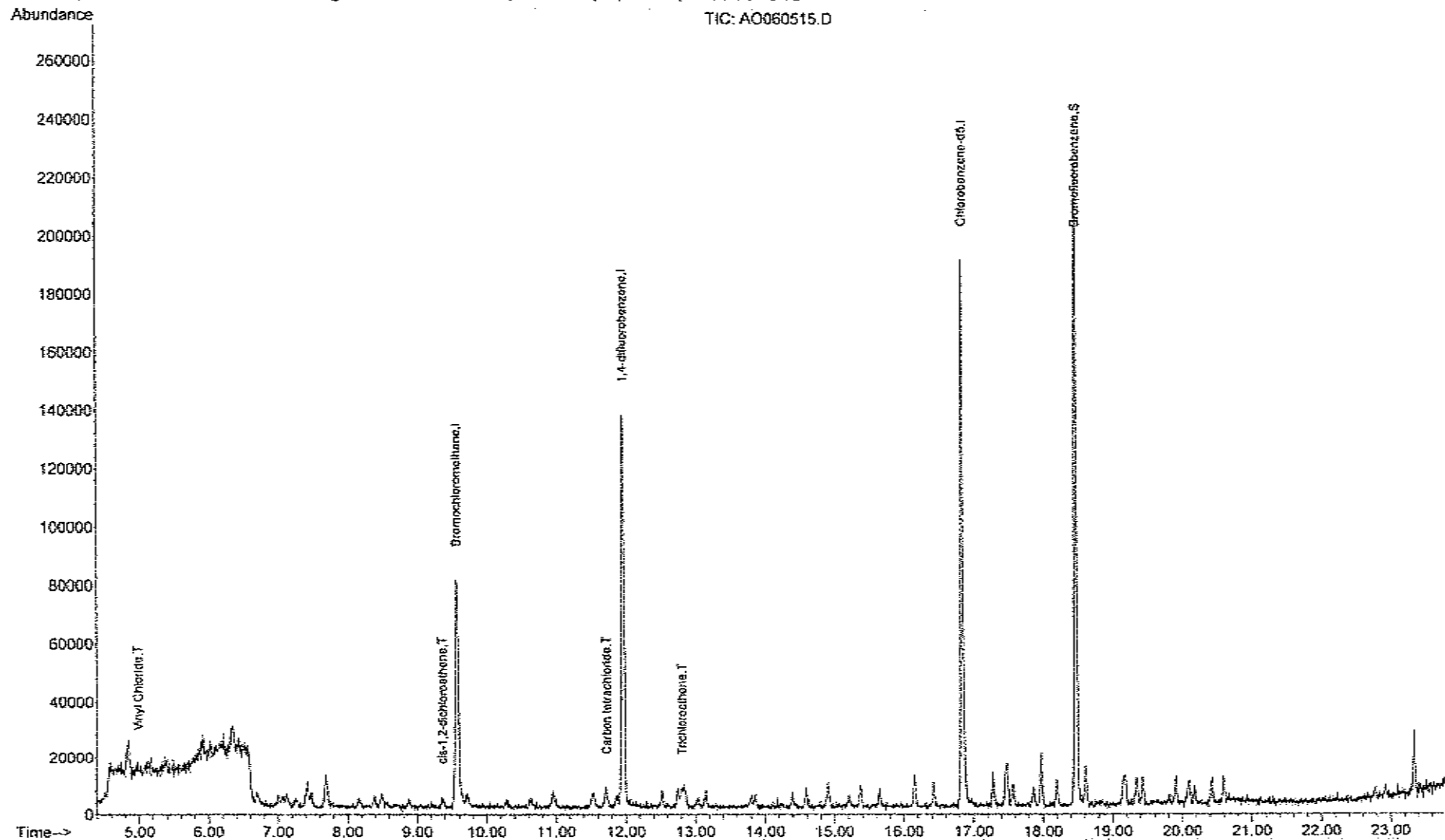
Data File : C:\HPCHEM\1\DATA\A0060515.D
Acq On : 5 Jun 2017 5:36 pm
Sample : A1UG_0.04
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 5 19:39 2017

Vial: 15
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 09:02:02 2017
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\A0060509.D

TIC: A0060515.D



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\A0060802.D
 Acq On : 8 Jun 2017 10:30 am
 Sample : A1UG_1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 10:00:17 2017

Response via : Multiple level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	AVGRF	CCRF	%Dev	Area% Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	90 0.00
2 T Propylene	0.836	0.912	-9.1	98 0.00
3 T Freon 12	6.465	7.412	-14.6	98 0.00
4 T Chloromethane	1.180	1.264	-7.1	99 0.00
5 T Freon 114	5.834	6.870	-17.8	102 0.00
6 T Vinyl Chloride	1.665	1.753	-5.3	99 0.00
7 T Butane	1.787	1.808	-1.2	91 0.00
8 T 1,3-butadiene	1.161	1.177	-1.4	88 0.00
9 T Bromomethane	2.280	2.152	5.6	86 0.00
10 T Chloroethane	0.751	0.638	15.0	75 0.00
11 T Ethanol	0.543	0.480	11.6	84 0.00
12 T Acrolein	0.567	0.480	15.3	78 0.00
13 T Vinyl Bromide	2.218	1.582	28.7	61 0.00
14 T Freon 11	7.838	7.309	6.7	82 0.00
15 T Acetone	0.631	0.634	-0.5	90 0.00
16 T Pentane	0.867	0.935	-7.8	92 0.00
17 T Isopropyl alcohol	2.081	1.791	13.9	80 0.00
18 T 1,1-dichloroethene	1.008	1.024	-1.6	91 0.00
19 T Freon 113	2.435	2.633	-8.1	93 0.00
20 T t-Butyl alcohol	2.238	1.755	21.6	66 0.00
21 T Methylene chloride	0.968	0.981	-1.3	92 0.00
22 T Allyl chloride	1.052	1.120	-6.5	90 0.00
23 T Carbon disulfide	2.992	3.259	-8.9	96 0.00
24 T trans-1,2-dichloroethene	1.551	1.690	-9.0	96 0.00
25 T methyl tert-butyl ether	3.094	3.128	-1.1	91 0.00
26 T 1,1-dichloroethane	1.922	2.047	-6.5	94 0.00
27 T Vinyl acetate	2.262	2.533	-12.0	98 0.00
28 T Methyl Ethyl Ketone	0.471	0.449	4.7	86 0.00
29 T cis-1,2-dichloroethene	1.449	1.567	-8.1	94 0.00
30 T Hexane	1.215	1.301	-7.1	95 0.00
31 T Ethyl acetate	2.723	2.788	-2.4	90 0.00
32 T Chloroform	3.032	3.351	-10.5	98 0.00
33 T Tetrahydrofuran	0.856	0.897	-4.8	94 0.00
34 T 1,2-dichloroethane	2.340	2.552	-9.1	96 0.00
35 I 1,4-difluorobenzene	1.000	1.000	0.0	90 0.00
36 T 1,1,1-trichloroethane	0.803	0.853	-6.2	96 0.00
37 T Cyclohexane	0.289	0.317	-9.7	99 0.00
38 T Carbon tetrachloride	0.891	0.934	-4.8	96 0.00
39 T Benzene	0.674	0.712	-5.6	97 0.00
40 T Methyl methacrylate	0.291	0.277	4.8	89 0.00
41 T 1,4-dioxane	0.119	0.091	23.5	69 0.00
42 T 2,2,4-trimethylpentane	0.900	0.958	-6.4	95 0.00
43 T Heptane	0.303	0.332	-9.6	98 0.00
44 T Trichloroethene	0.360	0.358	0.6	92 0.00
45 T 1,2-dichloropropane	0.220	0.241	-9.5	99 0.00
46 T Bromodichloromethane	0.737	0.784	-6.4	96 0.00
47 T cis-1,3-dichloropropene	0.400	0.428	-7.0	94 0.00
48 T trans-1,3-dichloropropene	0.405	0.436	-7.7	96 0.00
49 T 1,1,2-trichloroethane	0.311	0.323	-3.9	96 0.00

(#) = Out of Range
 A0060802.D A605_1UG.M

Thu Jun 29 10:18:57 2017

MSDL

Centek Laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\A0060802.D
 Acq On : 8 Jun 2017 10:30 am
 Sample : A1UG_1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A605 1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 10:00:17 2017
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	AvgRRF	CCRF	%Dev Area	Dev(min)
51 T Toluene	0.571	0.594	-4.0	100
52 T Methyl Isobutyl Ketone	0.468	0.334	28.6	63
53 T Dibromochloromethane	0.831	0.870	-4.7	96
54 T Methyl Butyl Ketone	0.370	0.286	22.7	69
55 T 1,2-dibromoethane	0.573	0.618	-7.9	99
56 T tetrachloroethylene	0.443	0.457	-3.2	93
57 T Chlorobenzene	0.833	0.858	-3.0	92
58 T Ethylbenzene	1.343	1.412	-5.1	95
59 T m&p-xylene	1.185	1.291	-8.9	97
60 T Nonane	0.510	0.578	-13.3	102
61 T Styrene	0.722	0.757	-4.8	97
62 T Bromoform	0.759	0.792	-4.3	95
63 T o-xylene	1.152	1.206	-4.7	94
64 T Cumene	1.526	1.577	-3.3	95
65 S Bromofluorobenzene	0.692	0.716	-3.5	92
66 T 1,1,2,2-tetrachloroethane	0.690	0.749	-8.6	98
67 T Propylbenzene	0.397	0.418	-5.3	97
68 T 2-Chlorotoluene	0.366	0.384	-4.9	96
69 T 4-ethyltoluene	1.393	1.486	-6.7	96
70 T 1,3,5-trimethylbenzene	1.301	1.321	-1.5	94
71 T 1,2,4-trimethylbenzene	1.205	1.201	0.3	91
72 T 1,3-dichlorobenzene	0.810	0.868	-7.2	96
73 T benzyl chloride	0.701	0.717	-2.3	92
74 T 1,4-dichlorobenzene	0.749	0.830	-10.8	99
75 T 1,2,3-trimethylbenzene	1.193	1.161	2.7	86
76 T 1,2-dichlorobenzene	0.759	0.815	-7.4	95
77 T 1,2,4-trichlorobenzene	0.265	0.291	-9.8	98
78 T Naphthalene	0.601	0.470	21.8	69
79 T Hexachloro-1,3-butadiene	0.686	0.668	2.6	87

(#) = Out of Range SPC's out = 0 CCC's out = 0
 A0060802.D A605_1UG.M Thu Jun 29 10:18:57 2017 MSD1

Data File : C:\HPCHEM\1\DATA\A0060802.D
 Acq On : 8 Jun 2017 10:30 am
 Sample : A1UG_1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 08 14:13:38 2017

Vial: 2

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards

	R.T.	Q1on	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.56	128	31979	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.95	114	150528	1.00	ppb	0.00
50) Chlorobenzene-d5	16.83	117	131531	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	94120	1.03	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	= 103.00%	

Target Compounds

						Qvalue
2) Propylene	4.48	41	29166	1.09	ppb	75
3) Freon 12	4.56	85	237032	1.15	ppb	97
4) Chloromethane	4.74	50	40431	1.07	ppb	89
5) Freon 114	4.83	85	219689	1.18	ppb	97
6) Vinyl Chloride	4.95	62	56052	1.05	ppb	95
7) Butane	5.15	43	57828	1.01	ppb	91
8) 1,3-butadiene	5.10	39	37628m	1.01	ppb	
9) Bromomethane	5.38	94	68814	0.94	ppb	92
10) Chloroethane	5.54	64	20398	0.85	ppb	83
11) Ethanol	5.66	45	15364	0.88	ppb	87
12) Acrolein	6.03	56	15343	0.85	ppb	91
13) Vinyl Bromide	5.91	106	50584	0.71	ppb	92
14) Freon 11	6.34	101	233719	0.93	ppb	98
15) Acetone	6.16	58	20259	1.00	ppb	51
16) Pentane	6.71	42	29901	1.08	ppb	37
17) Isopropyl alcohol	6.40	45	57285	0.86	ppb	100
18) 1,1-dichloroethane	7.01	96	32747	1.02	ppb	91
19) Freon 113	7.42	101	84186	1.08	ppb	94
20) t-Butyl alcohol	7.04	59	56128	0.78	ppb	90
21) Methylene chloride	7.12	84	31384	1.01	ppb	81
22) Allyl chloride	7.27	41	35823	1.07	ppb	96
23) Carbon disulfide	7.48	76	104211	1.09	ppb	81
24) trans-1,2-dichloroethene	8.17	61	54042	1.09	ppb	93
25) methyl tert-butyl ether	8.47	73	100028	1.01	ppb	90
26) 1,1-dichloroethane	8.40	63	65459	1.07	ppb	93
27) Vinyl acetate	8.55	43	81015m	1.12	ppb	
28) Methyl Ethyl Ketone	8.85	72	14359	0.95	ppb	93
29) cis-1,2-dichloroethene	9.37	61	50108	1.08	ppb	95
30) Hexane	9.63	57	41620	1.07	ppb	85
31) Ethyl acetate	9.64	43	89149	1.02	ppb	95
32) Chloroform	9.72	83	107177	1.11	ppb	99
33) Tetrahydrofuran	10.26	42	28676	1.05	ppb	82
34) 1,2-dichloroethane	10.63	62	81598	1.09	ppb	97
36) 1,1,1-trichloroethane	10.96	97	128353	1.06	ppb	97
37) Cyclohexane	11.87	56	47705	1.10	ppb	96
38) Carbon tetrachloride	11.72	117	140656	1.05	ppb	97
39) Benzene	11.54	78	107151	1.06	ppb	92
40) Methyl methacrylate	13.03	41	41739	0.95	ppb	99
41) 1,4-dioxane	12.84	58	13715	0.76	ppb	66
42) 2,2,4-trimethylpentane	12.84	57	144247	1.06	ppb	86
43) Heptane	13.15	43	49911	1.09	ppb	95
44) Trichloroethene	12.80	130	53927	1.00	ppb	90
45) 1,2-dichloropropane	12.52	63	36285	1.09	ppb	99

(#) = qualifier out of range (m) = manual integration
 A0060802.D A605_1UG.M Thu Jun 29 10:19:01 2017

MSD1

Data File : C:\HPCHEM\1\DATA\A0060802.D
 Acq On : 8 Jun 2017 10:30 am
 Sample : ALUG_1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 08 14:13:38 2017

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605 1UG.M (RTE Integrator)

Title : T0-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	Qion	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.74	83	118006	1.06 ppb	98
47) cis-1,3-dichloropropene	13.80	75	64445	1.07 ppb	96
48) trans-1,3-dichloropropene	14.40	75	65668	1.08 ppb	95
49) 1,1,2-trichloroethane	14.59	97	48617	1.04 ppb	98
51) Toluene	14.91	92	78092	1.04 ppb	89
52) Methyl Isobutyl Ketone	13.85	43	43915m	0.71 ppb	
53) Dibromochloromethane	15.38	129	114465	1.05 ppb	94
54) Methyl Butyl Ketone	15.20	43	37591m	0.77 ppb	
55) 1,2-dibromoethane	15.65	107	81232	1.08 ppb	96
56) Tetrachloroethylene	16.15	164	60107	1.03 ppb	99
57) Chlorobenzene	16.88	112	112856	1.03 ppb	94
58) Ethylbenzene	17.28	91	185695	1.05 ppb	99
59) m&p-xylene	17.48	91	339699	2.18 ppb	99
60) Nonane	18.20	43	76046	1.13 ppb	96
61) Styrene	17.86	104	99534	1.05 ppb	99
62) Bromoform	17.57	173	104214	1.04 ppb	99
63) o-xylene	17.98	91	158638	1.05 ppb	96
64) Cumene	18.62	105	207409	1.03 ppb	98
66) 1,1,2,2-tetrachloroethane	17.97	83	98484	1.08 ppb	97
67) Propylbenzene	19.18	120	55020	1.05 ppb	1
68) 2-Chlorotoluene	19.15	126	50443	1.05 ppb	1
69) 4-ethyltoluene	19.34	105	195405	1.07 ppb	99
70) 1,3,5-trimethylbenzene	19.43	105	173756	1.02 ppb	100
71) 1,2,4-trimethylbenzene	19.91	105	157926	1.00 ppb	96
72) 1,3-dichlorobenzene	20.10	146	114130m	1.07 ppb	
73) benzyl chloride	20.07	91	94270	1.02 ppb	88
74) 1,4-dichlorobenzene	20.17	146	109135m	1.11 ppb	
75) 1,2,3-trimethylbenzene	20.42	105	152642	0.97 ppb	94
76) 1,2-dichlorobenzene	20.60	146	107142	1.07 ppb	98
77) 1,2,4-trichlorobenzene	22.77	180	38284	1.10 ppb	99
78) Naphthalene	22.91	128	61801	0.78 ppb	95
79) Hexachloro-1,3-butadiene	23.34	225	87907	0.97 ppb	99

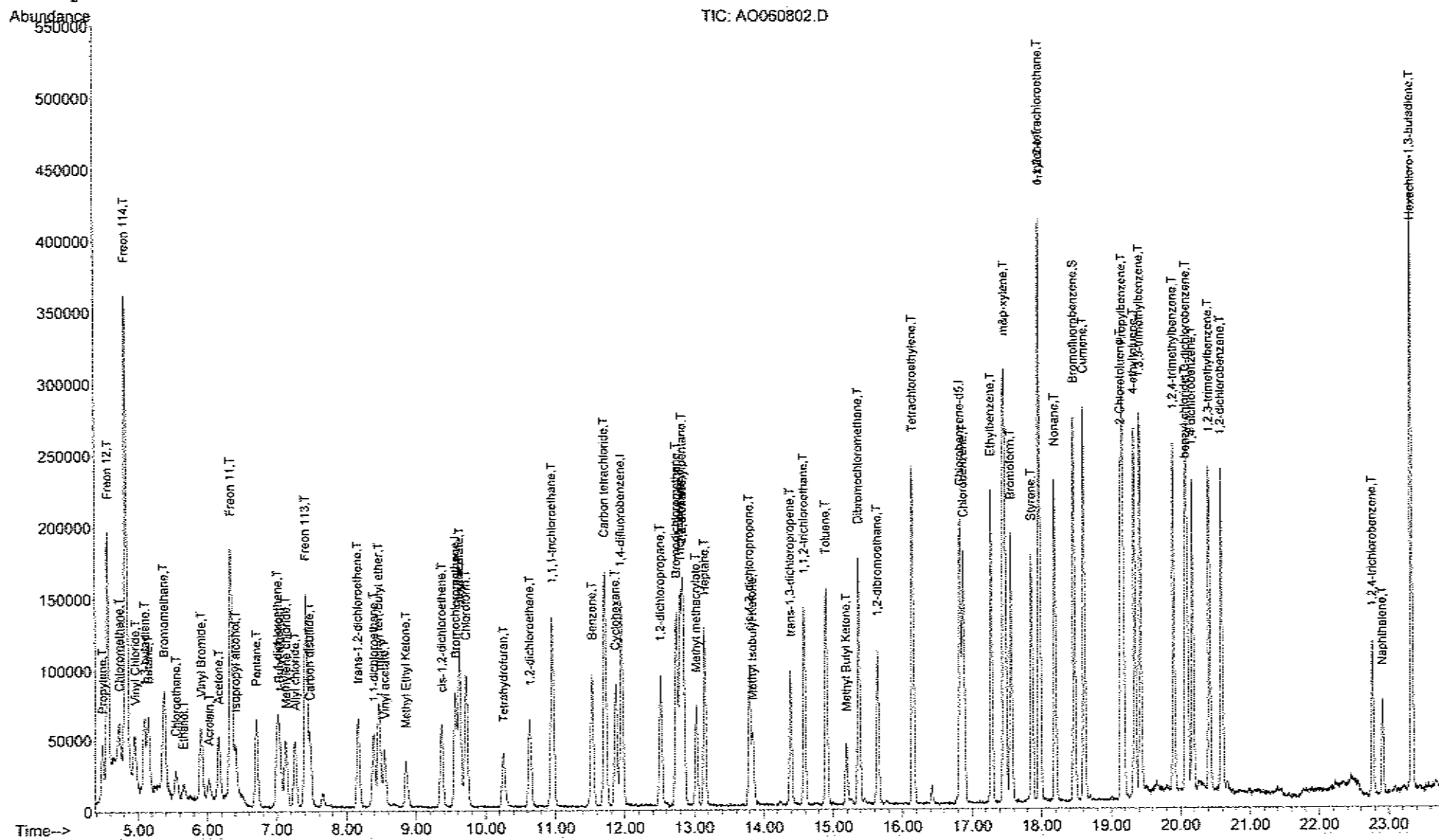
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0060802.D A605 1UG.M Thu Jun 29 10:19:01 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060802.D
 Acq On : 8 Jun 2017 10:30 am
 Sample : A1UG_1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 9 9:31 2017

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 10:00:18 2017
 Response via : Initial Calibration



Centek Laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AO061402.D
 Acq On : 14 Jun 2017 10:38 am
 Sample : A1UG 1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 10:00:18 2017
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	AvgRRF	CCRF	%Dev Area	% Dev(mIn)
1 I Bromochloromethane	1.000	1.000	0.0	97 0.00
2 T Propylene	0.836	1.000	-19.6	115 0.00
3 T Freon 12	6.465	6.956	-7.6	99 0.00
4 T Chloromethane	1.180	1.225	-3.8	103 -0.02
5 T Freon 114	5.834	6.333	-8.6	101 0.00
6 T Vinyl Chloride	1.665	1.704	-2.3	103 0.00
7 T Butane	1.787	1.839	-2.9	100 0.00
8 T 1,3-butadiene	1.161	1.198	-3.2	96 0.00
9 T Bromomethane	2.280	1.991	12.7	86 0.00
10 T Chloroethane	0.751	0.688	8.4	87 0.00
11 T Ethanol	0.543	0.513	5.5	97 0.00
12 T Acrolein	0.567	0.479	15.5	84 0.00
13 T Vinyl Bromide	2.218	2.359	-6.4	98 0.00
14 T Freon 11	7.838	8.153	-4.0	99 -0.01
15 T Acetone	0.631	0.731	-15.8	112 0.00
16 T Pentane	0.867	1.076	-24.1	114 -0.02
17 T Isopropyl alcohol	2.081	2.014	3.2	96 0.00
18 T 1,1-dichloroethene	1.008	0.983	2.5	94 -0.02
19 T Freon 113	2.435	2.500	-2.7	95 0.00
20 T t-Butyl alcohol	2.238	2.090	6.6	85 0.01
21 T Methylene chloride	0.968	1.037	-7.1	105 0.00
22 T Allyl chloride	1.052	1.121	-6.6	97 0.00
23 T Carbon disulfide	2.992	3.313	-10.7	105 0.00
24 T trans-1,2-dichloroethene	1.551	1.684	-8.6	103 0.00
25 T methyl tert-butyl ether	3.094	2.952	4.6	92 0.00
26 T 1,1-dichloroethane	1.922	2.061	-7.2	102 0.00
27 T Vinyl acetate	2.262	2.127	6.0	89 0.00
28 T Methyl Ethyl Ketone	0.471	0.469	0.4	97 0.01
29 T cis-1,2-dichloroethene	1.449	1.509	-4.1	97 0.00
30 T Hexane	1.215	1.358	-11.8	107 -0.01
31 T Ethyl acetate	2.723	3.048	-11.9	106 0.00
32 T Chloroform	3.032	3.109	-2.5	97 0.00
33 T Tetrahydrofuran	0.856	0.973	-13.7	110 0.00
34 T 1,2-dichloroethane	2.340	2.291	2.1	93 0.00
35 I 1,4-difluorobenzene	1.000	1.000	0.0	97 0.00
36 T 1,1,1-trichloroethane	0.803	0.743	7.5	90 0.00
37 T Cyclohexane	0.289	0.317	-9.7	106 0.00
38 T Carbon tetrachloride	0.891	0.714	19.9	79 0.00
39 T Benzene	0.674	0.689	-2.2	101 0.00
40 T Methyl methacrylate	0.291	0.278	4.5	96 0.00
41 T 1,4-dioxane	0.119	0.111	6.7	91 0.00
42 T 2,2,4-trimethylpentane	0.900	0.985	-9.4	105 0.00
43 T Heptane	0.303	0.341	-12.5	108 0.00
44 T Trichloroethene	0.360	0.336	6.7	93 0.00
45 T 1,2-dichloropropane	0.220	0.249	-13.2	110 0.00
46 T Bromodichloromethane	0.737	0.676	8.3	89 0.00
47 T cis-1,3-dichloropropene	0.400	0.386	3.5	92 0.00
48 T trans-1,3-dichloropropene	0.405	0.354	12.6	84 0.00
49 T 1,1,2-trichloroethane	0.311	0.312	-0.3	100 0.00

(#) = Out of Range
 AO061402.D A605_1UG.M

Thu Jun 29 10:30:31 2017

MSDL

Centek Laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\A0061402.D
 Acq On : 14 Jun 2017 10:38 am
 Sample : A1UG_1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A605 1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 10:00:18 2017
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	AvgRRF	CCRF	%Dev Area%	Dev(min)
51. T Toluene	0.571	0.525	8.1	96
52. T Methyl Isobutyl Ketone	0.468	0.330	29.5	68
53. T Dibromochloromethane	0.831	0.661	20.5	79
54. T Methyl Butyl Ketone	0.370	0.282	23.8	73
55. T 1,2-dibromoethane	0.573	0.553	3.5	97
56. T Tetrachloroethylene	0.443	0.406	8.4	90
57. T Chlorobenzene	0.833	0.769	7.7	90
58. T Ethylbenzene	1.343	1.233	8.2	90
59. T mcp-xylene	1.185	1.100	7.2	90
60. T Nonane	0.510	0.580	-13.7	111
61. T Styrene	0.722	0.633	12.3	88
62. T Bromoform	0.759	0.541	28.7	70
63. T o-xylene	1.152	1.067	7.4	91
64. T Cumene	1.526	1.388	9.0	91
65. S Bromofluorobenzene	0.692	0.714	-3.2	99
66. T 1,1,2,2-tetrachloroethane	0.690	0.717	-3.9	102
67. T Propylbenzene	0.397	0.357	10.1	90
68. T 2-Chlorotoluene	0.366	0.322	12.0	87
69. T 4-ethyltoluene	1.393	1.236	11.3	87
70. T 1,3,5-trimethylbenzene	1.301	1.166	10.4	90
71. T 1,2,4-trimethylbenzene	1.205	1.045	13.3	85
72. T 1,3-dichlorobenzene	0.810	0.727	10.2	87
73. T benzyl chloride	0.701	0.555	20.8	77
74. T 1,4-dichlorobenzene	0.749	0.691	7.7	89
75. T 1,2,3-trimethylbenzene	1.193	1.050	12.0	85
76. T 1,2-dichlorobenzene	0.759	0.694	8.6	88
77. T 1,2,4-trichlorobenzene	0.265	0.232	12.5	84
78. T Naphthalene	0.601	0.433	28.0	69
79. T Hexachloro-1,3-butadiene	0.686	0.580	15.5	82

(#) = Out of Range
 A0061402.D A605_1UG.M

SPCC's out = 0 CCC's out = 0
 Thu Jun 29 10:30:31 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO061402.D
 Acq On : 14 Jun 2017 10:38 am
 Sample : A1UG_1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 14 11:07:52 2017

Vial: 2

Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.57	128	34438	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.96	114	161937	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	142604	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	101866	1.03	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	= 103.00%	

Target Compounds

						Qvalue
2) Propylene	4.49	41	34440	1.20	ppb	79
3) Freon 12	4.57	85	239549	1.08	ppb	98
4) Chloromethane	4.72	50	42192	1.04	ppb	95
5) Freon 114	4.83	85	218088	1.09	ppb	96
6) Vinyl Chloride	4.95	62	58676	1.02	ppb	93
7) Butane	5.14	43	63345	1.03	ppb	95
8) 1,3-butadiene	5.09	39	41245m	1.03	ppb	
9) Bromomethane	5.37	94	68580	0.87	ppb	93
10) Chloroethane	5.54	64	23692	0.92	ppb	69
11) Ethanol	5.65	45	17655	0.94	ppb	82
12) Acrolein	6.02	56	16511	0.84	ppb	94
13) Vinyl Bromide	5.91	106	81223	1.06	ppb	94
14) Freon 11	6.33	101	280767	1.04	ppb	99
15) Acetone	6.16	58	25175	1.16	ppb	98
16) Pentane	6.69	42	37040	1.24	ppb	45
17) Isopropyl alcohol	6.40	45	69357	0.97	ppb	100
18) 1,1-dichloroethene	7.00	96	33851	0.97	ppb	92
19) Freon 113	7.41	101	86096	1.03	ppb	97
20) t-Butyl alcohol	7.05	59	71970	0.93	ppb	91
21) Methylene chloride	7.13	84	35722	1.07	ppb	84
22) Allyl chloride	7.26	41	38611	1.07	ppb	92
23) Carbon disulfide	7.47	76	114089	1.11	ppb	83
24) trans-1,2-dichloroethene	8.17	61	57988	1.09	ppb	90
25) methyl tert-butyl ether	8.46	73	101654	0.95	ppb	86
26) 1,1-dichloroethane	8.39	63	70967	1.07	ppb	93
27) Vinyl acetate	8.54	43	73244m	0.94	ppb	
28) Methyl Ethyl Ketone	8.87	72	16163	1.00	ppb	97
29) cis-1,2-dichloroethene	9.37	61	51954	1.04	ppb	96
30) Hexane	9.62	57	46756	1.12	ppb	87
31) Ethyl acetate	9.63	43	104971	1.12	ppb	97
32) Chloroform	9.72	83	107052	1.03	ppb	100
33) Tetrahydrofuran	10.26	42	33525	1.14	ppb	92
34) 1,2-dichloroethane	10.63	62	78903	0.98	ppb	98
36) 1,1,1-trichloroethane	10.96	97	120382	0.93	ppb	95
37) Cyclohexane	11.87	56	51350	1.10	ppb	99
38) Carbon tetrachloride	11.72	117	115659	0.80	ppb	98
39) Benzene	11.53	78	111595	1.02	ppb	92
40) Methyl methacrylate	13.03	41	44981	0.95	ppb	96
41) 1,4-dioxane	12.83	58	17949	0.93	ppb	66
42) 2,2,4-trimethylpentane	12.84	57	159445	1.09	ppb	86
43) Heptane	13.15	43	55203	1.12	ppb	97
44) Trichloroethene	12.80	130	54444	0.94	ppb	92
45) 1,2-dichloropropane	12.53	63	40256	1.13	ppb	100

(#) = qualifier out of range (m) = manual integration
 AO061402.D A605_1UG.M Thu Jun 29 10:30:35 2017

MSDL

Data File : C:\HPCHEM\1\DATA\A0061402.D
 Acq On : 14 Jun 2017 10:38 am
 Sample : AUG_1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 14 11:07:52 2017

Vial: 2

Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.75	83	109501	0.92 ppb	99
47) cis-1,3-dichloropropene	13.80	75	62575	0.97 ppb	98
48) trans-1,3-dichloropropene	14.39	75	57402	0.87 ppb	91
49) 1,1,2-trichloroethane	14.59	97	50541	1.00 ppb	97
51) Toluene	14.91	92	74899	0.92 ppb	83
52) Methyl Isobutyl Ketone	13.84	43	46997	0.70 ppb	93
53) Dibromochloromethane	15.37	129	94300	0.80 ppb	89
54) Methyl Butyl Ketone	15.20	43	40228m	0.76 ppb	97
55) 1,2-dibromoethane	15.65	107	78872	0.97 ppb	100
56) Tetrachloroethylene	16.15	164	57923	0.92 ppb	92
57) Chlorobenzene	16.88	112	109664	0.92 ppb	100
58) Ethylbenzene	17.28	91	175862	0.92 ppb	100
59) m,p-xylene	17.47	91	313623	1.86 ppb	90
60) Nonane	18.20	43	82661	1.14 ppb	90
61) Styrene	17.86	104	90227	0.88 ppb	98
62) Bromoform	17.56	173	77116	0.71 ppb	98
63) o-xylene	17.98	91	152146	0.93 ppb	94
64) Cumene	18.61	105	198005	0.91 ppb	99
66) 1,1,2,2-tetrachloroethane	17.97	83	102177	1.04 ppb	97
67) Propylbenzene	19.18	120	50955	0.90 ppb	1
68) 2-Chlorotoluene	19.15	126	45948	0.88 ppb	1
69) 4-ethyltoluene	19.34	105	176237	0.89 ppb	97
70) 1,3,5-trimethylbenzene	19.43	105	166297	0.90 ppb	100
71) 1,2,4-trimethylbenzene	19.91	105	148968	0.87 ppb	91
72) 1,3-dichlorobenzene	20.09	146	103647	0.90 ppb	99
73) benzyl chloride	20.08	91	79213	0.79 ppb	93
74) 1,4-dichlorobenzene	20.18	146	98470	0.92 ppb	97
75) 1,2,3-trimethylbenzene	20.42	105	149716	0.88 ppb	95
76) 1,2-dichlorobenzene	20.59	146	98985	0.91 ppb	98
77) 1,2,4-trichlorobenzene	22.77	180	33089	0.88 ppb	93
78) Naphthalene	22.91	128	61749	0.72 ppb	96
79) Hexachloro-1,3-butadiene	23.33	225	82679	0.85 ppb	97

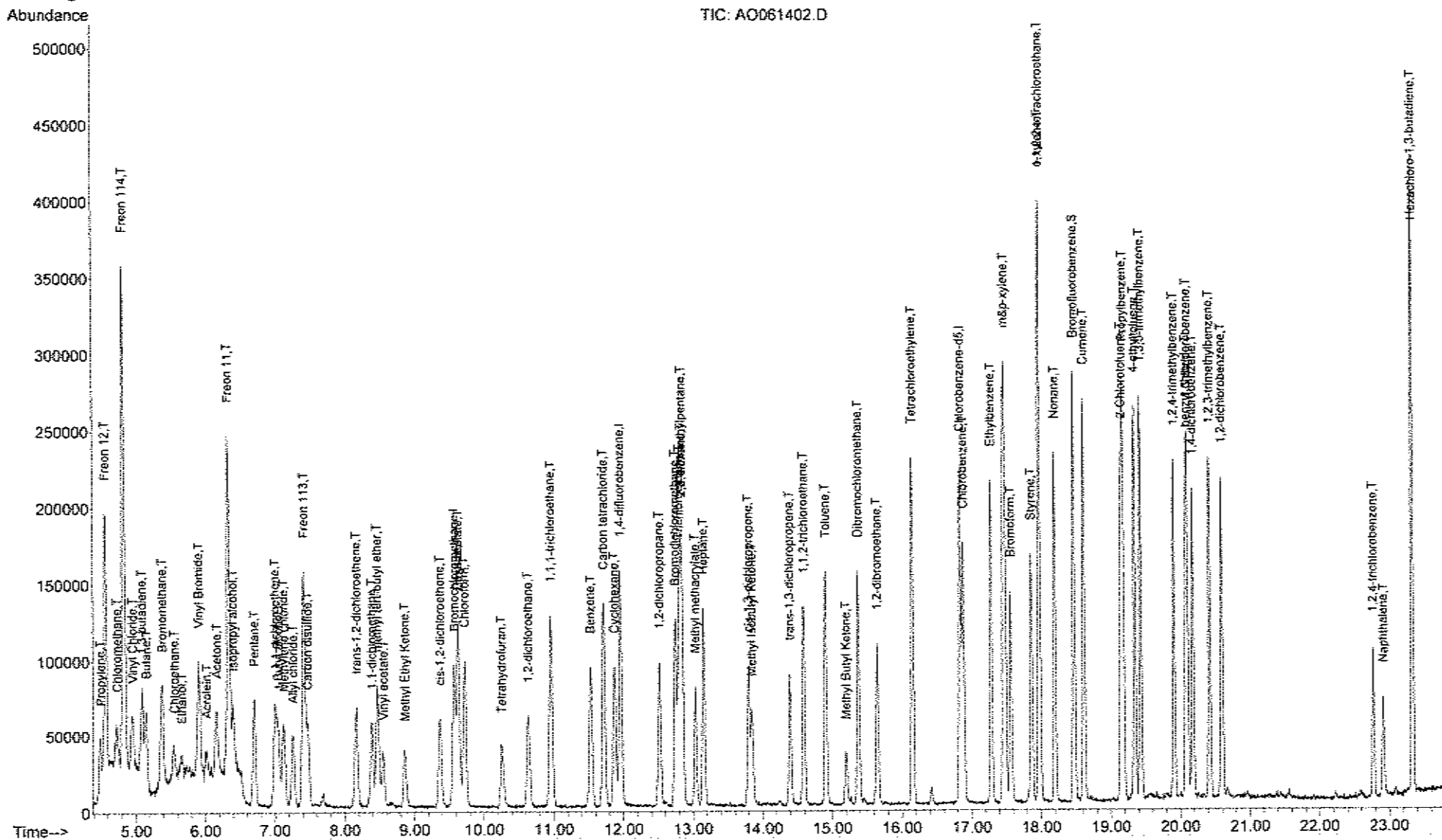
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0061402.D A605_1UG.M Thu Jun 29 10:30:35 2017 MSDI

Data File : C:\HPCHEM\1\DATA\AO061402.D
 Acq On : 14 Jun 2017 10:38 am
 Sample : A1UG_1.0
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 15 7:00 2017

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 10:00:18 2017
 Response via : Initial Calibration



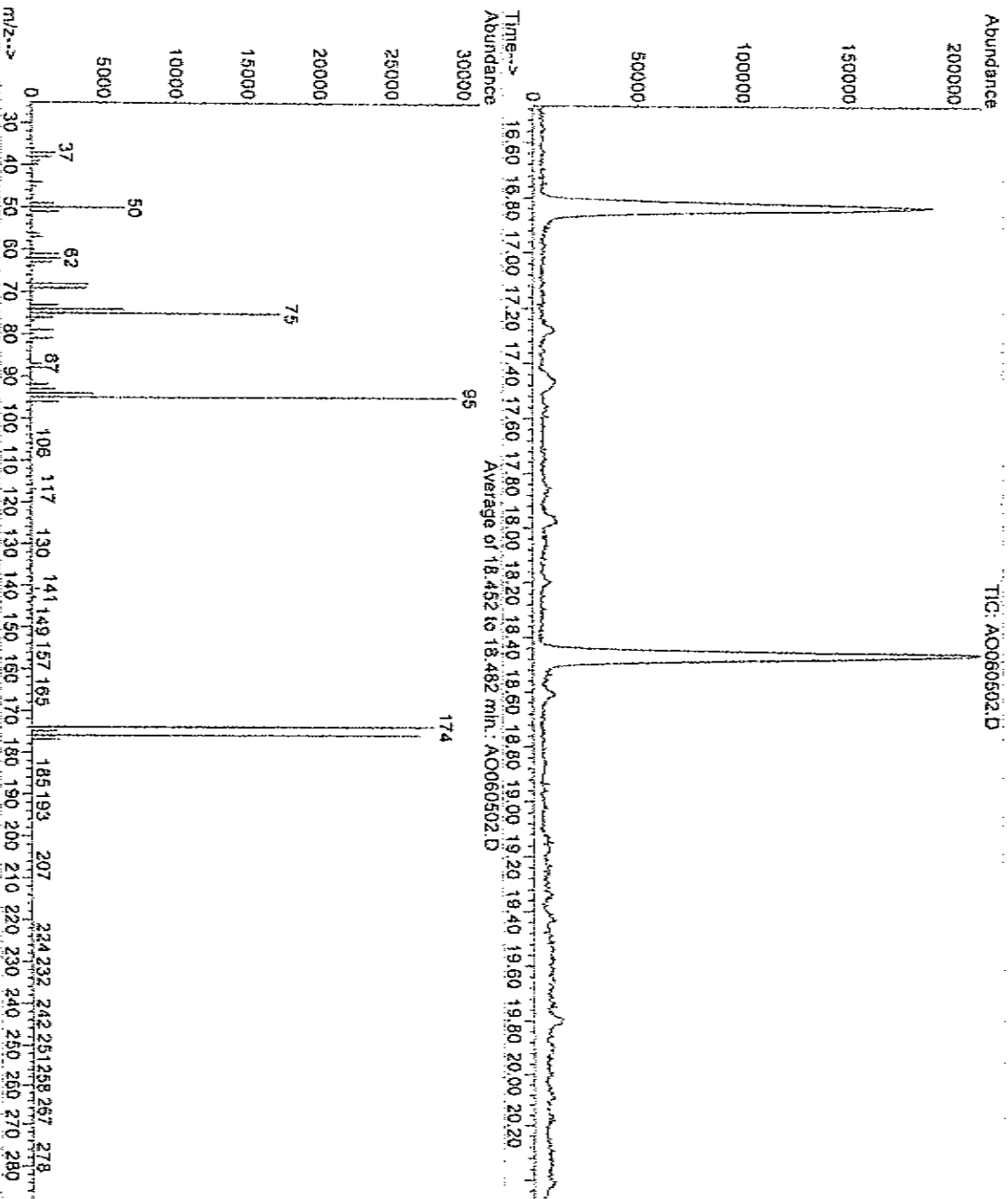
GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\A0060502.D Vial: 2
 Acq On : 5 Jun 2017 7:50 am Operator: RUP
 Sample : BFB1UG Insc : MSD #1
 Misc : A426_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration

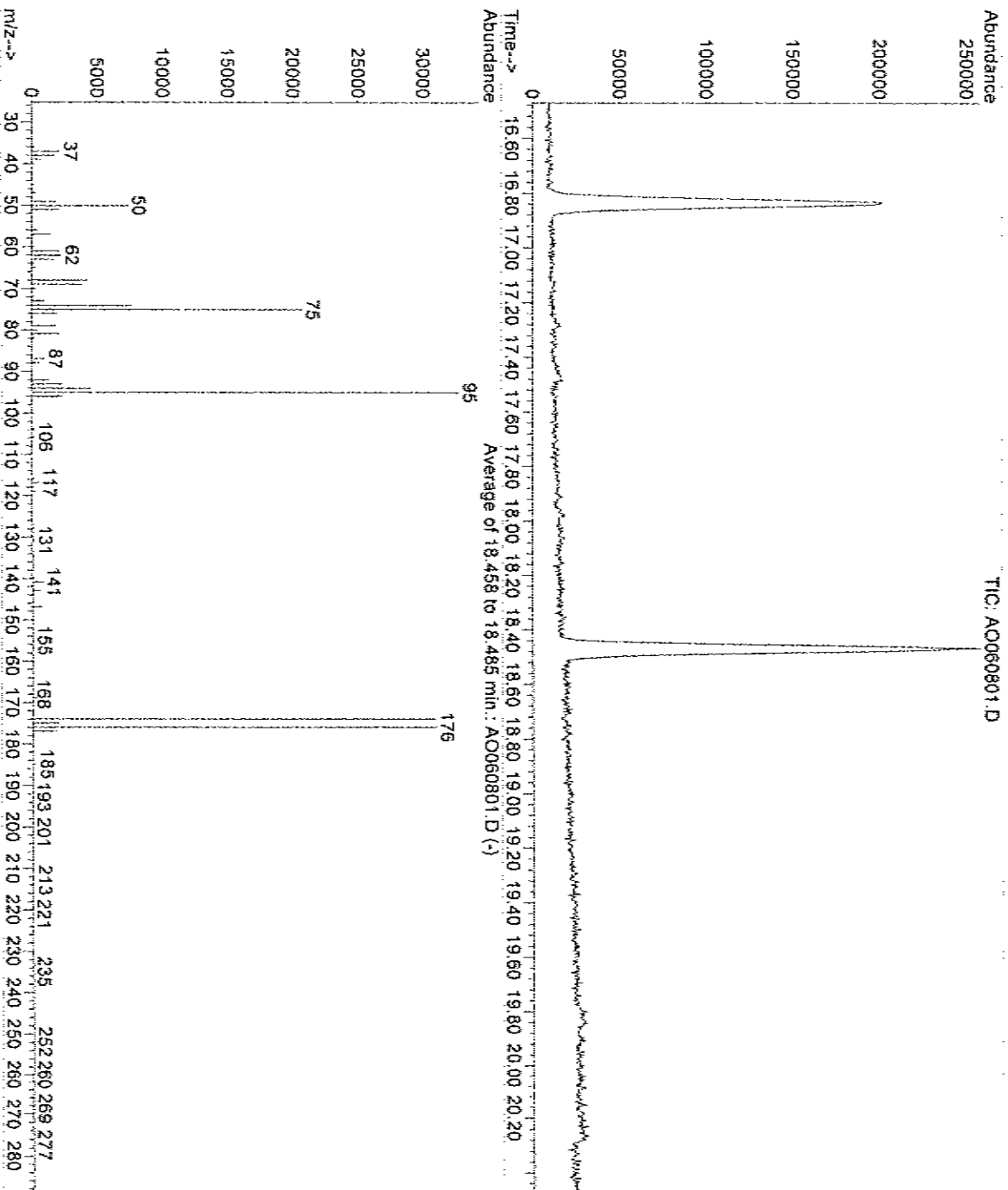


Spectrum Information: Average of 18.452 to 18.482 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	8	40	21.7	6448	PASS
75	95	30	66	58.3	17306	PASS
95	95	100	100	100.0	29690	PASS
96	95	5	9	6.7	2001	PASS
173	174	0.00	2	0.2	60	PASS
174	95	50	120	94.3	27986	PASS
175	174	4	9	6.2	1748	PASS
176	174	95	101	96.4	26976	PASS
177	176	5	9	7.0	1895	PASS

BFB

Data File : C:\HPCHEM\1\DATA\A0060801.D
 Acq On : 8 Jun 2017 9:36 am
 Sample : BFB1UG
 Misc : A605_1UG
 Vial: 1
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration



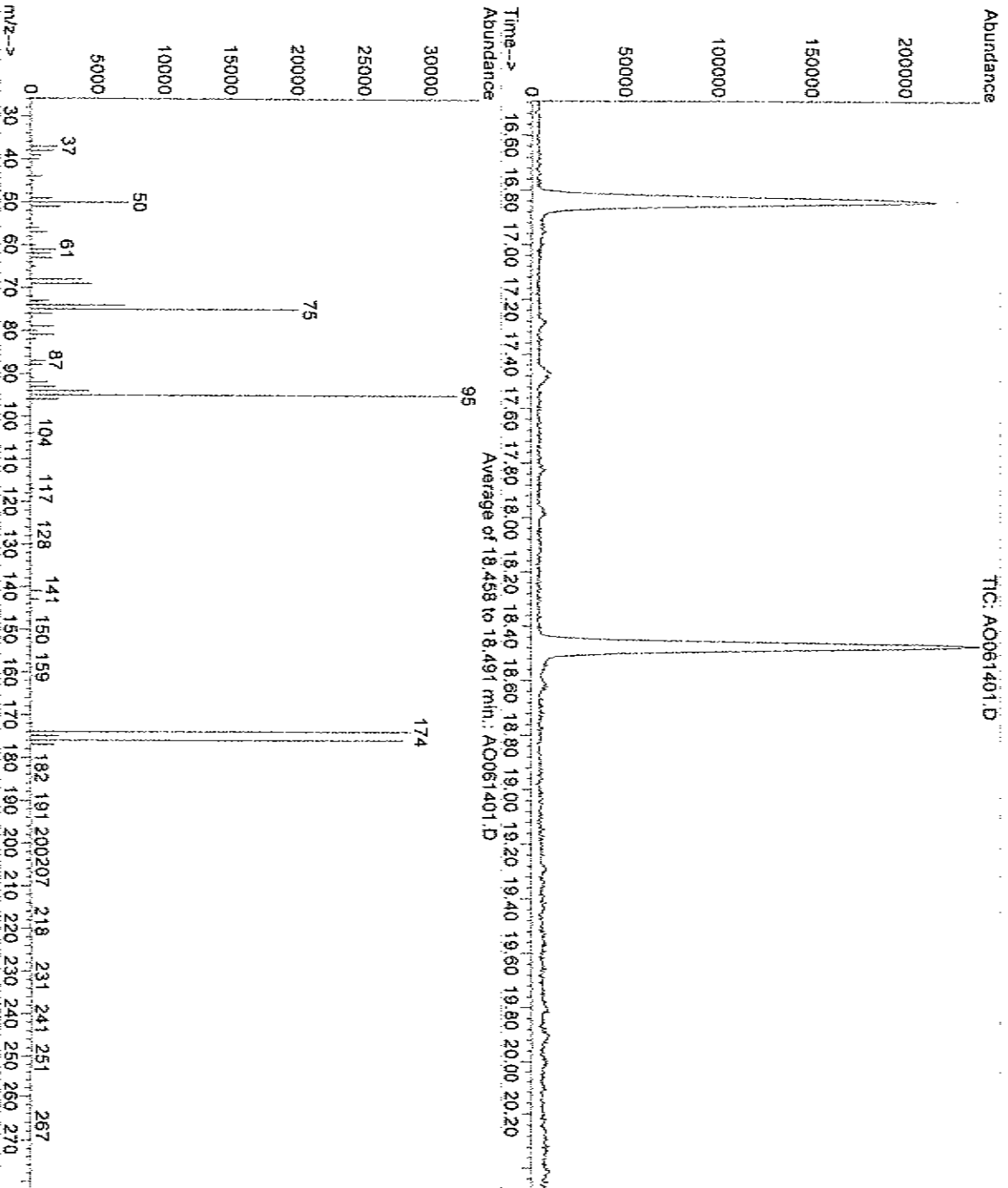
Spectrum Information: Average of 18.458 to 18.485 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	8	40	22.5	7381	PASS
75	95	30	66	63.2	20708	PASS
95	95	100	100	100.0	32749	PASS
96	95	5	9	7.2	2371	PASS
173	174	0.00	2	0.4	123	PASS
174	95	50	120	94.2	30849	PASS
175	174	4	9	6.6	2047	PASS
176	174	95	101	100.4	30984	PASS
177	176	5	9	6.2	1921	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AO061401.D
 Acq On : 14 Jun 2017 9:55 am
 Sample : BFB1UG
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00



Spectrum Information: Average of 18.458 to 18.491 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	8	40	23.1	7388	PASS
75	95	30	66	62.8	20132	PASS
95	95	100	100	100.0	32039	PASS
96	95	5	9	6.8	2186	PASS
173	174	0.00	2	0.5	141	PASS
174	95	50	120	88.9	28476	PASS
175	174	4	9	7.3	2082	PASS
176	174	95	101	98.2	27968	PASS
177	176	5	9	6.6	1837	PASS

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA



CEN TEK LABORATORIES, LLC

Date: 29-Jun-17

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID: AMB1UG-060817	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341						
Client ID: ZZZZZ	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers: . Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1706015
Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-060817	SampType:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	ZZZZZ	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143980
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers: . Results reported are not blank corrected
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-060817	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID:	ZZZZZ	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143980					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	< 0.15	0.15
trans-1,2-Dichloroethene	< 0.15	0.15
trans-1,3-Dichloropropene	< 0.15	0.15
Trichloroethene	< 0.040	0.040
Vinyl acetate	< 0.15	0.15
Vinyl Bromide	< 0.15	0.15
Vinyl chloride	< 0.040	0.040

Sample ID	AMB1UG-061417	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143998					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	< 0.15	0.15
1,1,2,2-Tetrachloroethane	< 0.15	0.15
1,1,2-Trichloroethane	< 0.15	0.15
1,1-Dichloroethane	< 0.15	0.15
1,1-Dichloroethene	< 0.15	0.15
1,2,4-Trichlorobenzene	< 0.15	0.15
1,2,4-Trimethylbenzene	< 0.15	0.15
1,2-Dibromoethane	< 0.15	0.15
1,2-Dichlorobenzene	< 0.15	0.15
1,2-Dichloroethane	< 0.15	0.15
1,2-Dichloropropane	< 0.15	0.15
1,3,5-Trimethylbenzene	< 0.15	0.15
1,3-butadiene	< 0.15	0.15
1,3-Dichlorobenzene	< 0.15	0.15
1,4-Dichlorobenzene	< 0.15	0.15
1,4-Dioxane	< 0.30	0.30
2,2,4-trimethylpentane	< 0.15	0.15
4-ethyltoluene	< 0.15	0.15

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-061417	SampType:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12342
Client ID:	ZZZZZ	Batch ID:	R12342	TestNo:	TO-15			Analysis Date:	6/14/2017	SeqNo:	143998
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:
 . Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: CI706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-061417	SampType:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12342
Client ID:	ZZZZZ	Batch ID:	R12342	TestNo:	TO-15			Analysis Date:	6/14/2017	SeqNo:	143998
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\A0060804.D
Acq On : 8 Jun 2017 11:47 am
Sample : AMB1UG-060817
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 08 14:14:05 2017

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplier: 1.00
Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.58	128	30410	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.96	114	138314	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	122233	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.48	95	75994	0.90	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	90.00%

Target Compounds

Qvalue

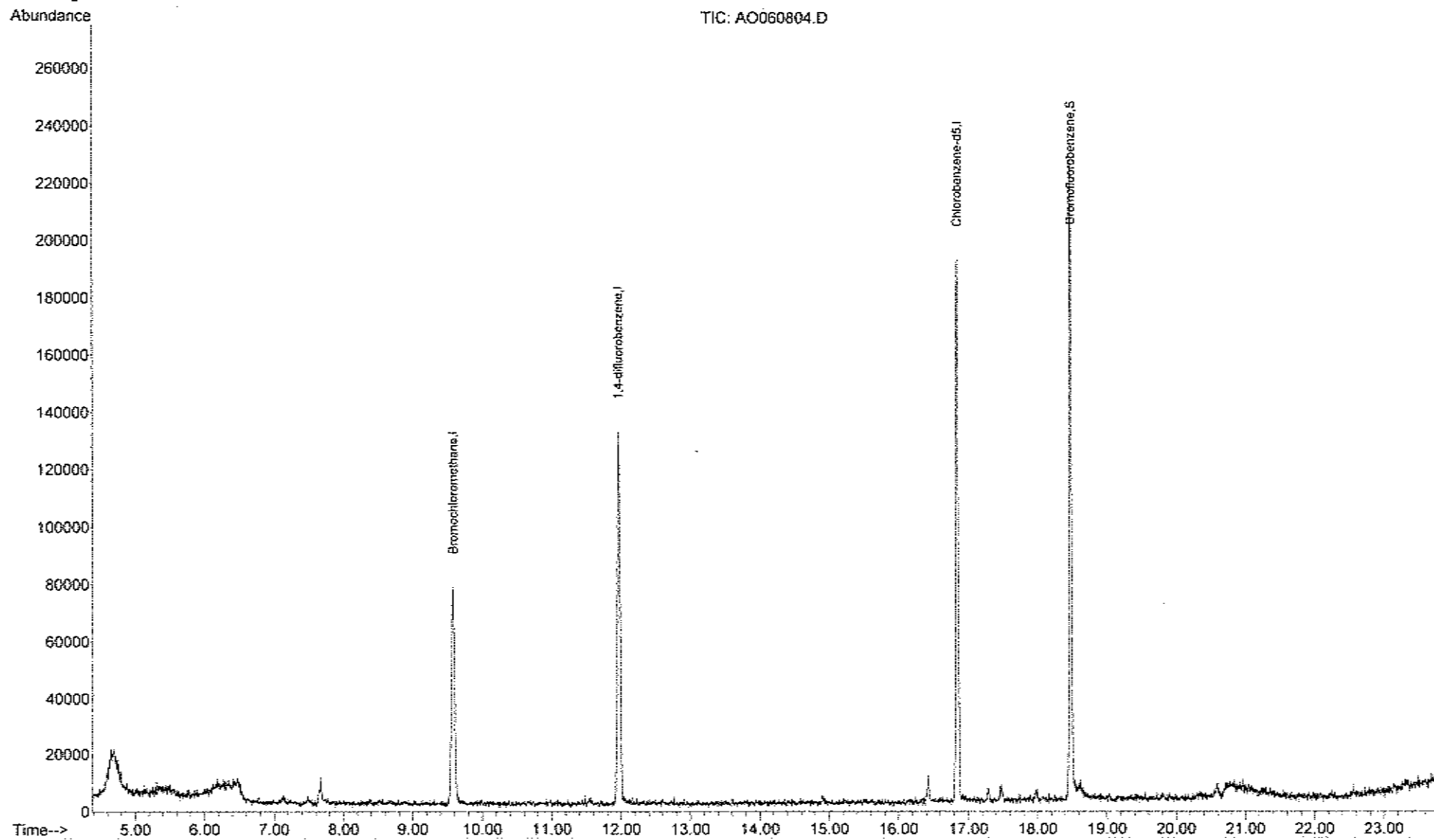
(#) = qualifier out of range (m) = manual integration (+) = signals summed
A0060804.D A605_1UG.M Thu Jun 29 10:10:43 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060804.D
Acq On : 8 Jun 2017 11:47 am
Sample : AMB1UG-060817
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 14 14:17 2017

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jun 29 10:00:17 2017
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\AO061404.D Vial: 4
Acq On : 14 Jun 2017 12:04 pm Operator: RJP
Sample : AMB1UG-061417 Inst : MSD #1
Misc : A605_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 15 07:02:14 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev	(Min)
1) Bromochloromethane	9.59	128	33182	1.00	ppb	0.03	
35) 1,4-difluorobenzene	11.97	114	143744	1.00	ppb	0.01	
50) Chlorobenzene-d5	16.84	117	128923	1.00	ppb	0.00	

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	79687	0.89	ppb	0.00	
Spiked Amount	1.000	Range	70 - 130	Recovery	=	89.00%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO061404.D A605_1UG.M Thu Jun 29 10:11:02 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO061404.D

Acq On : 14 Jun 2017 12:04 pm

Sample : AMB1UG-061417

Misc : A605_1UG

MS Integration Params: RTEINT.P

Quant Time: Jun 15 7:02 2017

Vial: 4

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

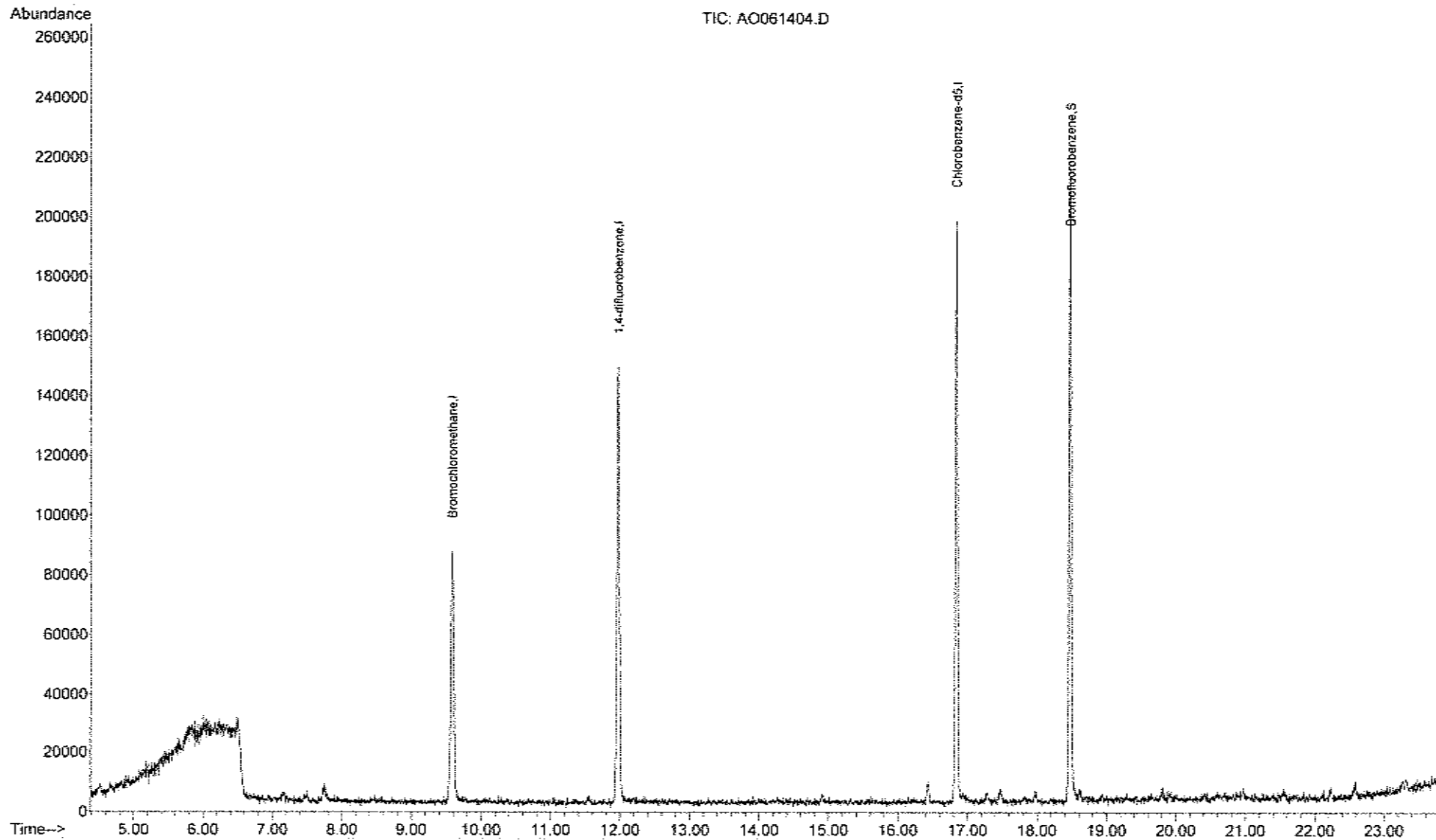
Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 10:00:17 2017

Response via : Initial Calibration





ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	SampType:	MS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	Rm 112 +MS/MSD	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143986
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.030	0.15	1	0	103	70	130				
1,1,2,2-Tetrachloroethane	1.030	0.15	1	0	103	70	130				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	70	130				
1,1-Dichloroethane	1.170	0.15	1	0	117	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	1.320	0.15	1	0	132	70	130				S
1,2,4-Trimethylbenzene	1.190	0.15	1	0.16	103	70	130				
1,2-Dibromoethane	1.070	0.15	1	0	107	70	130				
1,2-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.190	0.15	1	0	119	70	130				
1,3,5-Trimethylbenzene	1.030	0.15	1	0	103	70	130				
1,3-butadiene	1.100	0.15	1	0	110	70	130				
1,3-Dichlorobenzene	1.020	0.15	1	0	102	70	130				
1,4-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,4-Dioxane	6.800	0.30	1	1.4	540	70	130				S
2,2,4-trimethylpentane	17.63	0.15	1	4.17	1350	70	130				S
4-ethyltoluene	1.150	0.15	1	0	115	70	130				
Acetone	18.18	0.30	1	17.3	88.0	70	130				
Allyl chloride	1.160	0.15	1	0	116	70	130				
Benzene	3.110	0.15	1	0.88	223	70	130				S
Benzyl chloride	0.9900	0.15	1	0	99.0	70	130				
Bromodichloromethane	2.010	0.15	1	0	201	70	130				S
Bromoform	0.9000	0.15	1	0	90.0	70	130				
Bromomethane	1.110	0.15	1	0	111	70	130				

Qualifiers: . Results reported are not blank corrected
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	SampType:	MS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	Rm 112 +MS/MSD	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143986
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.120	0.15	1	0	112	70	130				
Carbon tetrachloride	1.050	0.040	1	0.09	96.0	70	130				
Chlorobenzene	1.080	0.15	1	0	108	70	130				
Chloroethane	1.030	0.15	1	0	103	70	130				
Chloroform	1.130	0.15	1	0	113	70	130				
Chloromethane	1.820	0.15	1	0	182	70	130				S
cis-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
cis-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Cyclohexane	5.700	0.15	1	1.71	399	70	130				S
Dibromochloromethane	0.9700	0.15	1	0	97.0	70	130				
Ethyl acetate	8.800	0.15	1	0	880	70	130				S
Ethylbenzene	1.310	0.15	1	0.15	116	70	130				
Freon 11	1.250	0.15	1	0.25	100	70	130				
Freon 113	1.120	0.15	1	0	112	70	130				
Freon 114	1.060	0.15	1	0	106	70	130				
Freon 12	1.400	0.15	1	0.53	87.0	70	130				
Heptane	9.210	0.15	1	2.44	677	70	130				S
Hexachloro-1,3-butadiene	1.090	0.15	1	0	109	70	130				
Hexane	26.94	0.15	1	8.54	1840	70	130				S
Isopropyl alcohol	25.61	0.15	1	25.74	-113	70	130				S
m&p-Xylene	2.420	0.30	2	0.32	105	70	130				
Methyl Butyl Ketone	2.300	0.30	1	0	230	70	130				S
Methyl Ethyl Ketone	1.560	0.30	1	0.66	90.0	70	130				
Methyl Isobutyl Ketone	1.270	0.30	1	0	127	70	130				
Methyl tert-butyl ether	1.180	0.15	1	0	118	70	130				
Methylene chloride	1.590	0.15	1	0.49	110	70	130				
o-Xylene	1.130	0.15	1	0.13	100	70	130				
Propylene	6.160	0.15	1	0	616	70	130				S
Styrene	1.110	0.15	1	0	111	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	1.150	0.15	1	0	115	70	130				

Qualifiers: - Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	SampType:	MS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	Rm 112 +MS/MSD	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143986
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.900	0.15	1	0.84	106	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.110	0.15	1	0	111	70	130				
Trichloroethene	1.150	0.040	1	0	115	70	130				
Vinyl acetate	27.17	0.15	1	0	2720	70	130				S
Vinyl Bromide	1.110	0.15	1	0	111	70	130				
Vinyl chloride	1.030	0.040	1	0	103	70	130				

Sample ID	C1706015-003A MS	SampType:	MSD	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	Rm 112 +MS/MSD	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143987
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9700	0.15	1	0	97.0	70	130	1.03	6.00	30	
1,1,2,2-Tetrachloroethane	1.050	0.15	1	0	105	70	130	1.03	1.92	30	
1,1,2-Trichloroethane	1.060	0.15	1	0	106	70	130	1.1	3.70	30	
1,1-Dichloroethane	1.190	0.15	1	0	119	70	130	1.17	1.69	30	
1,1-Dichloroethene	1.130	0.15	1	0	113	70	130	1.06	6.39	30	
1,2,4-Trichlorobenzene	1.360	0.15	1	0	136	70	130	1.32	2.99	30	S
1,2,4-Trimethylbenzene	1.170	0.15	1	0.16	101	70	130	1.19	1.69	30	
1,2-Dibromoethane	1.070	0.15	1	0	107	70	130	1.07	0	30	
1,2-Dichlorobenzene	1.070	0.15	1	0	107	70	130	1.01	5.77	30	
1,2-Dichloroethane	1.200	0.15	1	0	120	70	130	1.19	0.837	30	
1,2-Dichloropropane	1.150	0.15	1	0	115	70	130	1.19	3.42	30	
1,3,5-Trimethylbenzene	1.010	0.15	1	0	101	70	130	1.03	1.96	30	
1,3-butadiene	1.110	0.15	1	0	111	70	130	1.1	0.905	30	
1,3-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.02	3.85	30	
1,4-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.07	0.939	30	
1,4-Dioxane	8.130	0.30	1	1.4	673	70	130	6.8	17.8	30	S
2,2,4-trimethylpentane	21.80	0.15	1	4.17	1760	70	130	17.63	21.2	30	S
4-ethyltoluene	1.140	0.15	1	0	114	70	130	1.15	0.873	30	

Qualifiers:
 . Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	SampType: MSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID:	Rm 112 +MS/MSD	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143987					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	13.48	0.30	1	17.3	-382	70	130	18.18	29.7	30	S
Allyl chloride	1.290	0.15	1	0	129	70	130	1.16	10.6	30	
Benzene	3.170	0.15	1	0.88	229	70	130	3.11	1.91	30	S
Benzyl chloride	1.080	0.15	1	0	108	70	130	0.99	8.70	30	
Bromodichloromethane	2.150	0.15	1	0	215	70	130	2.01	6.73	30	S
Bromoform	0.9100	0.15	1	0	91.0	70	130	0.9	1.10	30	
Bromomethane	1.050	0.15	1	0	105	70	130	1.11	5.56	30	
Carbon disulfide	1.160	0.15	1	0	116	70	130	1.12	3.51	30	
Carbon tetrachloride	0.9900	0.040	1	0.09	90.0	70	130	1.05	5.88	30	
Chlorobenzene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Chloroethane	1.040	0.15	1	0	104	70	130	1.03	0.966	30	
Chloroform	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Chloromethane	1.530	0.15	1	0	153	70	130	1.82	17.3	30	S
cis-1,2-Dichloroethene	1.170	0.15	1	0	117	70	130	1.11	5.26	30	
cis-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130	1.13	0	30	
Cyclohexane	6.030	0.15	1	1.71	432	70	130	5.7	5.63	30	S
Dibromochloromethane	0.9600	0.15	1	0	96.0	70	130	0.97	1.04	30	
Ethyl acetate	10.01	0.15	1	0	1000	70	130	8.8	12.9	30	S
Ethylbenzene	1.370	0.15	1	0.15	122	70	130	1.31	4.48	30	
Freon 11	1.170	0.15	1	0.25	92.0	70	130	1.25	6.61	30	
Freon 113	1.140	0.15	1	0	114	70	130	1.12	1.77	30	
Freon 114	1.100	0.15	1	0	110	70	130	1.06	3.70	30	
Freon 12	1.340	0.15	1	0.53	81.0	70	130	1.4	4.38	30	
Heptane	10.66	0.15	1	2.44	822	70	130	9.21	14.6	30	S
Hexachloro-1,3-butadiene	1.110	0.15	1	0	111	70	130	1.09	1.82	30	
Hexane	31.79	0.15	1	8.54	2320	70	130	26.94	16.5	30	S
Isopropyl alcohol	17.91	0.15	1	26.74	-883	70	130	25.61	35.4	30	SR
m&p-Xylene	2.380	0.30	2	0.32	103	70	130	2.42	1.67	30	
Methyl Butyl Ketone	3.090	0.30	1	0	309	70	130	2.3	29.3	30	S
Methyl Ethyl Ketone	1.490	0.30	1	0.66	83.0	70	130	1.56	4.59	30	
Methyl Isobutyl Ketone	1.400	0.30	1	0	140	70	130	1.27	9.74	30	S

Qualifiers: - Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID: C1706015-003A MS	SampType: MSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341						
Client ID: Rm 112 +MS/MSD	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143987						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.210	0.15	1	0	121	70	130	1.18	2.51	30	
Methylene chloride	1.750	0.15	1	0.49	126	70	130	1.59	9.58	30	
o-Xylene	1.120	0.15	1	0.13	99.0	70	130	1.13	0.889	30	
Propylene	1.430	0.15	1	0	143	70	130	6.16	125	30	SR
Styrene	1.090	0.15	1	0	109	70	130	1.11	1.82	30	
Tetrachloroethylene	1.050	0.15	1	0	105	70	130	1.05	0	30	
Tetrahydrofuran	1.280	0.15	1	0	128	70	130	1.15	10.7	30	
Toluene	1.620	0.15	1	0.84	78.0	70	130	1.9	15.9	30	
trans-1,2-Dichloroethene	1.150	0.15	1	0	115	70	130	1.1	4.44	30	
trans-1,3-Dichloropropene	1.070	0.15	1	0	107	70	130	1.11	3.67	30	
Trichloroethene	1.100	0.040	1	0	110	70	130	1.15	4.44	30	
Vinyl acetate	32.84	0.15	1	0	3280	70	130	27.17	18.9	30	S
Vinyl Bromide	1.140	0.15	1	0	114	70	130	1.11	2.67	30	
Vinyl chloride	1.100	0.040	1	0	110	70	130	1.03	6.57	30	

Qualifiers: - Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\A0060811.D
 Acq On : 8 Jun 2017 4:51 pm
 Sample : C1706015-003A MS
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 09 07:24:26 2017

Vial: 11

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : 70-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Mln)
1) Bromochloromethane	9.57	128	37466	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.97	114	172474	1.00 ppb	0.00
50) Chlorobenzene-d5	16.85	117	159996	1.00 ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.48	95	111015	1.00 ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	= 100.00%

Target Compounds

2) Propylene	4.53	41	192951	6.16 ppb	Qvalue
3) Freon 12	4.57	85	338723m	1.40 ppb	# 16
4) Chloromethane	4.74	50	80557m	1.82 ppb	
5) Freon 114	4.84	85	232529	1.06 ppb	97
6) Vinyl Chloride	4.96	62	64286	1.03 ppb	92
7) Butane	5.16	43	206770	3.09 ppb	# 77
8) 1,3-butadiene	5.10	39	47767m	1.10 ppb	
9) Bromomethane	5.38	94	94943	1.11 ppb	87
10) Chloroethane	5.56	64	29053	1.03 ppb	85
11) Ethanol	5.67	45	33007696	1622.13 ppb	92
12) Acrolein	6.02	56	29493	1.39 ppb	98
13) Vinyl Bromide	5.91	106	91894	1.11 ppb	95
14) Freon 11	6.34	101	367122	1.25 ppb	99
15) Acetone	6.16	58	430166	18.18 ppb	# 50
16) Pentane	6.70	42	276799	8.52 ppb	36
17) Isopropyl alcohol	6.41	45	1996867	25.61 ppb	# 100
18) 1,1-dichloroethene	7.02	96	39926	1.06 ppb	87
19) Freon 113	7.42	101	102098	1.12 ppb	96
20) t-Butyl alcohol	7.06	59	226079	2.70 ppb	90
21) Methylene chloride	7.14	84	57692	1.59 ppb	86
22) Allyl chloride	7.27	41	45651	1.16 ppb	91
23) Carbon disulfide	7.48	76	125314	1.12 ppb	83
24) trans-1,2-dichloroethene	8.18	61	64203	1.10 ppb	96
25) methyl tert-butyl ether	8.48	73	136957	1.18 ppb	59
26) 1,1-dichloroethane	8.41	63	84487	1.17 ppb	79
27) Vinyl acetate	8.60	43	2302750m	27.17 ppb	
28) Methyl Ethyl Ketone	8.87	72	27552	1.56 ppb	98
29) cis-1,2-dichloroethene	9.38	61	60331	1.11 ppb	97
30) Hexane	9.64	57	122606	26.94 ppb	88
31) Ethyl acetate	9.63	43	897344	8.80 ppb	78
32) Chloroform	9.74	83	128865	1.13 ppb	94
33) Tetrahydrofuran	10.25	42	36771	1.15 ppb	80
34) 1,2-dichloroethane	10.64	62	104664	1.19 ppb	96
36) 1,1,1-trichloroethane	10.97	97	142637	1.03 ppb	98
37) Cyclohexane	11.88	56	283970	5.70 ppb	88
38) Carbon tetrachloride	11.73	117	161557	1.05 ppb	97
39) Benzene	11.54	78	362182	3.11 ppb	88
40) Methyl methacrylate	13.04	41	66108m	1.32 ppb	
41) 1,4-dioxane	12.85	58	139878	6.80 ppb	33
42) 2,2,4-trimethylpentane	12.85	57	2737891	17.63 ppb	74
43) Heptane	13.16	43	481869	9.21 ppb	93
44) Trichloroethene	12.81	130	71620	1.15 ppb	93
45) 1,2-dichloropropane	12.53	63	45280	1.19 ppb	94

(#) = qualifier out of range (m) = manual integration
 A0060811.D A605_1UG.M Thu Jun 29 10:10:46 2017

MSD1

Data File : C:\HPCHEM\1\DATA\A0060811.D
 Acq On : 8 Jun 2017 4:51 pm
 Sample : C1706015-003A MS
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 09 07:24:26 2017

Vial: 11

Operator: RJP

Inst : MSD #1

Multiplier: 1.00

Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	Q Ion	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.76	83	256098	2.01 ppb	64
47) cis-1,3-dichloropropene	13.81	75	77649	1.13 ppb	77
48) trans-1,3-dichloropropene	14.40	75	77608	1.11 ppb	82
49) 1,1,2-trichloroethane	14.60	97	59106	1.10 ppb	96
51) Toluene	14.91	92	173542	1.90 ppb	86
52) Methyl Isobutyl Ketone	13.85	43	94849	1.27 ppb	9
53) Dibromochloromethane	15.38	129	129324	0.97 ppb	95
54) Methyl Butyl Ketone	15.12	43	136078m	2.30 ppb	
55) 1,2-dibromoethane	15.65	107	97695	1.07 ppb	96
56) Tetrachloroethylene	16.16	164	74616	1.05 ppb	97
57) Chlorobenzene	16.89	112	143325	1.08 ppb	100
58) Ethylbenzene	17.29	91	282312	1.31 ppb	100
59) m&p-xylene	17.48	91	458548	2.42 ppb	99
60) Nonane	18.20	43	102200	1.25 ppb	97
61) Styrene	17.87	104	127862	1.11 ppb	98
62) Bromoform	17.57	173	108996	0.90 ppb	97
63) o-Xylene	17.98	91	209180	1.13 ppb	96
64) Cumene	18.62	105	243678	1.00 ppb	98
66) 1,1,2,2-tetrachloroethane	17.98	83	113993	1.03 ppb	98
67) Propylbenzene	19.19	120	67330	1.06 ppb	1
68) 2-Chlorotoluene	19.15	126	59792	1.02 ppb	1
69) 4-ethyltoluene	19.35	105	257084	1.15 ppb	99
70) 1,3,5-trimethylbenzene	19.43	105	214230	1.03 ppb	100
71) 1,2,4-trimethylbenzene	19.91	105	228828	1.19 ppb	96
72) 1,3-dichlorobenzene	20.11	146	132465	1.02 ppb	99
73) benzyl chloride	20.08	91	110622	0.99 ppb	89
74) 1,4-dichlorobenzene	20.18	146	127768	1.07 ppb	97
75) 1,2,3-trimethylbenzene	20.43	105	197566	1.04 ppb	94
76) 1,2-dichlorobenzene	20.60	146	122656	1.01 ppb	99
77) 1,2,4-trichlorobenzene	22.77	180	56004	1.32 ppb	93
78) Naphthalene	22.92	128	133881	1.39 ppb	93
79) Hexachloro-1,3-butadiene	23.34	225	119515	1.09 ppb	100

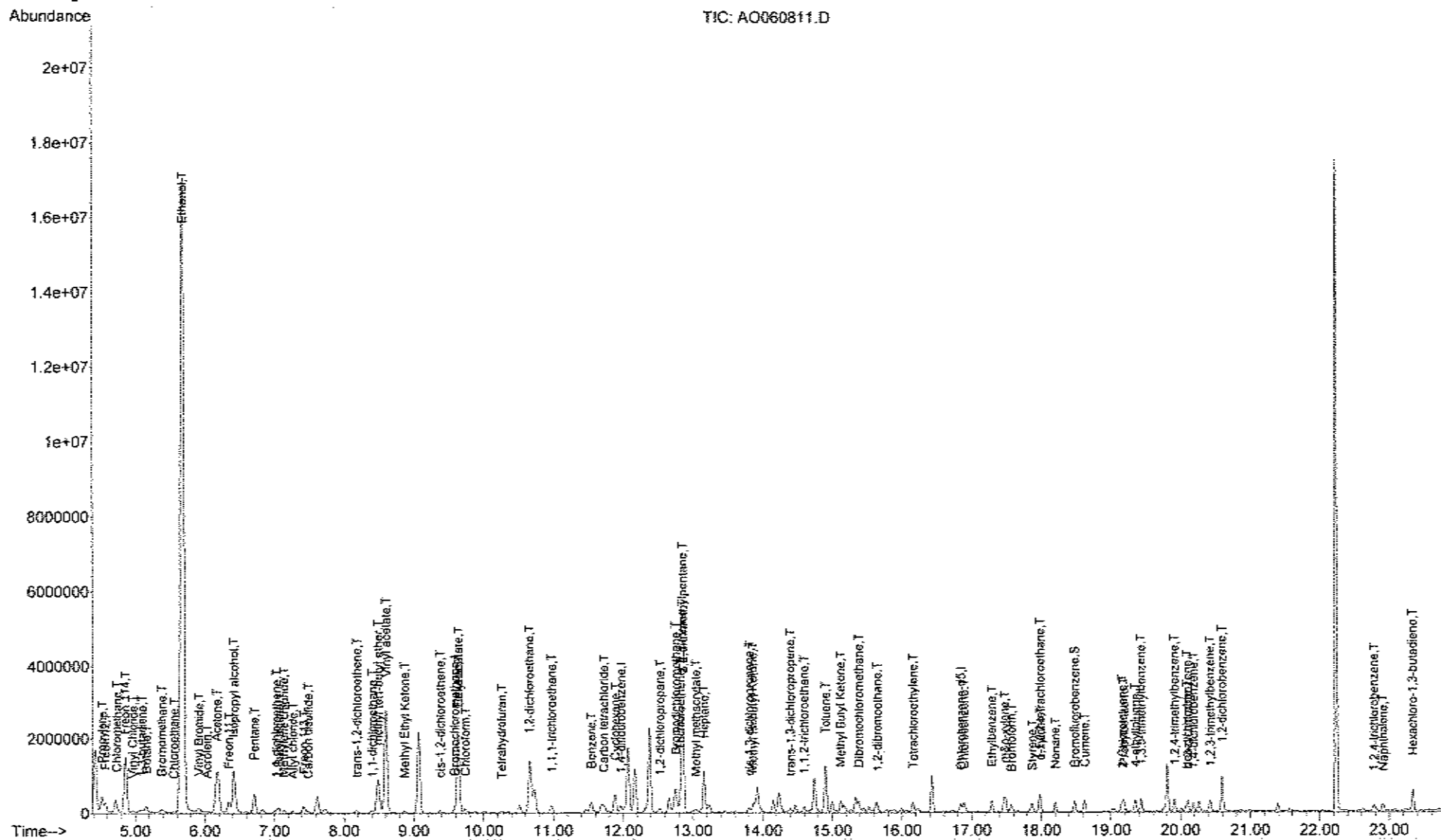
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0060811.D A605_1UG.M Thu Jun 29 10:10:47 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060811.D
 Acq On : 8 Jun 2017 4:51 pm
 Sample : C1706015-003A MS
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 14 14:23 2017

Vial: 11
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 10:00:17 2017
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060812.D
 Acq On : 8 Jun 2017 5:38 pm
 Sample : C1706015-003A MSD
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 09 07:24:27 2017

Vial: 12
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.58	128	37208	1.00	ppb	0.01
35) 1,4-difluorobenzene	11.96	114	180798	1.00	ppb	0.00
50) Chlorobenzene-d5	16.85	117	162242	1.00	ppb	0.00

System Monitoring Compounds	18.48	95	116598	1.04	ppb	0.00
65) Bromofluorobenzene						
Spiked Amount	1.000	Range	70 - 130	Recovery	= 104.00%	

Target Compounds						Qvalue
2) Propylene	4.50	41	44565	1.43	ppb	66
3) Freon 12	4.56	85	322392	1.34	ppb	99
4) Chloromethane	4.72	50	67098m	1.53	ppb	
5) Freon 114	4.83	85	238604	1.10	ppb	96
6) Vinyl Chloride	4.96	62	67859	1.10	ppb	90
7) Butane	5.15	43	170880	2.57	ppb	78
8) 1,3-butadiene	5.09	39	47809m	1.11	ppb	
9) Bromomethane	5.38	94	89246	1.05	ppb	95
10) Chloroethane	5.56	64	29171	1.04	ppb	74
11) Ethanol	5.67	45	25041653	1239.24	ppb	93
12) Acrolein	6.01	56	28160	1.33	ppb	7
13) Vinyl Bromide	5.91	106	94152	1.14	ppb	97
14) Freon 11	6.33	101	341469	1.17	ppb	97
15) Acetone	6.16	58	316786	13.48	ppb	32
16) Pentane	6.70	42	323460	10.03	ppb	38
17) Isopropyl alcohol	6.41	45	1386618	17.91	ppb	100
18) 1,1-dichloroethene	7.01	96	42497	1.13	ppb	94
19) Freon 113	7.41	101	103070	1.14	ppb	95
20) t-Butyl alcohol	7.06	59	194179	2.33	ppb	90
21) Methylene chloride	7.13	84	63033	1.75	ppb	83
22) Allyl chloride	7.27	41	50363	1.29	ppb	89
23) Carbon disulfide	7.47	76	128738	1.16	ppb	82
24) trans-1,2-dichloroethene	8.17	61	66553	1.15	ppb	95
25) methyl tert-butyl ether	8.47	73	139593	1.21	ppb	59
26) 1,1-dichloroethane	8.40	63	84980	1.19	ppb	80
27) Vinyl acetate	8.59	43	2763533m	32.84	ppb	
28) Methyl Ethyl Ketone	8.85	72	26046	1.49	ppb	96
29) cis-1,2-dichloroethene	9.38	61	63024	1.17	ppb	94
30) Hexane	9.63	57	1436476	31.79	ppb	88
31) Ethyl acetate	9.63	43	1014516	10.01	ppb	76
32) Chloroform	9.73	83	126180	1.12	ppb	97
33) Tetrahydrofuran	10.26	42	40623	1.28	ppb	89
34) 1,2-dichloroethane	10.65	62	104265	1.20	ppb	97
36) 1,1,1-trichloroethane	10.97	97	140417	0.97	ppb	98
37) Cyclohexane	11.88	56	315137	6.03	ppb	82
38) Carbon tetrachloride	11.73	117	160009	0.99	ppb	99
39) Benzene	11.54	78	385973	3.17	ppb	89
40) Methyl methacrylate	13.04	41	76498m	1.45	ppb	
41) 1,4-dioxane	12.85	58	175441	8.13	ppb	31
42) 2,2,4-trimethylpentane	12.85	57	3547522	21.80	ppb	74
43) Heptane	13.16	43	584170	10.66	ppb	94
44) Trichloroethene	12.81	130	71281	1.10	ppb	90
45) 1,2-dichloropropane	12.53	63	45736	1.15	ppb	97

(#) = Qualifier out of range (m) = manual integration
 A0060812.D A605_1UG.M Thu Jun 29 10:10:50 2017

MSD1

Data File : C:\HPCHEM\1\DATA\AO060812.D Vial: 12
 Acq On : 8 Jun 2017 5:38 pm Operator: RJP
 Sample : C1706015-003A MSD Inst : MSD #1
 Misc : A605_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jun 09 07:24:27 2017 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.76	83	286252	2.15 ppb	60
47) cis-1,3-dichloropropene	13.80	75	81611	1.13 ppb	80
48) trans-1,3-dichloropropene	14.40	75	78739	1.07 ppb	79
49) 1,1,2-trichloroethane	14.60	97	59406	1.06 ppb	94
51) Toluene	14.91	92	150111	1.62 ppb	83
52) Methyl Isobutyl Ketone	13.85	43	106281	1.40 ppb	1
53) Dibromochloromethane	15.38	129	129906	0.96 ppb	93
54) Methyl Butyl Ketone	15.12	43	185651m	3.09 ppb	95
55) 1,2-dibromoethane	15.65	107	99306	1.07 ppb	95
56) Tetrachloroethylene	16.15	164	75220	1.05 ppb	96
57) Chlorobenzene	16.89	112	145299	1.08 ppb	95
58) Ethylbenzene	17.29	91	297874	1.37 ppb	100
59) m&p-xylene	17.48	91	458346	2.38 ppb	98
60) Nonane	18.20	43	100710	1.22 ppb	94
61) Styrene	17.87	104	127640	1.09 ppb	98
62) Bromoform	17.57	173	111723	0.91 ppb	99
63) o-xylene	17.98	91	208813	1.12 ppb	94
64) Cumene	18.62	105	251373	1.02 ppb	98
66) 1,1,2,2-tetrachloroethane	17.98	83	117534	1.05 ppb	93
67) Propylbenzene	19.18	120	66598	1.03 ppb	1
68) 2-Chlorotoluene	19.16	126	60847	1.03 ppb	1
69) 4-ethyltoluene	19.35	105	256921	1.14 ppb	100
70) 1,3,5-trimethylbenzene	19.43	105	213025	1.01 ppb	98
71) 1,2,4-trimethylbenzene	19.91	105	228316	1.17 ppb	95
72) 1,3-dichlorobenzene	20.11	146	139557	1.06 ppb	98
73) benzyl chloride	20.08	91	122705	1.08 ppb	89
74) 1,4-dichlorobenzene	20.18	146	128419	1.06 ppb	96
75) 1,2,3-trimethylbenzene	20.43	105	204241	1.06 ppb	95
76) 1,2-dichlorobenzene	20.60	146	131588	1.07 ppb	99
77) 1,2,4-trichlorobenzene	22.77	180	58414	1.36 ppb	93
78) Naphthalene	22.92	128	135984	1.39 ppb	92
79) Hexachloro-1,3-butadiene	23.34	225	123134	1.11 ppb	99

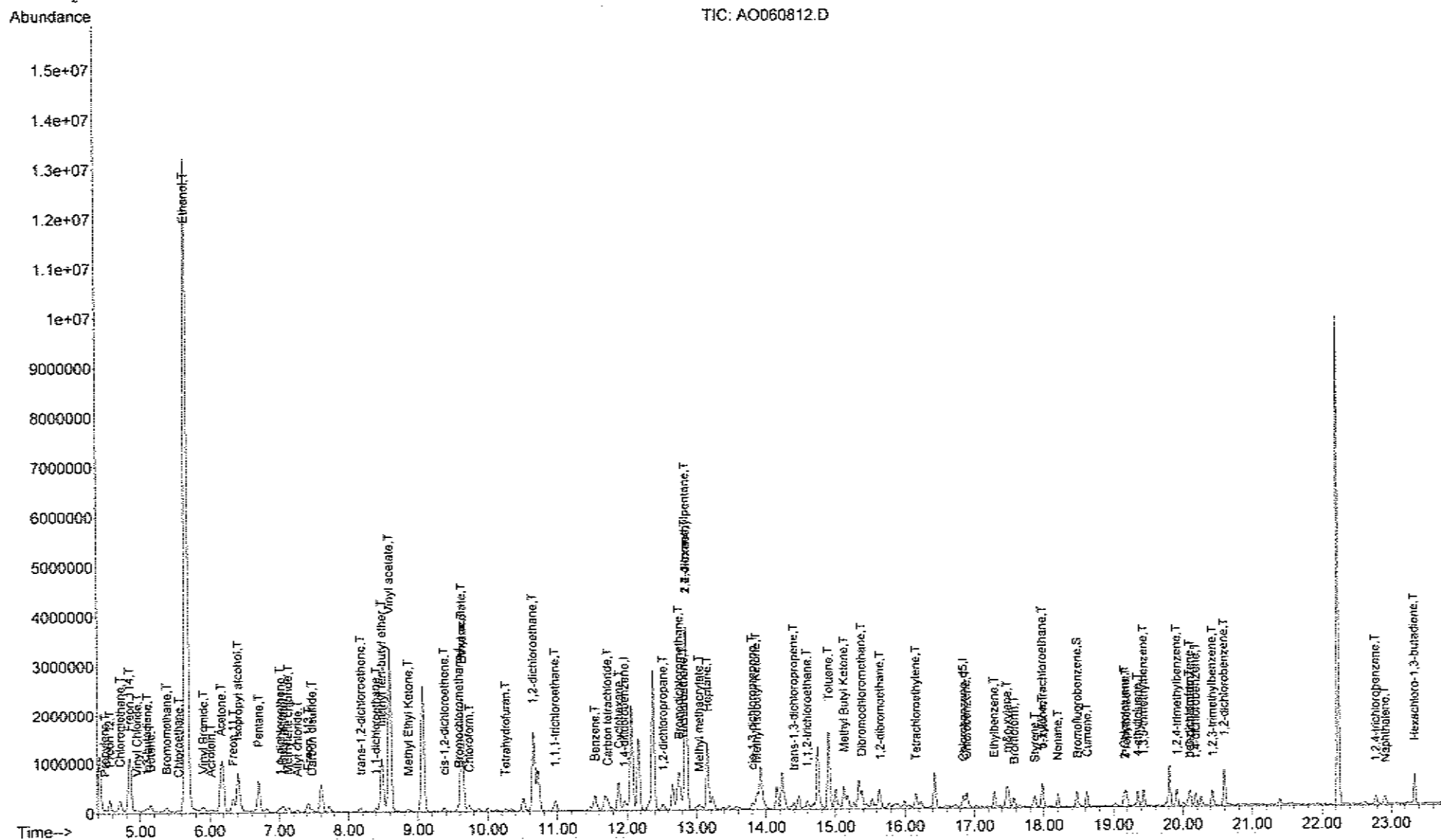
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO060812.D A605_1UG.M Thu Jun 29 10:10:51 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060812.D
 Acq On : 8 Jun 2017 5:38 pm
 Sample : C1706015-003A MSD
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 14 14:24 2017

Vial: 12
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 10:00:17 2017
 Response via : Initial Calibration





ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-060817	SampType:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	ZZZZZ	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143981
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.090	0.15	1	0	109	70	130				
1,1,2,2-Tetrachloroethane	1.110	0.15	1	0	111	70	130				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	70	130				
1,1-Dichloroethane	1.070	0.15	1	0	107	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	1.160	0.15	1	0	116	70	130				
1,2,4-Trimethylbenzene	1.040	0.15	1	0	104	70	130				
1,2-Dibromoethane	1.050	0.15	1	0	105	70	130				
1,2-Dichlorobenzene	1.130	0.15	1	0	113	70	130				
1,2-Dichloroethane	1.060	0.15	1	0	106	70	130				
1,2-Dichloropropane	1.120	0.15	1	0	112	70	130				
1,3,5-Trimethylbenzene	1.070	0.15	1	0	107	70	130				
1,3-butadiene	0.9000	0.15	1	0	90.0	70	130				
1,3-Dichlorobenzene	1.110	0.15	1	0	111	70	130				
1,4-Dichlorobenzene	1.150	0.15	1	0	115	70	130				
1,4-Dioxane	0.9600	0.30	1	0	96.0	70	130				
2,2,4-trimethylpentane	1.100	0.15	1	0	110	70	130				
4-ethyltoluene	1.090	0.15	1	0	109	70	130				
Acetone	1.000	0.30	1	0	100	70	130				
Allyl chloride	1.040	0.15	1	0	104	70	130				
Benzene	1.060	0.15	1	0	106	70	130				
Benzyl chloride	1.230	0.15	1	0	123	70	130				
Bromodichloromethane	1.070	0.15	1	0	107	70	130				
Bromoform	1.030	0.15	1	0	103	70	130				
Bromomethane	0.7200	0.15	1	0	72.0	70	130				

Qualifiers: . Results reported are not blank corrected
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-060817	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID: ZZZZZ	Batch ID: R12341	TestNo: TO-15	Analysis Date: 6/8/2017	SeqNo: 143981							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.040	0.15	1	0	104	70	130				
Carbon tetrachloride	1.100	0.040	1	0	110	70	130				
Chlorobenzene	1.060	0.15	1	0	106	70	130				
Chloroethane	0.8500	0.15	1	0	85.0	70	130				
Chloroform	1.080	0.15	1	0	108	70	130				
Chloromethane	1.040	0.15	1	0	104	70	130				
cis-1,2-Dichloroethene	1.070	0.15	1	0	107	70	130				
cis-1,3-Dichloropropene	1.120	0.15	1	0	112	70	130				
Cyclohexane	1.140	0.15	1	0	114	70	130				
Dibromochloromethane	1.060	0.15	1	0	106	70	130				
Ethyl acetate	1.070	0.15	1	0	107	70	130				
Ethylbenzene	1.070	0.15	1	0	107	70	130				
Freon 11	0.9900	0.15	1	0	99.0	70	130				
Freon 113	1.060	0.15	1	0	106	70	130				
Freon 114	0.8500	0.15	1	0	85.0	70	130				
Freon 12	0.9600	0.15	1	0	96.0	70	130				
Heptane	1.160	0.15	1	0	116	70	130				
Hexachloro-1,3-butadiene	1.070	0.15	1	0	107	70	130				
Hexane	1.080	0.15	1	0	108	70	130				
Isopropyl alcohol	0.9800	0.15	1	0	98.0	70	130				
m&p-Xylene	2.190	0.30	2	0	110	70	130				
Methyl Butyl Ketone	0.7500	0.30	1	0	75.0	70	130				
Methyl Ethyl Ketone	0.9300	0.30	1	0	93.0	70	130				
Methyl Isobutyl Ketone	0.7200	0.30	1	0	72.0	70	130				
Methyl tert-butyl ether	1.080	0.15	1	0	108	70	130				
Methylene chloride	1.060	0.15	1	0	106	70	130				
o-Xylene	1.070	0.15	1	0	107	70	130				
Propylene	1.120	0.15	1	0	112	70	130				
Styrene	1.090	0.15	1	0	109	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	0.9700	0.15	1	0	97.0	70	130				

Qualifiers:	.	Results reported are not blank corrected	E	Estimated Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits				

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-060817	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID:	ZZZZZ	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143981					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	1.030	0.15	1	0	103	70	130				
trans-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
trans-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130				
Trichloroethene	1.020	0.040	1	0	102	70	130				
Vinyl acetate	1.050	0.15	1	0	105	70	130				
Vinyl Bromide	0.7900	0.15	1	0	79.0	70	130				
Vinyl chloride	0.8400	0.040	1	0	84.0	70	130				

Sample ID	ALCS1UG-061417	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143999					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	0.9300	0.15	1	0	93.0	70	130				
1,1,2,2-Tetrachloroethane	1.140	0.15	1	0	114	70	130				
1,1,2-Trichloroethane	1.050	0.15	1	0	105	70	130				
1,1-Dichloroethane	1.110	0.15	1	0	111	70	130				
1,1-Dichloroethene	1.020	0.15	1	0	102	70	130				
1,2,4-Trichlorobenzene	1.030	0.15	1	0	103	70	130				
1,2,4-Trimethylbenzene	0.9900	0.15	1	0	99.0	70	130				
1,2-Dibromoethane	1.060	0.15	1	0	106	70	130				
1,2-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130				
1,2-Dichloroethane	1.020	0.15	1	0	102	70	130				
1,2-Dichloropropane	1.110	0.15	1	0	111	70	130				
1,3,5-Trimethylbenzene	1.000	0.15	1	0	100	70	130				
1,3-butadiene	0.9500	0.15	1	0	95.0	70	130				
1,3-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dioxane	1.030	0.30	1	0	103	70	130				
2,2,4-trimethylpentane	1.130	0.15	1	0	113	70	130				
4-ethyltoluene	1.060	0.15	1	0	106	70	130				

Qualifiers:
 . Results reported are not blank corrected
 3 Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-061417	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143999					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.120	0.30	1	0	112	70	130				
Allyl chloride	1.020	0.15	1	0	102	70	130				
Benzene	1.050	0.15	1	0	105	70	130				
Benzyl chloride	0.9600	0.15	1	0	96.0	70	130				
Bromodichloromethane	0.9400	0.15	1	0	94.0	70	130				
Bromoform	0.7600	0.15	1	0	76.0	70	130				
Bromomethane	0.7100	0.15	1	0	71.0	70	130				
Carbon disulfide	1.110	0.15	1	0	111	70	130				
Carbon tetrachloride	0.8400	0.040	1	0	84.0	70	130				
Chlorobenzene	1.000	0.15	1	0	100	70	130				
Chloroethane	0.8700	0.15	1	0	87.0	70	130				
Chloroform	1.030	0.15	1	0	103	70	130				
Chloromethane	1.090	0.15	1	0	109	70	130				
cis-1,2-Dichloroethene	1.060	0.15	1	0	106	70	130				
cis-1,3-Dichloropropene	1.040	0.15	1	0	104	70	130				
Cyclohexane	1.140	0.15	1	0	114	70	130				
Dibromochloromethane	0.8900	0.15	1	0	89.0	70	130				
Ethyl acetate	1.200	0.15	1	0	120	70	130				
Ethylbenzene	1.010	0.15	1	0	101	70	130				
Freon 11	1.050	0.15	1	0	105	70	130				
Freon 113	1.050	0.15	1	0	105	70	130				
Freon 114	1.090	0.15	1	0	109	70	130				
Freon 12	1.060	0.15	1	0	106	70	130				
Heptane	1.140	0.15	1	0	114	70	130				
Hexachloro-1,3-butadiene	0.9700	0.15	1	0	97.0	70	130				
Hexane	1.110	0.15	1	0	111	70	130				
Isopropyl alcohol	1.010	0.15	1	0	101	70	130				
m&p-Xylene	2.030	0.30	2	0	102	70	130				
Methyl Butyl Ketone	0.7600	0.30	1	0	76.0	70	130				
Methyl Ethyl Ketone	1.060	0.30	1	0	106	70	130				
Methyl isobutyl Ketone	0.8300	0.30	1	0	83.0	70	130				

Qualifiers: . Results reported are not blank corrected
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-061417	SampType:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12342
Client ID:	ZZZZZ	Batch ID:	R12342	TestNo:	TO-15			Analysis Date:	6/14/2017	SeqNo:	143999
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.000	0.15	1	0	100	70	130				
Methylene chloride	1.100	0.15	1	0	110	70	130				
o-Xylene	0.9900	0.15	1	0	99.0	70	130				
Propylene	1.290	0.15	1	0	129	70	130				
Styrene	0.9700	0.15	1	0	97.0	70	130				
Tetrachloroethylene	0.9700	0.15	1	0	97.0	70	130				
Tetrahydrofuran	1.150	0.15	1	0	115	70	130				
Toluene	1.030	0.15	1	0	103	70	130				
trans-1,2-Dichloroethene	1.090	0.15	1	0	109	70	130				
trans-1,3-Dichloropropene	0.9500	0.15	1	0	95.0	70	130				
Trichloroethene	0.9700	0.040	1	0	97.0	70	130				
Vinyl acetate	1.010	0.15	1	0	101	70	130				
Vinyl Bromide	0.9300	0.15	1	0	93.0	70	130				
Vinyl chloride	0.9300	0.040	1	0	93.0	70	130				

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range

ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A0060803.D
 Acq On : 8 Jun 2017 11:10 am
 Sample : ALCSIUG-060817
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 08 14:13:51 2017

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.58	128	32591	1.00	ppb	0.01
35) 1,4-difluorobenzene	11.97	114	146395	1.00	ppb	0.01
50) Chlorobenzene-d5	16.84	117	130206	1.00	ppb	0.00

System Monitoring Compounds	18.48	95	94331	1.05	ppb	0.00
65) Bromofluorobenzene						
Spiked Amount	1.000	Range	70 - 130	Recovery	= 105.00%	

Target Compounds						Qvalue
2) Propylene	4.50	41	30472	1.12	ppb	75
3) Freon 12	4.57	85	201466	0.96	ppb	98
4) Chloromethane	4.74	50	39950	1.04	ppb	98
5) Freon 114	4.84	85	161000	0.85	ppb	88
6) Vinyl Chloride	4.97	62	45796	0.84	ppb	96
7) Butane	5.16	43	53546	0.92	ppb	90
8) 1,3-butadiene	5.11	39	34196m	0.90	ppb	
9) Bromomethane	5.39	94	53336	0.72	ppb	91
10) Chloroethane	5.56	64	20927	0.85	ppb	86
11) Ethanol	5.70	45	14685	0.83	ppb	87
12) Acrolein	6.06	56	15939	0.86	ppb	96
13) Vinyl Bromide	5.92	106	57178	0.79	ppb	93
14) Freon 11	6.35	101	253246	0.99	ppb	98
15) Acetone	6.19	58	20634	1.00	ppb	69
16) Pentane	6.72	42	30574	1.08	ppb	41
17) Isopropyl alcohol	6.46	45	66594	0.98	ppb	100
18) 1,1-dichloroethene	7.02	96	34791	1.06	ppb	94
19) Freon 113	7.43	101	83973	1.06	ppb	96
20) t-Butyl alcohol	7.09	59	75271	1.03	ppb	95
21) Methylene chloride	7.14	84	33467	1.06	ppb	83
22) Allyl chloride	7.27	41	35582	1.04	ppb	98
23) Carbon disulfide	7.49	76	101209	1.04	ppb	82
24) trans-1,2-dichloroethene	8.18	61	53122	1.05	ppb	95
25) methyl tert-butyl ether	8.49	73	109050	1.08	ppb	93
26) 1,1-dichloroethane	8.41	63	67231	1.07	ppb	93
27) Vinyl acetate	8.58	43	77393m	1.05	ppb	
28) Methyl Ethyl Ketone	8.88	72	14209	0.93	ppb	96
29) cis-1,2-dichloroethene	9.38	61	50393	1.07	ppb	95
30) Hexane	9.63	57	42576	1.08	ppb	84
31) Ethyl acetate	9.66	43	95157	1.07	ppb	96
32) Chloroform	9.74	83	107016	1.08	ppb	97
33) Tetrahydrofuran	10.28	42	26954	0.97	ppb	76
34) 1,2-dichloroethane	10.65	62	80914	1.06	ppb	96
36) 1,1,1-trichloroethane	10.97	97	127519	1.09	ppb	97
37) Cyclohexane	11.88	56	48128	1.14	ppb	96
38) Carbon tetrachloride	11.73	117	143856	1.10	ppb	99
39) Benzene	11.54	78	104437	1.06	ppb	91
40) Methyl methacrylate	13.05	41	43643	1.02	ppb	96
41) 1,4-dioxane	12.86	58	16684	0.96	ppb	63
42) 2,2,4-trimethylpentane	12.85	57	144501	1.10	ppb	85
43) Heptane	13.16	43	51375	1.16	ppb	93
44) Trichloroethene	12.81	130	53518	1.02	ppb	90
45) 1,2-dichloropropane	12.53	63	36167	1.12	ppb	99

(#) = Qualifier out of range (m) = manual integration
 A0060803.D A605_1UG.M Thu Jun 29 10:10:39 2017

MSDL

Data File : C:\HPCHEM\1\DATA\A0060803.D
 Acq On : 8 Jun 2017 11:10 am
 Sample : ALC31UG-060817
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 08 14:13:51 2017

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	Qion	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.76	83	115949	1.07 ppb	98
47) cis-1,3-dichloropropene	13.81	75	65484	1.12 ppb	98
48) trans-1,3-dichloropropene	14.40	75	64178	1.08 ppb	96
49) 1,1,2-trichloroethane	14.60	97	50023	1.10 ppb	96
51) Toluene	14.91	92	76669	1.03 ppb	84
52) Methyl Isobutyl Ketone	13.86	43	44075m	0.72 ppb	
53) Dibromochloromethane	15.38	129	115286	1.06 ppb	92
54) Methyl Butyl Ketone	15.21	43	36038m	0.75 ppb	
55) 1,2-dibromoethane	15.65	107	78238	1.05 ppb	95
56) Tetrachloroethylene	16.16	164	60672	1.05 ppb	100
57) Chlorobenzene	16.89	112	114450	1.06 ppb	95
58) Ethylbenzene	17.29	91	187983	1.07 ppb	99
59) mcp-xylene	17.48	91	338675	2.19 ppb	99
60) Nonane	18.20	43	78447	1.18 ppb	96
61) Styrene	17.87	104	102262	1.09 ppb	95
62) Bromoform	17.57	173	101394	1.03 ppb	97
63) o-xylene	17.99	91	161133	1.07 ppb	94
64) Cumene	18.62	105	212892	1.07 ppb	98
66) 1,1,2,2-tetrachloroethane	17.98	83	99765	1.11 ppb	94
67) Propylbenzene	19.19	120	58259	1.13 ppb	1
68) 2-Chlorotoluene	19.15	126	49922	1.05 ppb	1
69) 4-ethyltoluene	19.35	105	197629	1.09 ppb	99
70) 1,3,5-trimethylbenzene	19.43	105	182020	1.07 ppb	98
71) 1,2,4-trimethylbenzene	19.91	105	163768	1.04 ppb	93
72) 1,3-dichlorobenzene	20.10	146	11670m	1.11 ppb	
73) benzyl chloride	20.09	91	112094	1.23 ppb	92
74) 1,4-dichlorobenzene	20.18	146	111968m	1.15 ppb	
75) 1,2,3-trimethylbenzene	20.42	105	164501	1.06 ppb	96
76) 1,2-dichlorobenzene	20.60	146	112171	1.13 ppb	97
77) 1,2,4-trichlorobenzene	22.78	180	40135	1.16 ppb	95
78) Naphthalene	22.92	128	83010	1.06 ppb	93
79) Hexachloro-1,3-butadiene	23.34	225	95709	1.07 ppb	98

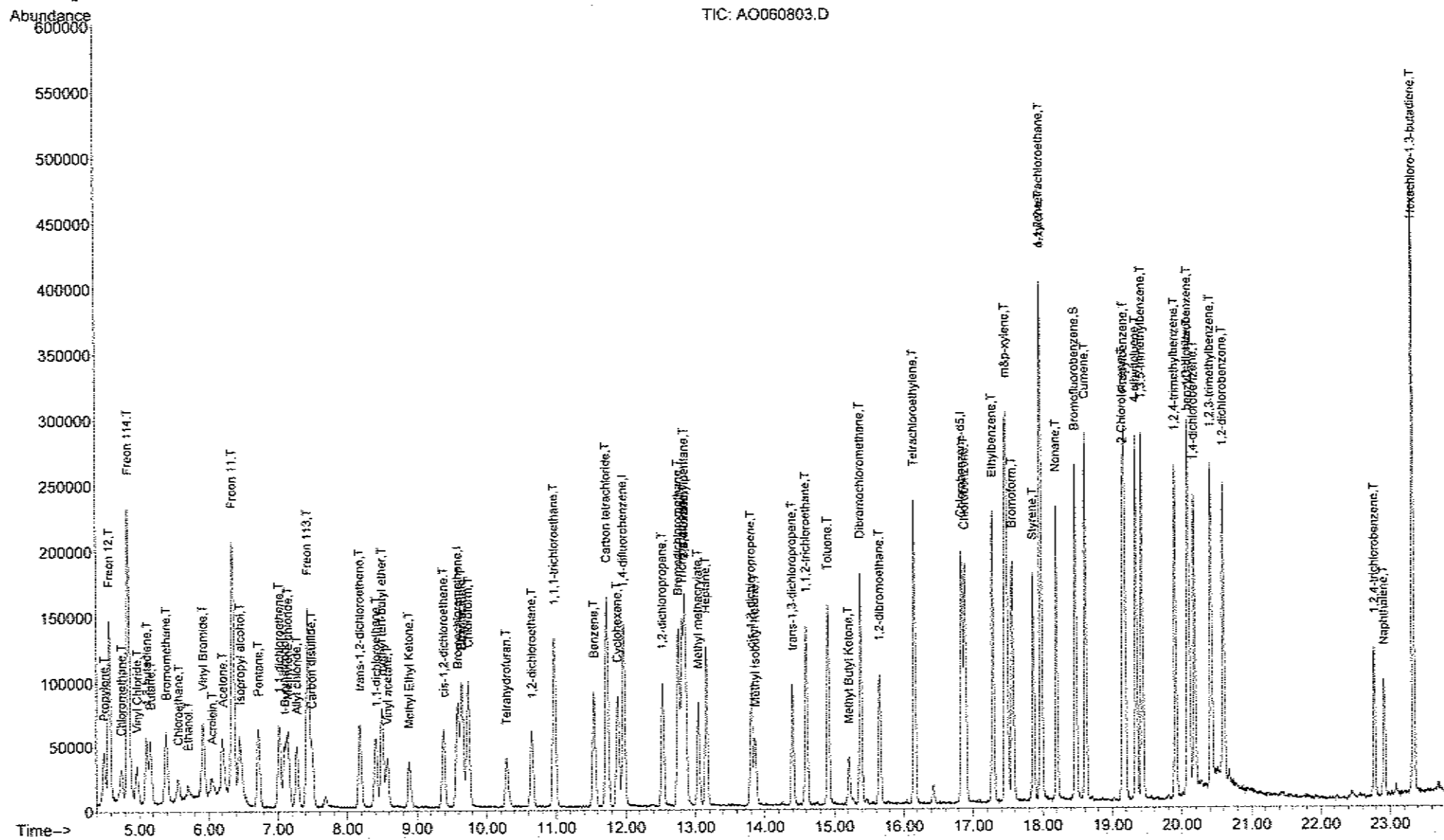
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 A0060803.D A605_1UG.M Thu Jun 29 10:10:40 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO060803.D
 Acq On : 8 Jun 2017 11:10 am
 Sample : ALCS1UG-060817
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 9 9:34 2017

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 10:00:17 2017
 Response via : Initial Calibration



Quantitation Report (QTR Reviewed)

Data File : C:\HPCHEM\1\DATA\A0061403.D
 Acq On : 14 Jun 2017 11:27 am
 Sample : ALCSIUG-061417
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 14 12:22:30 2017

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.56	128	34327	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.95	114	157370	1.00	ppb	0.00
50) Chlorobenzene-d5	16.83	117	133087	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	94520	1.03	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	= 103.00%	

Target Compounds

						Qvalue
2) Propylene	4.49	41	36977	1.29	ppb	84
3) Freon 12	4.56	85	234940	1.06	ppb	95
4) Chloromethane	4.72	50	44096m	1.09	ppb	
5) Freon 114	4.83	85	218401	1.09	ppb	98
6) Vinyl Chloride	4.95	62	52993	0.93	ppb	94
7) Butane	5.15	43	61127	1.00	ppb	90
8) 1,3-butadiene	5.09	39	37948m	0.95	ppb	
9) Bromomethane	5.38	94	55754m	0.71	ppb	85
10) Chloroethane	5.55	64	22278	0.87	ppb	86
11) Ethanol	5.66	45	16771	0.90	ppb	92
12) Acrolein	6.02	56	16947	0.87	ppb	97
13) Vinyl Bromide	5.91	106	70710	0.93	ppb	100
14) Freon 11	6.34	101	281042	1.05	ppb	87
15) Acetone	6.16	58	24101	1.12	ppb	35
16) Pentane	6.70	42	35786	1.21	ppb	100
17) Isopropyl alcohol	6.41	45	71687	1.01	ppb	90
18) 1,1-dichloroethene	7.00	96	35099	1.02	ppb	94
19) Freon 113	7.41	101	87202	1.05	ppb	91
20) t-Butyl alcohol	7.04	59	78785	1.03	ppb	83
21) Methylene chloride	7.13	84	36592	1.10	ppb	93
22) Allyl chloride	7.25	41	36631	1.02	ppb	83
23) Carbon disulfide	7.47	76	114103	1.11	ppb	91
24) trans-1,2-dichloroethene	8.16	61	57826	1.09	ppb	85
25) methyl tert-butyl ether	8.47	73	106081	1.00	ppb	93
26) 1,1-dichloroethane	8.39	63	73166	1.11	ppb	87
27) Vinyl acetate	8.55	43	78568m	1.01	ppb	96
28) Methyl Ethyl Ketone	8.85	72	17128	1.06	ppb	85
29) cis-1,2-dichloroethene	9.37	61	52445	1.06	ppb	85
30) Hexane	9.63	57	46100	1.11	ppb	96
31) Ethyl acetate	9.63	43	111588	1.20	ppb	98
32) Chloroform	9.71	83	107127	1.03	ppb	87
33) Tetrahydrofuran	10.25	42	33751	1.15	ppb	99
34) 1,2-dichloroethane	10.63	62	81457	1.02	ppb	97
36) 1,1,1-trichloroethane	10.96	97	117872	0.93	ppb	97
37) Cyclohexane	11.87	56	51676	1.14	ppb	99
38) Carbon tetrachloride	11.72	117	118005	0.84	ppb	91
39) Benzene	11.54	78	111211	1.05	ppb	96
40) Methyl methacrylate	13.03	41	51116	1.12	ppb	69
41) 1,4-dioxane	12.83	58	19362	1.03	ppb	88
42) 2,2,4-trimethylpentane	12.84	57	160381	1.13	ppb	95
43) Heptane	13.15	43	54292	1.14	ppb	91
44) Trichloroethene	12.81	130	54681	0.97	ppb	99
45) 1,2-dichloropropane	12.51	63	38411	1.11	ppb	99

(#) = qualifier out of range (m) = manual integration
 A0061403.D A605_1UG.M Thu Jun 29 10:10:58 2017

MSD1

Data File : C:\HPCHEM\1\DATA\AO061403.D
 Acq On : 14 Jun 2017 11:27 am
 Sample : ALCS1UG-061417
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 14 12:22:30 2017

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	Qion	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.75	83	108807	0.94 ppb	99
47) cis-1,3-dichloropropene	13.80	75	65257	1.04 ppb	99
48) trans-1,3-dichloropropene	14.39	75	60378	0.95 ppb	97
49) 1,1,2-trichloroethane	14.59	97	51238	1.05 ppb	95
51) Toluene	14.91	92	78639	1.03 ppb	89
52) Methyl Isobutyl Ketone	13.84	43	51743	0.83 ppb	93
53) Dibromochloromethane	15.37	129	98581	0.89 ppb	93
54) Methyl Butyl Ketone	15.20	43	37468m	0.76 ppb	96
55) 1,2-dibromoethane	15.64	107	80437	1.06 ppb	97
56) Tetrachloroethylene	16.15	164	56978	0.97 ppb	97
57) Chlorobenzene	16.88	112	111163	1.00 ppb	97
58) Ethylbenzene	17.28	91	181211	1.01 ppb	99
59) m&p-xylene	17.47	91	320661	2.03 ppb	98
60) Nonane	18.19	43	82422	1.21 ppb	95
61) Styrene	17.86	104	93105	0.97 ppb	97
62) Bromoform	17.56	173	76953	0.76 ppb	97
63) o-xylene	17.98	91	151715	0.99 ppb	95
64) Cumene	18.61	105	204882	1.01 ppb	99
66) 1,1,2,2-tetrachloroethane	17.97	83	104838	1.14 ppb	96
67) Propylbenzene	19.17	120	53061	1.00 ppb	1
68) 2-Chlorotoluene	19.15	126	47257	0.97 ppb	1
69) 4-ethyltoluene	19.34	105	196997	1.06 ppb	97
70) 1,3,5-trimethylbenzene	19.42	105	173320	1.00 ppb	99
71) 1,2,4-trimethylbenzene	19.91	105	159299	0.99 ppb	93
72) 1,3-dichlorobenzene	20.09	146	108002m	1.00 ppb	
73) benzyl chloride	20.07	91	89623	0.96 ppb	91
74) 1,4-dichlorobenzene	20.17	146	100593m	1.01 ppb	
75) 1,2,3-trimethylbenzene	20.42	105	155795	0.98 ppb	95
76) 1,2-dichlorobenzene	20.59	146	100478	0.99 ppb	100
77) 1,2,4-trichlorobenzene	22.77	180	36380	1.03 ppb	99
78) Naphthalene	22.91	128	70996	0.89 ppb	93
79) Hexachloro-1,3-butadiene	23.33	225	88503	0.97 ppb	98

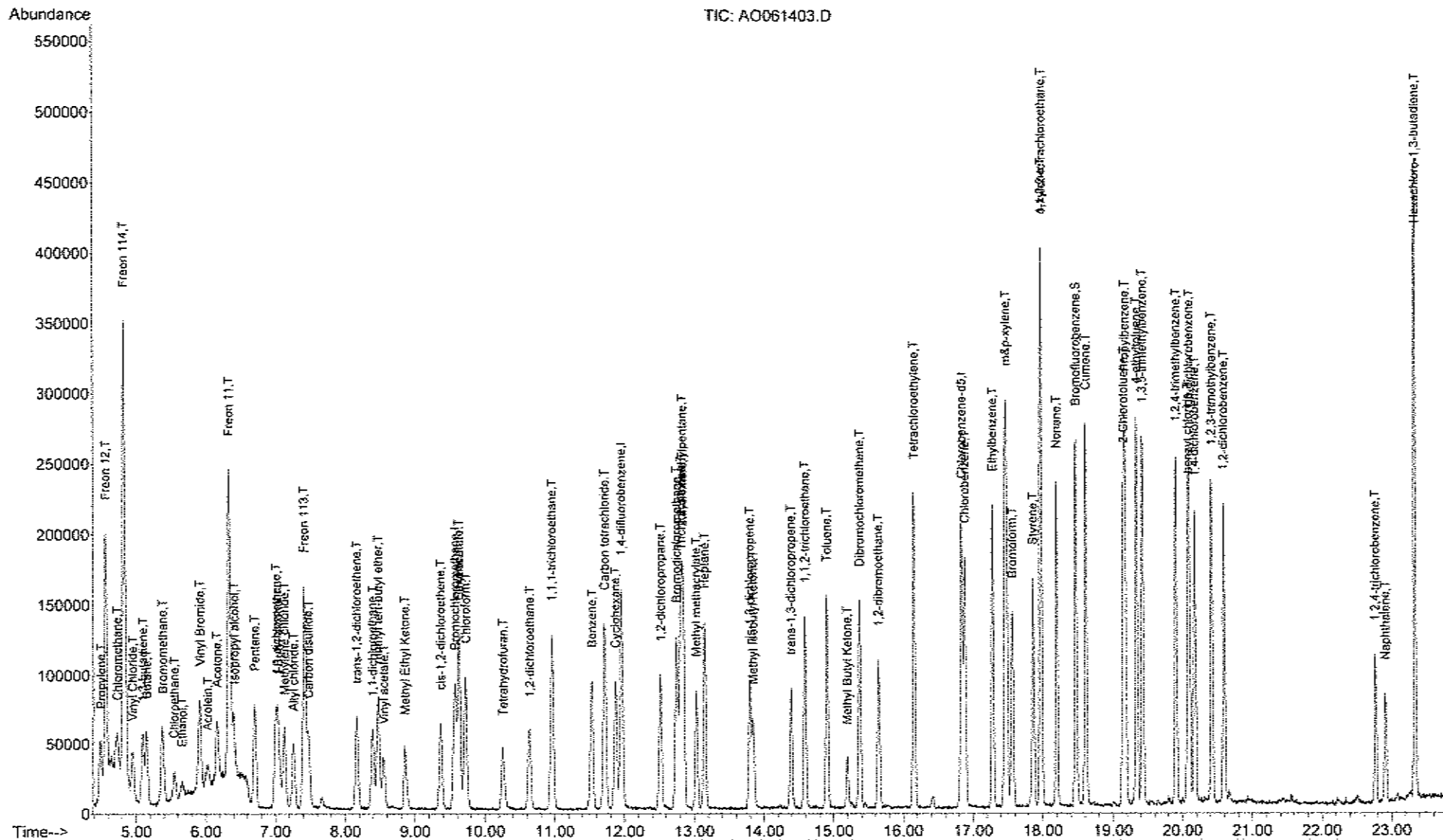
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AO061403.D A605_1UG.M Thu Jun 29 10:10:59 2017 MSD1

Data File : C:\HPCHEM\1\DATA\AO061403.D
Acq On : 14 Jun 2017 11:27 am
Sample : ALCS1UG-061417
Misc : A605_1UG
MS Integration Params: RTEINT.P
Quant Time: Jun 15 7:01 2017

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A605 1UG.RES

```
Method       : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
Title        : TO-15 VOA Standards for 5 point calibration
Last Update   : Thu Jun 29 10:00:17 2017
Response via  : Initial Calibration
```





CEN TEK LABORATORIES, LLC

Date: 29-Jun-17

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-060817	SampType:	LCSD	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	ZZZZZ	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143982
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.030	0.15	1	0	103	70	130	1.09	5.66	30	
1,1,2,2-Tetrachloroethane	1.080	0.15	1	0	108	70	130	1.11	2.74	30	
1,1,2-Trichloroethane	1.020	0.15	1	0	102	70	130	1.1	7.55	30	
1,1-Dichloroethane	1.130	0.15	1	0	113	70	130	1.07	5.45	30	
1,1-Dichloroethene	1.130	0.15	1	0	113	70	130	1.06	6.39	30	
1,2,4-Trichlorobenzene	1.110	0.15	1	0	111	70	130	1.16	4.41	30	
1,2,4-Trimethylbenzene	1.050	0.15	1	0	105	70	130	1.04	0.957	30	
1,2-Dibromoethane	1.070	0.15	1	0	107	70	130	1.05	1.89	30	
1,2-Dichlorobenzene	1.070	0.15	1	0	107	70	130	1.13	5.45	30	
1,2-Dichloroethane	1.080	0.15	1	0	108	70	130	1.06	1.87	30	
1,2-Dichloropropane	1.070	0.15	1	0	107	70	130	1.12	4.57	30	
1,3,5-Trimethylbenzene	1.050	0.15	1	0	105	70	130	1.07	1.89	30	
1,3-butadiene	0.9900	0.15	1	0	99.0	70	130	0.9	9.52	30	
1,3-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.11	4.61	30	
1,4-Dichlorobenzene	1.080	0.15	1	0	108	70	130	1.15	6.28	30	
1,4-Dioxane	0.9800	0.30	1	0	98.0	70	130	0.96	2.06	30	
2,2,4-trimethylpentane	1.100	0.15	1	0	110	70	130	1.1	0	30	
4-ethyltoluene	1.110	0.15	1	0	111	70	130	1.09	1.82	30	
Acetone	1.110	0.30	1	0	111	70	130	1	10.4	30	
Allyl chloride	1.190	0.15	1	0	119	70	130	1.04	13.5	30	
Benzene	1.080	0.15	1	0	108	70	130	1.06	1.87	30	
Benzyl chloride	1.040	0.15	1	0	104	70	130	1.23	16.7	30	
Bromodichloromethane	0.9960	0.15	1	0	99.0	70	130	1.07	7.77	30	
Bromoform	0.9800	0.15	1	0	98.0	70	130	1.03	4.98	30	
Bromomethane	1.100	0.15	1	0	110	70	130	0.72	41.8	30	R

Qualifiers: . Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID: ALCS1UGD-060817	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341						
Client ID: ZZZZZ	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143982						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.140	0.15	1	0	114	70	130	1.04	9.17	30	
Carbon tetrachloride	0.9800	0.040	1	0	98.0	70	130	1.1	11.5	30	
Chlorobenzene	1.060	0.15	1	0	106	70	130	1.06	0	30	
Chloroethane	1.110	0.15	1	0	111	70	130	0.85	26.5	30	
Chloroform	1.080	0.15	1	0	108	70	130	1.08	0	30	
Chloromethane	1.130	0.15	1	0	113	70	130	1.04	8.29	30	
cis-1,2-Dichloroethene	1.130	0.15	1	0	113	70	130	1.07	5.45	30	
cis-1,3-Dichloropropene	1.090	0.15	1	0	109	70	130	1.12	2.71	30	
Cyclohexane	1.140	0.15	1	0	114	70	130	1.14	0	30	
Dibromochloromethane	1.010	0.15	1	0	101	70	130	1.06	4.83	30	
Ethyl acetate	1.130	0.15	1	0	113	70	130	1.07	5.45	30	
Ethylbenzene	1.100	0.15	1	0	110	70	130	1.07	2.76	30	
Freon 11	1.040	0.15	1	0	104	70	130	0.99	4.93	30	
Freon 113	1.120	0.15	1	0	112	70	130	1.06	5.50	30	
Freon 114	1.110	0.15	1	0	111	70	130	0.85	26.5	30	
Freon 12	1.120	0.15	1	0	112	70	130	0.96	15.4	30	
Heptane	1.100	0.15	1	0	110	70	130	1.16	5.31	30	
Hexachloro-1,3-butadiene	1.020	0.15	1	0	102	70	130	1.07	4.78	30	
Hexane	1.160	0.15	1	0	116	70	130	1.08	7.14	30	
Isopropyl alcohol	1.030	0.15	1	0	103	70	130	0.98	4.98	30	
m&p-Xylene	2.160	0.30	2	0	108	70	130	2.19	1.38	30	
Methyl Butyl Ketone	0.7400	0.30	1	0	74.0	70	130	0.75	1.34	30	
Methyl Ethyl Ketone	1.090	0.30	1	0	109	70	130	0.93	15.8	30	
Methyl Isobutyl Ketone	0.8600	0.30	1	0	86.0	70	130	0.72	17.7	30	
Methyl tert-butyl ether	1.130	0.15	1	0	113	70	130	1.08	4.52	30	
Methylene chloride	1.110	0.15	1	0	111	70	130	1.06	4.61	30	
o-Xylene	1.070	0.15	1	0	107	70	130	1.07	0	30	
Propylene	1.240	0.15	1	0	124	70	130	1.12	10.2	30	
Styrene	1.090	0.15	1	0	109	70	130	1.09	0	30	
Tetrachloroethylene	1.060	0.15	1	0	106	70	130	1.05	0.948	30	
Tetrahydrofuran	1.120	0.15	1	0	112	70	130	0.97	14.4	30	

Qualifiers: . Results reported are not blank corrected
J Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-060817	SampType:	LCSD	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	12341
Client ID:	ZZZZZ	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	6/8/2017	SeqNo:	143982
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.070	0.15	1	0	107	70	130	1.03	3.81	30	
trans-1,2-Dichloroethene	1.130	0.15	1	0	113	70	130	1.05	7.34	30	
trans-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Trichloroethene	1.050	0.040	1	0	105	70	130	1.02	2.90	30	
Vinyl acetate	1.120	0.15	1	0	112	70	130	1.05	6.45	30	
Vinyl Bromide	1.130	0.15	1	0	113	70	130	0.79	35.4	30	R
Vinyl chloride	1.100	0.040	1	0	110	70	130	0.84	26.8	30	

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\A0060818.D
 Acq On : 8 Jun 2017 10:01 pm
 Sample : ALCS1UGD-060817
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 09 07:24:33 2017

Vial: 18
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.57	128	34698	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.97	114	165595	1.00	ppb	0.01
50) Chlorobenzene-d5	16.84	117	140036	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.48	95	99853	1.03	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	= 103.00%	

Target Compounds

2) Propylene	4.50	41	35889	1.24	ppb	76
3) Freon 12	4.58	85	250729	1.12	ppb	97
4) Chloromethane	4.74	50	46342m	1.13	ppb	
5) Freon 114	4.83	85	224640	1.11	ppb	98
6) Vinyl Chloride	4.97	62	63745	1.10	ppb	88
7) Butane	5.16	43	68992	1.11	ppb	97
8) 1,3-butadiene	5.10	39	39872m	0.99	ppb	
9) Bromomethane	5.38	94	86667	1.10	ppb	90
10) Chloroethane	5.55	64	28813	1.11	ppb	73
11) Ethanol	5.67	45	21505	1.14	ppb	83
12) Acrolein	6.02	56	19877	1.01	ppb	98
13) Vinyl Bromide	5.91	106	86843	1.13	ppb	94
14) Freon 11	6.34	101	282054	1.04	ppb	100
15) Acetone	6.16	58	24412	1.11	ppb	86
16) Pentane	6.71	42	36060	1.20	ppb	35
17) Isopropyl alcohol	6.41	45	74568	1.03	ppb	100
18) 1,1-dichloroethene	7.02	96	39374	1.13	ppb	93
19) Freon 113	7.42	101	94672	1.12	ppb	95
20) t-Butyl alcohol	7.06	59	86618	1.12	ppb	85
21) Methylene chloride	7.14	84	37378	1.11	ppb	94
22) Allyl chloride	7.27	41	43495	1.19	ppb	93
23) Carbon disulfide	7.48	76	117902	1.14	ppb	83
24) trans-1,2-dichloroethene	8.17	61	60555	1.13	ppb	96
25) methyl tert-butyl ether	8.47	73	120999	1.13	ppb	93
26) 1,1-dichloroethane	8.41	63	75580	1.13	ppb	93
27) Vinyl acetate	8.56	43	87740m	1.12	ppb	
28) Methyl Ethyl Ketone	8.88	72	17766	1.09	ppb	95
29) cis-1,2-dichloroethene	9.38	61	56879	1.13	ppb	97
30) Hexane	9.64	57	48801	1.16	ppb	86
31) Ethyl acetate	9.65	43	106437	1.13	ppb	98
32) Chloroform	9.73	83	113299	1.08	ppb	97
33) Tetrahydrofuran	10.26	42	33370	1.12	ppb	79
34) 1,2-dichloroethane	10.65	62	87999	1.08	ppb	98
36) 1,1,1-trichloroethane	10.97	97	136322	1.03	ppb	96
37) Cyclohexane	11.89	56	54562	1.14	ppb	97
38) Carbon tetrachloride	11.72	117	144593	0.98	ppb	99
39) Benzene	11.54	78	120084	1.08	ppb	92
40) Methyl methacrylate	13.04	41	50406m	1.05	ppb	
41) 1,4-dioxane	12.85	58	19399	0.98	ppb	55
42) 2,2,4-trimethylpentane	12.85	57	163535	1.10	ppb	90
43) Heptane	13.16	43	55311	1.10	ppb	92
44) Trichloroethene	12.81	130	62240	1.05	ppb	94
45) 1,2-dichloropropane	12.53	63	39150	1.07	ppb	97

(#) = qualifier out of range (m) = manual integration
 A0060818.D A605_1UG.M Thu Jun 29 10:10:54 2017

MSDL

Data File : C:\HPCHEM\1\DATA\A0060818.D
 Acq On : 8 Jun 2017 10:01 pm
 Sample : ALCS1UGD-060817
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 09 07:24:33 2017

Vial: 18
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A605_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Jun 05 19:44:28 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

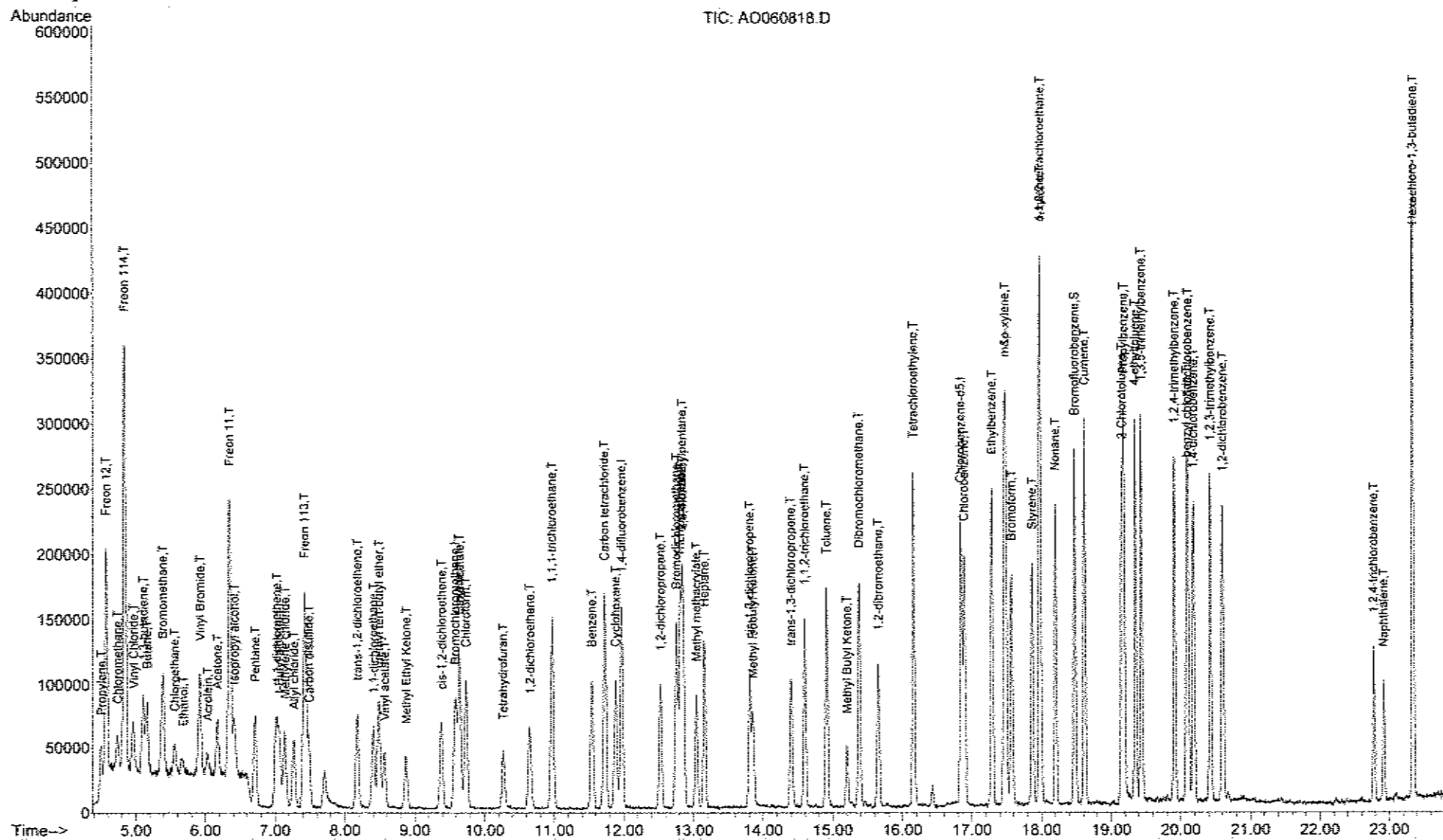
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
46) Bromodichloromethane	12.76	83	121201	0.99 ppb	95
47) cis-1,3-dichloropropene	13.81	75	72472	1.09 ppb	97
48) trans-1,3-dichloropropene	14.41	75	72262	1.08 ppb	94
49) 1,1,2-trichloroethane	14.60	97	52617	1.02 ppb	98
51) Toluene	14.91	92	85474	1.07 ppb	85
52) Methyl Isobutyl Ketone	13.85	43	56115	0.86 ppb	95
53) Dibromochloromethane	15.38	129	117786	1.01 ppb	94
54) Methyl Butyl Ketone	15.20	43	38276	0.74 ppb	94
55) 1,2-dibromoethane	15.65	107	85805	1.07 ppb	95
56) Tetrachloroethylene	16.16	164	65924	1.06 ppb	98
57) Chlorobenzene	16.89	112	123789	1.06 ppb	94
58) Ethylbenzene	17.29	91	206259	1.10 ppb	98
59) mcp-xylene	17.48	91	358605	2.16 ppb	100
60) Nonane	18.21	43	80891	1.13 ppb	98
61) Styrene	17.87	104	110125	1.09 ppb	96
62) Bromoform	17.57	173	104422	0.98 ppb	100
63) o-xylene	17.98	91	172345	1.07 ppb	92
64) Cumene	18.62	105	223254	1.04 ppb	98
66) 1,1,2,2-tetrachloroethane	17.98	83	104679	1.08 ppb	96
67) Propylbenzene	19.18	120	59278	1.07 ppb	1
68) 2-Chlorotoluene	19.16	126	53353	1.04 ppb	1
69) 4-ethyltoluene	19.35	105	217213	1.11 ppb	99
70) 1,3,5-trimethylbenzene	19.43	105	191675	1.05 ppb	99
71) 1,2,4-trimethylbenzene	19.91	105	177730	1.05 ppb	96
72) 1,3-dichlorobenzene	20.10	146	120611m	1.06 ppb	
73) benzyl chloride	20.08	91	101897	1.04 ppb	90
74) 1,4-dichlorobenzene	20.18	146	112946m	1.08 ppb	
75) 1,2,3-trimethylbenzene	20.43	105	177819	1.06 ppb	97
76) 1,2-dichlorobenzene	20.60	146	113465	1.07 ppb	97
77) 1,2,4-trichlorobenzene	22.77	180	41085	1.11 ppb	95
78) Naphthalene	22.92	128	83305	0.99 ppb	94
79) Hexachloro-1,3-butadiene	23.34	225	97775	1.02 ppb	98

Data File : C:\HPCHEM\1\DATA\AO060818.D
 Acq On : 8 Jun 2017 10:01 pm
 Sample : ALCSIUGD-060817
 Misc : A605_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Jun 9 9:43 2017

Vial: 18
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A605_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Jun 29 10:00:17 2017
 Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Injection Log

Instrument #
 Internal Standard Stock # A20033 / A2045
 Standard Stock # 2037 / 2046
 LCS Stock # 2030 / 2047
 Misc/Info Ref: EPA TO-15 / Uninjected

ne	Vial	FileName	Multiplier	SampleName			
3	21	Ac060518.d	1.	C1706005-016A	A605_1UG	5 Jun 2017 22:33	
7	22	Ac060519.d	1.	C1706005-010A	A605_1UG	5 Jun 2017 23:14	
3	23	Ac060520.d	1.	C1706005-011A	A605_1UG	5 Jun 2017 23:55	
3	24	Ac060521.d	1.	C1706005-012A	A605_1UG	6 Jun 2017 00:36	
3	25	Ac060522.d	1.	C1706005-013A	A605_1UG	6 Jun 2017 01:16	
1	26	Ac060523.d	1.	C1706005-014A	A605_1UG	6 Jun 2017 01:57	
2	27	Ac060524.d	1.	C1706005-015A	A605_1UG	6 Jun 2017 02:39	
3	28	Ac060525.d	1.	C1706005-017A	A605_1UG	6 Jun 2017 03:19	
4	29	Ac060526.d	1.	C1706005-018A	A605_1UG	6 Jun 2017 03:58	
5	21	Ac060527.d	1.	C1706005-016A 10X	A605_1UG	6 Jun 2017 04:35	
3	22	Ac060528.d	1.	C1706005-010A 10X	A605_1UG	6 Jun 2017 05:12	
7	23	Ac060529.d	1.	C1706005-011A 10X	A605_1UG	6 Jun 2017 05:49	
3	24	Ac060530.d	1.	C1706005-012A 10X	A605_1UG	6 Jun 2017 06:26	
3	25	Ac060531.d	1.	C1706005-013A 10X	A605_1UG	6 Jun 2017 07:03	
3	26	Ac060532.d	1.	C1706005-014A 10X	A605_1UG	6 Jun 2017 07:39	
1	27	Ac060533.d	1.	C1706005-015A 10X	A605_1UG	6 Jun 2017 08:16	
2		Ac060534.d	1.	No MS or GC data present			
3	1	Ac060601.d	1.	BFB1UG	A605_1UG	6 Jun 2017 09:06	
4	2	Ac060602.d	1.	A1UG_1.0	A605_1UG	6 Jun 2017 09:58	
5	3	Ac060603.d	1.	ALCS1UG-060617	A605_1UG	6 Jun 2017 10:42	
3	4	Ac060604.d	1.	AMB1UG-060617	A605_1UG	6 Jun 2017 11:19	
7	5	Ac060605.d	1.	C1706005-017A 10X	A605_1UG	6 Jun 2017 11:56	
3	6	Ac060606.d	1.	C1706005-018A 10X	A605_1UG	6 Jun 2017 12:32	
3	7	Ac060607.d	1.	C1706005-010A 90X	A605_1UG	6 Jun 2017 13:10	
3	8	Ac060608.d	1.	C1706005-011A 270X	A605_1UG	6 Jun 2017 13:47	
3	9	Ac060609.d	1.	C1706005-012A 270X	A605_1UG	6 Jun 2017 14:24	
3	10	Ac060610.d	1.	C1706005-013A 270X	A605_1UG	6 Jun 2017 15:36	
3	11	Ac060611.d	1.	C1706005-014A 270X	A605_1UG	6 Jun 2017 16:14	
4	12	Ac060612.d	1.	C1706005-015A 81X	A605_1UG	6 Jun 2017 16:53	
5	13	Ac060613.d	1.	C1706005-015A 810X	A605_1UG	6 Jun 2017 17:32	
3	14	Ac060614.d	1.	C1706005-017A 270X	A605_1UG	6 Jun 2017 18:10	
7	15	Ac060615.d	1.	C1706005-018A 270X	A605_1UG	6 Jun 2017 18:49	
3		Ac060616.d	1.	No MS or GC data present			
3	1	Ac060801.d	1.	BFB1UG	A605_1UG	8 Jun 2017 09:36	
3	2	Ac060802.d	1.	A1UG_1.0	A605_1UG	8 Jun 2017 10:30	
1	3	Ac060803.d	1.	ALCS1UG-060817	A605_1UG	8 Jun 2017 11:10	
2	4	Ac060804.d	1.	AMB1UG-060817	A605_1UG	8 Jun 2017 11:47	
3	5	Ac060805.d	1.	C1706006-002A	A605_1UG	8 Jun 2017 12:37	
4	6	Ac060806.d	1.	C1706006-003A	A605_1UG	8 Jun 2017 13:17	
5	7	Ac060807.d	1.	C1706006-001A	A605_1UG	8 Jun 2017 13:57	
3	8	Ac060808.d	1.	C1706015-001A	A605_1UG	8 Jun 2017 14:44	
7	9	Ac060809.d	1.	C1706015-002A	A605_1UG	8 Jun 2017 15:25	
3	10	Ac060810.d	1.	C1706015-003A	A605_1UG	8 Jun 2017 16:05	
3	11	Ac060811.d	1.	C1706015-003A MS	A605_1UG	8 Jun 2017 16:51	
3	12	Ac060812.d	1.	C1706015-003A MSD	A605_1UG	8 Jun 2017 17:38	
1	13	Ac060813.d	1.	C1706015	A605_1UG-004A	8 Jun 2017 18:23	
2	14	Ac060814.d	1.	C1706015	A605_1UG-005A	8 Jun 2017 19:07	
3	15	Ac060815.d	1.	C1706015	A605_1UG-006A	8 Jun 2017 19:53	
4	16	Ac060816.d	1.	C1706015	A605_1UG-007A	8 Jun 2017 20:37	
5	17	Ac060817.d	1.	C1706015	A605_1UG-008A	8 Jun 2017 21:21	
6	18	Ac060818.d	1.	ALCS1UGD-060817	A605_1UG	8 Jun 2017 22:01	
7	19	Ac060819.d	1.	C1706006-002A 10X	A605_1UG	8 Jun 2017 22:39	
8	20	Ac060820.d	1.	C1706006-003A 10X	A605_1UG	8 Jun 2017 23:17	
9	21	Ac060821.d	1.	C1706006-001A 10X	A605_1UG	8 Jun 2017 23:55	
10	22	Ac060822.d	1.	C1706006-001A 20X	A605_1UG	9 Jun 2017 00:34	

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Injection Log

Instrument # 1
 Internal Standard Stock # A2046
 Standard Stock # 2046
 LCS Stock # 2043
 Misc Info: Ref: EPA TO-15 / Injected

Line	Vial	FileName	Multiplier	SampleName	
11	23	Ac060823.d	1.	C1706015-001A 10X	AG05_1UG
12	24	Ac060824.d	1.	C1706015-002A 10X	AG05_1UG
13	25	Ac060825.d	1.	C1706015-003A 10X	AG05_1UG
14	26	Ac060826.d	1.	C1706015-004A 10X	AG05_1UG
15	27	Ac060827.d	1.	C1706015-005A 10X	AG05_1UG
16	28	Ac060828.d	1.	C1706015-006A 10X	AG05_1UG
17	29	Ac060829.d	1.	C1706015-007A 10X	AG05_1UG
18	30	Ac060830.d	1.	C1706015-008A 10X	AG05_1UG
19	31	Ac060831.d	1.	C1706015-001A 90X	AG05_1UG
20	32	Ac060832.d	1.	C1706015-005A 20X	AG05_1UG
21	33	Ac060833.d	1.	No MS or GC data present	AG05_1UG
22		Ac060834.d	1.	BFB1UG	AG05_1UG
23	1	Ac061001.d	1.	A1UG_1.0	AG05_1UG
24	2	Ac061002.d	1.	ALCS1UG-061017	AG05_1UG
25	3	Ac061003.d	1.	AMB1UG-061017	AG05_1UG
26	4	Ac061004.d	1.	WAC061017A	AG05_1UG
27	21	Ac061005.d	1.	WAC061017B	AG05_1UG
28	22	Ac061006.d	1.	WAC061017C	AG05_1UG
29	23	Ac061007.d	1.	WAC061017D	AG05_1UG
30	24	Ac061008.d	1.	WAC061017E	AG05_1UG
31	25	Ac061009.d	1.	WAC061017F	AG05_1UG
32	26	Ac061010.d	1.	C1706018-001A	AG05_1UG
33	27	Ac061011.d	1.	C1706018-002A	AG05_1UG
34	28	Ac061012.d	1.	C1706018-003A	AG05_1UG
35	29	Ac061013.d	1.	C1706018-004A	AG05_1UG
36	30	Ac061014.d	1.	C1706018-001A 20x	AG05_1UG
37	31	Ac061015.d	1.	C1706018-002A 10x	AG05_1UG
38	32	Ac061016.d	1.	C1706018-002A 20x	AG05_1UG
39	33	Ac061017.d	1.	C1706018-003A 10x	AG05_1UG
40	34	Ac061018.d	1.	C1706018-003A 20x	AG05_1UG
41	35	Ac061019.d	1.	C1706018-004A 10x	AG05_1UG
42	36	Ac061020.d	1.	C1706018-004A 20x	AG05_1UG
43	37	Ac061021.d	1.	C1706018-004A 20x	AG05_1UG
44	38	Ac061022.d	1.	ALCS1UGD-061017	AG05_1UG
45	37	Ac061023.d	1.	C1706018-004A 270x	AG05_1UG
46		Ac061024.d	1.	No MS or GC data present	AG05_1UG
47	1	Ac061301.d	1.	BFB1UG	AG05_1UG
48	2	Ac061302.d	1.	A1UG	AG05_1UG
49	3	Ac061303.d	1.	A1UG_1.0	AG05_1UG
50	4	Ac061304.d	1.	ALCS1UG-061317	AG05_1UG
51	5	Ac061305.d	1.	AMB1UG-061317	AG05_1UG
52	21	Ac061306.d	1.	C1706022	AG05_1UG
53	21	Ac061307.d	1.	C1706020-001A	AG05_1UG
54	22	Ac061308.d	1.	C1706019-001A 4X	AG05_1UG
55	23	Ac061309.d	1.	C1706019-002A 4X	AG05_1UG
56	24	Ac061310.d	1.	C1706019-003A 4X	AG05_1UG
57	25	Ac061311.d	1.	C1706022-015A	AG05_1UG
58	26	Ac061312.d	1.	C1706022-016A	AG05_1UG
59	27	Ac061313.d	1.	C1706022-001A	AG05_1UG
60	28	Ac061314.d	1.	C1706022-002A	AG05_1UG
61	29	Ac061315.d	1.	C1706022-003A	AG05_1UG
62	30	Ac061316.d	1.	C1706022-004A	AG05_1UG
63	31	Ac061317.d	1.	C1706022-005A	AG05_1UG
64	32	Ac061318.d	1.	C1706022-006A	AG05_1UG
65	33	Ac061319.d	1.	C1706022-007A	AG05_1UG

Directory: C:\HPC\Chem1\DATA2

Injection Log

1

Internal Standard Stock # A2075Standard Stock # 2076LCS Stock # 2073

Misc Info EPA TO-15 / Jan. 14/2017

Line	Vial	FileName	Multiplier	SampleName			
166	34	Ac061320.d	1.	C1706022-008A	A605_1UG	13 Jun 2017 23:41	
167	35	Ac061321.d	1.	C1706022-009A	A605_1UG	14 Jun 2017 00:20	
168	36	Ac061322.d	1.	C1706022-010A	A605_1UG	14 Jun 2017 01:01	
169	37	Ac061323.d	1.	ALCS1UG-061317	A605_1UG	14 Jun 2017 01:40	
170	38	Ac061324.d	1.	C1706022-011A	A605_1UG	14 Jun 2017 02:20	
171	39	Ac061325.d	1.	C1706022-012A	A605_1UG	14 Jun 2017 03:00	
172	40	Ac061326.d	1.	C1706022-013A	A605_1UG	14 Jun 2017 03:39	
173	41	Ac061327.d	1.	C1706022-014A	A605_1UG	14 Jun 2017 04:20	
174	42	Ac061328.d	1.	C1706022-014A MS	A605_1UG	14 Jun 2017 05:06	
175	43	Ac061329.d	1.	C1706022-014A MSD	A605_1UG	14 Jun 2017 05:52	
176	44	Ac061330.d	1.	C1706022-017A	A605_1UG	14 Jun 2017 07:42	
177	45	Ac061331.d	1.	C1706020-001A 10X	A605_1UG	14 Jun 2017 08:19	
178	46	Ac061332.d	1.	C1706020-001A 40X	A605_1UG	14 Jun 2017 08:56	
179		Ac061333.d	1.	No MS or GC data present			
180	1	Ac061401.d	1.	BFB1UG	A605_1UG	14 Jun 2017 09:55	
181	2	Ac061402.d	1.	A1UG_1.0	A605_1UG	14 Jun 2017 10:38	
182	3	Ac061403.d	1.	ALCS1UG-061417	A605_1UG	14 Jun 2017 11:27	
183	4	Ac061404.d	1.	AMB1UG-061417	A605_1UG	14 Jun 2017 12:04	
184	5	Ac061405.d	1.	C1706022-012A 10X	A605_1UG	14 Jun 2017 12:40	
185	6	Ac061406.d	1.	C1706022-014A 10X	A605_1UG	14 Jun 2017 13:18	
186	7	Ac061407.d	1.	C1706022-015A 10X	A605_1UG	14 Jun 2017 14:15	
187	8	Ac061408.d	1.	C1706022-016A 10X	A605_1UG	14 Jun 2017 14:52	
188	9	Ac061409.d	1.	C1706022-001A 10X	A605_1UG	14 Jun 2017 15:29	
189	10	Ac061410.d	1.	C1706022-002A 20X	A605_1UG	14 Jun 2017 16:07	
190	11	Ac061411.d	1.	C1706022-003A 9X	A605_1UG	14 Jun 2017 16:47	
191	12	Ac061412.d	1.	C1706022-003A 90X	A605_1UG	14 Jun 2017 17:24	
192	32	Ac061413.d	1.	C1706015-004A	A605_1UG	15 Jun 2017 05:53	
193	33	Ac061414.d	1.	C1706015-005A	A605_1UG	15 Jun 2017 06:36	
194	34	Ac061415.d	1.	C1706015-006A	A605_1UG	15 Jun 2017 07:18	
195	35	Ac061416.d	1.	C1706015-007A	A605_1UG	15 Jun 2017 08:01	
196	36	Ac061417.d	1.	C1706015-008A	A605_1UG	15 Jun 2017 08:43	
197		Ac061418.d	1.	No MS or GC data present			
198	1	Ac061501.d	1.	BFB1UG	A605_1UG	15 Jun 2017 10:40	
199	2	Ac061502.d	1.	A1UG	A605_1UG	15 Jun 2017 11:26	
200	3	Ac061503.d	1.	A1UG	A605_1UG	15 Jun 2017 12:06	
201	4	Ac061504.d	1.	A1UG_1.0	A605_1UG	15 Jun 2017 12:45	
202	5	Ac061505.d	1.	ALCS1UG-061517	A605_1UG	15 Jun 2017 13:31	
203	6	Ac061506.d	1.	AMB1UG-061517	A605_1UG	15 Jun 2017 14:07	
204	1	Ac061507.d	1.	C1706022-004A 20X	A605_1UG	15 Jun 2017 15:44	
205	2	Ac061508.d	1.	C1706022-005A 10X	A605_1UG	15 Jun 2017 16:20	
206	3	Ac061509.d	1.	C1706022-006A 9X	A605_1UG	15 Jun 2017 17:00	
207	4	Ac061510.d	1.	C1706022-006A 90X	A605_1UG	15 Jun 2017 17:37	
208	5	Ac061511.d	1.	C1706022-007A 20X	A605_1UG	15 Jun 2017 18:13	
209	6	Ac061512.d	1.	C1706022-008A 10X	A605_1UG	15 Jun 2017 18:50	
20	7	Ac061513.d	1.	C1706022-009A 9X	A605_1UG	15 Jun 2017 19:30	
1	8	Ac061514.d	1.	C1706022-009A 90X	A605_1UG	15 Jun 2017 20:07	
2	9	Ac061515.d	1.	C1706022-010A 10X	A605_1UG	15 Jun 2017 20:43	
3	10	Ac061516.d	1.	C1706022-011A 10X	A605_1UG	15 Jun 2017 21:20	
4	11	Ac061517.d	1.	C1706022-012A 81X	A605_1UG	15 Jun 2017 22:00	
5	12	Ac061518.d	1.	C1706022	A605_1UG	15 Jun 2017 22:37	
6	13	Ac061519.d	1.	C1706022-013A 9X	A605_1UG	15 Jun 2017 23:16	
7	14	Ac061520.d	1.	C1706022-013A 90X	A605_1UG	15 Jun 2017 23:53	
8	15	Ac061521.d	1.	C1706033-001A	A605_1UG	16 Jun 2017 00:33	
9	16	Ac061522.d	1.	C1706033-001A 10X	A605_1UG	16 Jun 2017 01:10	
0	17	Ac061523.d	1.	ALCS1UGD-061517	A605_1UG	16 Jun 2017 01:50	

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-1788	12/22/16	12/29/16	TO15 STLX	A1088 A1089	500ppb	3.0	30	50	ZZ	
A-1789			SULF	A0270	1ppm	1.5	30	50		
A-1790			H2S	A0269	10ppm	1.5	30	500		
A-1791			TO15 IUG IS	A1782	50ppb	0.9	45	1		
A-1792			STD	A1783						
A-1793			LCS	A1784						
A-1794	12/29/16	11/5/17	TO15 IS	A1289	1ppm	1.5	30	50	WD	
A-1795			STD	A1203						
A-1796			LCS	A1204						
A-1797			4PCH	9519						
A-1798			4PCHS	A1797	50ppb	3.0	30	5		
A-1799			FORM	A0974	11.5ppm	0.20	45	50		
A-1800			SILOX	A1088 A1089	500ppb	3.0	30	50		
A-1801			SULF	A0270	1ppm	1.5	30	50		
A-1802			H2S	A0269	10ppm	1.5	30	500		
A-1803			TO15 1ug IS	A1794	50ppb	0.9	45	1		
A-1804			STD	A1795						
A-1805			LCS	A1796						
A-1806	11/5/17	11/5/18	TO15 IS	FF-47206	LINDE		2000psig	1ppm	WD	
A-1807	11/5/17	11/5/18	STOCK TO15 STD	FF-45347	LINDE		2200psig	1ppm	WD	
A-1808	11/6/17	11/6/18	TO15 SS LCS	A1206 A1203	1ppm	1.5	30	50ppb	M	

FORM 153

12/19/17

12/30/17

M

A1203

A1203 STD IS NOW LCS

Page # 7

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-2018	5/25/17	6/1/17	TO15 SILOX	A18035 A18089	500 ppb	3.0	30	50	WD	
A-2019	↓	↓	↓ SULF	A0270	1 ppm	1.5	30	50	↓	
A-2020	↓	↓	↓ H2S	A0269	10 ppm	↓	↓	500	↓	
A-2021	↓	↓	TO15 146 IS	A2012	50 ppb	0.9	45	1	↓	
A-2022	↓	↓	↓ STD	A2013	↓	↓	↓	↓	↓	
A-2023	↓	↓	↓ LCS	A2014	↓	↓	↓	↓	↓	
A-2024	6/1/17	6/8/17	TO15 IS	A1806	1 ppm	1.5	30	50	WD	
A-2025	↓	↓	↓ STD	A1807	↓	↓	↓	↓	↓	
A-2026	↓	↓	↓ LCS	A1808	↓	↓	↓	↓	↓	
A-2027	↓	↓	↓ 4PC14	9519	↓	↓	↓	↓	↓	
A-2028	↓	↓	↓ 4PC15	A2027	50 ppb	3.0	30	5	↓	
A-2029	↓	↓	↓ FORM	A0974	11.5 ppm	0.20	45	50	↓	
A-2030	↓	↓	↓ SILOX	A18035 A18089	500 ppb	3.0	30	50	↓	
A-2031	↓	↓	↓ SULF	A0270	1 ppm	1.5	30	50	↓	
A-2032	↓	↓	↓ H2S	A0269	10 ppm	1.5	30	500	↓	
A-2033	↓	↓	TO15 146 IS	A2024	50 ppb	0.9	45	1	↓	
A-2034	↓	↓	↓ STD	A2025	↓	↓	↓	↓	↓	
A-2035	↓	↓	↓ LCS	A2026	↓	↓	↓	↓	↓	
A-2036	6/8/17	6/15/17	TO15 IS	A1806	1 ppm	1.5	30	50	WD	
A-2037	↓	↓	↓ STD	A1807	↓	↓	↓	↓	↓	
A-2038	↓	↓	↓ LCS	A1808	↓	↓	↓	↓	↓	

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd
A-2039	6/8/17	6/15/17	TO15 4PCH	9519	1 ppm	1.5	30	50	WD	
A-2040			4PCHS	A2039	50 ppb	3.0	30	5		
A-2041			FORM	A0974	11.5 ppm	0.20	45	50		
A-2042			SILOX	A1088 A1089	500 ppb	3.0	30	50		
A-2043			SULF	A0270	1 ppm	1.5	30	50		
A-2044			✓ H ₂ S	A0269	10 ppm	1.5	30	500		
A-2045			TO15 146 IS	A2036	50 ppb	0.9	45	1		
A-2046			STD	A2037						
A-2047	✓	✓	✓ LCS	A2038					✓	
A-2048	6/15/17	6/22/17	TO15 IS	A1806	1 ppm	1.5	30	50	WD	
A-2049			STD	A1807						
A-2050			LCS	A1808						
A-2051			4PCH	9519						
A-2052			4PCHS	A2051	50 ppb	3.0	30	5		
A-2053			FORM	A0974	11.5 ppm	0.20	45	50		
A-2054			SILOX	A1088 A1089	500 ppb	3.0	30	50		
A-2055			SULF	A0270	1 ppm	1.5	30	50		
A-2056			✓ H ₂ S	A0269	10 ppm	1.5	30	500		
A-2057			TO15 146 IS	A2048	50 ppb	0.9	45	1		
A-2058			STD	A2049						
A-2059	✓	✓	✓ LCS	A2050					✓	

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Instrument: Entech 3100

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Centek Laboratories, LLC

Canister Number	Canister Size	QC Can Number	# of Cycles	Int & Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr Int & Date	
360	1L	87	20	4/11/17	WAC041217 A	1/2 +0.25	+ 30	+ 30 4/14/17
475	↓	↓	↓	↓	↓	↓	+ 30	+
101	↓	↓	↓	↓	↓	↓	+ 30	+
1193	↓	↓	↓	↓	↓	↓	+ 30	+
87	↓	↓	↓	↓	↓	↓	+ 30	+
599	↓	370	↓	↓	B	↓	+ 30	+
94	↓	↓	↓	↓	↓	↓	+ 30	+
203	↓	↓	↓	↓	↓	↓	+ 30	+
550	↓	↓	↓	↓	↓	↓	+ 30	+
376	↓	↓	↓	↓	↓	↓	+ 30	+
221	↓	1186	↓	↓	C	↓	+ 30	+
362	↓	↓	↓	↓	↓	↓	+ 30	+
285	↓	↓	↓	↓	↓	↓	+ 30	+
1174	↓	↓	↓	↓	↓	↓	+ 30	+
1186	↓	↓	↓	↓	↓	↓	+ 30	+
240	↓	231	↓	↓	D	↓	+ 30	+
367	↓	↓	↓	↓	↓	↓	+ 30	+
1188	↓	↓	↓	↓	↓	↓	+ 30	+
467	↓	↓	↓	↓	↓	↓	+ 30	+
231	↓	↓	↓	↓	↓	↓	+ 30	+
212	1.4	482	↓	↓	E	↓	+ 30	+
211	↓	↓	↓	↓	↓	↓	+ 30	+
215	↓	↓	↓	↓	↓	↓	+ 30	+
209	↓	↓	↓	↓	↓	↓	+ 30	+
482	↓	↓	↓	↓	↓	↓	+ 30	+

Centek Laboratories, LLC

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Instrument: Entech 3100

Canister Number	Canister Size	QC Can Number	# of Cycles	Int & Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr int & Date	
102	1L	225	20	5/27/17	WAC052517A	1/27 +0.25	+30	+30 5/30/17
419							+30	+
284							+30	+
98							+30	+
225							+30	+
129		131			B		+30	+
357							+30	+
101							+30	+
1175							+30	+
131							+30	+
347		203			C		+30	+
181							+30	+
358							+30	+
161							+30	+
203							+30	+
193		88			D		+30	+
248							+30	+
234							+30	+
542							+30	+
88							+30	+
1195		328			E		+30	+
95							+30	+
226							+30	+
170							+30	+
328							+30	+

Instrument: Entech 3100

Canister Number	Canister Size	QC Can Number	# of Cycles	Int & Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr Int & Date	
138	1L	94	20	5/24/17	WAC052517 F	1/2 + 0.25	+ 30	+ 30 5/30/17
239		↓	↓	↓	↓	↓	+ 30	+
188		↓	↓	↓	↓	↓	+ 30	+
1318		↓	↓	↓	↓	↓	+ 30	+
94		↓	↓	↓	↓	↓	+ 30	+
200		163	↓	↓	G	↓	+ 30	+
471		↓	↓	↓	↓	↓	+ 30	+
460		↓	↓	↓	↓	↓	+ 30	+
318		↓	↓	↓	↓	↓	+ 30	+
163		↓	↓	↓	↓	↓	+ 30	+
324		496	↓	↓	H	↓	+ 30	+
362		↓	↓	↓	↓	↓	+ 30	+
475		↓	↓	↓	↓	↓	+ 30	+
195		↓	↓	↓	↓	↓	+ 30	+
496		↓	↓	↓	↓	↓	+ 30	+
139		351	↓	↓	X	↓	+ 30	+
275		↓	↓	↓	↓	↓	+ 30	+
130		↓	↓	↓	↓	↓	+ 30	+
250		↓	↓	↓	↓	↓	+ 30	+
351		↓	↓	↓	↓	↓	+ 30	+
							+ 30	+
							+ 30	+
							+ 30	+
							+ 30	+
							+ 30	+

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2017MAY\AO052506.D Vial: 1
Acq On : 25 May 2017 2:42 pm Operator: RJP
Sample : WAC052517A Inst : MSD #1
Misc : A426_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 26 10:43:13 2017 Quant Results File: A426_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A426_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu May 04 11:10:26 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.60	128	13318	1.00 ppb	0.03
35) 1,4-difluorobenzene	11.99	114	58852	1.00 ppb	0.03
50) Chlorobenzene-d5	16.85	117	52700	1.00 ppb	0.02

System Monitoring Compounds

65) Bromofluorobenzene	18.48	95	34231	0.94 ppb	0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	% 94.00%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO052506.D A605_1UG.M Wed Jul 19 11:42:47 2017 MSD1

Data File : C:\HPCHEM\1\DATA2\2017MAY\AO052506.D

Vial: 1

Acq On : 25 May 2017 2:42 pm

Operator: RJP

Sample : WAC052517A

Inst : MSD #1

Misc : A426_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: May 26 10:43 2017

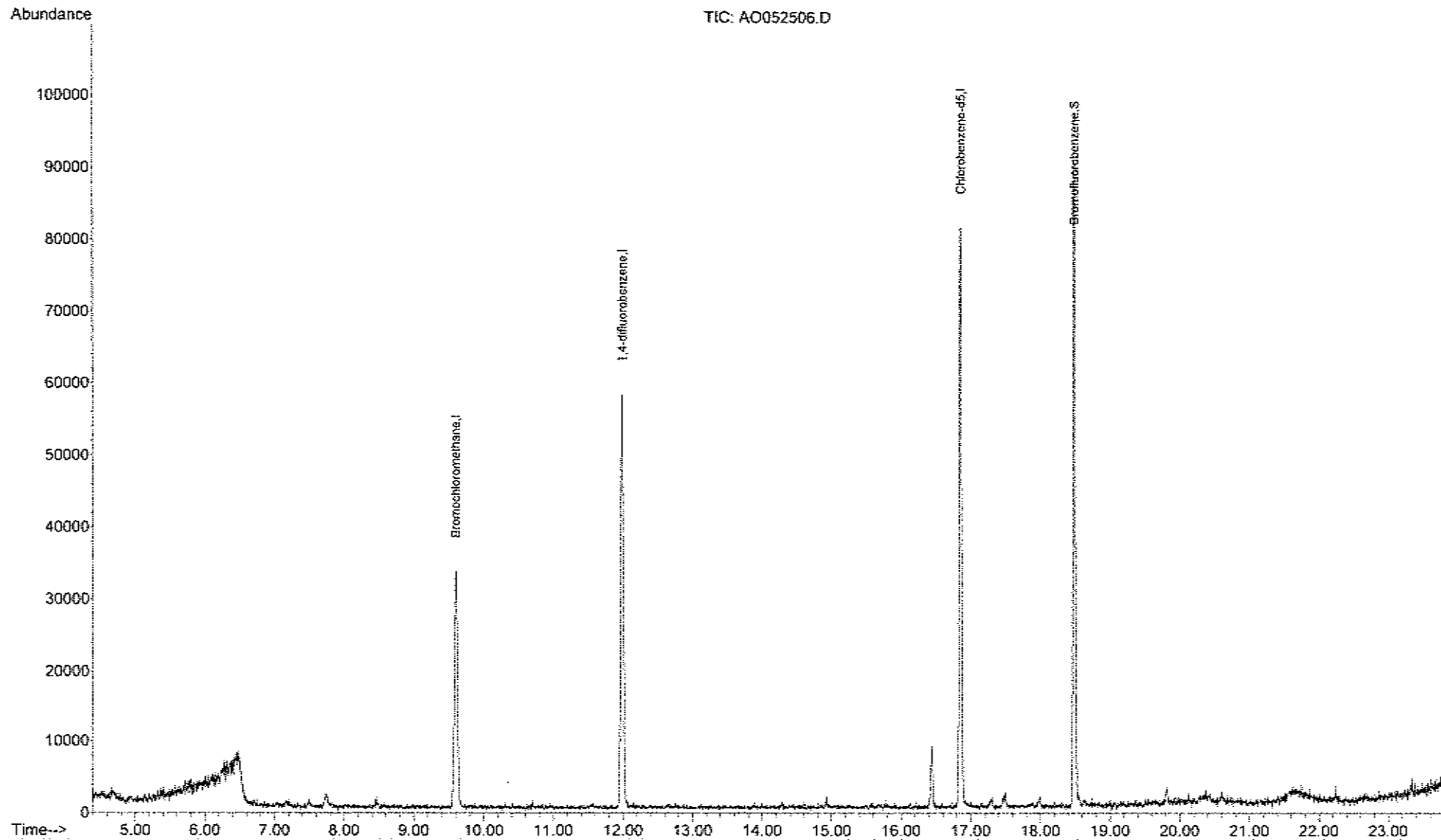
Quant Results File: A426_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 09:02:02 2017

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2017MAY\AO052507.D Vial: 2
Acq On : 25 May 2017 3:19 pm Operator: RJP
Sample : WAC052517B Inst : MSD #1
Misc : A426_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 26 10:43:14 2017 Quant Results File: A426_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A426_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu May 04 11:10:26 2017
Response via : Initial Calibration
DataAcq Meth : 1UG_{ms} RUN

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	9.58	128	13979	1.00 ppb	0.00
35) 1,4-difluorobenzene	11.97	114	60624	1.00 ppb	0.02
50) Chlorobenzene-d5	16.84	117	53805	1.00 ppb	0.01

System Monitoring Compounds
65) Bromofluorobenzene 18.47 95 35217 0.95 ppb 0.00
Spiked Amount 1.000 Range 70 - 130 Recovery = 95.00%

Target Compounds Qvalue

(#) = Qualifier out of range (m) = manual integration (+) = signals summed
AO052507.D A605_1UG.M Wed Jul 19 11:42:50 2017 MSD1

Data File : C:\HPCHEM\1\DATA2\2017MAY\AO052507.D

Vial: 2

Acq On : 25 May 2017 3:19 pm

Operator: RJP

Sample : WAC052517B

Inst : MSD #1

Misc : A426_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: May 26 10:47 2017

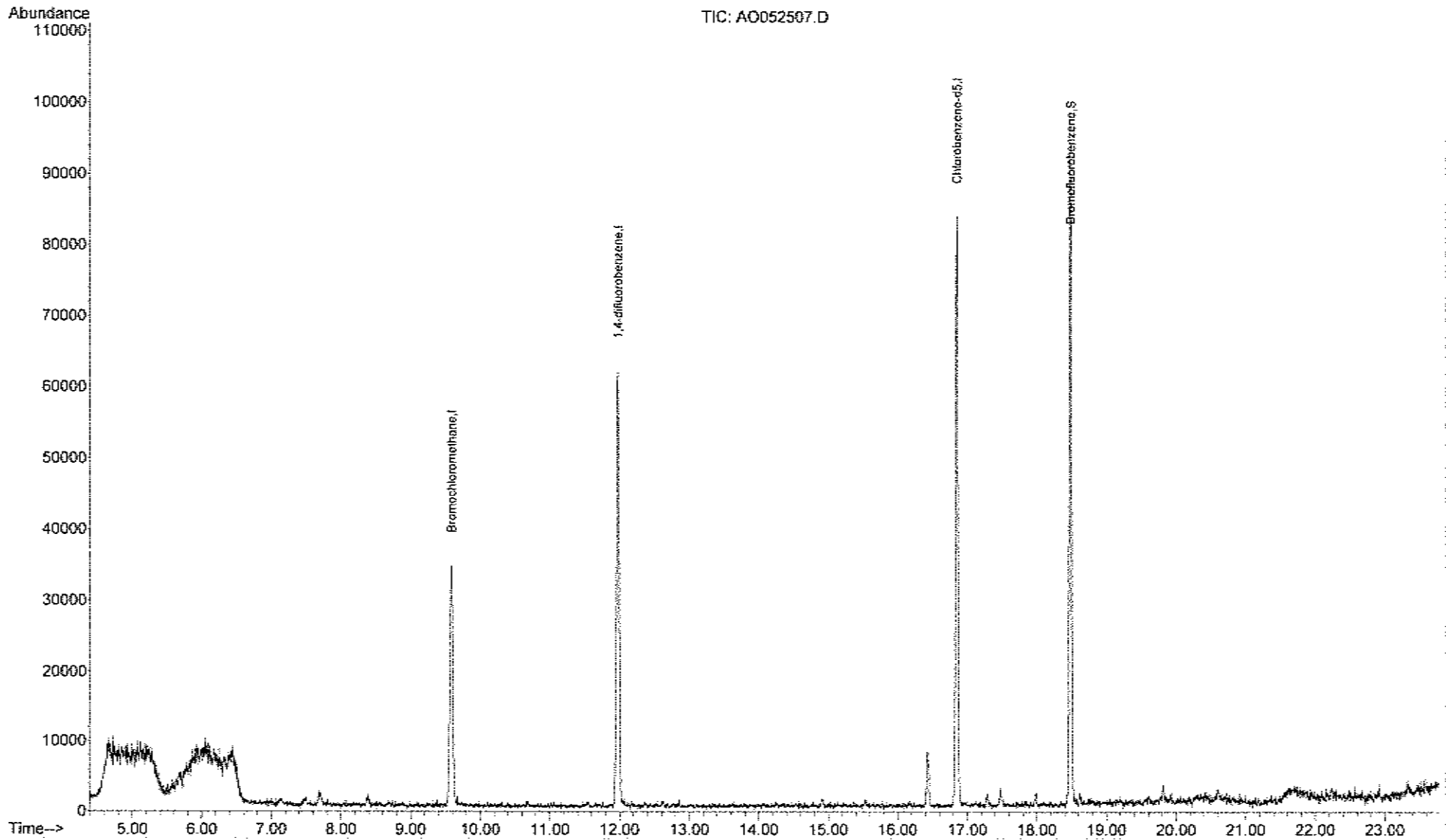
Quant Results File: A426_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 09:02:02 2017

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2017MAY\AO052508.D Vial: 3
Acq On : 25 May 2017 4:04 pm Operator: RJP
Sample : WAC052517C Inst : MSD #1
Misc : A426_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 26 10:43:15 2017 Quant Results File: A426_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A426_1UG.M (RTS Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu May 04 11:10:26 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.58	128	13540	1.00	ppb	0.00
35) 1,4-difluorobenzene	11.96	114	58990	1.00	ppb	0.00
50) Chlorobenzene-d5	16.84	117	52990	1.00	ppb	0.01

System Monitoring Compounds

65) Bromofluorobenzene	18.48	95	34536	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO052508.D A605_1UG.M Wed Jul 19 11:42:53 2017 MSD1

Data File : C:\HPCHEM\1\DATA2\2017MAY\AO052508.D

Vial: 3

Acq On : 25 May 2017 4:04 pm

Operator: RJP

Sample : WAC052517C

Inst : MSD #1

Misc : A426_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: May 26 10:47 2017

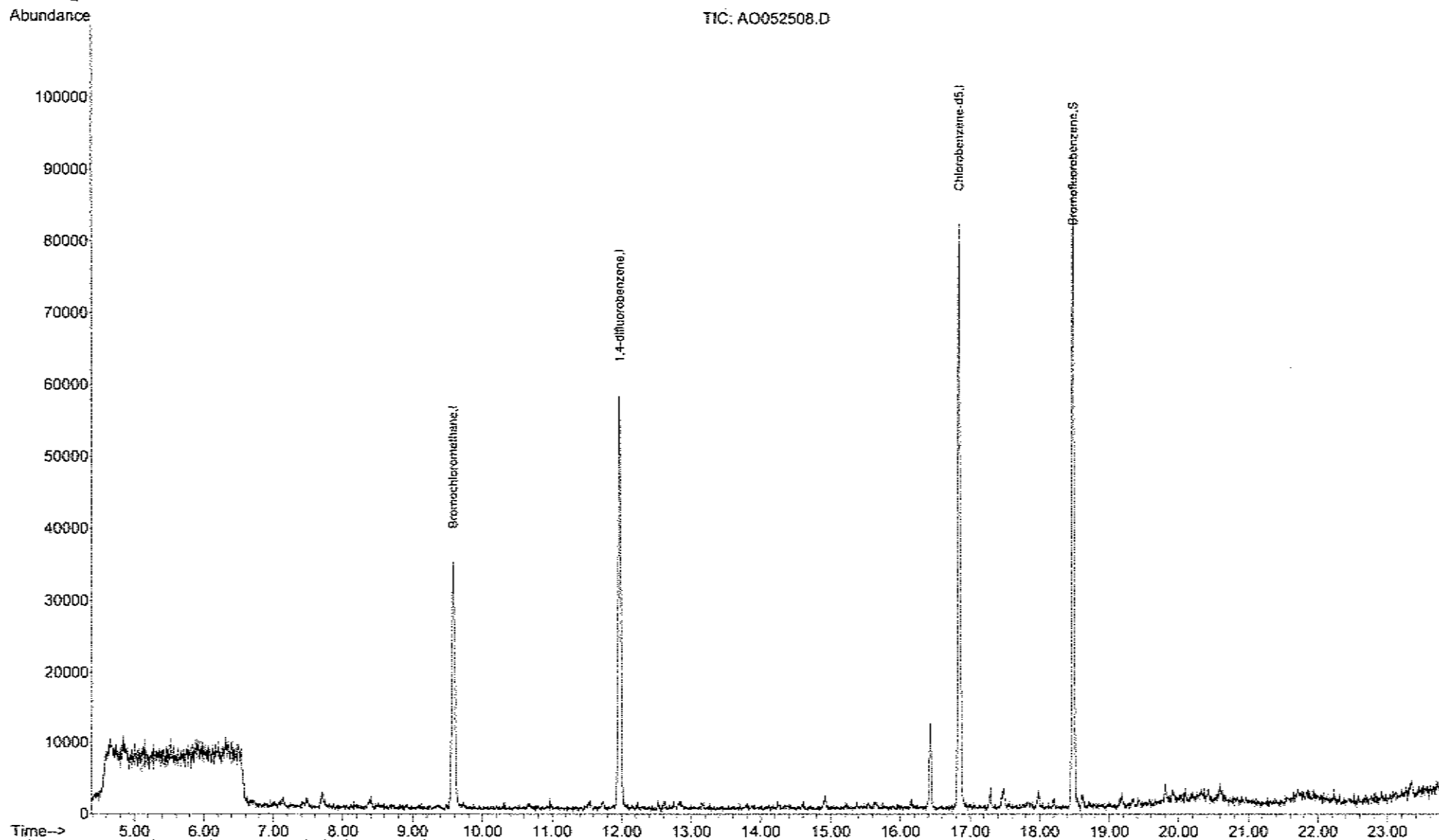
Quant Results File: A426_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 09:02:02 2017

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2017APR\AO041213.D Vial: 6
Acq On : 12 Apr 2017 7:17 pm Operator: RJP
Sample : WAC041217F Inst : MSD #1
Misc : A331_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 14 08:40:02 2017 Quant Results File: A331_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A331_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Apr 03 10:15:59 2017

Response via : Initial Calibration

DataAcq Mech : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.57	128	19865	1.00	ppb	0.03
35) 1,4-difluorobenzene	11.96	114	86776	1.00	ppb	0.02
50) Chlorobenzene-d5	16.83	117	79279	1.00	ppb	0.01

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	49264	0.91	ppb	0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	91.00%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO041213.D A605_1UG.M Wed Jul 19 11:44:07 2017 MSD1

Data File : C:\HPCHEM\1\DATA2\2017APR\AO041213.D

Vial: 6

Acq On : 12 Apr 2017 7:17 pm

Operator: RJP

Sample : WAC041217F

Inst : MSD #1

Misc : A331_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 14 8:45 2017

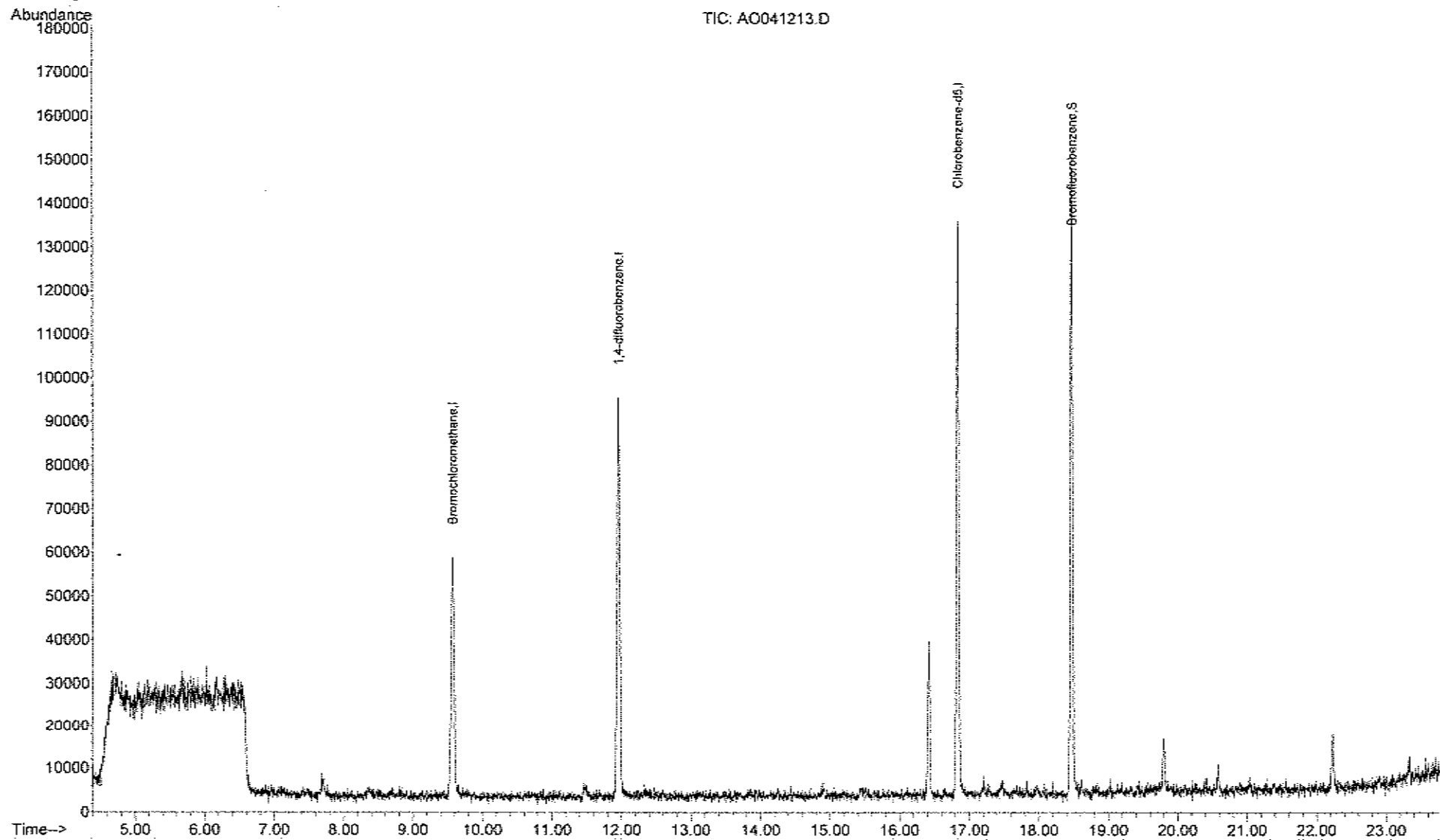
Quant Results File: A331_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 09:02:02 2017

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2017APR\AO041214.D Vial: 7
Acq On : 12 Apr 2017 7:54 pm Operator: RJP
Sample : WAC041217G Inst : MSD #1
Misc : A331_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 14 08:40:03 2017 Quant Results File: A331_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A331_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Apr 03 10:15:59 2017

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.57	128	20438	1.00	ppb	0.03
35) 1,4-difluorobenzene	11.95	114	89904	1.00	ppb	0.02
50) Chlorobenzene-d5	16.83	117	80459	1.00	ppb	0.02

System Monitoring Compounds

65) Bromofluorobenzene	18.47	95	49839	0.91	ppb	0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	91.00%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AO041214.D A605_1UG.M Wed Jul 19 11:44:10 2017 MSD1

Data File : C:\HPCHEM\1\DATA2\2017APR\AO041214.D

Vial: 7

Acq On : 12 Apr 2017 7:54 pm

Operator: RJP

Sample : WAC041217G

Inst : MSD #1

Misc : A331_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 14 8:45 2017

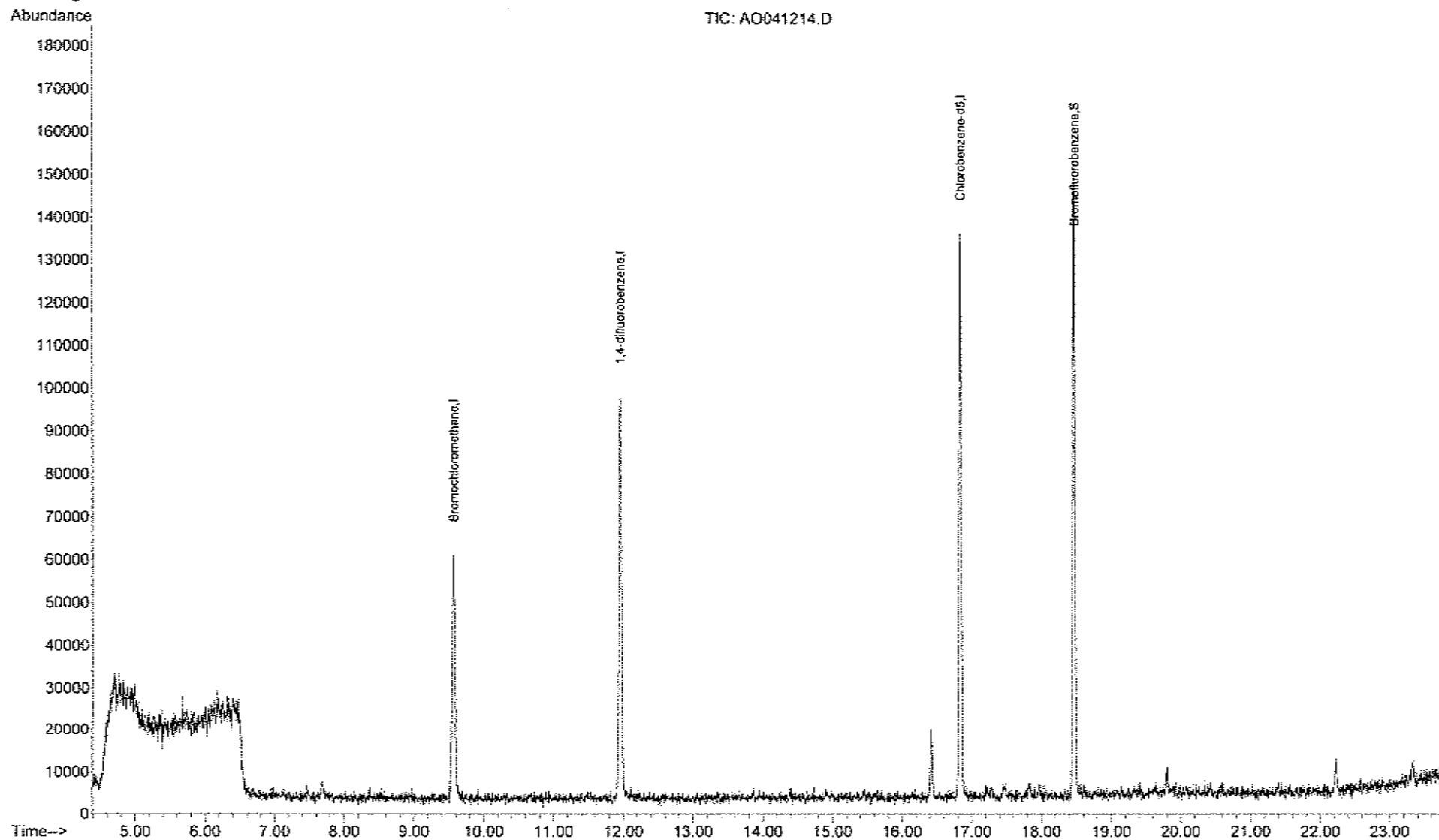
Quant Results File: A331_1UG.RES

Method : C:\HPCHEM\1\METHODS\A605_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Jun 29 09:02:02 2017

Response via : Initial Calibration



DATA USABILITY SUMMARY REPORT

for

LaBella Associates, P.C.

300 State Street

Rochester, NY 14614

690 ST PAUL SITE

Project 209280

SDG: C1706015

Sampled 6/5/2017

TO-15 AIR SAMPLES

Rm 117	(C1706015-01)
Rm 107	(C1706015-02)
Rm 112	(C1706015-03)
Rm 134	(C1706015-04)
Elavator	(C1706015-05)
Roof	(C1706015-06)
Rm 126	(C1706015-07)
Rm 107Dup	(C1706015-08)

DATA ASSESSMENT

A TO-15 data package containing analytical results for eight air samples was received from LaBella Associates, P.C. on 20Jul17. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the 690 St. Paul Site, were identified by Chain of Custody documents and traceable through the work of Centek Laboratories, LLC, the laboratory contracted for analysis. The analyses were performed using US EPA Method TO-15 and addressed measurements of sixty-three volatile organic compounds. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-31, Rev. #4, October 2006, Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15) was used as a technical reference.

The acetone, methylene chloride and methyl ethyl ketone concentrations found in this delivery group have been qualified as estimations because they may represent laboratory artifacts.

The benzene, cyclohexane and heptane concentrations found in Rm 112 have been qualified as estimations due to high spiked sample recoveries.

The bromomethane results from Rm 117, Rm 107 and Rm 112 have been qualified as estimations due to a low spiked blank recovery.

The benzene, cyclohexane, heptane, methyl ethyl ketone, methylene chloride and trichloroethene results from Rm 107 and Rm 107Dupe have been qualified as estimations due to poor measurement precision.

The identification of 1,4-dioxane in Rm 112 could not be verified based on the mass spectra references included in the raw data. 1,4-Dioxane should be interpreted as undetected in this sample.

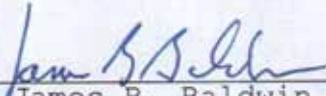
CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data

assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL, Inc.

Date: 25 July 17

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the date of sampling. TO-15 samples must be analyzed within 14 days of collection.

This sample delivery group contained seven air samples that were collected in 1-liter SUMMA canisters. A sample from Rm 112 was collected in a 1.4-liter canister to provide sufficient sample volume for the preparation of MS/MSD samples. Sampling was completed on 05Jun17. The canisters were shipped back to the laboratory, via FedEx-Ground, on 06Jun17 and were received on 07Jun17. Although the sample canisters were received intact, custody seals were not present on the packaging.

Each SUMMA canister was set in the laboratory to collect an 8-hour sample. Sampling was terminated, however, after 7.5 hours based on the canister vacuum readings. Vacuum readings were recorded by the laboratory at the time of shipment and at the time of receipt. Field readings were recorded prior to and following sampling. This information is tabulated below.

SAMPLE	PRIOR TO SHIPMENT ("Hg)	PRIOR TO SAMPLING ("Hg)	POST SAMPLING ("Hg)	LAB RECEIPT ("Hg)
Rm 117	-30	-30	-4	-4
Rm 107	-30	-30	-3	-3
Rm 112	-30	-30	-6	-6
Rm 134	-30	-30	-5.5	-6
Elevator	-30	-28	-4	-4
Roof	-30	-29	-6	-6
Rm 126	-30	-30	-5.5	-6
Rm 107Dup	-30	-30	-3	-3

It is noted that the final vacuum readings from Rm 107 and Rm 107Dup were slightly outside of the ASP guidelines of 5"±1" of Hg. Because sufficient sample was collected for the required analyses, data has not been qualified due to this slight exceedence. The agreement between the vacuum readings taken following sampling and the readings obtained in the laboratory indicates that the integrity of the samples was maintained during this period.

CANISTER CERTIFICATION

The canisters used for this project were pressure tested at 30 psig for 24 hours. Each canister demonstrated a change ≤0.5 psig over this period.

The canisters were cleaned in three batches. A blank analysis of a clean canister from each batch was free of targeted analyte contamination.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Trip Blanks monitor sampling activities, sample transport, and storage. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Two method blanks were analyzed with this group of samples. Both of these blanks demonstrated acceptable chromatography and were free of targeted analyte contamination.

Although not detected in the method blanks, acetone, methylene chloride and methyl ethyl ketone were found in each program sample. These concentrations have been qualified as estimations because acetone, methylene chloride and methyl ethyl ketone are frequently present as laboratory artifacts. Acetone, methylene chloride (METH CL), and methyl ethyl ketone (MEK) could not be removed from sample reports because they were not found in the associated method blanks.

MS TUNING

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

BFB ion abundance criteria was reported from standards run before the initial instrument calibration and prior to the analysis sequences that included samples from this program. Each of these checks satisfied the ASP acceptance criteria.

CALIBRATION

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration was performed on 05Jun17. Standards of 0.04, 0.10, 0.15, 0.30, 0.50, 0.75, 1.0, 1.25, 1.50 and 2.0 ppbV were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

Continuing calibration check standards were analyzed on 08Jun17 and 14Jun17, prior to the 24-hour periods of instrument operation that included samples from this program. When compared to the initial calibration, each targeted analyte demonstrated an acceptable level of instrument stability during both checks.

SURROGATES

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate

overall laboratory performance and the efficiency of laboratory technique.

Although surrogate summary sheets were properly prepared, an incorrect acceptance criteria was applied. However, when compared to the ASP requirements, acceptable surrogate recoveries were reported for each addition to this group of samples.

INTERNAL STANDARDS

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than 40%. When compared to the preceding calibration check, retention times may not vary by more than 10 seconds.

The laboratory recorded the response of each internal standard addition to this group of samples, and the response obtained from the preceding CCV standards. Although the control limits based on the response of each CCV were not provided, they were calculated by this reviewer. When compared to these limits, acceptable performance was reported for the internal standard additions to each program sample.

Internal standard retention times were not addressed. The ASP retention time acceptance criteria was calculated by this reviewer. The retention times produced by each program sample satisfied these requirements.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

Rm 112 was selected for matrix spiking. The entire list of targeted analytes was added to two volumes of this sample. The recoveries reported for these additions included unacceptably high results for 1,2,4-trichlorobenzene (136%), 1,4-dioxane (673%), benzene (223%,229%), bromodichloromethane (201%,215%), chloromethane (182%,153%), cyclohexane (399%,432%), ethyl acetate (880%,1000%), heptane (822%), methyl butyl ketone (230%,309%), methyl isobutyl ketone (140%), propylene (616%,143%) and vinyl acetate (2720%,3280%). The benzene, cyclohexane and heptane concentrations found in the Rm 112 sample have been qualified as estimations based on these indications of positive bias. The remaining affected analytes were not found in Rm 112 and remain unqualified.

Three spiked blanks (LCS, LCS/LCSD) were also analyzed with this group of samples. The recoveries reported from these LCS samples included a single low bromomethane (42%) result. The bromomethane (BRMANE) results from Rm 117, Rm 107 and Rm 112 have

been qualified as estimations based on this indication of negative bias. The remaining analytes demonstrated acceptable levels of measurement precision and accuracy.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Field split duplicates of Rm 107 were included in this group of samples. The measurement precision (reported as RPD) demonstrated by this pair of samples included unacceptable results for benzene (44%), cyclohexane (23%), heptane (60%), methyl ethyl ketone (59%), methylene chloride (85%) and trichloroethene (54%). The benzene, cyclohexane, heptane, methyl ethyl ketone (MEK) methylene chloride (METH CL) and trichloroethene (TCE) results from Rm 107 and Rm 107Dupe have been qualified as estimations based on this performance.

REPORTED ANALYTES

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples.

The presence of 1,4-dioxane in Rm 112 could not be confirmed, based on the mass spectra references included in the raw data. 1,4-Dioxane (14DIOXANE) should be interpreted as undetected in this sample.

SUMMARY OF QUALIFIED DATA

690 ST PAUL SITE

SAMPLED JUNE 2017

	BLANK ACETONE	BLANK METH CL	BLANK MEK	SPIKE BENZENE	SPIKE CYCLOHEXANE	SPIKE HEPTANE	SPK BLK BRMANE	DUPE BENZENE
Rm 117	41J	1.8J	2.2J				0.58UJ	
Rm 107	43J	1.4J	8.3J				0.58UJ	1.4J
Rm 112	59J	1.7J	1.9J	2.8J	5.9J	17J	0.58UJ	
Rm 134	40J	4.7J	2.0J					
Elavator	100J	6.6J	9.4J					
Roof	70J	21J	1.5J					
Rm 126	49J	0.52J	2.2J					2.2J
Rm 107Dup	41J	3.5J	4.5J					

	DUPE CYCLOHEXANE	DUPE HEPTANE	DUPE MEK	DUPE METH CL	DUPE TCE	MS ID 14DIOXANE
Rm 117						
Rm 107	3.9J	4.9J	8.3J	1.4J	0.59J	1.1U
Rm 112						
Rm 134						
Elavator						
Roof						
Rm 126						
Rm 107Dup	4.9J	9.1J	4.5J	3.5J	1.2J	

Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-001A

Client Sample ID: Rm 117
 Tag Number: 284.1162
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 2:44:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 2:44:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 2:44:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 2:44:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2017 2:44:00 PM
1,2,4-Trimethylbenzene	0.64	0.74	J	ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 2:44:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2017 2:44:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 2:44:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2017 2:44:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 2:44:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 2:44:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/8/2017 2:44:00 PM
2,2,4-trimethylpentane	2.1	0.70		ug/m3	1	6/8/2017 2:44:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/8/2017 2:44:00 PM
Acetone	41 J	7.1		ug/m3	10	6/9/2017 1:13:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2017 2:44:00 PM
Benzene	0.93	0.48		ug/m3	1	6/8/2017 2:44:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2017 2:44:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2017 2:44:00 PM
Bromomethane	< 0.58 J	0.58		ug/m3	1	6/8/2017 2:44:00 PM
Carbon disulfide	0.31	0.47	J	ug/m3	1	6/8/2017 2:44:00 PM
Carbon tetrachloride	0.50	0.25		ug/m3	1	6/8/2017 2:44:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2017 2:44:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/8/2017 2:44:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2017 2:44:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2017 2:44:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 2:44:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 2:44:00 PM
Cyclohexane	1.1	0.52		ug/m3	1	6/8/2017 2:44:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2017 2:44:00 PM
Ethyl acetate	15	5.4		ug/m3	10	6/9/2017 1:13:00 AM
Ethylbenzene	0.65	0.65		ug/m3	1	6/8/2017 2:44:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/8/2017 2:44:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2017 2:44:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-001A

Client Sample ID: Rm 117
 Tag Number: 284.1162
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	6/8/2017 2:44:00 PM
Heptane	3.0	0.61		ug/m3	1	6/8/2017 2:44:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2017 2:44:00 PM
Hexane	< 0.53	0.53		ug/m3	1	6/8/2017 2:44:00 PM
Isopropyl alcohol	380	34		ug/m3	90	6/9/2017 7:48:00 AM
m&p-Xylene	1.6	1.3		ug/m3	1	6/8/2017 2:44:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 2:44:00 PM
Methyl Ethyl Ketone	2.2 J	0.88		ug/m3	1	6/8/2017 2:44:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 2:44:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2017 2:44:00 PM
Methylene chloride	1.8 J	0.52		ug/m3	1	6/8/2017 2:44:00 PM
o-Xylene	0.74	0.65		ug/m3	1	6/8/2017 2:44:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2017 2:44:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2017 2:44:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/8/2017 2:44:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2017 2:44:00 PM
Toluene	6.8	0.57		ug/m3	1	6/8/2017 2:44:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 2:44:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 2:44:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	6/8/2017 2:44:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2017 2:44:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2017 2:44:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/8/2017 2:44:00 PM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-002A

Client Sample ID: Rm 107
 Tag Number: 419.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 3:25:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 3:25:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 3:25:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 3:25:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2017 3:25:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 3:25:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2017 3:25:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 3:25:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2017 3:25:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 3:25:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 3:25:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/8/2017 3:25:00 PM
2,2,4-trimethylpentane	8.7	0.70		ug/m3	1	6/8/2017 3:25:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/8/2017 3:25:00 PM
Acetone	43 J	7.1		ug/m3	10	6/9/2017 1:52:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2017 3:25:00 PM
Benzene	1.4 J	0.48		ug/m3	1	6/8/2017 3:25:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2017 3:25:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2017 3:25:00 PM
Bromomethane	< 0.58 UJ	0.58		ug/m3	1	6/8/2017 3:25:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/8/2017 3:25:00 PM
Carbon tetrachloride	0.57	0.25		ug/m3	1	6/8/2017 3:25:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2017 3:25:00 PM
Chloroethane	0.26	0.40	J	ug/m3	1	6/8/2017 3:25:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2017 3:25:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2017 3:25:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 3:25:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 3:25:00 PM
Cyclohexane	3.9 J	0.52		ug/m3	1	6/8/2017 3:25:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2017 3:25:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/8/2017 3:25:00 PM
Ethylbenzene	0.61	0.65	J	ug/m3	1	6/8/2017 3:25:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/8/2017 3:25:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2017 3:25:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-002A

Client Sample ID: Rm 107
 Tag Number: 419.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	2.6	0.74		ug/m3	1	6/8/2017 3:25:00 PM
Heptane	4.9 J	0.61		ug/m3	1	6/8/2017 3:25:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2017 3:25:00 PM
Hexane	5.6	5.3		ug/m3	10	6/9/2017 1:52:00 AM
Isopropyl alcohol	71	3.7		ug/m3	10	6/9/2017 1:52:00 AM
m&p-Xylene	1.6	1.3		ug/m3	1	6/8/2017 3:25:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 3:25:00 PM
Methyl Ethyl Ketone	8.3 J	8.6	J	ug/m3	10	6/9/2017 1:52:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 3:25:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2017 3:25:00 PM
Methylene chloride	1.4 J	0.52		ug/m3	1	6/8/2017 3:25:00 PM
o-Xylene	0.65	0.65		ug/m3	1	6/8/2017 3:25:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2017 3:25:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2017 3:25:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/8/2017 3:25:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2017 3:25:00 PM
Toluene	4.8	0.57		ug/m3	1	6/8/2017 3:25:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 3:25:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 3:25:00 PM
Trichloroethene	0.59 J	0.21		ug/m3	1	6/8/2017 3:25:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2017 3:25:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2017 3:25:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/8/2017 3:25:00 PM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-003A

Client Sample ID: Rm 112 +MS/MSD
 Tag Number: 215.439
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 4:05:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/8/2017 4:05:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 4:05:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 4:05:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/8/2017 4:05:00 PM
1,2,4-Trimethylbenzene	0.79	0.74		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/8/2017 4:05:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/8/2017 4:05:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/8/2017 4:05:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/8/2017 4:05:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 4:05:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/8/2017 4:05:00 PM
1,4-Dioxane	1.1 U 5.0	1.1		ug/m3	1	6/8/2017 4:05:00 PM
2,2,4-trimethylpentane	19	0.70		ug/m3	1	6/8/2017 4:05:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/8/2017 4:05:00 PM
Acetone	59 J	7.1		ug/m3	10	6/9/2017 2:31:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/8/2017 4:05:00 PM
Benzene	2.8 J	0.48		ug/m3	1	6/8/2017 4:05:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/8/2017 4:05:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/8/2017 4:05:00 PM
Bromomethane	< 0.58 UJ	0.58		ug/m3	1	6/8/2017 4:05:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/8/2017 4:05:00 PM
Carbon tetrachloride	0.57	0.25		ug/m3	1	6/8/2017 4:05:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/8/2017 4:05:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/8/2017 4:05:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	6/8/2017 4:05:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/8/2017 4:05:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 4:05:00 PM
cis-1,3-Dichloropropene	< 0.66	0.66		ug/m3	1	6/8/2017 4:05:00 PM
Cyclohexane	5.9 J	0.52		ug/m3	1	6/8/2017 4:05:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/8/2017 4:05:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/8/2017 4:05:00 PM
Ethylbenzene	0.65	0.65		ug/m3	1	6/8/2017 4:05:00 PM
Freon 11	1.4	0.84		ug/m3	1	6/8/2017 4:05:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	6/8/2017 4:05:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-003A

Client Sample ID: Rm 112 +MS/MSD
 Tag Number: 215.439
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	2.6	0.74		ug/m3	1	6/8/2017 4:05:00 PM
Heptane	17 J	6.1		ug/m3	10	6/8/2017 2:31:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/8/2017 4:05:00 PM
Hexane	58	5.3		ug/m3	10	6/8/2017 2:31:00 AM
Isopropyl alcohol	66	0.37		ug/m3	1	6/8/2017 4:05:00 PM
m&p-Xylene	1.4	1.3		ug/m3	1	6/8/2017 4:05:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 4:05:00 PM
Methyl Ethyl Ketone	1.9 J	0.88		ug/m3	1	6/8/2017 4:05:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/8/2017 4:05:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/8/2017 4:05:00 PM
Methylene chloride	1.7 J	0.52		ug/m3	1	6/8/2017 4:05:00 PM
o-Xylene	0.56	0.65	J	ug/m3	1	6/8/2017 4:05:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/8/2017 4:05:00 PM
Styrene	< 0.64	0.64		ug/m3	1	6/8/2017 4:05:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/8/2017 4:05:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/8/2017 4:05:00 PM
Toluene	3.2	0.57		ug/m3	1	6/8/2017 4:05:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/8/2017 4:05:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/8/2017 4:05:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	6/8/2017 4:05:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/8/2017 4:05:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/8/2017 4:05:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/8/2017 4:05:00 PM

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Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-004A

Client Sample ID: Rm 134
 Tag Number: 102.345
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 5:53:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 5:53:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 5:53:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 5:53:00 AM
1,1-Dichloroethane	< 0.59	0.59		ug/m3	1	6/15/2017 5:53:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 5:53:00 AM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	6/15/2017 5:53:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 5:53:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 5:53:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 5:53:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 5:53:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/15/2017 5:53:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 5:53:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 5:53:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 5:53:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 5:53:00 AM
2,2,4-trimethylpentane	1.5	0.70		ug/m3	1	6/15/2017 5:53:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/15/2017 5:53:00 AM
Acetone	40 J	7.1		ug/m3	10	6/9/2017 3:10:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 5:53:00 AM
Benzene	0.57	0.48		ug/m3	1	6/15/2017 5:53:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 5:53:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 5:53:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/15/2017 5:53:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 5:53:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/15/2017 5:53:00 AM
Carbon tetrachloride	0.38	0.25		ug/m3	1	6/15/2017 5:53:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 5:53:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 5:53:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/15/2017 5:53:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/15/2017 5:53:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 5:53:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 5:53:00 AM
Cyclohexane	1.1	0.52		ug/m3	1	6/15/2017 5:53:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 5:53:00 AM
Ethyl acetate	1.3	0.54		ug/m3	1	6/15/2017 5:53:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/15/2017 5:53:00 AM
Freon 11	1.1	0.84		ug/m3	1	6/15/2017 5:53:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 5:53:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 5:53:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-004A

Client Sample ID: Rm 134
 Tag Number: 102.345
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15	Analyst: RJP	
Freon 12	2.0	0.74		ug/m3	1	6/15/2017 5:53:00 AM
Heptane	1.4	0.61		ug/m3	1	6/15/2017 5:53:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 5:53:00 AM
Hexane	1.7	0.53		ug/m3	1	6/15/2017 5:53:00 AM
Isopropyl alcohol	65	3.7		ug/m3	10	6/9/2017 3:10:00 AM
m&p-Xylene	0.78	1.3	J	ug/m3	1	6/15/2017 5:53:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 5:53:00 AM
Methyl Ethyl Ketone	2.0 J	0.88		ug/m3	1	6/15/2017 5:53:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 5:53:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 5:53:00 AM
Methylene chloride	4.7 J	0.52		ug/m3	1	6/15/2017 5:53:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	6/15/2017 5:53:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 5:53:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 5:53:00 AM
Tetrachloroethylene	0.75	1.0	J	ug/m3	1	6/15/2017 5:53:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/15/2017 5:53:00 AM
Toluene	2.1	0.57		ug/m3	1	6/15/2017 5:53:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 5:53:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 5:53:00 AM
Trichloroethene	0.32	0.21		ug/m3	1	6/15/2017 5:53:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 5:53:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 5:53:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 5:53:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-005A

Client Sample ID: Elevator
 Tag Number: 131.455
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 6:36:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 6:36:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 6:36:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 6:36:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 6:36:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 6:36:00 AM
1,2,4-Trimethylbenzene	7.3	0.74		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 6:36:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 6:36:00 AM
1,3,5-Trimethylbenzene	3.5	0.74		ug/m3	1	6/15/2017 6:36:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 6:36:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 6:36:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 6:36:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 6:36:00 AM
2,2,4-trimethylpentane	1.2	0.70		ug/m3	1	6/15/2017 6:36:00 AM
4-ethyltoluene	1.4	0.74		ug/m3	1	6/15/2017 6:36:00 AM
Acetone	100 J	14		ug/m3	20	6/9/2017 8:24:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 6:36:00 AM
Benzene	1.9	0.48		ug/m3	1	6/15/2017 6:36:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 6:36:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 6:36:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/15/2017 6:36:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 6:36:00 AM
Carbon disulfide	1.0	0.47		ug/m3	1	6/15/2017 6:36:00 AM
Carbon tetrachloride	0.50	0.25		ug/m3	1	6/15/2017 6:36:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 6:36:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 6:36:00 AM
Chloroform	0.59	0.73	J	ug/m3	1	6/15/2017 6:36:00 AM
Chloromethane	1.9	0.31		ug/m3	1	6/15/2017 6:36:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 6:36:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 6:36:00 AM
Cyclohexane	1.4	0.52		ug/m3	1	6/15/2017 6:36:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 6:36:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/15/2017 6:36:00 AM
Ethylbenzene	1.2	0.65		ug/m3	1	6/15/2017 6:36:00 AM
Freon 11	1.4	0.84		ug/m3	1	6/15/2017 6:36:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 6:36:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 6:36:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-005A

Client Sample ID: Elevator
 Tag Number: 131.455
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	6/15/2017 6:36:00 AM
Heptane	1.4	0.61		ug/m3	1	6/15/2017 6:36:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 6:36:00 AM
Hexane	3.3	0.53		ug/m3	1	6/15/2017 6:36:00 AM
Isopropyl alcohol	100	7.4		ug/m3	20	6/9/2017 8:24:00 AM
m&p-Xylene	5.0	1.3		ug/m3	1	6/15/2017 6:36:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 6:36:00 AM
Methyl Ethyl Ketone	9.4 J	8.8		ug/m3	10	6/9/2017 3:50:00 AM
Methyl Isobutyl Ketone	0.78	1.2	J	ug/m3	1	6/15/2017 6:36:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 6:36:00 AM
Methylene chloride	6.6 J	5.2		ug/m3	10	6/9/2017 3:50:00 AM
o-Xylene	2.0	0.65		ug/m3	1	6/15/2017 6:36:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 6:36:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 6:36:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/15/2017 6:36:00 AM
Tetrahydrofuran	1.4	0.44		ug/m3	1	6/15/2017 6:36:00 AM
Toluene	7.5	0.57		ug/m3	1	6/15/2017 6:36:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 6:36:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 6:36:00 AM
Trichloroethene	1.6	0.21		ug/m3	1	6/15/2017 6:36:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 6:36:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 6:36:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 6:36:00 AM

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Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

, Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-006A

Client Sample ID: Roof
 Tag Number: 129.1160
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 7:18:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 7:18:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 7:18:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 7:18:00 AM
1,1-Dichloroethane	< 0.59	0.59		ug/m3	1	6/15/2017 7:18:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 7:18:00 AM
1,2,4-Trimethylbenzene	0.74	0.74		ug/m3	1	6/15/2017 7:18:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 7:18:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 7:18:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 7:18:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 7:18:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/15/2017 7:18:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 7:18:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 7:18:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 7:18:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 7:18:00 AM
2,2,4-trimethylpentane	2.0	0.70		ug/m3	1	6/15/2017 7:18:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/15/2017 7:18:00 AM
Acetone	70 J	7.1		ug/m3	10	6/9/2017 4:28:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 7:18:00 AM
Benzene	1.1	0.48		ug/m3	1	6/15/2017 7:18:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 7:18:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 7:18:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/15/2017 7:18:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 7:18:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/15/2017 7:18:00 AM
Carbon tetrachloride	0.44	0.25		ug/m3	1	6/15/2017 7:18:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 7:18:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 7:18:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/15/2017 7:18:00 AM
Chloromethane	1.5	0.31		ug/m3	1	6/15/2017 7:18:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 7:18:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 7:18:00 AM
Cyclohexane	1.4	0.52		ug/m3	1	6/15/2017 7:18:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 7:18:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/15/2017 7:18:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	6/15/2017 7:18:00 AM
Freon 11	1.2	0.84		ug/m3	1	6/15/2017 7:18:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 7:18:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 7:18:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-006A

Client Sample ID: Roof
 Tag Number: 129.1160
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	2.3	0.74		ug/m3	1	6/15/2017 7:18:00 AM
Heptane	1.4	0.61		ug/m3	1	6/15/2017 7:18:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 7:18:00 AM
Hexane	6.1	0.53		ug/m3	1	6/15/2017 7:18:00 AM
Isopropyl alcohol	2.9	0.37		ug/m3	1	6/15/2017 7:18:00 AM
m&p-Xylene	0.74	1.3	J	ug/m3	1	6/15/2017 7:18:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 7:18:00 AM
Methyl Ethyl Ketone	1.5 J	0.88		ug/m3	1	6/15/2017 7:18:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 7:18:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 7:18:00 AM
Methylene chloride	21 J	5.2		ug/m3	10	6/9/2017 4:28:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	6/15/2017 7:18:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 7:18:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 7:18:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/15/2017 7:18:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/15/2017 7:18:00 AM
Toluene	3.2	0.57		ug/m3	1	6/15/2017 7:18:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 7:18:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 7:18:00 AM
Trichloroethene	0.54	0.21		ug/m3	1	6/15/2017 7:18:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 7:18:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 7:18:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 7:18:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-007A

Client Sample ID: Rm 126
 Tag Number: 225.265
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 8:01:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 8:01:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:01:00 AM
1,1-Dichloroethane	< 0.59	0.59		ug/m3	1	6/15/2017 8:01:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 8:01:00 AM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:01:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 8:01:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/15/2017 8:01:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 8:01:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:01:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:01:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 8:01:00 AM
2,2,4-trimethylpentane	3.3	0.70		ug/m3	1	6/15/2017 8:01:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/15/2017 8:01:00 AM
Acetone	49	7.1		ug/m3	10	6/9/2017 5:08:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 8:01:00 AM
Benzene	1.2	0.48		ug/m3	1	6/15/2017 8:01:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 8:01:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/15/2017 8:01:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 8:01:00 AM
Carbon disulfide	0.47	0.47		ug/m3	1	6/15/2017 8:01:00 AM
Carbon tetrachloride	0.44	0.25		ug/m3	1	6/15/2017 8:01:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 8:01:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 8:01:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/15/2017 8:01:00 AM
Chloromethane	1.3	0.31		ug/m3	1	6/15/2017 8:01:00 AM
cis-1,2-Dichloroethane	< 0.59	0.59		ug/m3	1	6/15/2017 8:01:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:01:00 AM
Cyclohexane	1.0	0.52		ug/m3	1	6/15/2017 8:01:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 8:01:00 AM
Ethyl acetate	3.2	0.54		ug/m3	1	6/15/2017 8:01:00 AM
Ethylbenzene	0.78	0.65		ug/m3	1	6/15/2017 8:01:00 AM
Freon 11	1.1	0.84		ug/m3	1	6/15/2017 8:01:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 8:01:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-007A

Client Sample ID: Rm 126
 Tag Number: 225.265
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	2.1	0.74		ug/m3	1	6/15/2017 8:01:00 AM
Heptane	4.2	0.61		ug/m3	1	6/15/2017 8:01:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 8:01:00 AM
Hexane	3.7	0.53		ug/m3	1	6/15/2017 8:01:00 AM
Isopropyl alcohol	120	3.7		ug/m3	10	6/9/2017 5:08:00 AM
m&p-Xylene	1.3	1.3		ug/m3	1	6/15/2017 8:01:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:01:00 AM
Methyl Ethyl Ketone	2.7 J	0.88		ug/m3	1	6/15/2017 8:01:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:01:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 8:01:00 AM
Methylene chloride	2.3	0.52 J		ug/m3	1	6/15/2017 8:01:00 AM
o-Xylene	0.48	0.65 J		ug/m3	1	6/15/2017 8:01:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 8:01:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 8:01:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/15/2017 8:01:00 AM
Tetrahydrofuran	1.5	0.44		ug/m3	1	6/15/2017 8:01:00 AM
Toluene	2.7	0.57		ug/m3	1	6/15/2017 8:01:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:01:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:01:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	6/15/2017 8:01:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 8:01:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 8:01:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 8:01:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-008A

Client Sample ID: Km 107 Dup
 Tag Number: 98.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 8:43:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	6/15/2017 8:43:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:43:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:43:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/15/2017 8:43:00 AM
1,2,4-Trimethylbenzene	0.88	0.74		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	6/15/2017 8:43:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	6/15/2017 8:43:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	6/15/2017 8:43:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	6/15/2017 8:43:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:43:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	6/15/2017 8:43:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/15/2017 8:43:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	6/15/2017 8:43:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	6/15/2017 8:43:00 AM
Acetone	41 J	7.1		ug/m3	10	6/9/2017 5:45:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	6/15/2017 8:43:00 AM
Benzene	2.2 J	0.48		ug/m3	1	6/15/2017 8:43:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	6/15/2017 8:43:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	6/15/2017 8:43:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	6/15/2017 8:43:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/15/2017 8:43:00 AM
Carbon tetrachloride	0.50	0.25		ug/m3	1	6/15/2017 8:43:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	6/15/2017 8:43:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	6/15/2017 8:43:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	6/15/2017 8:43:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	6/15/2017 8:43:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:43:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:43:00 AM
Cyclohexane	4.9 J	0.52		ug/m3	1	6/15/2017 8:43:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/15/2017 8:43:00 AM
Ethyl acetate	< 0.54	0.54		ug/m3	1	6/15/2017 8:43:00 AM
Ethylbenzene	0.96	0.65		ug/m3	1	6/15/2017 8:43:00 AM
Freon 11	1.5	0.84		ug/m3	1	6/15/2017 8:43:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	6/15/2017 8:43:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 29-Jun-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1706015
 Project: 690 ST PAUL St
 Lab ID: C1706015-008A

Client Sample ID: Rm 107 Dup
 Tag Number: 98.260
 Collection Date: 6/5/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	2.6	0.74		ug/m3	1	6/15/2017 8:43:00 AM
Heptane	9.1 J	0.61		ug/m3	1	6/15/2017 8:43:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/15/2017 8:43:00 AM
Hexane	< 0.53	0.53		ug/m3	1	6/15/2017 8:43:00 AM
Isopropyl alcohol	71	3.7		ug/m3	10	6/9/2017 5:45:00 AM
m&p-Xylene	1.9	1.3		ug/m3	1	6/15/2017 8:43:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:43:00 AM
Methyl Ethyl Ketone	4.5 J	0.88		ug/m3	1	6/15/2017 8:43:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/15/2017 8:43:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	6/15/2017 8:43:00 AM
Methylene chloride	3.5 J	0.52		ug/m3	1	6/15/2017 8:43:00 AM
o-Xylene	0.74	0.65		ug/m3	1	6/15/2017 8:43:00 AM
Propylene	< 0.26	0.26		ug/m3	1	6/15/2017 8:43:00 AM
Styrene	< 0.64	0.64		ug/m3	1	6/15/2017 8:43:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/15/2017 8:43:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	6/15/2017 8:43:00 AM
Toluene	4.4	0.57		ug/m3	1	6/15/2017 8:43:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	6/15/2017 8:43:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	6/15/2017 8:43:00 AM
Trichloroethene	1.2 J	0.21		ug/m3	1	6/15/2017 8:43:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	6/15/2017 8:43:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	6/15/2017 8:43:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	6/15/2017 8:43:00 AM

7/5/17

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Page 16 of 16

Date: 29-Jun-17



CENTEK LABORATORIES, LLC

QC SUMMARY REPORT SURROGATE RECOVERIES

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

Test No: TO-15

Matrix: A

Sample ID

BR4FBZ

ALCSIUG-060817	105	✓							
ALCSIUG-061417	103								
ALCSIUGD-060817	103								
AMBIUG-060817	90.0								
AMBIUG-061417	89.0								
C1706015-001A	95.0								
C1706015-002A	101								
C1706015-003A	95.0								
C1706015-003A MS	100								
C1706015-003A MSD	104								
C1706015-004A	89.0								
C1706015-005A	109								
C1706015-006A	93.0								
C1706015-007A	90.0								
C1706015-008A	94.0								

Acronym

BR4FBZ

Surrogate

= Bromofluorobenzene

QC Limits

70-130

80-120

* Surrogate recovery outside acceptance limits

Centek Laboratories, LLC

GC/MS QA-QC Check Report

June File : C:\HPCHEM\1\DATA\AO060802.D

June Time : 8 Jun 2017 10:30 am

Daily Calibration File : C:\HPCHEM\1\DATA\AO060802.D

			(BFB)	(IS1)	(IS2)	(IS3)
				31979	150528	131531
				19187	90317	78919
File	Sample	DL	Surrogate Recovery %	Internal	Standard	Responses
AO060803.D	ALCS1UG-060817	105		32591 ✓	146395 ✓	130206 ✓
AO060804.D	AMB1UG-060817	90		30410	138314	122233
AO060808.D	C1706015-001A	95		38757	169788	151036
AO060809.D	C1706015-002A	101		33329	158231	144429
AO060810.D	C1706015-003A	95		34887	165266	144676
AO060811.D	C1706015-003A MS	100		37468	172474	159996
AO060812.D	C1706015-003A MSD	104		37208	180798	162242
AO060818.D	ALCS1UGD-060817	103		34698	165595	140036
AO060823.D	C1706015-001A 10X	93		30329	132751	117033
AO060824.D	C1706015-002A 10X	95		30002	129802	113386
AO060825.D	C1706015-003A 10X	94		29079	130370	115691
AO060826.D	C1706015-004A 10X	91		29369	131274	119411
AO060827.D	C1706015-005A 10X	94		30499	133539	121291
AO060828.D	C1706015-006A 10X	93		30088	134990	118369
AO060829.D	C1706015-007A 10X	90		29644	127102	113196
AO060830.D	C1706015-008A 10X	93		29816	129103	111432
AO060831.D	C1706015-001A 90X	94		28904	128075	111157
AO060832.D	C1706015-005A 20X	92		29594	121669	112457

t - fails 24hr time check * - fails criteria

Created: Thu Jun 29 10:19:54 2017 MSD #1/

CCU RT	9.56	11.95	16.83
Limits	9.39-9.73	11.78-12.12	16.66-17.00
C1706015-1	9.59	11.97	16.84
C1706015-1 10X	9.58	11.97	16.84
C1706015-1 90X	9.58	11.96	16.84
C1706015-2	9.57	11.97	16.84
C1706015-2 10X	9.57	11.97	16.84
C1706015-3	9.58	11.97	16.84
C1706015-3 10X	9.57	11.97	16.85
C1706015-4 10X	9.58	11.97	16.84
C1706015-5 10X	9.57	11.97	16.85
C1706015-5 20X	9.57	11.95	16.84
C1706015-6 10X	9.59	11.97	16.84
C1706015-7 10X	9.57	11.97	16.84
C1706015-8 10X	9.58	11.97	16.84

Centek Laboratories, LLC

GC/MS QA-QC Check Report

June File : C:\HPCHEM\1\DATA\AO061402.D

June Time : 14 Jun 2017 10:38 am

Daily Calibration File : C:\HPCHEM\1\DATA\AO061402.D

				48213	226712	199646
(BFB)				(IS1)	(IS2)	(IS3)
				34438	161937	142604
				20663	97162	85562
File	Sample	DL Surrogate Recovery %	Internal Standard Responses			
AO061403.D	ALCS1UG-061417	103	34227	✓	157370	✓
AO061404.D	AMB1UG-061417	89	33182		143744	128923
AO061413.D	C1706015-004A	89	35433		151185	134973
AO061414.D	C1706015-005A	109	34791		152431	138941
AO061415.D	C1706015-006A	93	34843		156350	136513
AO061416.D	C1706015-007A	90	35122		150124	137895
AO061417.D	C1706015-008A	94	33509		158237	141533

t - fails 24hr time check * - fails criteria

Created: Thu Jun 29 10:31:11 2017 MSD #1/

CCV RT	9.57	11.96	16.84
LIMITS	9.40-9.74	11.79-12.13	16.67-17.01
C1706015-4	9.56	11.96	16.83
C1706015-5	9.57	11.96	16.83
C1706015-6	9.56	11.96	16.84
C1706015-7	9.56	11.96	16.84
C1706015-8	9.58	11.96	16.83

Date: 29-Jun-17

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-060817	SampType: LCS	Batch ID: R12341	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341				
Client ID: ZZZZZ				TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143981				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.090	0.15	1	0	109	70	130				
1,1,2,2-Tetrachloroethane	1.110	0.15	1	0	111	70	130				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	70	130				
1,1-Dichloroethane	1.070	0.15	1	0	107	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	1.160	0.15	1	0	116	70	130				
1,2,4-Trimethylbenzene	1.040	0.15	1	0	104	70	130				
1,2-Dibromoethane	1.050	0.15	1	0	105	70	130				
1,2-Dichlorobenzene	1.130	0.15	1	0	113	70	130				
1,2-Dichloroethane	1.060	0.15	1	0	106	70	130				
1,2-Dichloropropane	1.120	0.15	1	0	112	70	130				
1,3,5-Trimethylbenzene	1.070	0.15	1	0	107	70	130				
1,3-butadiene	0.9000	0.15	1	0	90.0	70	130				
1,3-Dichlorobenzene	1.110	0.15	1	0	111	70	130				
1,4-Dichlorobenzene	1.150	0.15	1	0	115	70	130				
1,4-Dioxane	0.9600	0.30	1	0	96.0	70	130				
2,2,4-trimethylpentane	1.100	0.15	1	0	110	70	130				
4-ethyltoluene	1.090	0.15	1	0	109	70	130				
Acetone	1.000	0.30	1	0	100	70	130				
Allyl chloride	1.040	0.15	1	0	104	70	130				
Benzene	1.060	0.15	1	0	106	70	130				
Benzyl chloride	1.230	0.15	1	0	123	70	130				
Bromodichloromethane	1.070	0.15	1	0	107	70	130				
Bromoform	1.030	0.15	1	0	103	70	130				
Bromomethane	0.7200	0.15	1	0	72.0	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-060817	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID: ZZZZZ		Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143981					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.040	0.15	1	0	104	70	130				
Carbon tetrachloride	1.100	0.040	1	0	110	70	130				
Chlorobenzene	1.060	0.15	1	0	106	70	130				
Chloroethane	0.8500	0.15	1	0	85.0	70	130				
Chloroform	1.080	0.15	1	0	108	70	130				
Chloromethane	1.040	0.15	1	0	104	70	130				
cis-1,2-Dichloroethene	1.070	0.15	1	0	107	70	130				
cis-1,3-Dichloropropene	1.120	0.15	1	0	112	70	130				
Cyclohexane	1.140	0.15	1	0	114	70	130				
Dibromochloromethane	1.060	0.15	1	0	106	70	130				
Ethyl acetate	1.070	0.15	1	0	107	70	130				
Ethylbenzene	1.070	0.15	1	0	107	70	130				
Freon 11	0.9900	0.15	1	0	99.0	70	130				
Freon 113	1.060	0.15	1	0	106	70	130				
Freon 114	0.8500	0.15	1	0	85.0	70	130				
Freon 12	0.9600	0.15	1	0	96.0	70	130				
Heptane	1.160	0.15	1	0	116	70	130				
Hexachloro-1,3-butadiene	1.070	0.15	1	0	107	70	130				
Hexane	1.080	0.15	1	0	108	70	130				
Isopropyl alcohol	0.9800	0.15	1	0	98.0	70	130				
m&p-Xylene	2.190	0.30	2	0	110	70	130				
Methyl Butyl Ketone	0.7500	0.30	1	0	75.0	70	130				
Methyl Ethyl Ketone	0.9300	0.30	1	0	93.0	70	130				
Methyl Isobutyl Ketone	0.7200	0.30	1	0	72.0	70	130				
Methyl tert-butyl ether	1.080	0.15	1	0	108	70	130				
Methylene chloride	1.060	0.15	1	0	106	70	130				
o-Xylene	1.070	0.15	1	0	107	70	130				
Propylene	1.120	0.15	1	0	112	70	130				
Styrene	1.090	0.15	1	0	109	70	130				
Tetrachloroethylene	1.060	0.15	1	0	106	70	130				
Tetrahydrofuran	0.9700	0.15	1	0	97.0	70	130				

Qualifiers: Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-060817	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 12341					
Client ID: ZZZZZ		Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143981					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.030	0.15	1	0	103	70	130				
trans-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
trans-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130				
Trichloroethene	1.020	0.040	1	0	102	70	130				
Vinyl acetate	1.050	0.15	1	0	105	70	130				
Vinyl Bromide	0.7900	0.15	1	0	79.0	70	130				
Vinyl chloride	0.8400	0.040	1	0	84.0	70	130				

Sample ID	ALCS1UG-061417	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143999					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9300	0.15	1	0	93.0	70	130				
1,1,2,2-Tetrachloroethane	1.140	0.15	1	0	114	70	130				
1,1,2-Trichloroethane	1.050	0.15	1	0	105	70	130				
1,1-Dichloroethane	1.110	0.15	1	0	111	70	130				
1,1-Dichloroethene	1.020	0.15	1	0	102	70	130				
1,2,4-Trichlorobenzene	1.030	0.15	1	0	103	70	130				
1,2,4-Trimethylbenzene	0.9900	0.15	1	0	99.0	70	130				
1,2-Dibromochloroethane	1.060	0.15	1	0	106	70	130				
1,2-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130				
1,2-Dichloroethane	1.020	0.15	1	0	102	70	130				
1,2-Dichloropropane	1.110	0.15	1	0	111	70	130				
1,3,5-Trimethylbenzene	1.000	0.15	1	0	100	70	130				
1,3-butadiene	0.9500	0.15	1	0	95.0	70	130				
1,3-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dioxane	1.030	0.30	1	0	103	70	130				
2,2,4-trimethylpentane	1.130	0.15	1	0	113	70	130				
4-ethyltoluene	1.060	0.15	1	0	106	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

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CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-061417	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143999					
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.120	0.30	1	0	112	70	130				
Allyl chloride	1.020	0.15	1	0	102	70	130				
Benzene	1.050	0.15	1	0	105	70	130				
Benzyl chloride	0.9600	0.15	1	0	96.0	70	130				
Bromodichloromethane	0.9400	0.15	1	0	94.0	70	130				
Bromoform	0.7600	0.15	1	0	76.0	70	130				
Bromomethane	0.7100	0.15	1	0	71.0	70	130				
Carbon disulfide	1.110	0.15	1	0	111	70	130				
Carbon tetrachloride	0.8400	0.040	1	0	84.0	70	130				
Chlorobenzene	1.000	0.15	1	0	100	70	130				
Chloroethane	0.8700	0.15	1	0	87.0	70	130				
Chloroform	1.030	0.15	1	0	103	70	130				
Chloromethane	1.090	0.15	1	0	109	70	130				
cis-1,2-Dichloroethene	1.060	0.15	1	0	106	70	130				
cis-1,3-Dichloropropene	1.040	0.15	1	0	104	70	130				
Cyclohexane	1.140	0.15	1	0	114	70	130				
Dibromochloromethane	0.8900	0.15	1	0	89.0	70	130				
Ethyl acetate	1.200	0.15	1	0	120	70	130				
Ethylbenzene	1.010	0.15	1	0	101	70	130				
Freon 11	1.050	0.15	1	0	105	70	130				
Freon 113	1.050	0.15	1	0	105	70	130				
Freon 114	1.090	0.15	1	0	109	70	130				
Freon 12	1.060	0.15	1	0	106	70	130				
Heptane	1.140	0.15	1	0	114	70	130				
Hexachloro-1,3-butadiene	0.9700	0.15	1	0	97.0	70	130				
Hexane	1.110	0.15	1	0	111	70	130				
Isopropyl alcohol	1.010	0.15	1	0	101	70	130				
m&p-Xylene	2.030	0.30	2	0	102	70	130				
Methyl Butyl Ketone	0.7600	0.30	1	0	76.0	70	130				
Methyl Ethyl Ketone	1.060	0.30	1	0	106	70	130				
Methyl Isobutyl Ketone	0.8300	0.30	1	0	83.0	70	130				

Qualifiers: Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-061417	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143999					
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.000	0.15	1	0	100	70	130				
Methylene chloride	1.100	0.15	1	0	110	70	130				
o-Xylene	0.9900	0.15	1	0	99.0	70	130				
Propylene	1.290	0.15	1	0	129	70	130				
Styrene	0.9700	0.15	1	0	97.0	70	130				
Tetrachloroethylene	0.9700	0.15	1	0	97.0	70	130				
Tetrahydrofuran	1.150	0.15	1	0	115	70	130				
Toluene	1.030	0.15	1	0	103	70	130				
trans-1,2-Dichloroethene	1.090	0.15	1	0	109	70	130				
trans-1,3-Dichloropropene	0.9500	0.15	1	0	95.0	70	130				
Trichloroethane	0.9700	0.040	1	0	97.0	70	130				
Vinyl acetate	1.010	0.15	1	0	101	70	130				
Vinyl Bromide	0.9300	0.15	1	0	93.0	70	130				
Vinyl chloride	0.9300	0.040	1	0	93.0	70	130				

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

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E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

Date: 29-Jun-17

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-060817	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID: ZZZZZ	Batch ID: R12341	TestNo: TO-15	Analysis Date: 6/8/2017	SeqNo: 143982							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.030	0.15	1	0	103	70	130	1.09	5.66	30	
1,1,2,2-Tetrachloroethane	1.080	0.15	1	0	108	70	130	1.11	2.74	30	
1,1,2-Trichloroethane	1.020	0.15	1	0	102	70	130	1.1	7.55	30	
1,1-Dichloroethane	1.130	0.15	1	0	113	70	130	1.07	5.45	30	
1,1-Dichloroethene	1.130	0.15	1	0	113	70	130	1.06	6.39	30	
1,2,4-Trichlorobenzene	1.110	0.15	1	0	111	70	130	1.16	4.41	30	
1,2,4-Trimethylbenzene	1.050	0.15	1	0	105	70	130	1.04	0.957	30	
1,2-Dibromoethane	1.070	0.15	1	0	107	70	130	1.05	1.89	30	
1,2-Dichlorobenzene	1.070	0.15	1	0	107	70	130	1.13	5.45	30	
1,2-Dichloroethane	1.080	0.15	1	0	108	70	130	1.06	1.87	30	
1,2-Dichloropropane	1.070	0.15	1	0	107	70	130	1.12	4.57	30	
1,3,5-Trimethylbenzene	1.050	0.15	1	0	105	70	130	1.07	1.89	30	
1,3-butadiene	0.9900	0.15	1	0	99.0	70	130	0.9	9.52	30	
1,3-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.11	4.61	30	
1,4-Dichlorobenzene	1.080	0.15	1	0	108	70	130	1.15	6.28	30	
1,4-Dioxane	0.9800	0.30	1	0	98.0	70	130	0.96	2.06	30	
2,2,4-trimethylpentane	1.100	0.15	1	0	110	70	130	1.1	0	30	
4-ethyltoluene	1.110	0.15	1	0	111	70	130	1.09	1.82	30	
Acetone	1.110	0.30	1	0	111	70	130	1	10.4	30	
Allyl chloride	1.190	0.15	1	0	119	70	130	1.04	13.5	30	
Benzene	1.080	0.15	1	0	108	70	130	1.06	1.87	30	
Benzyl chloride	1.040	0.15	1	0	104	70	130	1.23	16.7	30	
Bromodichloromethane	0.9900	0.15	1	0	99.0	70	130	1.07	7.77	30	
Bromoform	0.9800	0.15	1	0	98.0	70	130	1.03	4.98	30	
Bromomethane	1.100	0.15	1	0	110	70	130	0.72	41.8	30	R

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Page 1 of 3

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-060817	SampType:	LCSD	Batch ID:	R12341	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:	RunNo:	12341
Client ID:	ZZZZZ					TestNo:	TO-15			Analysis Date:	SeqNo:	143982
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual	
Carbon disulfide	1.140	0.15	1	0	114	70	130	1.04	9.17	30		
Carbon tetrachloride	0.9800	0.040	1	0	98.0	70	130	1.1	11.5	30		
Chlorobenzene	1.060	0.15	1	0	106	70	130	1.06	0	30		
Chloroethane	1.110	0.15	1	0	111	70	130	0.85	26.5	30		
Chloroform	1.080	0.15	1	0	108	70	130	1.08	0	30		
Chloromethane	1.130	0.15	1	0	113	70	130	1.04	8.29	30		
cis-1,2-Dichloroethene	1.130	0.15	1	0	113	70	130	1.07	5.45	30		
cis-1,3-Dichloropropene	1.090	0.15	1	0	109	70	130	1.12	2.71	30		
Cyclohexane	1.140	0.15	1	0	114	70	130	1.14	0	30		
Dibromochloromethane	1.010	0.15	1	0	101	70	130	1.06	4.83	30		
Ethyl acetate	1.130	0.15	1	0	113	70	130	1.07	5.45	30		
Ethylbenzene	1.100	0.15	1	0	110	70	130	1.07	2.76	30		
Freon 11	1.040	0.15	1	0	104	70	130	0.99	4.93	30		
Freon 113	1.120	0.15	1	0	112	70	130	1.06	5.50	30		
Freon 114	1.110	0.15	1	0	111	70	130	0.85	26.5	30		
Freon 12	1.120	0.15	1	0	112	70	130	0.96	15.4	30		
Heptane	1.100	0.15	1	0	110	70	130	1.16	5.31	30		
Hexachloro-1,3-butadiene	1.020	0.15	1	0	102	70	130	1.07	4.78	30		
Hexane	1.160	0.15	1	0	116	70	130	1.08	7.14	30		
Isopropyl alcohol	1.030	0.15	1	0	103	70	130	0.98	4.98	30		
m&p-Xylene	2.160	0.30	2	0	108	70	130	2.19	1.38	30		
Methyl Butyl Ketone	0.7400	0.30	1	0	74.0	70	130	0.75	1.34	30		
Methyl Ethyl Ketone	1.090	0.30	1	0	109	70	130	0.93	15.8	30		
Methyl Isobutyl Ketone	0.8600	0.30	1	0	86.0	70	130	0.72	17.7	30		
Methyl tert-butyl ether	1.130	0.15	1	0	113	70	130	1.08	4.52	30		
Methylene chloride	1.110	0.15	1	0	111	70	130	1.06	4.61	30		
o-Xylene	1.070	0.15	1	0	107	70	130	1.07	0	30		
Propylene	1.240	0.15	1	0	124	70	130	1.12	10.2	30		
Styrene	1.090	0.15	1	0	109	70	130	1.09	0	30		
Tetrachloroethylene	1.060	0.15	1	0	106	70	130	1.05	0.948	30		
Tetrahydrofuran	1.120	0.15	1	0	112	70	130	0.97	14.4	30		

Qualifiers: Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-060817	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID: ZZZZZ	Batch ID: R12341	TestNo: TO-15	Analysis Date: 6/8/2017			SeqNo: 143882					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.070	0.15	1	0	107	70	130	1.03	3.81	30	
trans-1,2-Dichloroethene	1.130	0.15	1	0	113	70	130	1.05	7.34	30	
trans-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Trichloroethene	1.050	0.040	1	0	105	70	130	1.02	2.90	30	
Vinyl acetate	1.120	0.15	1	0	112	70	130	1.05	6.45	30	
Vinyl Bromide	1.130	0.15	1	0	113	70	130	0.79	35.4	30	R
Vinyl chloride	1.100	0.040	1	0	110	70	130	0.84	26.8	30	

Qualifiers: Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

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Date: 29-Jun-17

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-060817	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID: ZZZZZ		Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143980					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL SI

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-060817	Sample Type	MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341				
Client ID:	ZZZZZ	Batch ID:	R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143980				
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	✓	0.15								
Carbon tetrachloride	< 0.040		0.040								
Chlorobenzene	< 0.15		0.15								
Chloroethane	< 0.15		0.15								
Chloroform	< 0.15		0.15								
Chloromethane	< 0.15		0.15								
cis-1,2-Dichloroethene	< 0.15		0.15								
cis-1,3-Dichloropropene	< 0.15		0.15								
Cyclohexane	< 0.15		0.15								
Dibromochloromethane	< 0.15		0.15								
Ethyl acetate	< 0.15		0.15								
Ethylbenzene	< 0.15		0.15								
Freon 11	< 0.15		0.15								
Freon 113	< 0.15		0.15								
Freon 114	< 0.15		0.15								
Freon 12	< 0.15		0.15								
Heptane	< 0.15		0.15								
Hexachloro-1,3-butadiene	< 0.15		0.15								
Hexane	< 0.15		0.15								
Isopropyl alcohol	< 0.15		0.15								
m&p-Xylene	< 0.30		0.30								
Methyl Butyl Ketone	< 0.30		0.30								
Methyl Ethyl Ketone	< 0.30		0.30								
Methyl Isobutyl Ketone	< 0.30		0.30								
Methyl tert-butyl ether	< 0.15		0.15								
Methylene chloride	< 0.15		0.15								
o-Xylene	< 0.15		0.15								
Propylene	< 0.15		0.15								
Styrene	< 0.15		0.15								
Tetrachloroethylene	< 0.15		0.15								
Tetrahydrofuran	< 0.15		0.15								

Qualifiers: Results reported are not blank corrected
 J Analyte detected below quantization limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL ST

TestCode: 0.25CT-TCE-VC

Sample ID	AMB11UG-060817	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID:	ZZZZZ	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143980					
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	< 0.15	✓	0.15								
trans-1,2-Dichloroethene	< 0.15		0.15								
trans-1,3-Dichloropropene	< 0.15		0.15								
Trichloroethene	< 0.040		0.040								
Vinyl acetate	< 0.15		0.15								
Vinyl Bromide	< 0.15		0.15								
Vinyl chloride	< 0.040		0.040								

Sample ID	AMB1UG-061417	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143998					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	< 0.15	✓	0.15								
1,1,2,2-Tetrachloroethane	< 0.15		0.15								
1,1,2-Trichloroethane	< 0.15		0.15								
1,1-Dichloroethane	< 0.15		0.15								
1,1-Dichloroethene	< 0.15		0.15								
1,2,4-Trichlorobenzene	< 0.15		0.15								
1,2,4-Trimethylbenzene	< 0.15		0.15								
1,2-Dibromoethane	< 0.15		0.15								
1,2-Dichlorobenzene	< 0.15		0.15								
1,2-Dichloroethane	< 0.15		0.15								
1,2-Dichloropropane	< 0.15		0.15								
1,3,5-Trimethylbenzene	< 0.15		0.15								
1,3-butadiene	< 0.15		0.15								
1,3-Dichlorobenzene	< 0.15		0.15								
1,4-Dichlorobenzene	< 0.15		0.15								
1,4-Dioxane	< 0.30		0.30								
2,2,4-trimethylpentane	< 0.15		0.15								
4-ethyltoluene	< 0.15		0.15								

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL ST

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-061417	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143998					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL ST

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-061417	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12342					
Client ID:	ZZZZZ	Batch ID: R12342	TestNo: TO-15		Analysis Date: 6/14/2017	SeqNo: 143998					
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 E Estimated Value above quantitation range
 N/D Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

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Date: 29-Jun-17

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1706015

Project: 690 ST PAUL ST

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	SampType: MS	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 12341					
Client ID:	Rm 112 +MS/MSD	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143986					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.030	0.15	1	0	103	70	130				
1,1,2,2-Tetrachloroethane	1.030	0.15	1	0	103	70	130				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	70	130				
1,1-Dichloroethane	1.170	0.15	1	0	117	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	1.320	0.15	1	0	132	70	130				
1,2,4-Trimethylbenzene	1.190	0.15	1	0.16	103	70	130				
1,2-Dibromoethane	1.070	0.15	1	0	107	70	130				
1,2-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.190	0.15	1	0	119	70	130				
1,3,5-Trimethylbenzene	1.030	0.15	1	0	103	70	130				
1,3-butadiene	1.100	0.15	1	0	110	70	130				
1,3-Dichlorobenzene	1.020	0.15	1	0	102	70	130				
1,4-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,4-Dioxane	6.800	0.30	1	1.4	540	70	130				
2,2,4-trimethylpentane	17.53	0.15	1	4.17	1350	70	130				
4-ethyltoluene	1.150	0.15	1	0	115	70	130				
Acetone	18.18	0.30	1	17.3	88.0	70	130				
Allyl chloride	1.160	0.15	1	0	116	70	130				
Benzene	3.110	0.15	1	0.88	223	70	130				
Benzyl chloride	0.9900	0.15	1	0	99.0	70	130				
Bromodichloromethane	2.010	0.15	1	0	201	70	130				
Bromoforn	0.9000	0.15	1	0	90.0	70	130				
Bromomethane	1.110	0.15	1	0	111	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Page 1 of 5

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL ST

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	MS	Batch ID	R12341	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341			
Client ID:	Rm 112 +MS/MSD	MS	Batch ID:	R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143986			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPO Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.120	0.15	1	0	112	70	130				S
Carbon tetrachloride	1.050	0.040	1	0.09	96.0	70	130				
Chlorobenzene	1.080	0.15	1	0	108	70	130				
Chloroethane	1.030	0.15	1	0	103	70	130				
Chloroform	1.130	0.15	1	0	113	70	130				
Chloromethane	1.820	0.15	1	0	182	70	130				
cis-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
cis-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Cyclohexane	5.700	0.15	1	1.71	399	70	130				S
Dibromochloromethane	0.9700	0.15	1	0	97.0	70	130				
Ethyl acetate	8.800	0.15	1	0	880	70	130				S
Ethylbenzene	1.310	0.15	1	0.15	116	70	130				
Freon 11	1.250	0.15	1	0.25	100	70	130				
Freon 113	1.120	0.15	1	0	112	70	130				
Freon 114	1.060	0.15	1	0	106	70	130				
Freon 12	1.400	0.15	1	0.53	87.0	70	130				
Hoplane	9.210	0.15	1	2.44	677	70	130				S
Hexachloro-1,3-butadiene	1.090	0.15	1	0	109	70	130				
Hexane	26.94	0.15	1	8.54	1840	70	130				S
Isopropyl alcohol	25.61	0.15	1	26.74	-113	70	130				S
m&p-Xylene	2.420	0.30	2	0.32	105	70	130				S
Methyl Butyl Ketone	2.300	0.30	1	0	230	70	130				S
Methyl Ethyl Ketone	1.560	0.30	1	0.66	90.0	70	130				
Methyl Isobutyl Ketone	1.270	0.30	1	0	127	70	130				
Methyl tert-butyl ether	1.180	0.15	1	0	118	70	130				
Methylene chloride	1.590	0.15	1	0.49	110	70	130				
o-Xylene	1.130	0.15	1	0.13	100	70	130				
Propylene	6.160	0.15	1	0	616	70	130				S
Styrene	1.110	0.15	1	0	111	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	1.150	0.15	1	0	115	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	SampType:	MS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:	RunNo:	12341	
Client ID:	Rm 112 +MS/MSD	Batch ID:	R12341	TestNo:	TO-15			Analysis Date:	SeqNo:	143985	
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.900	0.15	1	0.84	106	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.110	0.15	1	0	111	70	130				
Trichloroethene	1.150	0.040	1	0	115	70	130				
Vinyl acetate	27.17	0.15	1	0	2720	70	130				S
Vinyl Bromide	1.110	0.15	1	0	111	70	130				
Vinyl chloride	1.030	0.040	1	0	103	70	130				

Sample ID	C1706015-003A MS	SampType: MSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID:	Rm 112 +MS/MSD	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143987					
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9700	0.15	1	0	97.0	70	130	1.03	6.00	30	
1,1,2,2-Tetrachloroethane	1.050	0.15	1	0	105	70	130	1.03	1.92	30	
1,1,2-Trichloroethane	1.060	0.15	1	0	106	70	130	1.1	3.70	30	
1,1-Dichloroethane	1.190	0.15	1	0	119	70	130	1.17	1.69	30	
1,1-Dichloroethene	1.130	0.15	1	0	113	70	130	1.08	6.39	30	
1,2,4-Trichlorobenzene	1.360	0.15	1	0	136	70	130	1.32	2.99	30	S
1,2,4-Trimethylbenzene	1.170	0.15	1	0.16	101	70	130	1.19	1.69	30	
1,2-Dibromoethane	1.070	0.15	1	0	107	70	130	1.07	0	30	
1,2-Dichlorobenzene	1.070	0.15	1	0	107	70	130	1.01	5.77	30	
1,2-Dichloroethane	1.200	0.15	1	0	120	70	130	1.19	0.837	30	
1,2-Dichloropropane	1.150	0.15	1	0	115	70	130	1.19	3.42	30	
1,3,5-Trimethylbenzene	1.010	0.15	1	0	101	70	130	1.03	1.96	30	
1,3-butadiene	1.110	0.15	1	0	111	70	130	1.1	0.905	30	
1,3-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.02	3.85	30	
1,4-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.07	0.939	30	
1,4-Dioxane	8.130	0.30	1	1.4	673	70	130	6.8	17.8	30	S
2,2,4-trimethylpentane	21.80	0.15	1	4.17	1760	70	130	17.63	21.2	30	S
4-ethyltoluene	1.140	0.15	1	0	114	70	130	1.15	0.873	30	

Qualifiers: , Results reported are not blank corrected
 J Analyte detected below quantization limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantization range
 ND Not Detected at the Limit of Detection

H Folding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	MSD	Batch ID:	R12341	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341			
Client ID:	Rm 112 +MS/MSD	MSD	Batch ID:	R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143987			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	13.48	0.30	1	17.3	-382	70	130	18.18	29.7	30	S
Allyl chloride	1.290	0.15	1	0	129	70	130	1.16	10.6	30	S
Benzene	3.170	0.15	1	0.88	229	70	130	3.11	1.91	30	S
Benzyl chloride	1.080	0.15	1	0	108	70	130	0.99	8.70	30	S
Bromodichloromethane	2.150	0.15	1	0	215	70	130	2.01	6.73	30	S
Bromoform	0.9100	0.15	1	0	91.0	70	130	0.9	1.10	30	S
Bromomethane	1.050	0.15	1	0	105	70	130	1.11	5.56	30	S
Carbon disulfide	1.160	0.15	1	0	116	70	130	1.12	3.51	30	S
Carbon tetrachloride	0.9900	0.040	1	0.09	90.0	70	130	1.05	5.88	30	S
Chlorobenzene	1.080	0.15	1	0	108	70	130	1.08	0	30	S
Chloroethane	1.040	0.15	1	0	104	70	130	1.03	0.966	30	S
Chloroform	1.120	0.15	1	0	112	70	130	1.13	0.889	30	S
Chloromethane	1.530	0.15	1	0	153	70	130	1.82	17.3	30	S
cis-1,2-Dichloroethene	1.170	0.15	1	0	117	70	130	1.11	5.26	30	S
cis-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130	1.13	0	30	S
Cyclohexane	6.030	0.15	1	1.71	432	70	130	5.7	5.63	30	S
Dibromochloromethane	0.9600	0.15	1	0	96.0	70	130	0.97	1.04	30	S
Ethyl acetate	10.01	0.15	1	0	1000	70	130	8.8	12.9	30	S
Ethylbenzene	1.370	0.15	1	0.15	122	70	130	1.31	4.48	30	S
Freon 11	1.170	0.15	1	0.25	92.0	70	130	1.25	6.61	30	S
Freon 113	1.140	0.15	1	0	114	70	130	1.12	1.77	30	S
Freon 114	1.100	0.15	1	0	110	70	130	1.06	3.70	30	S
Freon 12	1.340	0.15	1	0.53	81.0	70	130	1.4	4.38	30	S
Heptane	10.66	0.15	1	2.44	822	70	130	9.21	14.6	30	S
Hexachloro-1,3-butadiene	1.110	0.15	1	0	111	70	130	1.09	1.82	30	S
Hexane	31.79	0.15	1	8.54	2320	70	130	26.94	16.5	30	S
Isopropyl alcohol	17.91	0.15	1	26.74	-883	70	130	25.61	35.4	30	SR
m&p-Xylene	2.380	0.30	2	0.32	103	70	130	2.42	1.57	30	S
Methyl Butyl Ketone	3.090	0.30	1	0	309	70	130	2.3	29.3	30	S
Methyl Ethyl Ketone	1.490	0.30	1	0.66	83.0	70	130	1.56	4.59	30	S
Methyl Isobutyl Ketone	1.400	0.30	1	0	140	70	130	1.27	9.74	30	S

Qualifiers: . Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 MD Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1706015
 Project: 690 ST PAUL St

TestCode: 0.25CT-TCE-VC

Sample ID	C1706015-003A MS	SampType: MSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12341					
Client ID:	Rm 112 +MS/MSD	Batch ID: R12341	TestNo: TO-15		Analysis Date: 6/8/2017	SeqNo: 143987					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.210	0.15	1	0	121	70	130	1.18	2.51	30	
Methylene chloride	1.750	0.15	1	0.49	126	70	130	1.59	9.58	30	
o-Xylene	1.120	0.15	1	0.13	99.0	70	130	1.13	0.889	30	
Propylene	1.430	0.15	1	0	143	70	130	6.16	125	30	SR
Styrene	1.090	0.15	1	0	109	70	130	1.11	1.82	30	
Tetrachloroethylene	1.050	0.15	1	0	105	70	130	1.05	0	30	
Tetrahydrofuran	1.280	0.15	1	0	128	70	130	1.15	10.7	30	
Toluene	1.620	0.15	1	0.84	78.0	70	130	1.9	15.9	30	
trans-1,2-Dichloroethene	1.150	0.15	1	0	115	70	130	1.1	4.44	30	
trans-1,3-Dichloropropene	1.070	0.15	1	0	107	70	130	1.11	3.67	30	
Trichloroethene	1.100	0.040	1	0	110	70	130	1.15	4.44	30	
Vinyl acetate	32.84	0.15	1	0	3280	70	130	27.17	18.9	30	S
Vinyl Bromide	1.140	0.15	1	0	114	70	130	1.11	2.67	30	
Vinyl chloride	1.100	0.040	1	0	110	70	130	1.03	6.57	30	

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Page 5 of 5

DATA USABILITY SUMMARY REPORT

for

LaBella Associates, P.C.

300 State Street

Rochester, NY 14614

690 ST PAUL SITE

Project 209280

SDG: C1704061

Sampled 4/18/2017

TO-15 AIR SAMPLES

RM 134	(C1704061-01)	RM 107	(C1704061-02)
Stairwell	(C1704061-03)	RM 117	(C1704061-04)
Duplicate	(C1704061-05)	Roof	(C1704061-06)
Elevator	(C1704061-07)	Area In	(C1704061-08)
Outdoor	(C1704061-09)	Bldg 16	(C1704061-10)

DATA ASSESSMEN

A TO-15 data package containing analytical results for ten air samples was received from LaBella Associates, P.C. on 30May17. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the 690 St. Paul Site, were identified by Chain of Custody documents and traceable through the work of Centek Laboratories, LLC, the laboratory contracted for analysis. The analyses were performed using US EPA Method TO-15 and addressed measurements of sixty-three volatile organic compounds. It is noted that AREA IN, OUTDOOR and BLDG 16 were only analyzed for six targeted analytes. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-31, Rev. #4, October 2006, Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15) was used as a technical reference.

The results reported from RM 107, OUTDOOR and BLDG 16 have been qualified as estimations because the samples were not collected properly.

The acetone, methylene chloride and methyl ethyl ketone concentrations found in this delivery group have been qualified as estimations because they may represent laboratory artifacts.

The 2-butanone, methyl butyl ketone and methyl isobutyl ketone results from RM 107 have been qualified as estimations due to unacceptable spiked sample recoveries. The cis-1,2-dichloroethene, isopropyl alcohol and trichloroethene results have been rejected.

The methyl butyl ketone results from this group of samples have been qualified as estimations due to a low spiked sample (LCS) recovery.

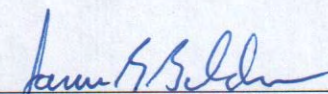
CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Rejected data should not be included in data tables. Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL, Inc.

Date: 03 Jun 17

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the date of sampling. TO-15 samples must be analyzed within 14 days of collection.

This sample delivery group contained ten air samples that were collected in 1-liter SUMMA canisters. It is noted that RM 107 was collected in a 1.4-liter canister to facilitate the preparation of MS/MSD samples. Sampling was completed on 18Apr17. The canisters were shipped back to the laboratory, via FedEx, on 19Apr17 and were received the following morning. Although the sample canisters were received intact, custody seals were not present on the packaging.

Each SUMMA canister was set in the laboratory to collect an 8-hour sample. Sampling was terminated, however, after between 6 hours and 10 minutes and 7 hours and 45 minutes based on the canister vacuum gauge readings. At the termination of sampling the vacuum measurements from several canisters failed to satisfy the ASP requirement of 5 ± 1 "Hg. The results reported from RM 107, OUTDOOR and BLDG 16 have been qualified as estimations because they produced readings outside of a range of 5 ± 2 "Hg.

SAMPLE	PRIOR TO SHIPMENT ("Hg)	PRIOR TO SAMPLING ("Hg)	POST SAMPLING ("Hg)	LAB ANALYSIS ("Hg)
RM 134	-30	-30	-6.5	-5
RM 107	-30	-30	-10	-9
STAIRWELL	-30	-30	-5	-2
RM 117	-30	-30	-5	-4
DUPLICATE	-30	-30	-5	-4
ROOF	-30	-30	-3	-2
ELEVATOR	-30	-30	-4	-6
AREA IN	-30	-27	-6	-7
OUTDOOR	-30	-30	-9	-6
BLDG 16	-30	-29	-9	-13

The discrepancies between vacuum readings recorded following sampling and prior to analysis are assumed to reflect the quality of the cylinder vacuum gauges.

The analysis of this group of samples was completed between 26Apr17 and 28Apr17, satisfying the ASP holding time limitation.

CANISTER CERTIFICATION

The canisters used for this project were pressure tested at 30 psig for 24 hours. Each canister demonstrated a change ≤ 0.5 psig over this period.

The canisters for this project were cleaned in four batches. A blank analysis of a clean canister from each of these batches was free of targeted analyte contamination.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Trip Blanks monitor sampling activities, sample transport, and storage. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Three method blanks were analyzed with this group of samples. Each of these blanks demonstrated acceptable chromatography and was free of targeted analyte contamination.

Although not detected in the method blanks, acetone, methylene chloride and methyl ethyl ketone were found in every sample. These concentrations have been qualified as estimations because acetone, methylene chloride and methyl ethyl ketone are frequently present as laboratory artifacts. Acetone, methylene chloride (METH CL), and methyl ethyl ketone (MEK) could not be removed from sample reports because they were not found in the associated method blanks.

MS TUNING

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

BFB ion abundance criteria was reported from standards analyzed prior to both initial instrument calibrations and before each analysis sequence that included samples from this program. Each of these checks satisfied the ASP acceptance criteria.

CALIBRATION

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

Initial instrument calibrations were performed on 17Apr17 and 26Apr17. Standards of 0.04, 0.10, 0.15, 0.30, 0.50, 0.75, 1.0, 1.25, 1.50 and 2.0 ppbV were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during both of these calibrations.

Continuing calibration check standards were analyzed on 25Apr17 and 27Apr17, prior to the 24-hour periods of instrument operation that included samples from this program. When compared to the initial calibrations, each targeted analyte demonstrated an acceptable level of instrument stability during both checks. It is noted that the analysis of RM 134, RM 107, STAIRWELL, RM 117,

DUPLICATE, ROOF and ELEVATOR immediately followed the 26Apr17 initial calibration. A calibration check standard was not required prior to the analysis of these samples.

SURROGATES

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Although surrogate summary sheets were properly prepared, an incorrect acceptance criteria was applied. However, when compared to the ASP requirements, acceptable surrogate recoveries were reported for each addition to this group of samples.

INTERNAL STANDARDS

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than 40%. When compared to the preceding calibration check, retention times may not vary by more than 10 seconds.

The laboratory recorded the response of each internal standard addition to this group of samples, and the response obtained from the preceding CCV standard. Although the control limits based on the response of the CCV were not reported, they were calculated by this reviewer. When compared to these limits, acceptable performance was reported for the internal standard additions to each program sample.

Internal standard retention times were not addressed. The ASP retention time acceptance criteria was calculated by this reviewer. The retention times produced by each program sample satisfied these requirements.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

RM 107 was selected for matrix spiking. The entire list of targeted analytes was added to two volumes of this sample. The recoveries reported for these additions included unacceptable results for cis-1,2-dichloroethene (-1%,-74%), isopropyl alcohol (-34%,-27%), 2-butanone (56%,53%), trichloroethene (7.0%,-50%), methyl isobutyl ketone (34%) and methyl butyl ketone (14%). Based on these indications of negative bias, the 2-butanone, methyl isobutyl ketone and methyl butyl ketone results from RM 107 have been qualified as estimations. The cis-1,2-dichloro-

ethene, isopropyl alcohol and trichloroethene results have been rejected.

Three spiked blanks (LCS, LCS/LCSD) were also analyzed with this group of samples. The recoveries reported from these spiked blanks included a low recovery of methyl butyl ketone (38%). The methyl butyl ketone results from this group of samples have been qualified as estimations based on this performance.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

RM 117 was sampled as a pair of field split duplicates. The concentrations reported from this pair of samples demonstrated a excellent level of measurement precision. A measurement of Relative Percent Difference (RPD) was calculated for fifteen analytes that were found in these samples. Each produced an RPD<33%, and eleven of the fifteen produced a RPD<10%. The program requirement was satisfied.

REPORTED ANALYTES

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print-outs. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples.

SUMMARY OF QUALIFIED DATA

690 ST PAUL SITE

SAMPLED APRIL 2017

	SAMPLING	BLANK ACETONE	BLANKS METHCL	BLANK MEK	SPIKES MS1*	SPIKES MS2*	SPK BLK MBK
RM 134	(C1704061-01)	22J	1.1J	1.2J			1.2UJ
RM 107	(C1704061-02)	15J	1.1J	1.4J	ALL J/UJ	REJECT	1.2UJ
Stairwell	(C1704061-03)	14J	0.73J	1.1J			1.2UJ
RM 117	(C1704061-04)	28J	0.63J	1.4J			1.2UJ
Duplicate	(C1704061-05)	20J	0.52J	1.5J			0.49J
Roof	(C1704061-06)	17J	0.56J	0.56J			0.74J
Elevator	(C1704061-07)	18J	1.2J	1.6J			0.74J
Area In	(C1704061-08)						
Outdoor	(C1704061-09)						
Bldg 16	(C1704061-10)						

MS1* = 2-butanone, methyl isobutyl ketone, methyl butyl ketone
 MS2* = cis-1,2-dichloroethene, isopropyl alcohol, trichloroethene

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-001A

Client Sample ID: Rm 134
 Tag Number: 95,278
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 4:34:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/27/2017 4:34:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 4:34:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 4:34:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 4:34:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/27/2017 4:34:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/27/2017 4:34:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/27/2017 4:34:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 4:34:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 4:34:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/27/2017 4:34:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/27/2017 4:34:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/27/2017 4:34:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 4:34:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 4:34:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/27/2017 4:34:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/27/2017 4:34:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/27/2017 4:34:00 AM
Acetone -	22 J	14		ug/m3	20	4/27/2017 5:12:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/27/2017 4:34:00 AM
Benzene -	0.38	0.48	J	ug/m3	1	4/27/2017 4:34:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/27/2017 4:34:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/27/2017 4:34:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	4/27/2017 4:34:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	4/27/2017 4:34:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/27/2017 4:34:00 AM
Carbon tetrachloride -	0.38	0.25		ug/m3	1	4/27/2017 4:34:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/27/2017 4:34:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/27/2017 4:34:00 AM
Chloroform -	0.83	0.73		ug/m3	1	4/27/2017 4:34:00 AM
Chloromethane -	1.1	0.31		ug/m3	1	4/27/2017 4:34:00 AM
cis-1,2-Dichloroethene -	1.0	0.59		ug/m3	1	4/27/2017 4:34:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 4:34:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	4/27/2017 4:34:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/27/2017 4:34:00 AM
Ethyl acetate -	0.47	0.54	J	ug/m3	1	4/27/2017 4:34:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/27/2017 4:34:00 AM
Freon 11 -	1.1	0.84		ug/m3	1	4/27/2017 4:34:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	4/27/2017 4:34:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	4/27/2017 4:34:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-001A

Client Sample ID: Rm 134
 Tag Number: 95,278
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12 -	1.9	0.74		ug/m3	1	4/27/2017 4:34:00 AM
Heptane -	1.8	0.61		ug/m3	1	4/27/2017 4:34:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/27/2017 4:34:00 AM
Hexane -	0.39	0.53	J	ug/m3	1	4/27/2017 4:34:00 AM
Isopropyl alcohol -	7.4	7.4		ug/m3	20	4/27/2017 5:12:00 AM
m&p-Xylene -	0.74	1.3	J	ug/m3	1	4/27/2017 4:34:00 AM
Methyl Butyl Ketone	< 1.2 <i>UJ</i>	1.2		ug/m3	1	4/27/2017 4:34:00 AM
Methyl Ethyl Ketone -	1.2 <i>J</i>	0.88		ug/m3	1	4/27/2017 4:34:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/27/2017 4:34:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/27/2017 4:34:00 AM
Methylene chloride -	1.1 <i>J</i>	0.52		ug/m3	1	4/27/2017 4:34:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	4/27/2017 4:34:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/27/2017 4:34:00 AM
Styrene	< 0.64	0.64		ug/m3	1	4/27/2017 4:34:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/27/2017 4:34:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/27/2017 4:34:00 AM
Toluene -	1.0	0.57		ug/m3	1	4/27/2017 4:34:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 4:34:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 4:34:00 AM
Trichloroethene -	1.1	0.21		ug/m3	1	4/27/2017 4:34:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/27/2017 4:34:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/27/2017 4:34:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/27/2017 4:34:00 AM

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Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-002A

Client Sample ID: Rm 107
 Tag Number: 483,721
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 5:55:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/27/2017 5:55:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 5:55:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 5:55:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 5:55:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/27/2017 5:55:00 AM
1,2,4-Trimethylbenzene	0.88	0.74		ug/m3	1	4/27/2017 5:55:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/27/2017 5:55:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 5:55:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 5:55:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/27/2017 5:55:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/27/2017 5:55:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/27/2017 5:55:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 5:55:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 5:55:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/27/2017 5:55:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/27/2017 5:55:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/27/2017 5:55:00 AM
Acetone	15	14		ug/m3	20	4/27/2017 8:05:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/27/2017 5:55:00 AM
Benzene	0.42	0.48	J	ug/m3	1	4/27/2017 5:55:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/27/2017 5:55:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/27/2017 5:55:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	4/27/2017 5:55:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	4/27/2017 5:55:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/27/2017 5:55:00 AM
Carbon tetrachloride	0.38	0.25		ug/m3	1	4/27/2017 5:55:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/27/2017 5:55:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/27/2017 5:55:00 AM
Chloroform	2.1	0.73		ug/m3	1	4/27/2017 5:55:00 AM
Chloromethane	1.5	0.31		ug/m3	1	4/27/2017 5:55:00 AM
cis-1,2-Dichloroethene	13	12		ug/m3	20	4/27/2017 8:05:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 5:55:00 AM
Cyclohexane	0.38	0.52	J	ug/m3	1	4/27/2017 5:55:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/27/2017 5:55:00 AM
Ethyl acetate	0.47	0.54	J	ug/m3	1	4/27/2017 5:55:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/27/2017 5:55:00 AM
Freon 11	1.1	0.84		ug/m3	1	4/27/2017 5:55:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	4/27/2017 5:55:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	4/27/2017 5:55:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-002A

Client Sample ID: Rm 107
 Tag Number: 483,721
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	1.9 J	0.74		ug/m3	1	4/27/2017 5:55:00 AM
Heptane	< 0.61 J	0.61		ug/m3	1	4/27/2017 5:55:00 AM
Hexachloro-1,3-butadiene	< 1.6 J	1.6		ug/m3	1	4/27/2017 5:55:00 AM
Hexane	0.49 J	0.53	J	ug/m3	1	4/27/2017 5:55:00 AM
Isopropyl alcohol	1.3 R	7.4		ug/m3	20	4/27/2017 8:05:00 AM
m&p-Xylene	0.78 J	1.3	J	ug/m3	1	4/27/2017 5:55:00 AM
Methyl Butyl Ketone	< 1.2 J	1.2		ug/m3	1	4/27/2017 5:55:00 AM
Methyl Ethyl Ketone	1.4 J	0.88		ug/m3	1	4/27/2017 5:55:00 AM
Methyl Isobutyl Ketone	< 1.2 J	1.2		ug/m3	1	4/27/2017 5:55:00 AM
Methyl tert-butyl ether	< 0.54 J	0.54		ug/m3	1	4/27/2017 5:55:00 AM
Methylene chloride	1.1 J	0.52		ug/m3	1	4/27/2017 5:55:00 AM
o-Xylene	< 0.65 J	0.65		ug/m3	1	4/27/2017 5:55:00 AM
Propylene	< 0.26 J	0.26		ug/m3	1	4/27/2017 5:55:00 AM
Styrene	< 0.64 J	0.64		ug/m3	1	4/27/2017 5:55:00 AM
Tetrachloroethylene	< 1.0 J	1.0		ug/m3	1	4/27/2017 5:55:00 AM
Tetrahydrofuran	0.38 J	0.44	J	ug/m3	1	4/27/2017 5:55:00 AM
Toluene	1.2 J	0.57		ug/m3	1	4/27/2017 5:55:00 AM
trans-1,2-Dichloroethene	< 0.59 J	0.59		ug/m3	1	4/27/2017 5:55:00 AM
trans-1,3-Dichloropropane	< 0.68 J	0.68		ug/m3	1	4/27/2017 5:55:00 AM
Trichloroethene	1.4 R	4.3		ug/m3	20	4/27/2017 8:05:00 AM
Vinyl acetate	< 0.53 J	0.53		ug/m3	1	4/27/2017 5:55:00 AM
Vinyl Bromide	< 0.66 J	0.66		ug/m3	1	4/27/2017 5:55:00 AM
Vinyl chloride	0.69 J	0.10		ug/m3	1	4/27/2017 5:55:00 AM

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Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-003A

Client Sample ID: Stairwell
 Tag Number: 226,251
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 8:45:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/27/2017 8:45:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 8:45:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 8:45:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 8:45:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/27/2017 8:45:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/27/2017 8:45:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/27/2017 8:45:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 8:45:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 8:45:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/27/2017 8:45:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/27/2017 8:45:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/27/2017 8:45:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 8:45:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 8:45:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/27/2017 8:45:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/27/2017 8:45:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/27/2017 8:45:00 AM
Acetone -	14 J	14		ug/m3	20	4/27/2017 9:21:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/27/2017 8:45:00 AM
Benzene -	0.54	0.48		ug/m3	1	4/27/2017 8:45:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/27/2017 8:45:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/27/2017 8:45:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	4/27/2017 8:45:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	4/27/2017 8:45:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/27/2017 8:45:00 AM
Carbon tetrachloride -	0.50	0.25		ug/m3	1	4/27/2017 8:45:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/27/2017 8:45:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/27/2017 8:45:00 AM
Chloroform -	2.3	0.73		ug/m3	1	4/27/2017 8:45:00 AM
Chloromethane -	1.6	0.31		ug/m3	1	4/27/2017 8:45:00 AM
cis-1,2-Dichloroethene -	19	12		ug/m3	20	4/27/2017 9:21:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 8:45:00 AM
Cyclohexane -	0.38	0.52 J		ug/m3	1	4/27/2017 8:45:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/27/2017 8:45:00 AM
Ethyl acetate -	0.47	0.54 J		ug/m3	1	4/27/2017 8:45:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/27/2017 8:45:00 AM
Freon 11 -	1.2	0.84		ug/m3	1	4/27/2017 8:45:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	4/27/2017 8:45:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	4/27/2017 8:45:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-003A

Client Sample ID: Stairwell
 Tag Number: 226,251
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12 -	2.1	0.74		ug/m3	1	4/27/2017 8:45:00 AM
Heptane	< 0.61	0.61		ug/m3	1	4/27/2017 8:45:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/27/2017 8:45:00 AM
Hexane -	0.46	0.53	J	ug/m3	1	4/27/2017 8:45:00 AM
Isopropyl alcohol -	4.4	0.37		ug/m3	1	4/27/2017 8:45:00 AM
m&p-Xylene -	0.96	1.3	J	ug/m3	1	4/27/2017 8:45:00 AM
Methyl Butyl Ketone	< 1.2 J	1.2		ug/m3	1	4/27/2017 8:45:00 AM
Methyl Ethyl Ketone -	1.1 J	0.88		ug/m3	1	4/27/2017 8:45:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/27/2017 8:45:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/27/2017 8:45:00 AM
Methylene chloride -	0.73 J	0.52		ug/m3	1	4/27/2017 8:45:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	4/27/2017 8:45:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/27/2017 8:45:00 AM
Styrene	< 0.64	0.64		ug/m3	1	4/27/2017 8:45:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/27/2017 8:45:00 AM
Tetrahydrofuran -	0.35	0.44	J	ug/m3	1	4/27/2017 8:45:00 AM
Toluene -	1.4	0.57		ug/m3	1	4/27/2017 8:45:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 8:45:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 8:45:00 AM
Trichloroethene -	19	4.3		ug/m3	20	4/27/2017 9:21:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/27/2017 8:45:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/27/2017 8:45:00 AM
Vinyl chloride -	1.2	0.10		ug/m3	1	4/27/2017 8:45:00 AM

Qualifiers:	** Quantitation Limit	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
	JN Non-routine analyte, Quantitation estimated.	ND Not Detected at the Limit of Detection
	S Spike Recovery outside accepted recovery limits	

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-004A

Client Sample ID: Rm 117 DUP
 Tag Number: 357,436
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 10:02:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/27/2017 10:02:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 10:02:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 10:02:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 10:02:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/27/2017 10:02:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/27/2017 10:02:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/27/2017 10:02:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 10:02:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 10:02:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/27/2017 10:02:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/27/2017 10:02:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/27/2017 10:02:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 10:02:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 10:02:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/27/2017 10:02:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/27/2017 10:02:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/27/2017 10:02:00 AM
Acetone -	28 J	14		ug/m3	20	4/27/2017 10:39:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/27/2017 10:02:00 AM
Benzene	< 0.48	0.48		ug/m3	1	4/27/2017 10:02:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/27/2017 10:02:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/27/2017 10:02:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	4/27/2017 10:02:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	4/27/2017 10:02:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/27/2017 10:02:00 AM
Carbon tetrachloride -	0.38	0.25		ug/m3	1	4/27/2017 10:02:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/27/2017 10:02:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/27/2017 10:02:00 AM
Chloroform -	0.88	0.73		ug/m3	1	4/27/2017 10:02:00 AM
Chloromethane -	2.1	0.31		ug/m3	1	4/27/2017 10:02:00 AM
cis-1,2-Dichloroethene -	2.9	0.59		ug/m3	1	4/27/2017 10:02:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 10:02:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	4/27/2017 10:02:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/27/2017 10:02:00 AM
Ethyl acetate -	0.50	0.54 J		ug/m3	1	4/27/2017 10:02:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/27/2017 10:02:00 AM
Freon 11 -	1.1	0.84		ug/m3	1	4/27/2017 10:02:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	4/27/2017 10:02:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	4/27/2017 10:02:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte: Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-004A

Client Sample ID: Rm 117 DUP
 Tag Number: 357,436
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12 -	1.9	0.74		ug/m3	1	4/27/2017 10:02:00 AM
Heptane -	0.53	0.61	J	ug/m3	1	4/27/2017 10:02:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/27/2017 10:02:00 AM
Hexane	< 0.53	0.53		ug/m3	1	4/27/2017 10:02:00 AM
Isopropyl alcohol -	20	7.4		ug/m3	20	4/27/2017 10:39:00 AM
m&p-Xylene -	0.65	1.3	J	ug/m3	1	4/27/2017 10:02:00 AM
Methyl Butyl Ketone	< 1.2 J	1.2		ug/m3	1	4/27/2017 10:02:00 AM
Methyl Ethyl Ketone -	1.4 J	0.88		ug/m3	1	4/27/2017 10:02:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/27/2017 10:02:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/27/2017 10:02:00 AM
Methylene chloride -	0.63 J	0.52		ug/m3	1	4/27/2017 10:02:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	4/27/2017 10:02:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/27/2017 10:02:00 AM
Styrene	< 0.64	0.64		ug/m3	1	4/27/2017 10:02:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/27/2017 10:02:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/27/2017 10:02:00 AM
Toluene -	0.83	0.57		ug/m3	1	4/27/2017 10:02:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 10:02:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 10:02:00 AM
Trichloroethene -	3.0	0.21		ug/m3	1	4/27/2017 10:02:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/27/2017 10:02:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/27/2017 10:02:00 AM
Vinyl chloride -	0.18	0.10		ug/m3	1	4/27/2017 10:02:00 AM

7/18/17

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-005A

Client Sample ID: Duplicate
 Tag Number: 207,436
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 11:20:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/27/2017 11:20:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 11:20:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 11:20:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 11:20:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/27/2017 11:20:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/27/2017 11:20:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/27/2017 11:20:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 11:20:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 11:20:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/27/2017 11:20:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/27/2017 11:20:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/27/2017 11:20:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 11:20:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 11:20:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/27/2017 11:20:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/27/2017 11:20:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/27/2017 11:20:00 AM
Acetone -	20 J	14		ug/m3	20	4/27/2017 11:58:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/27/2017 11:20:00 AM
Benzene -	0.32	0.48	J	ug/m3	1	4/27/2017 11:20:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/27/2017 11:20:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/27/2017 11:20:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	4/27/2017 11:20:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	4/27/2017 11:20:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/27/2017 11:20:00 AM
Carbon tetrachloride	0.38	0.25		ug/m3	1	4/27/2017 11:20:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/27/2017 11:20:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/27/2017 11:20:00 AM
Chloroform -	0.88	0.73		ug/m3	1	4/27/2017 11:20:00 AM
Chloromethane -	1.7	0.31		ug/m3	1	4/27/2017 11:20:00 AM
cis-1,2-Dichloroethene -	2.9	0.59		ug/m3	1	4/27/2017 11:20:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 11:20:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	4/27/2017 11:20:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/27/2017 11:20:00 AM
Ethyl acetate -	0.47	0.54	J	ug/m3	1	4/27/2017 11:20:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/27/2017 11:20:00 AM
Freon 11 -	1.1	0.84		ug/m3	1	4/27/2017 11:20:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	4/27/2017 11:20:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	4/27/2017 11:20:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit
 N Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-005A

Client Sample ID: Duplicate
 Tag Number: 207,436
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12 -	2.0	0.74		ug/m3	1	4/27/2017 11:20:00 AM
Heptane -	0.61	0.61		ug/m3	1	4/27/2017 11:20:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/27/2017 11:20:00 AM
Hexane	< 0.53	0.53		ug/m3	1	4/27/2017 11:20:00 AM
Isopropyl alcohol -	15	7.4		ug/m3	20	4/27/2017 11:58:00 AM
m&p-Xylene -	0.61	1.3	J	ug/m3	1	4/27/2017 11:20:00 AM
Methyl Butyl Ketone -	0.49	1.2	J	ug/m3	1	4/27/2017 11:20:00 AM
Methyl Ethyl Ketone -	1.5	0.88		ug/m3	1	4/27/2017 11:20:00 AM
Methyl Isobutyl Ketone -	0.70	1.2	J	ug/m3	1	4/27/2017 11:20:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/27/2017 11:20:00 AM
Methylene chloride -	0.52	0.52		ug/m3	1	4/27/2017 11:20:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	4/27/2017 11:20:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/27/2017 11:20:00 AM
Styrene	< 0.64	0.64		ug/m3	1	4/27/2017 11:20:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/27/2017 11:20:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/27/2017 11:20:00 AM
Toluene -	0.83	0.57		ug/m3	1	4/27/2017 11:20:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 11:20:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 11:20:00 AM
Trichloroethene -	3.1	0.21		ug/m3	1	4/27/2017 11:20:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/27/2017 11:20:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/27/2017 11:20:00 AM
Vinyl chloride -	0.18	0.10		ug/m3	1	4/27/2017 11:20:00 AM

MS

Qualifiers:	** Quantitation Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-006A

Client Sample ID: Roof
 Tag Number: 1185,343
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 12:37:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/27/2017 12:37:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 12:37:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 12:37:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 12:37:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/27/2017 12:37:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/27/2017 12:37:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/27/2017 12:37:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 12:37:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 12:37:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/27/2017 12:37:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/27/2017 12:37:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/27/2017 12:37:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 12:37:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 12:37:00 PM
1,4-Dioxane -	0.36	1.1	J	ug/m3	1	4/27/2017 12:37:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/27/2017 12:37:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/27/2017 12:37:00 PM
Acetone -	17 J	14		ug/m3	20	4/27/2017 11:16:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/27/2017 12:37:00 PM
Benzene	< 0.48	0.48		ug/m3	1	4/27/2017 12:37:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/27/2017 12:37:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/27/2017 12:37:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	4/27/2017 12:37:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	4/27/2017 12:37:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/27/2017 12:37:00 PM
Carbon tetrachloride -	0.44	0.25		ug/m3	1	4/27/2017 12:37:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/27/2017 12:37:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/27/2017 12:37:00 PM
Chloroform -	2.1	0.73		ug/m3	1	4/27/2017 12:37:00 PM
Chloromethane	1.4	0.31		ug/m3	1	4/27/2017 12:37:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 12:37:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 12:37:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	4/27/2017 12:37:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/27/2017 12:37:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	4/27/2017 12:37:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/27/2017 12:37:00 PM
Freon 11 -	1.2	0.84		ug/m3	1	4/27/2017 12:37:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	4/27/2017 12:37:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	4/27/2017 12:37:00 PM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-006A

Client Sample ID: Roof
 Tag Number: 1185,343
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12 -	1.9	0.74		ug/m3	1	4/27/2017 12:37:00 PM
Heptane	< 0.61	0.61		ug/m3	1	4/27/2017 12:37:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/27/2017 12:37:00 PM
Hexane	< 0.53	0.53		ug/m3	1	4/27/2017 12:37:00 PM
Isopropyl alcohol -	1.8	0.37		ug/m3	1	4/27/2017 12:37:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	4/27/2017 12:37:00 PM
Methyl Butyl Ketone -	0.74 J	1.2	J	ug/m3	1	4/27/2017 12:37:00 PM
Methyl Ethyl Ketone -	0.56 J	0.88	J	ug/m3	1	4/27/2017 12:37:00 PM
Methyl Isobutyl Ketone -	0.82	1.2	J	ug/m3	1	4/27/2017 12:37:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/27/2017 12:37:00 PM
Methylene chloride -	0.56 J	0.52		ug/m3	1	4/27/2017 12:37:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	4/27/2017 12:37:00 PM
Propylene	< 0.26	0.26		ug/m3	1	4/27/2017 12:37:00 PM
Styrene	< 0.64	0.64		ug/m3	1	4/27/2017 12:37:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/27/2017 12:37:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/27/2017 12:37:00 PM
Toluene -	0.53	0.57	J	ug/m3	1	4/27/2017 12:37:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 12:37:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 12:37:00 PM
Trichloroethene -	1.5	0.21		ug/m3	1	4/27/2017 12:37:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/27/2017 12:37:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/27/2017 12:37:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/27/2017 12:37:00 PM

1185

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-007A

Client Sample ID: Elevator
 Tag Number: 237,388
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 1:58:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/27/2017 1:58:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/27/2017 1:58:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 1:58:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 1:58:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/27/2017 1:58:00 PM
1,2,4-Trimethylbenzene -	1.7	0.74		ug/m3	1	4/27/2017 1:58:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/27/2017 1:58:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 1:58:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/27/2017 1:58:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/27/2017 1:58:00 PM
1,3,5-Trimethylbenzene -	0.59	0.74	J	ug/m3	1	4/27/2017 1:58:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/27/2017 1:58:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 1:58:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/27/2017 1:58:00 PM
1,4-Dioxane -	0.36	1.1	J	ug/m3	1	4/27/2017 1:58:00 PM
2,2,4-trimethylpentane -	0.56	0.70	J	ug/m3	1	4/27/2017 1:58:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/27/2017 1:58:00 PM
Acetone -	18 J	7.1		ug/m3	10	4/28/2017 1:59:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/27/2017 1:58:00 PM
Benzene -	1.3	0.48		ug/m3	1	4/27/2017 1:58:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/27/2017 1:58:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/27/2017 1:58:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	4/27/2017 1:58:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	4/27/2017 1:58:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/27/2017 1:58:00 PM
Carbon tetrachloride -	0.44	0.25		ug/m3	1	4/27/2017 1:58:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/27/2017 1:58:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/27/2017 1:58:00 PM
Chloroform -	1.3	0.73		ug/m3	1	4/27/2017 1:58:00 PM
Chloromethane -	1.5	0.31		ug/m3	1	4/27/2017 1:58:00 PM
cis-1,2-Dichloroethene -	0.83	0.59		ug/m3	1	4/27/2017 1:58:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 1:58:00 PM
Cyclohexane -	0.48	0.52	J	ug/m3	1	4/27/2017 1:58:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/27/2017 1:58:00 PM
Ethyl acetate -	0.83	0.54		ug/m3	1	4/27/2017 1:58:00 PM
Ethylbenzene -	0.69	0.65		ug/m3	1	4/27/2017 1:58:00 PM
Freon 11 -	1.2	0.84		ug/m3	1	4/27/2017 1:58:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	4/27/2017 1:58:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	4/27/2017 1:58:00 PM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-007A

Client Sample ID: Elevator
 Tag Number: 237,388
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12 -	2.0	0.74		ug/m3	1	4/27/2017 1:58:00 PM
Heptane -	0.78	0.61		ug/m3	1	4/27/2017 1:58:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/27/2017 1:58:00 PM
Hexane -	1.7	0.53		ug/m3	1	4/27/2017 1:58:00 PM
Isopropyl alcohol -	5.0	0.37		ug/m3	1	4/27/2017 1:58:00 PM
m&p-Xylene -	2.5	1.3		ug/m3	1	4/27/2017 1:58:00 PM
Methyl Butyl Ketone -	0.74 J	1.2	J	ug/m3	1	4/27/2017 1:58:00 PM
Methyl Ethyl Ketone -	1.6 J	0.88		ug/m3	1	4/27/2017 1:58:00 PM
Methyl Isobutyl Ketone -	0.57	1.2	J	ug/m3	1	4/27/2017 1:58:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/27/2017 1:58:00 PM
Methylene chloride -	1.2 J	0.52		ug/m3	1	4/27/2017 1:58:00 PM
o-Xylene -	0.96	0.65		ug/m3	1	4/27/2017 1:58:00 PM
Propylene	< 0.26	0.26		ug/m3	1	4/27/2017 1:58:00 PM
Styrene	< 0.64	0.64		ug/m3	1	4/27/2017 1:58:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/27/2017 1:58:00 PM
Tetrahydrofuran -	0.77	0.44		ug/m3	1	4/27/2017 1:58:00 PM
Toluene -	3.4	0.57		ug/m3	1	4/27/2017 1:58:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/27/2017 1:58:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/27/2017 1:58:00 PM
Trichloroethene -	0.91	0.21		ug/m3	1	4/27/2017 1:58:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/27/2017 1:58:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/27/2017 1:58:00 PM
Vinyl chloride -	0.10	0.10		ug/m3	1	4/27/2017 1:58:00 PM

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Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-008A

Client Sample ID: Area In
 Tag Number: 1192,145
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/26/2017 10:27:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/26/2017 10:27:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/26/2017 10:27:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/26/2017 10:27:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	4/26/2017 10:27:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/26/2017 10:27:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-009A

Client Sample ID: Outdoor
 Tag Number: 539,338
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/26/2017 11:17:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/26/2017 11:17:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/26/2017 11:17:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/26/2017 11:17:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	4/26/2017 11:17:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/26/2017 11:17:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
 Lab Order: C1704061
 Project: 690 St. Paul Street
 Lab ID: C1704061-010A

Client Sample ID: Bldg 16
 Tag Number: 1180,404
 Collection Date: 4/18/2017
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/26/2017 12:16:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/26/2017 12:16:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/26/2017 12:16:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/26/2017 12:16:00 PM
Trichloroethene -	0.48	0.21		ug/m3	1	4/26/2017 12:16:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/26/2017 12:16:00 PM

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Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

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Date: 10-May-17



CENTEK LABORATORIES, LLC

QC SUMMARY REPORT SURROGATE RECOVERIES

CLIENT: LaBella Associates, P.C.

Work Order: C1704061

Project: 690 St. Paul Street

Test No: TO-15

Matrix: A

Sample ID	BR4FBZ								
ALCSIUG-042517	98.0	✓							
ALCSIUG-042617	99.0								
ALCSIUG-042717	102								
ALCSIUGD-042517	99.0								
AMBIUG-042517	93.0								
AMBIUG-042617	95.0								
AMBIUG-042717	96.0								
C1704061-001A	96.0								
C1704061-002A	96.0								
C1704061-002A MS	101								
C1704061-002A MSD	100								
C1704061-003A	95.0								
C1704061-004A	94.0								
C1704061-005A	96.0								
C1704061-006A	100								
C1704061-007A	100								
C1704061-008A	97.0								
C1704061-009A	99.0								
C1704061-010A	101								

Acronym	Surrogate	QC Limits
BR4FBZ	= Bromofluorobenzene	70-130 80-120

* Surrogate recovery outside acceptance limits

Centek Laboratories, LLC
GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA2\AO042504.D
Tune Time : 25 Apr 2017 4:55 pm

Daily Calibration File : C:\HPCHEM\1\DATA2\AO042504.D

			59195	283367	245430
(BFB)			(IS1)	(IS2)	(IS3)
			42282	202405	175307
			25369	121443	105184
File	Sample	DL Surrogate Recovery %	Internal	Standard	Responses
AO042506.D	ALCS1UG-042517	98	41164 ✓	191443 ✓	165977 ✓
AO042507.D	AMB1UG-042517	93	40975	183731	159823
AO042529.D	ALCS1UGD-042517	99	44089	212049	192354
AO042530.D	C1704061-008A	97	42993	204653	173141
AO042531.D	C1704061-009A	99	41933	201588	173936
AO042532.D	C1704061-010A	101	37501	180142	152230

t - fails 24hr time check * - fails criteria

Created: Tue May 30 14:03:03 2017 MSD #1/

ICV	9.56	11.95	16.83
C1704061-8	9.56	11.95	16.84
C1704061-9	9.57	11.95	16.84
C1704061-10	9.57	11.96	16.84

Centek Laboratories, LLC
GC/MS QA-QC Check Report

Run File : C:\HPCHEM\1\DATA\AO042609.D
Run Time : 26 Apr 2017 9:15 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AO042609.D

File	Sample	DL	Surrogate Recovery %	(BFB)		
				(IS1)	(IS2)	(IS3)
				37635	171346	148628
				22581	102808	89177
Internal Standard Responses						
AO042619.D	AMB1UG-042617	95		33463 ✓	151496 ✓	132544 ✓
AO042620.D	C1704061-001A	96		33505	147965	130748
AO042621.D	C1704061-001A 20X	95		32230	147803	127226
AO042622.D	C1704061-002A	96		33226	145563	128324
AO042623.D	C1704061-002A MS	101		33660	152627	133354
AO042624.D	C1704061-002A MSD	100		34483	157780	137423
AO042625.D	C1704061-002A 20X	94		31995	145894	125974
AO042626.D	C1704061-003A	95		33003	150318	131070
AO042627.D	C1704061-003A 20X	96		31736	145773	126390
AO042628.D	C1704061-004A	94		32896	147111	129075
AO042629.D	C1704061-004A 20X	94		32377	142387	127272
AO042630.D	C1704061-005A	96		32390	144372	127867
AO042631.D	C1704061-005A 20X	94		31722	140752	123589
AO042632.D	C1704061-006A	100		31037	140173	123308
AO042633.D	C1704061-006A 20X	96		31741	141279	122720
AO042634.D	C1704061-007A	100		31588	142923	127309

t - fails 24hr time check * - fails criteria

Created: Thu May 04 14:50:32 2017 MSD #1/

ICV	9.59	11.98	16.85
C1704061-1	9.58	11.97	16.85
C1704061-1 20X	9.58	11.97	16.84
C1704061-2	9.59	11.97	16.85
C1704061-2 20X	9.58	11.96	16.84
C1704061-3	9.58	11.96	16.84
C1704061-3 20X	9.57	11.97	16.84
C1704061-4	9.57	11.97	16.84
C1704061-4 20X	9.58	11.97	16.84
C1704061-5	9.58	11.97	16.84
C1704061-5 20X	9.58	11.97	16.84
C1704061-6	9.59	11.98	16.85
C1704061-6 20X	9.59	11.97	16.85
C1704061-7	9.59	11.98	16.85

Centek Laboratories, LLC
GC/MS QA-QC Check Report

Run File : C:\HPCHEM\1\DATA\AO042706.D
Run Time : 27 Apr 2017 6:40 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AO042706.D

				(BFB)	(IS1)	(IS2)	(IS3)
					32796	149038	131024
					19678	89423	78614
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses			
AO042707.D	ALCS1UG-042717	102		32832	✓	150017	✓
AO042708.D	AMB1UG-042717	96		33551		146475	126695
AO042717.D	C1704061-007A 10X	97		28941		128892	113034
AO042733.D	ALCS1UGD-042717	100		30269		136469	118963
t - fails 24hr time check				* - fails criteria			

Created: Thu May 04 14:52:46 2017 MSD #1/

ICU 9.59 11.97 16.85
C1704061-7 10X 9.58 11.98 16.85

Date: 10-May-17

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1704061

Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: ALCS1UG-042517		SampType: LCS		TestCode: 0.25CT-TCE-		Units: ppbV		Prep Date:		RunNo: 12173	
Client ID: ZZZZZ		Batch ID: R12173		TestNo: TO-15				Analysis Date: 4/25/2017		SeqNo: 142303	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7400	0.15	1	0	74.0	70	130				
Chloroethane	1.060	0.15	1	0	106	70	130				
cis-1,2-Dichloroethene	0.8300	0.15	1	0	83.0	70	130				
trans-1,2-Dichloroethene	0.8400	0.15	1	0	84.0	70	130				
Trichloroethene	0.7000	0.040	1	0	70.0	70	130				
Vinyl chloride	1.130	0.040	1	0	113	70	130				
Surr: Bromofluorobenzene	0.9800	0	1	0	98.0	70	130				

Sample ID: ALCS1UG-042617	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12180						
Client ID: ZZZZZ	Batch ID: R12180	TestNo: TO-15		Analysis Date: 4/26/2017	SeqNo: 142413						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.8300	0.15	1	0	83.0	70	130				
1,1,2,2-Tetrachloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1,2-Trichloroethane	0.8400	0.15	1	0	84.0	70	130				
1,1-Dichloroethane	0.8600	0.15	1	0	86.0	70	130				
1,1-Dichloroethene	0.8600	0.15	1	0	86.0	70	130				
1,2,4-Trichlorobenzene	1.310	0.15	1	0	131	70	130				
1,2,4-Trimethylbenzene	0.9800	0.15	1	0	98.0	70	130				
1,2-Dibromoethane	0.8300	0.15	1	0	83.0	70	130				
1,2-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130				
1,2-Dichloroethane	0.8300	0.15	1	0	83.0	70	130				
1,2-Dichloropropane	0.8400	0.15	1	0	84.0	70	130				
1,3,5-Trimethylbenzene	0.9400	0.15	1	0	94.0	70	130				

Qualifiers: J Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 S Spikes Recovery outside accepted recovery limits NID Not Detected at the Limit of Detection R RPD outside accepted recovery limits

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CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: ALCS1UG-042617		SampType: LCS		TestCode: 0.25CT-TCE-		Units: ppbv		Prep Date:		RunNo: 12180	
Client ID: ZZZZZ		Batch ID: R12180		TestNo: TO-15		Analysis Date: 4/26/2017		SeqNo: 142413			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-butadiene	0.8400	0.15	1	0	84.0	70	130				
1,3-Dichlorobenzene	0.8800	0.15	1	0	88.0	70	130				
1,4-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,4-Dioxane	1.090	0.30	1	0	109	70	130				
2,2,4-trimethylpentane	0.8600	0.15	1	0	86.0	70	130				
4-ethyltoluene	0.9100	0.15	1	0	91.0	70	130				
Acetone	1.030	0.30	1	0	103	70	130				
Allyl chloride	0.8600	0.15	1	0	86.0	70	130				
Benzene	0.8400	0.15	1	0	84.0	70	130				
Benzyl chloride	1.100	0.15	1	0	110	70	130				
Bromodichloromethane	0.8400	0.15	1	0	84.0	70	130				
Bromoform	0.8500	0.15	1	0	85.0	70	130				
Bromomethane	0.8300	0.15	1	0	83.0	70	130				
Carbon disulfide	0.8500	0.15	1	0	85.0	70	130				
Carbon tetrachloride	0.7800	0.040	1	0	78.0	70	130				
Chlorobenzene	0.8500	0.15	1	0	85.0	70	130				
Chloroethane	0.8700	0.15	1	0	87.0	70	130				
Chloroform	0.8500	0.15	1	0	85.0	70	130				
Chloromethane	0.9000	0.15	1	0	90.0	70	130				
cis-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70	130				
cis-1,3-Dichloropropene	0.8500	0.15	1	0	85.0	70	130				
Cyclohexane	0.8800	0.15	1	0	88.0	70	130				
Dibromochloromethane	0.8500	0.15	1	0	85.0	70	130				
Ethyl acetate	1.010	0.15	1	0	101	70	130				
Ethylbenzene	0.8500	0.15	1	0	85.0	70	130				
Freon 11	0.8400	0.15	1	0	84.0	70	130				
Freon 113	0.8600	0.15	1	0	86.0	70	130				
Freon 114	0.8600	0.15	1	0	86.0	70	130				
Freon 12	0.8300	0.15	1	0	83.0	70	130				
Heptane	0.8400	0.15	1	0	84.0	70	130				
Hexachloro-1,3-butadiene	1.230	0.15	1	0	123	70	130				

Qualifiers: . Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: ALCS1UG-042617	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12180						
Client ID: ZZZZZ	Batch ID: R12180	TestNo: TO-15		Analysis Date: 4/26/2017	SeqNo: 142413						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexane	0.8600	0.15	1	0	86.0	70	130				
Isopropyl alcohol	1.150	0.15	1	0	115	70	130				
m&p-Xylene	1.690	0.30	2	0	84.5	70	130				
Methyl Butyl Ketone	1.230	0.30	1	0	123	70	130				
Methyl Ethyl Ketone	1.160	0.30	1	0	116	70	130				
Methyl Isobutyl Ketone	1.230	0.30	1	0	123	70	130				
Methyl tert-butyl ether	0.9200	0.15	1	0	92.0	70	130				
Methylene chloride	0.8300	0.15	1	0	83.0	70	130				
o-Xylene	0.8500	0.15	1	0	85.0	70	130				
Propylene	0.8100	0.15	1	0	81.0	70	130				
Styrene	0.8600	0.15	1	0	86.0	70	130				
Tetrachloroethylene	0.8500	0.15	1	0	85.0	70	130				
Tetrahydrofuran	0.9800	0.15	1	0	98.0	70	130				
Toluene	0.8400	0.15	1	0	84.0	70	130				
trans-1,2-Dichloroethene	0.8300	0.15	1	0	83.0	70	130				
trans-1,3-Dichloropropene	0.8400	0.15	1	0	84.0	70	130				
Trichloroethene	0.7700	0.040	1	0	77.0	70	130				
Vinyl acetate	0.8500	0.15	1	0	85.0	70	130				
Vinyl Bromide	0.8300	0.15	1	0	83.0	70	130				
Vinyl chloride	0.8500	0.040	1	0	85.0	70	130				
Surr: Bromofluorobenzene	0.9900	0	1	0	99.0	70	130				

Sample ID: ALCS1UG-042717	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12182						
Client ID: ZZZZZ	Batch ID: R12182	TestNo: TO-15		Analysis Date: 4/27/2017	SeqNo: 142441						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.8300	0.15	1	0	83.0	70	130				
1,1,2,2-Tetrachloroethane	0.8800	0.15	1	0	88.0	70	130				
1,1,2-Trichloroethane	0.8100	0.15	1	0	81.0	70	130				
1,1-Dichloroethane	0.8200	0.15	1	0	82.0	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 ND Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

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CLIENT: LaBella Associates, P.C.
 Work Order: CI704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: ALCS1UG-042717	Batch ID: R12182	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12182					
Client ID: ZZZZZ			TestNo: TO-15		Analysis Date: 4/27/2017	SeqNo: 142441					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7900	0.15	1	0	79.0	70	130				
1,2,4-Trichlorobenzene	1.050	0.15	1	0	105	70	130				
1,2,4-Trimethylbenzene	0.9000	0.15	1	0	90.0	70	130				
1,2-Dibromoethane	0.8300	0.15	1	0	83.0	70	130				
1,2-Dichlorobenzene	0.8800	0.15	1	0	88.0	70	130				
1,2-Dichloroethane	0.8300	0.15	1	0	83.0	70	130				
1,2-Dichloropropane	0.8100	0.15	1	0	81.0	70	130				
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130				
1,3-butadiene	0.7900	0.15	1	0	79.0	70	130				
1,3-Dichlorobenzene	0.8500	0.15	1	0	85.0	70	130				
1,4-Dichlorobenzene	0.8600	0.15	1	0	86.0	70	130				
1,4-Dioxane	0.7500	0.30	1	0	75.0	70	130				
2,2,4-trimethylpentane	0.8000	0.15	1	0	80.0	70	130				
4-ethyltoluene	0.8700	0.15	1	0	87.0	70	130				
Acetone	1.010	0.30	1	0	101	70	130				
Allyl chloride	0.8000	0.15	1	0	80.0	70	130				
Benzene	0.8200	0.15	1	0	82.0	70	130				
Benzyl chloride	1.000	0.15	1	0	100	70	130				
Bromodichloromethane	0.8300	0.15	1	0	83.0	70	130				
Bromoform	0.8700	0.15	1	0	87.0	70	130				
Bromomethane	0.8300	0.15	1	0	83.0	70	130				
Carbon disulfide	0.8100	0.15	1	0	81.0	70	130				
Carbon tetrachloride	0.7900	0.040	1	0	79.0	70	130				
Chlorobenzene	0.8300	0.15	1	0	83.0	70	130				
Chloroethane	0.8000	0.15	1	0	80.0	70	130				
Chloroform	0.8200	0.15	1	0	82.0	70	130				
Chloromethane	1.100	0.15	1	0	110	70	130				
cis-1,2-Dichloroethene	0.8000	0.15	1	0	80.0	70	130				
cis-1,3-Dichloropropene	0.8200	0.15	1	0	82.0	70	130				
Cyclohexane	0.7900	0.15	1	0	79.0	70	130				
Dibromochloromethane	0.8700	0.15	1	0	87.0	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 NID Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: ALCS1UG-042717	SampType: LCS	Batch ID: R12182	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12182					
Client ID: ZZZZZ			TestNo: TO-15		Analysis Date: 4/27/2017	SeqNo: 142441					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl acetate	0.9100	0.15	1	0	91.0	70	130				
Ethylbenzene	0.8200	0.15	1	0	82.0	70	130				
Freon 11	0.8400	0.15	1	0	84.0	70	130				
Freon 113	0.7900	0.15	1	0	79.0	70	130				
Freon 114	0.8400	0.15	1	0	84.0	70	130				
Freon 12	0.8500	0.15	1	0	85.0	70	130				
Heptane	0.8000	0.15	1	0	80.0	70	130				
Hexachloro-1,3-butadiene	1.060	0.15	1	0	106	70	130				
Hexane	0.7800	0.15	1	0	78.0	70	130				
Isopropyl alcohol	0.9300	0.15	1	0	93.0	70	130				
m&p-Xylene	1.670	0.30	2	0	83.5	70	130				
Methyl Butyl Ketone	0.3800	0.30	1	0	38.0	70	130				
Methyl Ethyl Ketone	1.030	0.30	1	0	103	70	130				
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130				
Methyl tert-butyl ether	0.8400	0.15	1	0	84.0	70	130				
Methylene chloride	0.8100	0.15	1	0	81.0	70	130				
o-Xylene	0.8300	0.15	1	0	83.0	70	130				
Propylene	0.8400	0.15	1	0	84.0	70	130				
Styrene	0.8300	0.15	1	0	83.0	70	130				
Tetrachloroethylene	0.8300	0.15	1	0	83.0	70	130				
Tetrahydrofuran	0.9000	0.15	1	0	90.0	70	130				
Toluene	0.8200	0.15	1	0	82.0	70	130				
trans-1,2-Dichloroethene	0.7900	0.15	1	0	79.0	70	130				
trans-1,3-Dichloropropene	0.8400	0.15	1	0	84.0	70	130				
Trichloroethene	0.7300	0.040	1	0	73.0	70	130				
Vinyl acetate	0.8400	0.15	1	0	84.0	70	130				
Vinyl Bromide	0.8300	0.15	1	0	83.0	70	130				
Vinyl chloride	0.7800	0.040	1	0	78.0	70	130				
Surr: Bromofluorobenzene	1.020	0	1	0	102	70	130				

S

Qualifiers: Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

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CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Qualifiers: Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Date: 10-May-17

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1704061

Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: ALCS1UGD-042517		SampType: LCSD		TestCode: 0.25CT-TCE-		Units: ppbV		Prep Date:		RunNo: 12173	
Client ID: ZZZZZ		Batch ID: R12173		TestNo: TO-15				Analysis Date: 4/26/2017		SeqNo: 142304	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7700	0.15	1	0	77.0	70	130	0.74	3.97	30	
Chloroethane	1.070	0.15	1	0	107	70	130	1.06	0.939	30	
cis-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70	130	0.83	2.38	30	
trans-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70	130	0.84	1.18	30	
Trichloroethene	0.7100	0.040	1	0	71.0	70	130	0.7	1.42	30	
Vinyl chloride	1.140	0.040	1	0	114	70	130	1.13	0.881	30	
Surr: Bromofluorobenzene	0.9900	0	1	0	99.0	70	130	0	0	30	

Qualifiers: J Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 S Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

Page 1 of 1

Date: 10-May-17

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: AMB1UG-042517	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12173						
Client ID: ZZZZZ	Batch ID: R12173	TestNo: TO-15		Analysis Date: 4/25/2017	SeqNo: 142302						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl chloride	< 0.040	0.040									
Surr: Bromofluorobenzene	0.9300	0	1	0	93.0	70	130				

Sample ID: AMB1UG-042517	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12180						
Client ID: ZZZZZ	Batch ID: R12180	TestNo: TO-15		Analysis Date: 4/27/2017	SeqNo: 142412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									

Qualifiers: - Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: AMB1UG-042617	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 12180						
Client ID: ZZZZZ	Batch ID: R12180	TestNo: TO-15		Analysis Date: 4/27/2017	SeqNo: 142412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									

Qualifiers: E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
 J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: AMB1UG-042617	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 12180						
Client ID: ZZZZZ	Batch ID: R12180	TestNo: TO-15		Analysis Date: 4/27/2017	SeqNo: 142412						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexane  < 0.15

Isopropyl alcohol < 0.15

m&p-Xylene < 0.30

Methyl Butyl Ketone < 0.30

Methyl Ethyl Ketone < 0.30

Methyl Isobutyl Ketone < 0.30

Methyl tert-butyl ether < 0.15

Methylene chloride < 0.15

o-Xylene < 0.15

Propylene < 0.15

Styrene < 0.15

Tetrachloroethylene < 0.15

Tetrahydrofuran < 0.15

Toluene < 0.15

trans-1,2-Dichloroethene < 0.15

trans-1,3-Dichloropropene < 0.15

Trichloroethene < 0.040

Vinyl acetate < 0.15

Vinyl Bromide < 0.15

Vinyl chloride < 0.040

Surr: Bromofluorobenzene 0.9500

130

Sample ID: AMB1UG-042717	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 12182						
Client ID: ZZZZZ	Batch ID: R12182	TestNo: TO-15		Analysis Date: 4/27/2017	SeqNo: 142440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane  < 0.15

1,1,2,2-Tetrachloroethane < 0.15

1,1,2-Trichloroethane < 0.15

1,1-Dichloroethane < 0.15

Qualifiers: Results reported are not blank corrected

J Analyte detected below quantitation limit

S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range

NE Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1704061

Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: AMB1UG-042717	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 12182						
Client ID: ZZZZZ	Batch ID: R12182	TestNo: TO-15		Analysis Date: 4/27/2017	SeqNo: 142440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									

Qualifiers:
 J Results reported are not blank corrected
 S Analytic detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: AMB1UG-042717	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 12182						
Client ID: ZZZZZ	Batch ID: R12182	TestNo: TO-15		Analysis Date: 4/27/2017	SeqNo: 142440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									
Sur: Bromofluorobenzene	0.9600	0	1	0	96.0	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Qualifiers:
 . Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Date: 10-May-17

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: C1704061-002A MS		Sample Type: MS		TestCode: 0.25CT-TCE-		Units: ppbv		Prep Date:		RunNo: 12180	
Client ID: Rm 107		Batch ID: R12180		TestNo: TO-15		Analysis Date: 4/27/2017		SeqNo: 142415			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.000	0.15	1	0	100	70	130				
1,1,2,2-Tetrachloroethane	0.8900	0.15	1	0	89.0	70	130				
1,1,2-Trichloroethane	0.9300	0.15	1	0	93.0	70	130				
1,1-Dichloroethane	0.9800	0.15	1	0	98.0	70	130				
1,1-Dichloroethene	1.010	0.15	1	0	101	70	130				
1,2,4-Trichlorobenzene	0.8800	0.15	1	0	88.0	70	130				
1,2,4-Trimethylbenzene	0.9600	0.15	1	0.18	78.0	70	130				
1,2-Dibromoethane	0.9100	0.15	1	0	91.0	70	130				
1,2-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,2-Dichloroethane	1.000	0.15	1	0	100	70	130				
1,2-Dichloropropane	0.9600	0.15	1	0	96.0	70	130				
1,3,5-Trimethylbenzene	0.8700	0.15	1	0	87.0	70	130				
1,3-butadiene	1.090	0.15	1	0	109	70	130				
1,3-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,4-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,4-Dioxane	0.7700	0.30	1	0	77.0	70	130				
2,2,4-trimethylpentane	1.010	0.15	1	0	101	70	130				
4-ethyltoluene	0.9300	0.15	1	0	93.0	70	130				
Acetone	4.140	0.30	1	5.55	-141	70	130				S
Allyl chloride	0.9800	0.15	1	0	98.0	70	130				
Benzene	1.060	0.15	1	0.13	93.0	70	130				
Benzyl chloride	0.8700	0.15	1	0	87.0	70	130				
Bromodichloromethane	1.010	0.15	1	0	101	70	130				
Bromoform	0.9100	0.15	1	0	91.0	70	130				
Bromomethane	1.010	0.15	1	0	101	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 R Spike Recovery outside accepted recovery limits
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Page 1 of 5

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: C1704061-002A MS		SampType: MS		TestCode: 0.25CT-TCE-		Units: ppbv		Prep Date:		RunNo: 12180	
Client ID: Rm 107		Batch ID: R12180		TestNo: TO-15				Analysis Date: 4/27/2017		SeqNo: 142415	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9500	0.15	1	0	95.0	70	130				
Carbon tetrachloride	0.9600	0.040	1	0.06	90.0	70	130				
Chlorobenzene	0.9100	0.15	1	0	91.0	70	130				
Chloroethane	1.020	0.15	1	0	102	70	130				
Chloroform	1.270	0.15	1	0.42	85.0	70	130				
Chloromethane	1.420	0.15	1	0.75	67.0	70	130				
cis-1,2-Dichloroethene	3.170	0.15	1	3.18	-1.00	70	130				
cis-1,3-Dichloropropene	0.9400	0.15	1	0	94.0	70	130				
Cyclohexane	1.030	0.15	1	0.11	92.0	70	130				
Dibromochloromethane	0.9600	0.15	1	0	96.0	70	130				
Ethyl acetate	0.9400	0.15	1	0.13	81.0	70	130				
Ethylbenzene	0.9300	0.15	1	0	93.0	70	130				
Freon 11	1.120	0.15	1	0.19	93.0	70	130				
Freon 113	1.000	0.15	1	0	100	70	130				
Freon 114	0.9900	0.15	1	0	99.0	70	130				
Freon 12	1.200	0.15	1	0.39	81.0	70	130				
Heptane	1.040	0.15	1	0	104	70	130				
Hexachloro-1,3-butadiene	0.8800	0.15	1	0	88.0	70	130				
Hexane	1.060	0.15	1	0.14	92.0	70	130				
Isopropyl alcohol	2.930	0.15	1	3.27	-34.0	70	130				
m,p-Xylene	1.880	0.30	2	0.18	85.0	70	130				
Methyl Butyl Ketone	1.140	0.30	1	0	114	70	130				
Methyl Ethyl Ketone	1.020	0.30	1	0.46	56.0	70	130				
Methyl Isobutyl Ketone	0.7600	0.30	1	0	76.0	70	130				
Methyl tert-butyl ether	0.8500	0.15	1	0	85.0	70	130				
Methylene chloride	1.220	0.15	1	0.32	90.0	70	130				
o-Xylene	0.9200	0.15	1	0	92.0	70	130				
Propylene	1.160	0.15	1	0	116	70	130				
Styrene	0.9000	0.15	1	0	90.0	70	130				
Tetrachloroethylene	0.9500	0.15	1	0	95.0	70	130				
Tetrahydrofuran	0.9200	0.15	1	0.13	79.0	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: C1704061-002A MS		SampType: MS		TestCode: 0.25CT-TCE-		Units: ppbV		Prep Date:		RunNo: 12180	
Client ID: Rm 107		Batch ID: R12180		TestNo: TO-15		Analysis Date: 4/27/2017		SeqNo: 142415			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.170	0.15	1	0.32	85.0	70	130				
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130				
trans-1,3-Dichloropropene	0.9500	0.15	1	0	95.0	70	130				
Trichloroethene	2.550	0.040	1	2.48	7.00	70	130				S
Vinyl acetate	1.040	0.15	1	0	104	70	130				
Vinyl Bromide	0.9900	0.15	1	0	99.0	70	130				
Vinyl chloride	1.120	0.040	1	0.27	85.0	70	130				
Surr. Bromofluorobenzene	1.010	0	1	0	101	70	130				

Sample ID: C1704061-002A MSD		SampType: MSD		TestCode: 0.25CT-TCE-		Units: ppbV		Prep Date:		RunNo: 12180	
Client ID: Rm 107		Batch ID: R12180		TestNo: TO-15		Analysis Date: 4/27/2017		SeqNo: 142416			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
1,1,2,2-Tetrachloroethane	0.9000	0.15	1	0	90.0	70	130	0.89	1.12	30	
1,1,2-Trichloroethane	0.9100	0.15	1	0	91.0	70	130	0.93	2.17	30	
1,1-Dichloroethane	0.9500	0.15	1	0	95.0	70	130	0.98	3.11	30	
1,1-Dichloroethene	0.9800	0.15	1	0	98.0	70	130	1.01	3.02	30	
1,2,4-Trichlorobenzene	0.8900	0.15	1	0	89.0	70	130	0.88	1.13	30	
1,2,4-Trimethylbenzene	0.9600	0.15	1	0.18	78.0	70	130	0.96	0	30	
1,2-Dibromoethane	0.9200	0.15	1	0	92.0	70	130	0.91	1.09	30	
1,2-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130	0.87	2.27	30	
1,2-Dichloroethane	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
1,2-Dichloropropane	0.9500	0.15	1	0	95.0	70	130	0.96	1.05	30	
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130	0.87	1.14	30	
1,3-butadiene	1.350	0.15	1	0	135	70	130	1.09	21.3	30	S
1,3-Dichlorobenzene	0.9000	0.15	1	0	90.0	70	130	0.89	1.12	30	
1,4-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130	0.89	0	30	
1,4-Dioxane	0.7000	0.30	1	0	70.0	70	130	0.77	9.52	30	
2,2,4-trimethylpentane	0.9700	0.15	1	0	97.0	70	130	1.01	4.04	30	

Qualifiers: J Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 S Spike Recovery outside accepted recovery limits ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: C1704061-002A MSD		TestCode: 0.25CT-TCE- Units: ppbv		Prep Date:		RunNo: 12180					
Client ID: Rm 107		Batch ID: R12180		Analysis Date: 4/27/2017		SeqNo: 142416					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	0.9200	0.15	1	0	92.0	70	130	0.93	1.08	30	
Acetone	3.090	0.30	1	5.55	-246	70	130	4.14	29.0	30	S
Allyl chloride	0.9600	0.15	1	0	96.0	70	130	0.98	2.06	30	
Benzene	1.020	0.15	1	0.13	89.0	70	130	1.06	3.85	30	
Benzyl chloride	0.8900	0.15	1	0	89.0	70	130	0.87	2.27	30	
Bromodichloromethane	0.9900	0.15	1	0	99.0	70	130	1.01	2.00	30	
Bromoform	0.9100	0.15	1	0	91.0	70	130	0.91	0	30	
Bromomethane	0.9800	0.15	1	0	98.0	70	130	1.01	3.02	30	
Carbon disulfide	0.9400	0.15	1	0	94.0	70	130	0.95	1.06	30	
Carbon tetrachloride	0.9400	0.040	1	0.06	88.0	70	130	0.96	2.11	30	
Chlorobenzene	0.9100	0.15	1	0	91.0	70	130	0.91	0	30	
Chloroethane	0.9900	0.15	1	0	99.0	70	130	1.02	2.99	30	
Chloroform	1.170	0.15	1	0.42	75.0	70	130	1.27	8.20	30	
Chloromethane	1.430	0.15	1	0.75	68.0	70	130	1.42	0.702	30	S
cis-1,2-Dichloroethene	2.440	0.15	1	3.18	74.0	70	130	3.17	26.0	30	S
cis-1,3-Dichloropropene	0.9300	0.15	1	0	93.0	70	130	0.94	1.07	30	
Cyclohexane	0.9800	0.15	1	0.11	87.0	70	130	1.03	4.98	30	
Dibromochloromethane	0.9400	0.15	1	0	94.0	70	130	0.96	2.11	30	
Ethyl acetate	0.9500	0.15	1	0.13	82.0	70	130	0.94	1.06	30	
Ethylbenzene	0.9000	0.15	1	0	90.0	70	130	0.93	3.28	30	
Freon 11	1.090	0.15	1	0.19	90.0	70	130	1.12	2.71	30	
Freon 113	0.9600	0.15	1	0	96.0	70	130	1	4.08	30	
Freon 114	0.9800	0.15	1	0	98.0	70	130	0.99	1.02	30	
Freon 12	1.120	0.15	1	0.39	73.0	70	130	1.2	6.90	30	
Heptane	1.020	0.15	1	0	102	70	130	1.04	1.94	30	
Hexachloro-1,3-butadiene	0.9100	0.15	1	0	91.0	70	130	0.88	3.35	30	
Hexane	1.030	0.15	1	0.14	89.0	70	130	1.06	2.87	30	
Isopropyl alcohol	3.000	0.15	1	3.27	27.0	70	130	2.93	2.36	30	S
m&p-Xylene	1.850	0.30	2	0.18	83.5	70	130	1.88	1.61	30	
Methyl Butyl Ketone	0.1400	0.30	1	0	14.0	70	130	1.14	0	30	JS
Methyl Ethyl Ketone	0.9900	0.30	1	0.46	53.0	70	130	1.02	2.99	30	S

Qualifiers: J Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded

S Spike Recovery outside accepted recovery limits ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1704061
 Project: 690 St. Paul Street

TestCode: 0.25CT-TCE-VC

Sample ID: C1704061-002A MSD		MSD		SampType: MSD		TestCode: 0.25CT-TCE-		Units: ppbV		Prep Date:		RunNo: 12180	
Client ID: Rm 107		Batch ID: R12180		TestNo: TO-15		Analysis Date: 4/27/2017		SeqNo: 142416					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Methyl Isobutyl Ketone	0.3400	0.30	1	0	34.0	70	130	0.76	76.4	30	SR		
Methyl tert-butyl ether	0.8800	0.15	1	0	88.0	70	130	0.85	3.47	30			
Methylene chloride	1.140	0.15	1	0.32	82.0	70	130	1.22	6.78	30			
o-Xylene	0.9100	0.15	1	0	91.0	70	130	0.92	1.09	30			
Propylene	1.100	0.15	1	0	110	70	130	1.16	5.31	30			
Styrene	0.8900	0.15	1	0	89.0	70	130	0.9	1.12	30			
Tetrachloroethylene	0.9200	0.15	1	0	92.0	70	130	0.95	3.21	30			
Tetrahydrofuran	0.9200	0.15	1	0.13	79.0	70	130	0.92	0	30			
Toluene	1.100	0.15	1	0.32	78.0	70	130	1.17	6.17	30			
trans-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	70	130	0.99	4.12	30			
trans-1,3-Dichloropropene	0.9300	0.15	1	0	93.0	70	130	0.95	2.13	30			
Trichloroethene	1.980	0.040	1	2.48	-50.0	70	130	2.55	25.2	30	S		
Vinyl acetate	1.030	0.15	1	0	103	70	130	1.04	0.966	30			
Vinyl Bromide	0.9700	0.15	1	0	97.0	70	130	0.99	2.04	30			
Vinyl chloride	1.220	0.040	1	0.27	95.0	70	130	1.12	8.55	30			
Sur: Bromofluorobenzene	1.000	0	1	0	100	70	130	0	0	30			

Qualifiers: Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits

E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-001A

Client Sample ID: Rm 134
Tag Number: 95,278
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-5			"Hg		4/20/2017
Lab Vacuum Out	-30			"Hg		4/20/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/27/2017 4:34:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Acetone	9.2	6.0		ppbV	20	4/27/2017 5:12:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Benzene	0.12	0.15	J	ppbV	1	4/27/2017 4:34:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Bromoform	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Carbon tetrachloride	0.060	0.040		ppbV	1	4/27/2017 4:34:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Chloroform	0.17	0.15		ppbV	1	4/27/2017 4:34:00 AM
Chloromethane	0.53	0.15		ppbV	1	4/27/2017 4:34:00 AM
cis-1,2-Dichloroethene	0.26	0.15		ppbV	1	4/27/2017 4:34:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Ethyl acetate	0.13	0.15	J	ppbV	1	4/27/2017 4:34:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-001A

Client Sample ID: Rm 134
Tag Number: 95,278
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Freon 11	0.19	0.15		ppbV	1	4/27/2017 4:34:00 AM
Freon 113	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Freon 114	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Freon 12	0.39	0.15		ppbV	1	4/27/2017 4:34:00 AM
Heptane	0.43	0.15		ppbV	1	4/27/2017 4:34:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Hexane	0.11	0.15	J	ppbV	1	4/27/2017 4:34:00 AM
Isopropyl alcohol	3.0	3.0		ppbV	20	4/27/2017 5:12:00 AM
m&p-Xylene	0.17	0.30	J	ppbV	1	4/27/2017 4:34:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/27/2017 4:34:00 AM
Methyl Ethyl Ketone	0.41	0.30		ppbV	1	4/27/2017 4:34:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/27/2017 4:34:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Methylene chloride	0.32	0.15		ppbV	1	4/27/2017 4:34:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Propylene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Styrene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Toluene	0.27	0.15		ppbV	1	4/27/2017 4:34:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Trichloroethene	0.21	0.040		ppbV	1	4/27/2017 4:34:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/27/2017 4:34:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	4/27/2017 4:34:00 AM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	4/27/2017 4:34:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-002A

Client Sample ID: Rm 107
Tag Number: 483,721
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-9			"Hg		4/20/2017
Lab Vacuum Out	-30			"Hg		4/20/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,2,4-Trimethylbenzene	0.18	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/27/2017 5:55:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Acetone	6.2	6.0		ppbV	20	4/27/2017 8:05:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Benzene	0.13	0.15	J	ppbV	1	4/27/2017 5:55:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Bromoform	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Carbon tetrachloride	0.060	0.040		ppbV	1	4/27/2017 5:55:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Chloroform	0.42	0.15		ppbV	1	4/27/2017 5:55:00 AM
Chloromethane	0.75	0.15		ppbV	1	4/27/2017 5:55:00 AM
cis-1,2-Dichloroethene	3.2	3.0		ppbV	20	4/27/2017 8:05:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Cyclohexane	0.11	0.15	J	ppbV	1	4/27/2017 5:55:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Ethyl acetate	0.13	0.15	J	ppbV	1	4/27/2017 5:55:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-002A

Client Sample ID: Rm 107
Tag Number: 483,721
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Freon 11	0.19	0.15		ppbV	1	4/27/2017 5:55:00 AM
Freon 113	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Freon 114	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Freon 12	0.39	0.15		ppbV	1	4/27/2017 5:55:00 AM
Heptane	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Hexane	0.14	0.15	J	ppbV	1	4/27/2017 5:55:00 AM
Isopropyl alcohol	5.2	3.0		ppbV	20	4/27/2017 8:05:00 AM
m&p-Xylene	0.18	0.30	J	ppbV	1	4/27/2017 5:55:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/27/2017 5:55:00 AM
Methyl Ethyl Ketone	0.46	0.30		ppbV	1	4/27/2017 5:55:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/27/2017 5:55:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Methylene chloride	0.32	0.15		ppbV	1	4/27/2017 5:55:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Propylene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Styrene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Tetrahydrofuran	0.13	0.15	J	ppbV	1	4/27/2017 5:55:00 AM
Toluene	0.32	0.15		ppbV	1	4/27/2017 5:55:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Trichloroethene	2.6	0.80		ppbV	20	4/27/2017 8:05:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/27/2017 5:55:00 AM
Vinyl chloride	0.27	0.040		ppbV	1	4/27/2017 5:55:00 AM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	4/27/2017 5:55:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-003A

Client Sample ID: Stairwell
Tag Number: 226,251
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		4/20/2017
Lab Vacuum Out	-30			"Hg		4/20/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/27/2017 8:45:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Acetone	6.0	6.0		ppbV	20	4/27/2017 9:21:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Benzene	0.17	0.15		ppbV	1	4/27/2017 8:45:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Bromoform	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Carbon tetrachloride	0.080	0.040		ppbV	1	4/27/2017 8:45:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Chloroform	0.47	0.15		ppbV	1	4/27/2017 8:45:00 AM
Chloromethane	0.79	0.15		ppbV	1	4/27/2017 8:45:00 AM
cis-1,2-Dichloroethene	4.8	3.0		ppbV	20	4/27/2017 9:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Cyclohexane	0.11	0.15	J	ppbV	1	4/27/2017 8:45:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Ethyl acetate	0.13	0.15	J	ppbV	1	4/27/2017 8:45:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-003A

Client Sample ID: Stairwell
Tag Number: 226,251
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Freon 11	0.21	0.15		ppbV	1	4/27/2017 8:45:00 AM
Freon 113	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Freon 114	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Freon 12	0.42	0.15		ppbV	1	4/27/2017 8:45:00 AM
Heptane	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Hexane	0.13	0.15	J	ppbV	1	4/27/2017 8:45:00 AM
Isopropyl alcohol	1.8	0.15		ppbV	1	4/27/2017 8:45:00 AM
m&p-Xylene	0.22	0.30	J	ppbV	1	4/27/2017 8:45:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/27/2017 8:45:00 AM
Methyl Ethyl Ketone	0.39	0.30		ppbV	1	4/27/2017 8:45:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/27/2017 8:45:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Methylene chloride	0.21	0.15		ppbV	1	4/27/2017 8:45:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Propylene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Styrene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Tetrahydrofuran	0.12	0.15	J	ppbV	1	4/27/2017 8:45:00 AM
Toluene	0.36	0.15		ppbV	1	4/27/2017 8:45:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Trichloroethene	3.6	0.80		ppbV	20	4/27/2017 9:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/27/2017 8:45:00 AM
Vinyl chloride	0.47	0.040		ppbV	1	4/27/2017 8:45:00 AM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	4/27/2017 8:45:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-004A

Client Sample ID: Rm 117 DUP
Tag Number: 357,436
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-4			"Hg		4/20/2017
Lab Vacuum Out	-30			"Hg		4/20/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/27/2017 10:02:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Acetone	12	6.0		ppbV	20	4/27/2017 10:39:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Benzene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Bromoform	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Carbon tetrachloride	0.060	0.040		ppbV	1	4/27/2017 10:02:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Chloroform	0.18	0.15		ppbV	1	4/27/2017 10:02:00 AM
Chloromethane	1.0	0.15		ppbV	1	4/27/2017 10:02:00 AM
cis-1,2-Dichloroethene	0.73	0.15		ppbV	1	4/27/2017 10:02:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Ethyl acetate	0.14	0.15	J	ppbV	1	4/27/2017 10:02:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-004A

Client Sample ID: Rm 117 DUP
Tag Number: 357,436
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Freon 11	0.20	0.15		ppbV	1	4/27/2017 10:02:00 AM
Freon 113	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Freon 114	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Freon 12	0.39	0.15		ppbV	1	4/27/2017 10:02:00 AM
Heptane	0.13	0.15	J	ppbV	1	4/27/2017 10:02:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Hexane	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Isopropyl alcohol	8.2	3.0		ppbV	20	4/27/2017 10:39:00 AM
m&p-Xylene	0.15	0.30	J	ppbV	1	4/27/2017 10:02:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/27/2017 10:02:00 AM
Methyl Ethyl Ketone	0.49	0.30		ppbV	1	4/27/2017 10:02:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/27/2017 10:02:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Methylene chloride	0.18	0.15		ppbV	1	4/27/2017 10:02:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Propylene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Styrene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Toluene	0.22	0.15		ppbV	1	4/27/2017 10:02:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Trichloroethene	0.56	0.040		ppbV	1	4/27/2017 10:02:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/27/2017 10:02:00 AM
Vinyl chloride	0.070	0.040		ppbV	1	4/27/2017 10:02:00 AM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	4/27/2017 10:02:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-005A

Client Sample ID: Duplicate
Tag Number: 207,436
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-4			"Hg		4/20/2017
Lab Vacuum Out	-30			"Hg		4/20/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/27/2017 11:20:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Acetone	8.6	6.0		ppbV	20	4/27/2017 11:58:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Benzene	0.10	0.15	J	ppbV	1	4/27/2017 11:20:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Bromoform	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Carbon tetrachloride	0.060	0.040		ppbV	1	4/27/2017 11:20:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Chloroform	0.18	0.15		ppbV	1	4/27/2017 11:20:00 AM
Chloromethane	0.83	0.15		ppbV	1	4/27/2017 11:20:00 AM
cis-1,2-Dichloroethene	0.73	0.15		ppbV	1	4/27/2017 11:20:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Ethyl acetate	0.13	0.15	J	ppbV	1	4/27/2017 11:20:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-005A

Client Sample ID: Duplicate
Tag Number: 207,436
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Freon 11	0.20	0.15		ppbV	1	4/27/2017 11:20:00 AM
Freon 113	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Freon 114	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Freon 12	0.41	0.15		ppbV	1	4/27/2017 11:20:00 AM
Heptane	0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Hexane	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Isopropyl alcohol	6.2	3.0		ppbV	20	4/27/2017 11:58:00 AM
m&p-Xylene	0.14	0.30	J	ppbV	1	4/27/2017 11:20:00 AM
Methyl Butyl Ketone	0.12	0.30	J	ppbV	1	4/27/2017 11:20:00 AM
Methyl Ethyl Ketone	0.52	0.30		ppbV	1	4/27/2017 11:20:00 AM
Methyl Isobutyl Ketone	0.17	0.30	J	ppbV	1	4/27/2017 11:20:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Methylene chloride	0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Propylene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Styrene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Toluene	0.22	0.15		ppbV	1	4/27/2017 11:20:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Trichloroethene	0.57	0.040		ppbV	1	4/27/2017 11:20:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/27/2017 11:20:00 AM
Vinyl chloride	0.070	0.040		ppbV	1	4/27/2017 11:20:00 AM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	4/27/2017 11:20:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-006A

Client Sample ID: Roof
Tag Number: 1185,343
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		4/20/2017
Lab Vacuum Out	-30			"Hg		4/20/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
1,4-Dioxane	0.10	0.30	J	ppbV	1	4/27/2017 12:37:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Acetone	7.0	6.0		ppbV	20	4/27/2017 1:16:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Benzene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Bromoform	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Carbon tetrachloride	0.070	0.040		ppbV	1	4/27/2017 12:37:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Chloroform	0.42	0.15		ppbV	1	4/27/2017 12:37:00 PM
Chloromethane	0.67	0.15		ppbV	1	4/27/2017 12:37:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-006A

Client Sample ID: Roof
Tag Number: 1185,343
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Freon 11	0.21	0.15		ppbV	1	4/27/2017 12:37:00 PM
Freon 113	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Freon 114	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Freon 12	0.39	0.15		ppbV	1	4/27/2017 12:37:00 PM
Heptane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Hexane	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Isopropyl alcohol	0.72	0.15		ppbV	1	4/27/2017 12:37:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	4/27/2017 12:37:00 PM
Methyl Butyl Ketone	0.18	0.30	J	ppbV	1	4/27/2017 12:37:00 PM
Methyl Ethyl Ketone	0.19	0.30	J	ppbV	1	4/27/2017 12:37:00 PM
Methyl Isobutyl Ketone	0.20	0.30	J	ppbV	1	4/27/2017 12:37:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Methylene chloride	0.16	0.15		ppbV	1	4/27/2017 12:37:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Propylene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Styrene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Toluene	0.14	0.15	J	ppbV	1	4/27/2017 12:37:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Trichloroethene	0.27	0.040		ppbV	1	4/27/2017 12:37:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/27/2017 12:37:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	4/27/2017 12:37:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	4/27/2017 12:37:00 PM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-007A

Client Sample ID: Elevator
Tag Number: 237,388
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-6			"Hg		4/20/2017
Lab Vacuum Out	-30			"Hg		4/20/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,2,4-Trimethylbenzene	0.35	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,3,5-Trimethylbenzene	0.12	0.15	J	ppbV	1	4/27/2017 1:58:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
1,4-Dioxane	0.10	0.30	J	ppbV	1	4/27/2017 1:58:00 PM
2,2,4-trimethylpentane	0.12	0.15	J	ppbV	1	4/27/2017 1:58:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Acetone	7.7	3.0		ppbV	10	4/28/2017 1:59:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Benzene	0.41	0.15		ppbV	1	4/27/2017 1:58:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Bromoform	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Carbon tetrachloride	0.070	0.040		ppbV	1	4/27/2017 1:58:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Chloroform	0.26	0.15		ppbV	1	4/27/2017 1:58:00 PM
Chloromethane	0.74	0.15		ppbV	1	4/27/2017 1:58:00 PM
cis-1,2-Dichloroethene	0.21	0.15		ppbV	1	4/27/2017 1:58:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Cyclohexane	0.14	0.15	J	ppbV	1	4/27/2017 1:58:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Ethyl acetate	0.23	0.15		ppbV	1	4/27/2017 1:58:00 PM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-007A

Client Sample ID: Elevator
Tag Number: 237,388
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
		TO-15				Analyst: RJP
Ethylbenzene	0.16	0.15		ppbV	1	4/27/2017 1:58:00 PM
Freon 11	0.21	0.15		ppbV	1	4/27/2017 1:58:00 PM
Freon 113	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Freon 114	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Freon 12	0.41	0.15		ppbV	1	4/27/2017 1:58:00 PM
Heptane	0.19	0.15		ppbV	1	4/27/2017 1:58:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Hexane	0.47	0.15		ppbV	1	4/27/2017 1:58:00 PM
Isopropyl alcohol	2.0	0.15		ppbV	1	4/27/2017 1:58:00 PM
m&p-Xylene	0.58	0.30		ppbV	1	4/27/2017 1:58:00 PM
Methyl Butyl Ketone	0.18	0.30	J	ppbV	1	4/27/2017 1:58:00 PM
Methyl Ethyl Ketone	0.53	0.30		ppbV	1	4/27/2017 1:58:00 PM
Methyl Isobutyl Ketone	0.14	0.30	J	ppbV	1	4/27/2017 1:58:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Methylene chloride	0.34	0.15		ppbV	1	4/27/2017 1:58:00 PM
o-Xylene	0.22	0.15		ppbV	1	4/27/2017 1:58:00 PM
Propylene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Styrene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Tetrahydrofuran	0.26	0.15		ppbV	1	4/27/2017 1:58:00 PM
Toluene	0.89	0.15		ppbV	1	4/27/2017 1:58:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Trichloroethene	0.17	0.040		ppbV	1	4/27/2017 1:58:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/27/2017 1:58:00 PM
Vinyl chloride	0.040	0.040		ppbV	1	4/27/2017 1:58:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	4/27/2017 1:58:00 PM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-008A

Client Sample ID: Area In
Tag Number: 1192,145
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-7			"Hg		4/20/2017
Lab Vacuum Out	-30			"Hg		4/20/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/26/2017 10:27:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/26/2017 10:27:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/26/2017 10:27:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/26/2017 10:27:00 AM
Trichloroethene	< 0.040	0.040		ppbV	1	4/26/2017 10:27:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	4/26/2017 10:27:00 AM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	4/26/2017 10:27:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 09-May-17

CLIENT: LaBella Associates, P.C.
Lab Order: C1704061
Project: 690 St. Paul Street
Lab ID: C1704061-009A

Client Sample ID: Outdoor
Tag Number: 539,338
Collection Date: 4/18/2017
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-6			"Hg		4/20/2017
Lab Vacuum Out	-30			"Hg		4/20/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/26/2017 11:17:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/26/2017 11:17:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/26/2017 11:17:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/26/2017 11:17:00 AM
Trichloroethene	< 0.040	0.040		ppbV	1	4/26/2017 11:17:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	4/26/2017 11:17:00 AM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	4/26/2017 11:17:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC**Date:** 09-May-17**CLIENT:** LaBella Associates, P.C.**Client Sample ID:** Bldg 16**Lab Order:** C1704061**Tag Number:** 1180,404**Project:** 690 St. Paul Street**Collection Date:** 4/18/2017**Lab ID:** C1704061-010A**Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-13			"Hg		4/20/2017
Lab Vacuum Out	-30			"Hg		4/20/2017
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/26/2017 12:16:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	4/26/2017 12:16:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/26/2017 12:16:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/26/2017 12:16:00 PM
Trichloroethene	0.090	0.040		ppbV	1	4/26/2017 12:16:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	4/26/2017 12:16:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	4/26/2017 12:16:00 PM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

DATA USABILITY SUMMARY REPORT

for

LaBella Associates, P.C.

300 State Street

Rochester, NY 14614

690 ST PAUL SITE

Project 2170820

SDG: C1604014

Sampled 4/4/2016

TO-15 AIR SAMPLES

IN-01 (C1604014-01)

EX-01 (C1604014-02)

DATA ASSESSMENT

A TO-15 data package containing analytical results for two air samples was received from LaBella Associates, P.C. on 08May17. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the 690 St. Paul Site, were identified by Chain of Custody documents and traceable through the work of Centek Laboratories, LLC, the laboratory contracted for analysis. The analyses were performed using US EPA Method TO-15 and addressed measurements of sixty-three volatile organic compounds. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-31, Rev. #4, October 2006, Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15) was used as a technical reference.

The results reported from this pair of samples have been qualified as estimations because the collection of samples was not properly documented.

The acetone, methylene chloride and methyl ethyl ketone concentrations found in this delivery group have been qualified as estimations because they may represent laboratory artifacts.

The bromoform and hexachloro-1,3-butadiene results from this project have been qualified as estimations do to poor calibration performance.

The 1,4-dioxane, methyl butyl ketone, methyl isobutyl ketone and toluene results from this project, and the tetrachloroethene concentration found in IN-01, have been qualified as estimations due to unacceptable spiked blank recoveries.

The identification of 4-ethyltoluene in IN-01 could not be verified based on the mass spectra references included in the raw data. 4-Chlorotoluene should be interpreted as undetected in this sample.

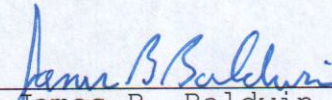
CORRECTNESS AND USABILITY

Although the results from this delivery group appear to provide a usable estimation of the conditions at the time of sample collection, it is stressed that these results could not withstand a legal challenge. Reported concentrations that are felt to provide a usable estimation of the conditions at the time of sampling have been flagged "J", "U" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be

guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL, Inc.

Date: 16 May 17

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the date of sampling. TO-15 samples must be analyzed within 14 days of collection.

This sample delivery group contained two air samples that were collected in 1-liter SUMMA canisters. Sampling was completed on 04Apr16. The canisters were shipped back to the laboratory, via FedEx Ground, on the day of collection and were received the following morning. Although the sample canisters were received intact, custody seals were not present on the packaging.

Both SUMMA canisters were set in the laboratory to collect 8-hour samples. Sampling was terminated, however, after 7 hours and 10 minutes based on the vacuum reading. The actual field gauge readings, prior to and at the completion of sampling, were not recorded. Although the laboratory's gauge readings seem to indicate that the samples were collected properly, without the field readings this cannot be assumed with complete confidence. The results reported from this pair of samples have been qualified as estimations because of the missing documentation. This data should only be considered usable if consistent with site history.

SAMPLE	PRIOR TO SHIPMENT ("Hg)	PRIOR TO SAMPLING ("Hg)	POST SAMPLING ("Hg)	LAB RECEIPT ("Hg)
IN-01	-30			-5
EX-01	-30			-5

The analysis of this pair of samples was completed on 07Apr16 and 08Apr16, satisfying the ASP holding time limitation.

CANISTER CERTIFICATION

The canisters used for this project were pressure tested at 30 psig for 24 hours. Both canisters demonstrated a change ≤ 0.5 psig over this period.

Both canisters were cleaned in the same batch. A blank analysis of a clean canister from this batch was free of targeted analyte contamination.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Trip Blanks monitor sampling activities, sample transport, and storage. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Two method blanks were analyzed with this group of samples. Both of these blanks demonstrated acceptable chromatography and were free of targeted analyte contamination.

Although not detected in the method blanks, acetone, methylene chloride and methyl ethyl ketone were found in both samples. These concentrations have been qualified as estimations because acetone, methylene chloride and methyl ethyl ketone are frequently present as laboratory artifacts. Acetone, methylene chloride (METH CL), and methyl ethyl ketone (MEK) could not be removed from sample reports because they were not found in the associated method blanks.

MS TUNING

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

BFB ion abundance criteria was reported from standards run before the initial instrument calibration and prior to the analysis of program samples on 07Apr16 and 08Apr16. Each of these checks satisfied the ASP acceptance criteria.

CALIBRATION

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration was performed on 16Mar16. Standards of 0.04, 0.10, 0.15, 0.30, 0.50, 0.75, 1.0, 1.25, 1.50 and 2.0 ppbV were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

Continuing calibration check standards were analyzed on 07Apr16 and 08Apr16, prior to the 24-hour periods of instrument operation that included samples from this program. When compared to the initial calibration, unacceptable shifts were observed in the instrument response of bromoform (142%) and hexachloro-1,3-butadiene (92%) on 07Apr16. The bromoform (BRFORM) and hexachloro-1,3-butadiene (CL6-13-BUT) results from IN-01 and EX-01 have been qualified as estimations based on this performance. The remaining targeted analytes demonstrated acceptable levels of instrument stability. It is noted that the 08Apr16 check was only associated with determinations of acetone.

SURROGATES

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Although surrogate summary sheets were properly prepared, an incorrect acceptance criteria was applied. However, when compared to the ASP requirements, acceptable surrogate recoveries were reported for each addition to this group of samples.

INTERNAL STANDARDS

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than 40%. When compared to the preceding calibration check, retention times may not vary by more than 10 seconds.

The laboratory recorded the response of each internal standard addition to this group of samples, and the response obtained from the preceding CCV standard. Although the control limits based on the response of the CCV were not reported, they were calculated by this reviewer. When compared to these limits, acceptable performance was reported for the internal standard additions to each program sample.

Internal standard retention times were not addressed. The ASP retention time acceptance criteria was calculated by this reviewer. The retention times produced by each program sample satisfied these requirements.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

Although a sample from this program was not selected for matrix spiking, two pairs of spiked blanks (LCS/LCSD) were analyzed with the delivery group. The recoveries reported from the 07Apr16 spiked blanks included unacceptable results for bromoform (230%, 227%), hexachloro-1,3-butadiene (183%), 1,4-dioxane (37%), methyl butyl ketone (30%), methyl isobutyl ketone (23%), tetrachloroethene (179%) and toluene (200%). The positive bias indicated by the high recoveries of bromoform and hexachloro-1,3-butadiene warrant no concern because bromoform and hexachloro-1,3-butadiene were not detected in IN-01 or EX-01. The 1,4-dioxane, methyl butyl ketone, methyl isobutyl ketone and toluene results from both samples and the tetrachloroethene (CL4ENE) concentration found in IN-01 have been qualified as estimations based on the observed indications of bias.

Poor precision was also observed in measurements of 1,2,4-trichlorobenzene and acetone. Data has not been qualified due to this performance because each individual measurement fell within the ASP range of acceptance.

The 08Apr16 LCS/LCSD pair was only evaluated for acetone. The acetone recoveries were acceptable.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

A duplicate sample was not included in this delivery group.

REPORTED ANALYTES

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples.

The presence of 4-ethyltoluene in IN-01 could not be confirmed, based on the mass spectra references included in the raw data. 4-Ethyltoluene (4ETHTOL) should be interpreted as undetected in this sample.

SUMMARY OF QUALIFIED DATA

	BLANK ACETONE	BLANK METH CL	BLANK MEK	CALIBRATE BRFORM	CALIBRATE CL6-13-BUT	SPK BLK LCS*	SPK BLK CL4ENE	MS ID 4ETHTOL
IN-01 (C1604014-01)	12J	1.2J	3.7J	1.6UJ	1.6UJ	ALL J/UJ	0.68J	0.74U
EX-01 (C1604014-02)	9.7J	1.3J	0.94J	1.6UJ	1.6UJ	ALL J/UJ		

LCS* = 1,4-dioxane, methyl butyl ketone, methyl isobutyl ketone, toluene

	DOCUMENTATION
IN-01 (C1604014-01)	ALL J/UJ
EX-01 (C1604014-02)	ALL J/UJ

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-001A

Client Sample ID: IN-01
 Tag Number: 1184 402
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 11:42:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/7/2016 11:42:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 11:42:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 11:42:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 11:42:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/7/2016 11:42:00 PM
1,2,4-Trimethylbenzene	4.7	0.74		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/7/2016 11:42:00 PM
1,3,5-Trimethylbenzene	1.7	0.74		ug/m3	1	4/7/2016 11:42:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/7/2016 11:42:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 11:42:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 11:42:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/7/2016 11:42:00 PM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	4/7/2016 11:42:00 PM
4-ethyltoluene	0.74	0.74		ug/m3	1	4/7/2016 11:42:00 PM
Acetone	12	7.1		ug/m3	10	4/8/2016 9:30:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/7/2016 11:42:00 PM
Benzene	2.0	0.48		ug/m3	1	4/7/2016 11:42:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/7/2016 11:42:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/7/2016 11:42:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	4/7/2016 11:42:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	4/7/2016 11:42:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/7/2016 11:42:00 PM
Carbon tetrachloride	0.82	0.25		ug/m3	1	4/7/2016 11:42:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/7/2016 11:42:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/7/2016 11:42:00 PM
Chloroform	1.0	0.73		ug/m3	1	4/7/2016 11:42:00 PM
Chloromethane	1.7	0.31		ug/m3	1	4/7/2016 11:42:00 PM
cis-1,2-Dichloroethene	0.44	0.59	J	ug/m3	1	4/7/2016 11:42:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 11:42:00 PM
Cyclohexane	0.93	0.52		ug/m3	1	4/7/2016 11:42:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/7/2016 11:42:00 PM
Ethyl acetate	0.83	0.90	J	ug/m3	1	4/7/2016 11:42:00 PM
Ethylbenzene	1.2	0.65		ug/m3	1	4/7/2016 11:42:00 PM
Freon 11	2.0	0.84		ug/m3	1	4/7/2016 11:42:00 PM
Freon 113	1.1	1.1	J	ug/m3	1	4/7/2016 11:42:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	4/7/2016 11:42:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-001A

Client Sample ID: IN-01
 Tag Number: 1184 402
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12 -	3.8 J	0.74		ug/m3	1	4/7/2016 11:42:00 PM
Heptane -	1.9 J	0.61		ug/m3	1	4/7/2016 11:42:00 PM
Hexachloro-1,3-butadiene	< 1.6 SJ	1.6		ug/m3	1	4/7/2016 11:42:00 PM
Hexane -	3.6 J	0.53		ug/m3	1	4/7/2016 11:42:00 PM
Isopropyl alcohol -	1.8 J	0.37		ug/m3	1	4/7/2016 11:42:00 PM
m&p-Xylene -	3.9 J	1.3		ug/m3	1	4/7/2016 11:42:00 PM
Methyl Butyl Ketone	< 1.2 SJ	1.2		ug/m3	1	4/7/2016 11:42:00 PM
Methyl Ethyl Ketone -	3.7 J	0.88		ug/m3	1	4/7/2016 11:42:00 PM
Methyl Isobutyl Ketone	< 1.2 SJ	1.2		ug/m3	1	4/7/2016 11:42:00 PM
Methyl tert-butyl ether	< 0.54 SJ	0.54		ug/m3	1	4/7/2016 11:42:00 PM
Methylene chloride -	1.2 J	0.52		ug/m3	1	4/7/2016 11:42:00 PM
o-Xylene -	1.5 J	0.65		ug/m3	1	4/7/2016 11:42:00 PM
Propylene	< 0.26 SJ	0.26		ug/m3	1	4/7/2016 11:42:00 PM
Styrene	< 0.64 SJ	0.64		ug/m3	1	4/7/2016 11:42:00 PM
Tetrachloroethylene -	0.68 J	1.0	J	ug/m3	1	4/7/2016 11:42:00 PM
Tetrahydrofuran -	6.6 J	0.44		ug/m3	1	4/7/2016 11:42:00 PM
Toluene -	4.9 J	0.57		ug/m3	1	4/7/2016 11:42:00 PM
trans-1,2-Dichloroethene	< 0.59 SJ	0.59		ug/m3	1	4/7/2016 11:42:00 PM
trans-1,3-Dichloropropene	< 0.68 SJ	0.68		ug/m3	1	4/7/2016 11:42:00 PM
Trichloroethene -	1.1 J	0.21		ug/m3	1	4/7/2016 11:42:00 PM
Vinyl acetate	< 0.53 SJ	0.53		ug/m3	1	4/7/2016 11:42:00 PM
Vinyl Bromide	< 0.66 SJ	0.66		ug/m3	1	4/7/2016 11:42:00 PM
Vinyl chloride	< 0.10 SJ	0.10		ug/m3	1	4/7/2016 11:42:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-002A

Client Sample ID: EX-01
 Tag Number: 171 259
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/8/2016 12:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/8/2016 12:21:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/8/2016 12:21:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/8/2016 12:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/8/2016 12:21:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/8/2016 12:21:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/8/2016 12:21:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/8/2016 12:21:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/8/2016 12:21:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/8/2016 12:21:00 AM
1,4-Dioxane	< 1.1 <i>UJ</i>	1.1		ug/m3	1	4/8/2016 12:21:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/8/2016 12:21:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/8/2016 12:21:00 AM
Acetone -	9.7 <i>J</i>	7.1		ug/m3	10	4/8/2016 10:07:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/8/2016 12:21:00 AM
Benzene -	0.57	0.48		ug/m3	1	4/8/2016 12:21:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/8/2016 12:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM
Bromoform	< 1.6 <i>UJ</i>	1.6		ug/m3	1	4/8/2016 12:21:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	4/8/2016 12:21:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/8/2016 12:21:00 AM
Carbon tetrachloride -	0.94	0.25		ug/m3	1	4/8/2016 12:21:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/8/2016 12:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/8/2016 12:21:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	4/8/2016 12:21:00 AM
Chloromethane -	1.6	0.31		ug/m3	1	4/8/2016 12:21:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/8/2016 12:21:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/8/2016 12:21:00 AM
Cyclohexane -	0.55	0.52		ug/m3	1	4/8/2016 12:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/8/2016 12:21:00 AM
Ethyl acetate -	0.47	0.90	J	ug/m3	1	4/8/2016 12:21:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/8/2016 12:21:00 AM
Freon 11 -	2.1	0.84		ug/m3	1	4/8/2016 12:21:00 AM
Freon 113 -	1.0	1.1	J	ug/m3	1	4/8/2016 12:21:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-002A

Client Sample ID: EX-01
 Tag Number: 171 259
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12 -	3.9	0.74		ug/m3	1	4/8/2016 12:21:00 AM
Heptane	< 0.61	0.61		ug/m3	1	4/8/2016 12:21:00 AM
Hexachloro-1,3-butadiene	< 1.6 <i>UJ</i>	1.6		ug/m3	1	4/8/2016 12:21:00 AM
Hexane -	0.63	0.53		ug/m3	1	4/8/2016 12:21:00 AM
Isopropyl alcohol -	1.6	0.37		ug/m3	1	4/8/2016 12:21:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	4/8/2016 12:21:00 AM
Methyl Butyl Ketone	< 1.2 <i>UJ</i>	1.2		ug/m3	1	4/8/2016 12:21:00 AM
Methyl Ethyl Ketone -	0.94 <i>J</i>	0.88		ug/m3	1	4/8/2016 12:21:00 AM
Methyl Isobutyl Ketone	< 1.2 <i>UJ</i>	1.2		ug/m3	1	4/8/2016 12:21:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/8/2016 12:21:00 AM
Methylene chloride -	1.3 <i>J</i>	0.52		ug/m3	1	4/8/2016 12:21:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	4/8/2016 12:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/8/2016 12:21:00 AM
Styrene	< 0.64	0.64		ug/m3	1	4/8/2016 12:21:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM
Tetrahydrofuran -	0.32	0.44 <i>J</i>		ug/m3	1	4/8/2016 12:21:00 AM
Toluene -	0.79 <i>J</i>	0.57		ug/m3	1	4/8/2016 12:21:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/8/2016 12:21:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/8/2016 12:21:00 AM
Trichloroethene -	0.38	0.21		ug/m3	1	4/8/2016 12:21:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/8/2016 12:21:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/8/2016 12:21:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/8/2016 12:21:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AN040703.D

Tune Time : 7 Apr 2016 10:03 am

Daily Calibration File : C:\HPCHEM\1\DATA\AN040703.D

				31389	73573	52594
(BFB)				(IS1)	(IS2)	(IS3)
				22421	52552	37567
				13453	31531	22540
File	Sample	DL	Surrogate Recovery %	Internal	Standard	Responses
AN040704.D	ALCS1UG-040716	107	✓	20223 ✓	51551 ✓	38203 ✓
AN040705.D	AMB1UG-040716	81		20210	49287	44006
AN040721.D	ALCS1UGD-040716	113		23962	61175	52386
AN040724.D	C1604014-001A	116		23770	65045	45273
AN040725.D	C1604014-002A	95		22047	55294	49453

t - fails 24hr time check * - fails criteria

Created: Wed May 11 08:54:45 2016 MSD #1/

Upper	9.98	12.22	16.74
CCV	9.82	12.05	16.57
Lower	9.65	11.88	16.40
IN-01	9.81	12.05	16.56
EX-01	9.83	12.07	16.56

Centek Laboratories, LLC

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AN040805.D

Tune Time : 8 Apr 2016 4:12 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AN040805.D

				(BFB)	(IS1)	(IS2)	(IS3)
					33933	83484	60983
					20360	50690	36590
File	Sample	DL	Surrogate Recovery %	Internal	Standard	Responses	
AN040806.D	ALCS1UG-040816	108		37018	86582	62657	
AN040807.D	AMBLUG-040816	77		33169	80248	69691	
AN040813.D	C1604014-001A 10X	85		26019	59926	59512	
AN040814.D	C1604014-002A 10X	83		24898	62076	59832	
AN040817.D	ALCS1UGD-040816	104		34735	78448	56597	

t - fails 24hr time check * - fails criteria

Created: Wed May 11 08:56:26 2016 MSD #1/

		9.98	12.22	16.73
Upper		9.81	12.05	16.56
CCV		9.64	11.88	16.39
Lower				
IN-01	10X	9.84	12.08	16.57
EX-01	10X	9.86	12.08	16.57

Date: 13-May-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040716	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID:	ZZZZZ	Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 128357					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.200	0.15	1	0	120	70	130				
1,1,2,2-Tetrachloroethane	1.170	0.15	1	0	117	70	130				
1,1,2-Trichloroethane	1.180	0.15	1	0	118	70	130				
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130				
1,1-Dichloroethene	1.080	0.15	1	0	108	70	130				
1,2,4-Trichlorobenzene	1.060	0.15	1	0	106	70	130				
1,2,4-Trimethylbenzene	0.9400	0.15	1	0	94.0	70	130				
1,2-Dibromoethane	1.160	0.15	1	0	116	70	130				
1,2-Dichlorobenzene	1.190	0.15	1	0	119	70	130				
1,2-Dichloroethane	0.9500	0.15	1	0	95.0	70	130				
1,2-Dichloropropane	1.170	0.15	1	0	117	70	130				
1,3,5-Trimethylbenzene	1.060	0.15	1	0	106	70	130				
1,3-butadiene	1.030	0.15	1	0	103	70	130				
1,3-Dichlorobenzene	1.180	0.15	1	0	118	70	130				
1,4-Dichlorobenzene	1.090	0.15	1	0	109	70	130				
1,4-Dioxane	1.140	0.30	1	0	114	70	130				
2,2,4-trimethylpentane	1.220	0.15	1	0	122	70	130				
4-ethyltoluene	0.9900	0.15	1	0	99.0	70	130				
Acetone	1.190	0.30	1	0	119	70	130				
Allyl chloride	0.8300	0.15	1	0	83.0	70	130				
Benzene	1.130	0.15	1	0	113	70	130				
Benzyl chloride	0.7500	0.15	1	0	75.0	70	130				
Bromodichloromethane	1.200	0.15	1	0	120	70	130				
Bromoform	2.300	0.15	1	0	230	70	130				
Bromomethane	1.160	0.15	1	0	116	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

HI Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040716	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID: ZZZZZ	Batch ID: R10853	TestNo: TO-15			Analysis Date: 4/7/2016	SeqNo: 128357					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9600	0.15	1	0	96.0	70	130				
Carbon tetrachloride	1.220	0.040	1	0	122	70	130				
Chlorobenzene	1.070	0.15	1	0	107	70	130				
Chloroethane	1.150	0.15	1	0	115	70	130				
Chloroform	0.9900	0.15	1	0	99.0	70	130				
Chloromethane	1.150	0.15	1	0	115	70	130				
cis-1,2-Dichloroethene	0.9300	0.15	1	0	93.0	70	130				
cis-1,3-Dichloropropene	1.150	0.15	1	0	115	70	130				
Cyclohexane	1.120	0.15	1	0	112	70	130				
Dibromochloromethane	1.160	0.15	1	0	116	70	130				
Ethyl acetate	0.8800	0.25	1	0	88.0	70	130				
Ethylbenzene	0.9700	0.15	1	0	97.0	70	130				
Freon 11	1.180	0.15	1	0	118	70	130				
Freon 113	1.190	0.15	1	0	119	70	130				
Freon 114	1.190	0.15	1	0	119	70	130				
Freon 12	1.160	0.15	1	0	116	70	130				
Heptane	0.9700	0.15	1	0	97.0	70	130				
Hexachloro-1,3-butadiene	1.830	0.15	1	0	183	70	130				
Hexane	0.8200	0.15	1	0	82.0	70	130				
Isopropyl alcohol	0.9900	0.15	1	0	99.0	70	130				
m&p-Xylene	1.890	0.30	2	0	94.5	70	130				
Methyl Butyl Ketone	0.7100	0.30	1	0	71.0	70	130				
Methyl Ethyl Ketone	0.8400	0.30	1	0	84.0	70	130				
Methyl Isobutyl Ketone	0.8400	0.30	1	0	84.0	70	130				
Methyl tert-butyl ether	0.9300	0.15	1	0	93.0	70	130				
Methylene chloride	1.130	0.15	1	0	113	70	130				
o-Xylene	0.9700	0.15	1	0	97.0	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	1.050	0.15	1	0	105	70	130				
Tetrachloroethylene	0.8700	0.15	1	0	87.0	70	130				
Tetrahydrofuran	0.8700	0.15	1	0	87.0	70	130				

Qualifiers: . Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Page 2 of 5

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040716	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10853					
Client ID: ZZZZZ		Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 128357					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.7900	0.15	1	0	79.0	70	130				
trans-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	70	130				
trans-1,3-Dichloropropene	1.030	0.15	1	0	103	70	130				
Trichloroethene	1.170	0.040	1	0	117	70	130				
Vinyl acetate	0.8000	0.15	1	0	80.0	70	130				
Vinyl Bromide	1.130	0.15	1	0	113	70	130				
Vinyl chloride	1.060	0.040	1	0	106	70	130				
Surr: Bromofluorobenzene	1.070	0	1	0	107	70	130				

Sample ID	ALCS1UG-040816	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID:	ZZZZZ	Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 128359					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.000	0.15	1	0	100	70	130				
1,1,2,2-Tetrachloroethane	0.9100	0.15	1	0	91.0	70	130				
1,1,2-Trichloroethane	1.080	0.15	1	0	108	70	130				
1,1-Dichloroethane	0.7800	0.15	1	0	78.0	70	130				
1,1-Dichloroethene	0.8500	0.15	1	0	85.0	70	130				
1,2,4-Trichlorobenzene	0.7600	0.15	1	0	76.0	70	130				
1,2,4-Trimethylbenzene	0.7700	0.15	1	0	77.0	70	130				
1,2-Dibromoethane	0.9200	0.15	1	0	92.0	70	130				
1,2-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130				
1,2-Dichloroethane	0.7200	0.15	1	0	72.0	70	130				
1,2-Dichloropropane	0.9000	0.15	1	0	90.0	70	130				
1,3,5-Trimethylbenzene	0.9000	0.15	1	0	90.0	70	130				
1,3-butadiene	0.7500	0.15	1	0	75.0	70	130				
1,3-Dichlorobenzene	1.090	0.15	1	0	109	70	130				
1,4-Dichlorobenzene	1.050	0.15	1	0	105	70	130				
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130				
2,2,4-trimethylpentane	1.000	0.15	1	0	100	70	130				

4/8/16 LCS For acetone. JMS

4/8/16 LCS For acetone only
 MS

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

TestCode: 0.25CT-TCE-VC

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

Sample ID	ALCS1UG-040816	Batch ID	SampType	LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	Analysis Date: 4/8/2016	RunNo: 10855	SeqNo: 128359	
Client ID:	ZZZZZ				TestNo: TO-15						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	0.8700	0.15	1	0	87.0	70	130				
Acetone	0.8500	0.30	1	0	85.0	70	130				
Allyl chloride	0.7100	0.15	1	0	71.0	70	130				
Benzene	0.9100	0.15	1	0	91.0	70	130				
Benzyl chloride	0.9500	0.15	1	0	95.0	70	130				
Bromodichloromethane	1.050	0.15	1	0	105	70	130				
Bromoform	2.130	0.15	1	0	213	70	130				
Bromomethane	0.8900	0.15	1	0	89.0	70	130				
Carbon disulfide	0.7700	0.15	1	0	77.0	70	130				
Carbon tetrachloride	1.080	0.040	1	0	108	70	130				
Chlorobenzene	0.9000	0.15	1	0	90.0	70	130				
Chloroethane	0.8600	0.15	1	0	86.0	70	130				
Chloroform	0.7600	0.15	1	0	76.0	70	130				
Chloromethane	0.8200	0.15	1	0	82.0	70	130				
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130				
cis-1,3-Dichloropropene	1.060	0.15	1	0	106	70	130				
Cyclohexane	0.8700	0.15	1	0	87.0	70	130				
Dibromochloromethane	0.9700	0.15	1	0	97.0	70	130				
Ethyl acetate	0.7100	0.25	1	0	71.0	70	130				
Ethylbenzene	0.8000	0.15	1	0	80.0	70	130				
Freon 11	0.9400	0.15	1	0	94.0	70	130				
Freon 113	0.9600	0.15	1	0	96.0	70	130				
Freon 114	0.8700	0.15	1	0	87.0	70	130				
Freon 12	0.9000	0.15	1	0	90.0	70	130				
Heptane	0.7600	0.15	1	0	76.0	70	130				
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	70	130				
Hexane	0.6600	0.15	1	0	66.0	70	130				
Isopropyl alcohol	0.7500	0.15	1	0	75.0	70	130				
m&p-Xylene	1.600	0.30	2	0	80.0	70	130				
Methyl Butyl Ketone	0.6100	0.30	1	0	61.0	70	130				
Methyl Ethyl Ketone	0.7500	0.30	1	0	75.0	70	130				

4/8/16 LCS for acetone only
 MS

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040816	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID:	ZZZZZ	Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 128359					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	0.7100	0.30	1	0	71.0	70	130				
Methyl tert-butyl ether	0.7100	0.15	1	0	71.0	70	130				
Methylene chloride	0.9200	0.15	1	0	92.0	70	130				
o-Xylene	0.8400	0.15	1	0	84.0	70	130				
Propylene	0.7500	0.15	1	0	75.0	70	130				
Styrene	0.9700	0.15	1	0	97.0	70	130				
Tetrachloroethylene	0.8400	0.15	1	0	84.0	70	130				
Tetrahydrofuran	0.7100	0.15	1	0	71.0	70	130				
Toluene	0.7800	0.15	1	0	78.0	70	130				
trans-1,2-Dichloroethene	0.7100	0.15	1	0	71.0	70	130				
trans-1,3-Dichloropropene	1.090	0.15	1	0	109	70	130				
Trichloroethene	1.040	0.040	1	0	104	70	130				
Vinyl acetate	0.8700	0.15	1	0	87.0	70	130				
Vinyl Bromide	0.9000	0.15	1	0	90.0	70	130				
Vinyl chloride	0.7000	0.040	1	0	70.0	70	130				
Surr: Bromofluorobenzene	1.080	0	1	0	108	70	130				

4/8/16 LCS For acetone

MS

4/8/16 LCS For acetone only
 MS

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

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Date: 13-May-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040716	Batch ID: R10853	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853	SeqNo: 128358			
Client ID: ZZZZZ				TestNo: TO-15		Analysis Date: 4/7/2016					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.220	0.15	1	0	122	70	130	1.2	1.65	30	
1,1,2,2-Tetrachloroethane	1.140	0.15	1	0	114	70	130	1.17	2.60	30	
1,1,2-Trichloroethane	1.280	0.15	1	0	128	70	130	1.18	8.13	30	
1,1-Dichloroethane	1.060	0.15	1	0	106	70	130	1.03	2.87	30	
1,1-Dichloroethene	1.090	0.15	1	0	109	70	130	1.08	0.922	30	
1,2,4-Trichlorobenzene	0.7300	0.15	1	0	73.0	70	130	1.06	36.9	30	R
1,2,4-Trimethylbenzene	0.9400	0.15	1	0	94.0	70	130	0.94	0	30	
1,2-Dibromoethane	1.080	0.15	1	0	108	70	130	1.16	7.14	30	
1,2-Dichlorobenzene	0.9800	0.15	1	0	98.0	70	130	1.19	19.4	30	
1,2-Dichloroethane	0.9600	0.15	1	0	96.0	70	130	0.95	1.05	30	
1,2-Dichloropropane	1.220	0.15	1	0	122	70	130	1.17	4.18	30	
1,3,5-Trimethylbenzene	1.190	0.15	1	0	119	70	130	1.06	11.6	30	
1,3-butadiene	1.070	0.15	1	0	107	70	130	1.03	3.81	30	
1,3-Dichlorobenzene	1.130	0.15	1	0	113	70	130	1.18	4.33	30	
1,4-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.09	2.79	30	
1,4-Dioxane	0.3700	0.30	1	0	37.0	70	130	1.14	102	30	SR
2,2,4-trimethylpentane	1.260	0.15	1	0	126	70	130	1.22	3.23	30	
4-ethyltoluene	1.040	0.15	1	0	104	70	130	0.99	4.93	30	
Acetone	0.8400	0.30	1	0	84.0	70	130	1.19	34.5	30	R
Allyl chloride	0.9800	0.15	1	0	98.0	70	130	0.83	16.6	30	
Benzene	1.230	0.15	1	0	123	70	130	1.13	8.47	30	
Benzyl chloride	0.9400	0.15	1	0	94.0	70	130	0.75	22.5	30	
Bromodichloromethane	1.130	0.15	1	0	113	70	130	1.2	6.01	30	
Bromoform	2.270	0.15	1	0	227	70	130	2.3	1.31	30	S
Bromomethane	1.150	0.15	1	0	115	70	130	1.16	0.866	30	

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 R Spike Recovery outside accepted recovery limits

E Value above quantitation range
 NID Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040716	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID: ZZZZZ	Batch ID: R10853		TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 128358					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Carbon disulfide	1.040	0.15	1	0	104	70	130	0.96	8.00	30	
Carbon tetrachloride	1.290	0.040	1	0	129	70	130	1.22	5.58	30	
Chlorobenzene	1.150	0.15	1	0	115	70	130	1.07	7.21	30	
Chloroethane	1.110	0.15	1	0	111	70	130	1.15	3.54	30	
Chloroform	0.9900	0.15	1	0	99.0	70	130	0.99	0	30	
Chloromethane	1.180	0.15	1	0	118	70	130	1.15	2.58	30	
cis-1,2-Dichloroethene	1.010	0.15	1	0	101	70	130	0.93	8.25	30	
cis-1,3-Dichloropropene	1.260	0.15	1	0	126	70	130	1.15	9.13	30	
Cyclohexane	1.240	0.15	1	0	124	70	130	1.12	10.2	30	
Dibromochloromethane	1.070	0.15	1	0	107	70	130	1.16	8.07	30	
Ethyl acetate	0.8800	0.25	1	0	88.0	70	130	0.88	0	30	
Ethylbenzene	1.130	0.15	1	0	113	70	130	0.97	15.2	30	
Freon 11	1.130	0.15	1	0	113	70	130	1.18	4.33	30	
Freon 113	1.190	0.15	1	0	119	70	130	1.19	0	30	
Freon 114	1.190	0.15	1	0	119	70	130	1.19	0	30	
Freon 12	1.190	0.15	1	0	119	70	130	1.16	2.55	30	
Heptane	1.100	0.15	1	0	110	70	130	0.97	12.6	30	
Hexachloro-1,3-butadiene	1.220	0.15	1	0	122	70	130	1.83	40.0	30	R
Hexane	0.9600	0.15	1	0	96.0	70	130	0.82	15.7	30	
Isopropyl alcohol	0.7900	0.15	1	0	79.0	70	130	0.99	22.5	30	
m&p-Xylene	2.360	0.30	2	0	118	70	130	1.89	22.1	30	
Methyl Butyl Ketone	0.3000	0.30	1	0	30.0	70	130	0.71	81.2	30	SR
Methyl Ethyl Ketone	1.020	0.30	1	0	102	70	130	0.84	19.4	30	
Methyl Isobutyl Ketone	0.2300	0.30	1	0	23.0	70	130	0.84	0	30	JS
Methyl tert-butyl ether	0.9900	0.15	1	0	99.0	70	130	0.93	6.25	30	
Methylene chloride	1.180	0.15	1	0	118	70	130	1.13	4.33	30	
o-Xylene	1.190	0.15	1	0	119	70	130	0.97	20.4	30	
Propylene	1.170	0.15	1	0	117	70	130	0.95	20.8	30	
Styrene	1.210	0.15	1	0	121	70	130	1.05	14.2	30	
Tetrachloroethylene	0.8300	0.15	1	0	83.0	70	130	0.87	4.71	30	
Tetrahydrofuran	1.790	0.15	1	0	179	70	130	0.87	69.2	30	SR

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 R Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040716	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853				
Client ID: ZZZZZ	Batch ID: R10853	Result	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 128358				
Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.15	1	0	200	70	130	0.79	86.7	3035	SR
trans-1,2-Dichloroethene	0.15	1	0	103	70	130	0.95	8.08	30	
trans-1,3-Dichloropropene	0.15	1	0	119	70	130	1.03	14.4	30	
Trichloroethene	0.040	1	0	122	70	130	1.17	4.18	30	
Vinyl acetate	0.15	1	0	90.0	70	130	0.8	11.8	30	
Vinyl Bromide	0.15	1	0	114	70	130	1.13	0.881	30	
Vinyl chloride	0.040	1	0	105	70	130	1.06	0.948	30	
Surr: Bromofluorobenzene	0	1	0	113	70	130	0	0	30	

Sample ID	ALCS1UGD-040816	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855				
Client ID: ZZZZZ	Batch ID: R10855	Result	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 128360				
Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.15	1	0	106	70	130	1	5.83	30	
1,1,2,2-Tetrachloroethane	0.15	1	0	100	70	130	0.91	9.42	30	
1,1,2-Trichloroethane	0.15	1	0	121	70	130	1.08	11.4	30	
1,1-Dichloroethane	0.15	1	0	77.0	70	130	0.78	1.29	30	
1,1-Dichloroethene	0.15	1	0	88.0	70	130	0.85	3.47	30	
1,2,4-Trichlorobenzene	0.15	1	0	72.0	70	130	0.76	5.41	30	
1,2,4-Trimethylbenzene	0.15	1	0	84.0	70	130	0.77	8.70	30	
1,2-Dibromoethane	0.15	1	0	99.0	70	130	0.92	7.33	30	
1,2-Dichlorobenzene	0.15	1	0	110	70	130	0.99	10.5	30	
1,2-Dichloroethane	0.15	1	0	80.0	70	130	0.72	10.5	30	
1,2-Dichloropropane	0.15	1	0	88.0	70	130	0.9	2.25	30	
1,3,5-Trimethylbenzene	0.15	1	0	98.0	70	130	0.9	8.51	30	
1,3-butadiene	0.15	1	0	79.0	70	130	0.75	5.19	30	
1,3-Dichlorobenzene	0.15	1	0	115	70	130	1.09	5.36	30	
1,4-Dichlorobenzene	0.15	1	0	106	70	130	1.05	0.948	30	
1,4-Dioxane	0.30	1	0	59.0	70	130	0.74	22.6	30	S
2,2,4-trimethylpentane	0.15	1	0	103	70	130	1	2.96	30	

4/8/16 LCSD
 For acceptance
 only
 7/1/17

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 NID Not Detected at site Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040816	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID:	ZZZZZ	Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 128360					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	0.9400	0.15	1	0	94.0	70	130	0.87	7.73	30	
Acetone	0.7700	0.30	1	0	77.0	70	130	0.85	9.88	30	
Allyl chloride	0.7800	0.15	1	0	78.0	70	130	0.71	9.40	30	
Benzene	0.9500	0.15	1	0	95.0	70	130	0.91	4.30	30	
Benzyl chloride	0.7100	0.15	1	0	71.0	70	130	0.95	28.9	30	
Bromodichloromethane	1.110	0.15	1	0	111	70	130	1.05	5.56	30	
Bromoform	2.130	0.15	1	0	213	70	130	2.13	0	30	S
Bromomethane	0.9700	0.15	1	0	97.0	70	130	0.89	8.60	30	
Carbon disulfide	0.7600	0.15	1	0	76.0	70	130	0.77	1.31	30	
Carbon tetrachloride	1.160	0.040	1	0	116	70	130	1.08	7.14	30	
Chlorobenzene	0.9300	0.15	1	0	93.0	70	130	0.9	3.28	30	
Chloroethane	0.8000	0.15	1	0	80.0	70	130	0.86	7.23	30	
Chloroform	0.7800	0.15	1	0	78.0	70	130	0.76	2.60	30	
Chloromethane	0.8500	0.15	1	0	85.0	70	130	0.82	3.59	30	
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130	0.72	0	30	
cis-1,3-Dichloropropene	1.070	0.15	1	0	107	70	130	1.06	0.939	30	
Cyclohexane	0.8800	0.15	1	0	88.0	70	130	0.87	1.14	30	
Dibromochloromethane	1.030	0.15	1	0	103	70	130	0.97	6.00	30	
Ethyl acetate	0.7100	0.25	1	0	71.0	70	130	0.71	0	30	
Ethylbenzene	0.7500	0.15	1	0	75.0	70	130	0.8	6.45	30	
Freon 11	0.9900	0.15	1	0	99.0	70	130	0.94	5.18	30	
Freon 113	1.000	0.15	1	0	100	70	130	0.96	4.08	30	
Freon 114	0.8800	0.15	1	0	88.0	70	130	0.87	1.14	30	
Freon 12	0.9500	0.15	1	0	95.0	70	130	0.9	5.41	30	
Heptane	0.7100	0.15	1	0	71.0	70	130	0.76	6.80	30	
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Hexane	0.6600	0.15	1	0	66.0	70	130	0.66	0	30	S
Isopropyl alcohol	0.7300	0.15	1	0	73.0	70	130	0.75	2.70	30	
m&p-Xylene	1.510	0.30	2	0	75.5	70	130	1.6	5.79	30	
Methyl Butyl Ketone	0.4100	0.30	1	0	41.0	70	130	0.61	39.2	30	SR
Methyl Ethyl Ketone	0.7200	0.30	1	0	72.0	70	130	0.75	4.08	30	

S

4/8/16 LCSD

For acetone

only

7/15

Qualifiers: J Results reported are not blank corrected

S Analyte detected at or below quantitation limits

S Spike Recovery outside accepted recovery limits

E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

Page 4 of 5

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040816	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855						
Client ID: ZZZZZ	Batch ID: R10855	TestNo: TO-15	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Methyl Isobutyl Ketone	0.4400	0.30	1	0	44.0	70.5	130	135	0.71	47.0	30.35	SR
Methyl tert-butyl ether	0.7000	0.15	1	0	70.0	70	130		0.71	1.42	30	
Methylene chloride	0.9100	0.15	1	0	91.0	70	130		0.92	1.09	30	
o-Xylene	0.7900	0.15	1	0	79.0	70	130		0.84	6.13	30	
Propylene	0.7100	0.15	1	0	71.0	70	130		0.75	5.48	30	
Styrene	0.9100	0.15	1	0	91.0	70	130		0.97	6.38	30	
Tetrachloroethylene	0.8500	0.15	1	0	85.0	70	130		0.84	1.18	30	
Tetrahydrofuran	0.8100	0.15	1	0	81.0	70	130		0.71	13.2	30	
Toluene	0.7900	0.15	1	0	79.0	70	130		0.78	1.27	30	
trans-1,2-Dichloroethene	0.7100	0.15	1	0	71.0	70	130		0.71	0	30	
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130		1.09	3.60	30	
Trichloroethene	1.100	0.040	1	0	110	70	130		1.04	5.61	30	
Vinyl acetate	0.8300	0.15	1	0	83.0	70	130		0.87	4.71	30	
Vinyl Bromide	0.9000	0.15	1	0	90.0	70	130		0.9	0	30	
Vinyl chloride	0.7500	0.040	1	0	75.0	70	130		0.7	6.90	30	
Surr: Bromofluorobenzene	1.040	0	1	0	104	70	130		0	0	30	

4/8/16 LCSD For acetone only
 11/11

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

E Value above quantitation range
 NID Not Detected at the Reporting Limit

Qualifiers:
 J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

Date: 11-May-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040716	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID:	ZZZZZ	Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 127492					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040716	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID:	ZZZZZ	Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 127492					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 ND Value above quantitation range
 E Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040716	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID:	ZZZZZ	Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 127492					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15 ✓	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Sample ID	AMB1UG-040816	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID:	ZZZZZ	Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 127507					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	AMB1UG-040816	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID:	ZZZZZ	Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 127507					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15 ✓	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

4/8/16 MBLK For acetone only

MM

4/8/16 MBLK For acetone only
 MM

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040816	SampType:	MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10855				
Client ID:	ZZZZZ	Batch ID:	R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 127507				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

4/8/16 MBLK For acetone only.

MB

4/8/16 MBLK For acetone only.
 MB

Qualifiers: - Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040816	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10855					
Client ID:	ZZZZZ	Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 127507					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPO RefVal	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

4/8/16 m BULK for acetone only

7/1/16

4/8/16 MBLK for acetone only
 JMS

Qualifiers:

J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

TO-15 Package Review Checklist

Client: La Bella Project: 690 St. Paul SDG: C/604014

		YES	NO	NA
Analytical Results	Present and Complete	☒	☐	☐
TIC's present	Present and Complete	☒	☐	☐
	Holding Times Met	☒	☐	☐

Comments: 1

Chain-of-Custody	Present and Complete	☒	☐	☐
Surrogate Recovery	Present and Complete	☒	☐	☐
	Recoveries within limits	☒	☐	☐
	Sample(s) reanalyzed	☐	☐	☒
Internal Standards Recovery	Present and Complete	☒	☐	☐
	Recoveries within limits	☒	☐	☐
	Sample(s) reanalyzed	☐	☐	☒

Comments: _____

Lab Control Sample (LCS)	Present and Complete	☒	☐	☐
	Recoveries within limits	☒	☐	☐
Lab Control Sample Dupe (LCSD)	Present and Complete	☒	☐	☐
	Recoveries within limits	☐	☒	☐
MS/MSD	Present and Complete	☐	☐	☒
	Recoveries within limits	☐	☐	☒

Comments: SEE CASE NARRATIVE
* NO MS/MSD

Sample Raw Data	Present and Complete	☒	☐	☐
	Spectra present for all samples	☒	☐	☐

Comments: _____

TO-15 Package Review Checklist

Client: LaBella Project: 690 St. Paul SDG: C/604014

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	☒	☐	☐
	Calibration(s) met criteria	☒	☐	☐
Continuing Calibration Summary	Present and Complete	☒	☐	☐
	Calibration(s) met criteria	☐	☒	☐
Standards Raw Data	Present and Complete	☒	☐	☐
Comments:	<u>SEE CASE NARRATIVE</u>			

Raw Quality Control Data

Tune Criteria Report	Present and Complete	☒	☐	☐
Method Blank Data	MB Results <PQL	☒	☐	☐
	Associated results flagged "B"	☐	☐	☒
LCS sample data	Present and Complete	☒	☐	☐
LCSD sample data	Present and Complete	☒	☐	☐
MS/MSD sample data	Present and Complete	☐	☐	☒
Comments:				

Logbooks

Injection Log	Present and Complete	☒	☐	☐
Standards Log	Present and Complete	☒	☐	☐
Can Cleaning Log	Present and Complete	☒	☐	☐
	Raw Data Present	☒	☐	☐
Calculation sheet	Present and Complete	☒	☐	☐
IDL's	Present and Complete	☒	☐	☐
Bottle Order Form	Present and Complete	☒	☐	☐
Sample Tracking Form	Present and Complete	☒	☐	☐

Additional Comments:

Section Supervisor: Will Doherty Date: 5/13/16

QC Supervisor: Min York Date: 5/17/16



CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206

Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752

NYSDOH ELAP

Certificate No. 11830

Analytical Report

Daniel Noll
LaBella Associates, P.C.
300 State Street, Suite 201
Rochester, NY 14614

Tuesday, April 12, 2016
Order No.: C1604014

TEL: (585) 454-6110

FAX (585) 454-3066

RE: 690 St Paul

Dear Daniel Noll:

Centek Laboratories, LLC received 2 sample(s) on 4/5/2016 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

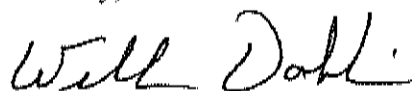
Centek Laboratories SOP TS-80

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

This report cannot be reproduced except in its entirety, without prior written authorization.

Sincerely,



William Dobbin
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, 4-PCH, sulfur derived and silicon series compounds.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:

Same day TAT = 200%

Next business day TAT by Noon = 150%

Next business day TAT by 6:00pm = 100%

Second business day TAT by 6:00pm = 75%

Third business day TAT by 6:00pm = 50%

Fourth business day TAT by 6:00pm = 35%

Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory,

direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE

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CENTEK LABORATORIES, LLC

Date: 13-May-16

CLIENT: LaBella Associates, P.C.
Project: 690 St Paul
Lab Order: C1604014

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80
Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (± 2 ", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (± 1 ", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg, ± 1 ". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

See Corrective Action: [3372] CC did not meet criteria.
See Corrective Action: [3373] LCSD did not reproduce.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 07-Apr-16

Corrective Action Report ID: 3373

Initiated By: Russell Pellegrino

Department: MSVOA

Corrective Action Description

CAR Summary: LCSD did not reproduce.

Description of Nonconformance Root/Cause(s): ALCS1UGD-040716 did not meet criteria for % recoveries for several compounds. All other QC required met criteria. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action w/Proposed C.A.: Since the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister and all other QC required met criteria, then continue with analysis. If results continue outside established limits then recalibrate system. All sets of data submitted.

Performed By: Russell Pellegrino

Completion Date: 08-Apr-16

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: If results continue then recalibrate the system. Perform new stock LCS. Monitor all quality control to meet established criteria. All sets of data submitted.

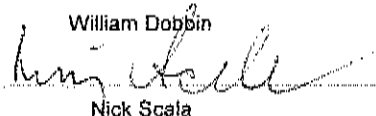
Approval and Closure

Technical Director /
Deputy Tech. Dir.:


William Dobbin

Close Date: 09-Apr-16

QA Officer Approval:


Nick Scala

QA Date: 09-Apr-16

Last Updated BY russ

Updated: 13-May-2016 12:27 PM

Reported: 13-May-2016 12:27 P

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 07-Apr-16

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Initiated By: Russell Pellegrino

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Corrective Action Description

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Description of Nonconformance Root/Cause(s): ALCS1UGD-040716 did not meet criteria for % recoveries for several compounds. All other QC required met criteria. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

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Performed By: Russell Pellegrino

Completion Date: 08-Apr-16

Client Notification

Client Notification Required: No

Notified By:

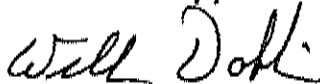
Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: If results continue then recalibrate the system. Perform new stock LCS. Monitor all quality control to meet established criteria. All sets of data submitted.

Approval and Closure

Technical Director /
Deputy Tech. Dir.:

William Dobbins

Close Date: 09-Apr-16

QA Officer Approval:



Nick Scala

QA Date: 09-Apr-16

Last Updated BY russ

Updated: 13-May-2016 12:27 PM

Reported: 13-May-2016 12:27 P

**CEN TEK LABORATORIES, LLC**

Date: 13-May-16

CLIENT: LaBella Associates, P.C.
Project: 690 St Paul
Lab Order: C1604014

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1604014-001A	IN-01	1184 402	4/4/2016	4/5/2016
C1604014-002A	EX-01	171 259	4/4/2016	4/5/2016



CENTEK LABORATORIES, LLC

Sample Receipt Checklist

Client Name: LABELLA - ROCHESTER

Date and Time Received

4/5/2016

Work Order Number C1604014

Received by: RJP

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Carrier name: FedEx Ground

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

Adjusted? _____

Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Lab Order: C1604014
 Client: LaBella Associates, P.C.
 Project: 690 St Paul

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1604014-001A	IN-01	4/4/2016	Air	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			4/8/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			4/7/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			4/8/2016
C1604014-002A	EX-01			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			4/8/2016

**CENTEK LABORATORIES, LLC***Air Quality Testing, It's a Gas*

143 Midler Park Drive * Syracuse, NY 13206

TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER**5721**

13-May-16

SHIPPED TO:

Company: LaBella Associates, P.C.
 Contact: Nick Inzinna
 Address: 300 State Street, Suite 201
 Rochester, NY 14614
 Phone: (585) 454-6110
 Quote ID: 0
 Project:
 PO: 690 St Paul

Submitted By:

MadeBy: NM

Ship Date: 3/30/2016

VIA: FedEx Ground

Due Date: 3/31/2016

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC	3

Can / Reg ID Description

162	1L Mini-Can - 1132 VI
171	1L Mini-Can - 1142 VI
259	Time-Set Reg - 697 VI
301	Time-Set Reg - 724 VI
402	Time-Set Reg - 781 VI
1184	1L Mini-Can - 1248 VI

Comments: (3) 1L @ 8hrs wac 032516 c-d

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-001A

Client Sample ID: IN-01
 Tag Number: 1184 402
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-5			"Hg		4/5/2016
Lab Vacuum Out	-30			"Hg		4/5/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2,4-Trimethylbenzene	0.95	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,3,5-Trimethylbenzene	0.34	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/7/2016 11:42:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	4/7/2016 11:42:00 PM
4-ethyltoluene	0.21	0.15		ppbV	1	4/7/2016 11:42:00 PM
Acetone	5.1	3.0		ppbV	10	4/8/2016 9:30:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Benzene	0.64	0.15		ppbV	1	4/7/2016 11:42:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Bromoform	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Carbon tetrachloride	0.13	0.040		ppbV	1	4/7/2016 11:42:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Chloroform	0.21	0.15		ppbV	1	4/7/2016 11:42:00 PM
Chloromethane	0.82	0.15		ppbV	1	4/7/2016 11:42:00 PM
cis-1,2-Dichloroethane	0.11	0.15	J	ppbV	1	4/7/2016 11:42:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Cyclohexane	0.27	0.15		ppbV	1	4/7/2016 11:42:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Ethyl acetate	0.23	0.25	J	ppbV	1	4/7/2016 11:42:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-001A

Client Sample ID: IN-01
 Tag Number: 1184 402
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	0.28	0.15		ppbV	1	4/7/2016 11:42:00 PM
Freon 11	0.35	0.15		ppbV	1	4/7/2016 11:42:00 PM
Freon 113	0.14	0.15	J	ppbV	1	4/7/2016 11:42:00 PM
Freon 114	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Freon 12	0.77	0.15		ppbV	1	4/7/2016 11:42:00 PM
Heptane	0.46	0.15		ppbV	1	4/7/2016 11:42:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Hexane	1.0	0.15		ppbV	1	4/7/2016 11:42:00 PM
Isopropyl alcohol	0.73	0.15		ppbV	1	4/7/2016 11:42:00 PM
m&p-Xylene	0.90	0.30		ppbV	1	4/7/2016 11:42:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/7/2016 11:42:00 PM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	4/7/2016 11:42:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/7/2016 11:42:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Methylene chloride	0.35	0.15		ppbV	1	4/7/2016 11:42:00 PM
o-Xylene	0.35	0.15		ppbV	1	4/7/2016 11:42:00 PM
Propylene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Styrene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Tetrachloroethylene	0.10	0.15	J	ppbV	1	4/7/2016 11:42:00 PM
Tetrahydrofuran	2.2	0.15		ppbV	1	4/7/2016 11:42:00 PM
Toluene	1.3	0.15		ppbV	1	4/7/2016 11:42:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Trichloroethene	0.21	0.040		ppbV	1	4/7/2016 11:42:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	4/7/2016 11:42:00 PM
Surr: Bromofluorobenzene	116	70-130		%REC	1	4/7/2016 11:42:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-001A

Client Sample ID: IN-01
 Tag Number: 1184 402
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 11:42:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/7/2016 11:42:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 11:42:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 11:42:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 11:42:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/7/2016 11:42:00 PM
1,2,4-Trimethylbenzene	4.7	0.74		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/7/2016 11:42:00 PM
1,3,5-Trimethylbenzene	1.7	0.74		ug/m3	1	4/7/2016 11:42:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/7/2016 11:42:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 11:42:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 11:42:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/7/2016 11:42:00 PM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	4/7/2016 11:42:00 PM
4-ethyltoluene	1.0	0.74		ug/m3	1	4/7/2016 11:42:00 PM
Acetone	12	7.1		ug/m3	10	4/8/2016 9:30:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/7/2016 11:42:00 PM
Benzene	2.0	0.48		ug/m3	1	4/7/2016 11:42:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/7/2016 11:42:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/7/2016 11:42:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	4/7/2016 11:42:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	4/7/2016 11:42:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/7/2016 11:42:00 PM
Carbon tetrachloride	0.82	0.25		ug/m3	1	4/7/2016 11:42:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/7/2016 11:42:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/7/2016 11:42:00 PM
Chloroform	1.0	0.73		ug/m3	1	4/7/2016 11:42:00 PM
Chloromethane	1.7	0.31		ug/m3	1	4/7/2016 11:42:00 PM
cis-1,2-Dichloroethene	0.44	0.59	J	ug/m3	1	4/7/2016 11:42:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 11:42:00 PM
Cyclohexane	0.93	0.52		ug/m3	1	4/7/2016 11:42:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/7/2016 11:42:00 PM
Ethyl acetate	0.83	0.90	J	ug/m3	1	4/7/2016 11:42:00 PM
Ethylbenzene	1.2	0.65		ug/m3	1	4/7/2016 11:42:00 PM
Freon 11	2.0	0.84		ug/m3	1	4/7/2016 11:42:00 PM
Freon 113	1.1	1.1	J	ug/m3	1	4/7/2016 11:42:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	4/7/2016 11:42:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-001A

Client Sample ID: IN-01
 Tag Number: 1184 402
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	3.8	0.74		ug/m3	1	4/7/2016 11:42:00 PM
Heptane	1.9	0.61		ug/m3	1	4/7/2016 11:42:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/7/2016 11:42:00 PM
Hexane	3.6	0.53		ug/m3	1	4/7/2016 11:42:00 PM
Isopropyl alcohol	1.8	0.37		ug/m3	1	4/7/2016 11:42:00 PM
m&p-Xylene	3.9	1.3		ug/m3	1	4/7/2016 11:42:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/7/2016 11:42:00 PM
Methyl Ethyl Ketone	3.7	0.88		ug/m3	1	4/7/2016 11:42:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/7/2016 11:42:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/7/2016 11:42:00 PM
Methylene chloride	1.2	0.52		ug/m3	1	4/7/2016 11:42:00 PM
o-Xylene	1.5	0.65		ug/m3	1	4/7/2016 11:42:00 PM
Propylene	< 0.26	0.26		ug/m3	1	4/7/2016 11:42:00 PM
Styrene	< 0.64	0.64		ug/m3	1	4/7/2016 11:42:00 PM
Tetrachloroethylene	0.68	1.0	J	ug/m3	1	4/7/2016 11:42:00 PM
Tetrahydrofuran	6.6	0.44		ug/m3	1	4/7/2016 11:42:00 PM
Toluene	4.9	0.57		ug/m3	1	4/7/2016 11:42:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 11:42:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 11:42:00 PM
Trichloroethene	1.1	0.21		ug/m3	1	4/7/2016 11:42:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/7/2016 11:42:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/7/2016 11:42:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/7/2016 11:42:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-002A

Client Sample ID: EX-01
 Tag Number: 171 259
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-5			"Hg		4/5/2016
Lab Vacuum Out	-30			"Hg		4/5/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/8/2016 12:21:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Acetone	4.1	3.0		ppbV	10	4/8/2016 10:07:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Benzene	0.18	0.15		ppbV	1	4/8/2016 12:21:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Bromoform	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Carbon tetrachloride	0.15	0.040		ppbV	1	4/8/2016 12:21:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Chloroform	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Chloromethane	0.76	0.15		ppbV	1	4/8/2016 12:21:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Cyclohexane	0.16	0.15		ppbV	1	4/8/2016 12:21:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Ethyl acetate	0.13	0.25	J	ppbV	1	4/8/2016 12:21:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: EX-01

Lab Order: C1604014

Tag Number: 171 259

Project: 690 St Paul

Collection Date: 4/4/2016

Lab ID: C1604014-002A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Freon 11	0.37	0.15		ppbV	1	4/8/2016 12:21:00 AM
Freon 113	0.13	0.15	J	ppbV	1	4/8/2016 12:21:00 AM
Freon 114	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Freon 12	0.79	0.15		ppbV	1	4/8/2016 12:21:00 AM
Heptane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Hexane	0.18	0.15		ppbV	1	4/8/2016 12:21:00 AM
Isopropyl alcohol	0.65	0.15		ppbV	1	4/8/2016 12:21:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	4/8/2016 12:21:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/8/2016 12:21:00 AM
Methyl Ethyl Ketone	0.32	0.30		ppbV	1	4/8/2016 12:21:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/8/2016 12:21:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Methylene chloride	0.37	0.15		ppbV	1	4/8/2016 12:21:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Propylene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Styrene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Tetrahydrofuran	0.11	0.15	J	ppbV	1	4/8/2016 12:21:00 AM
Toluene	0.21	0.15		ppbV	1	4/8/2016 12:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Trichloroethene	0.070	0.040		ppbV	1	4/8/2016 12:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	4/8/2016 12:21:00 AM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	4/8/2016 12:21:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: EX-01

Lab Order: C1604014

Tag Number: 171 259

Project: 690 St Paul

Collection Date: 4/4/2016

Lab ID: C1604014-002A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/8/2016 12:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/8/2016 12:21:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/8/2016 12:21:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/8/2016 12:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/8/2016 12:21:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/8/2016 12:21:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/8/2016 12:21:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/8/2016 12:21:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/8/2016 12:21:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/8/2016 12:21:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/8/2016 12:21:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/8/2016 12:21:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/8/2016 12:21:00 AM
Acetone	9.7	7.1		ug/m3	10	4/8/2016 10:07:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/8/2016 12:21:00 AM
Benzene	0.57	0.48		ug/m3	1	4/8/2016 12:21:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/8/2016 12:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	4/8/2016 12:21:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	4/8/2016 12:21:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/8/2016 12:21:00 AM
Carbon tetrachloride	0.94	0.25		ug/m3	1	4/8/2016 12:21:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/8/2016 12:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/8/2016 12:21:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	4/8/2016 12:21:00 AM
Chloromethane	1.6	0.31		ug/m3	1	4/8/2016 12:21:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/8/2016 12:21:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/8/2016 12:21:00 AM
Cyclohexane	0.55	0.52		ug/m3	1	4/8/2016 12:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/8/2016 12:21:00 AM
Ethyl acetate	0.47	0.90	J	ug/m3	1	4/8/2016 12:21:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/8/2016 12:21:00 AM
Freon 11	2.1	0.84		ug/m3	1	4/8/2016 12:21:00 AM
Freon 113	1.0	1.1	J	ug/m3	1	4/8/2016 12:21:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: EX-01

Lab Order: C1604014

Tag Number: 171 259

Project: 690 St Paul

Collection Date: 4/4/2016

Lab ID: C1604014-002A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	3.9	0.74		ug/m3	1	4/8/2016 12:21:00 AM
Heptane	< 0.61	0.61		ug/m3	1	4/8/2016 12:21:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/8/2016 12:21:00 AM
Hexane	0.63	0.53		ug/m3	1	4/8/2016 12:21:00 AM
Isopropyl alcohol	1.6	0.37		ug/m3	1	4/8/2016 12:21:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	4/8/2016 12:21:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/8/2016 12:21:00 AM
Methyl Ethyl Ketone	0.94	0.88		ug/m3	1	4/8/2016 12:21:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/8/2016 12:21:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/8/2016 12:21:00 AM
Methylene chloride	1.3	0.52		ug/m3	1	4/8/2016 12:21:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	4/8/2016 12:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/8/2016 12:21:00 AM
Styrene	< 0.64	0.64		ug/m3	1	4/8/2016 12:21:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM
Tetrahydrofuran	0.32	0.44	J	ug/m3	1	4/8/2016 12:21:00 AM
Toluene	0.79	0.57		ug/m3	1	4/8/2016 12:21:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/8/2016 12:21:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/8/2016 12:21:00 AM
Trichloroethene	0.38	0.21		ug/m3	1	4/8/2016 12:21:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/8/2016 12:21:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/8/2016 12:21:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/8/2016 12:21:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY



CENTEK LABORATORIES, LLC

Date: 11-May-16

QC SUMMARY REPORT SURROGATE RECOVERIES

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

Test No: TO-15

Matrix: A

Sample ID	BR4FBZ							
ALCSIUG-040716	107							
ALCSIUG-040816	108							
ALCSIUGD-040716	113							
ALCSIUGD-040816	104							
AMBIUG-040716	81.0							
AMBIUG-040816	77.0							
C1604014-001A	116							
C1604014-002A	95.0							

Acronym	Surrogate	QC Limits
BR4FBZ	= Bromofluorobenzene	70-130

* Surrogate recovery outside acceptance limits

/

Tune File : C:\HPCHEM\1\DATA\AN040703.D

Tune Time : 7 Apr 2016 10:03 am

Daily Calibration File : C:\HPCHEM\1\DATA\AN040703.D

(BFB)

(IS1)

(IS2)

(IS3)

22421

52552

37567

File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AN040704.D	ALCS1UG-040716	107		20223	51551	38203
AN040705.D	AMB1UG-040716	81		20210	49287	44006
AN040721.D	ALCS1UGD-040716	113		23962	61175	52386
AN040724.D	C1604014-001A	116		23770	65045	45273
AN040725.D	C1604014-002A	95		22047	55294	49453

t - fails 24hr time check * - fails criteria

Created: Wed May 11 08:54:45 2016 MSD #1/

Tune File : C:\HPCHEM\1\DATA\AN040805.D

Tune Time : 8 Apr 2016 4:12 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AN040805.D

		(BFB)	(IS1)	(IS2)	(IS3)
			33933	83484	60983
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses	
AN040806.D	ALCS1UG-040816	108		37018	86582 62657
AN040807.D	AMB1UG-040816	77		33169	80248 69691
AN040813.D	C1604014-001A 10X	85		26019	59926 59512
AN040814.D	C1604014-002A 10X	83		24898	62076 59832
AN040817.D	ALCS1UGD-040816	104		34735	78448 56597

t - fails 24hr time check * - fails criteria

Created: Wed May 11 08:56:26 2016 MSD #1/

Date: 13-May-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040716	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID: ZZZZZ	Batch ID: R10853		TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 128357					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.200	0.15	1	0	120	70	130				
1,1,2,2-Tetrachloroethane	1.170	0.15	1	0	117	70	130				
1,1,2-Trichloroethane	1.180	0.15	1	0	118	70	130				
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130				
1,1-Dichloroethene	1.080	0.15	1	0	108	70	130				
1,2,4-Trichlorobenzene	1.060	0.15	1	0	106	70	130				
1,2,4-Trimethylbenzene	0.9400	0.15	1	0	94.0	70	130				
1,2-Dibromoethane	1.160	0.15	1	0	116	70	130				
1,2-Dichlorobenzene	1.190	0.15	1	0	119	70	130				
1,2-Dichloroethane	0.9500	0.15	1	0	95.0	70	130				
1,2-Dichloropropane	1.170	0.15	1	0	117	70	130				
1,3,5-Trimethylbenzene	1.060	0.15	1	0	106	70	130				
1,3-butadiene	1.030	0.15	1	0	103	70	130				
1,3-Dichlorobenzene	1.180	0.15	1	0	118	70	130				
1,4-Dichlorobenzene	1.090	0.15	1	0	109	70	130				
1,4-Dioxane	1.140	0.30	1	0	114	70	130				
2,2,4-trimethylpentane	1.220	0.15	1	0	122	70	130				
4-ethyltoluene	0.9900	0.15	1	0	99.0	70	130				
Acetone	1.190	0.30	1	0	119	70	130				
Allyl chloride	0.8300	0.15	1	0	83.0	70	130				
Benzene	1.130	0.15	1	0	113	70	130				
Benzyl chloride	0.7500	0.15	1	0	75.0	70	130				
Bromodichloromethane	1.200	0.15	1	0	120	70	130				
Bromoform	2.300	0.15	1	0	230	70	130				
Bromomethane	1.160	0.15	1	0	116	70	130				S

Qualifiers:	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Page 1 of 5

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040716	Sample Type	LCS	Batch ID	R10853	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853			
Client ID:	ZZZZZ					TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 128357			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide		0.9600	0.15	1	0	96.0	70	130				
Carbon tetrachloride		1.220	0.040	1	0	122	70	130				
Chlorobenzene		1.070	0.15	1	0	107	70	130				
Chloroethane		1.150	0.15	1	0	115	70	130				
Chloroform		0.9900	0.15	1	0	99.0	70	130				
Chloromethane		1.150	0.15	1	0	115	70	130				
cis-1,2-Dichloroethene		0.9300	0.15	1	0	93.0	70	130				
cis-1,3-Dichloropropene		1.150	0.15	1	0	115	70	130				
Cyclohexane		1.120	0.15	1	0	112	70	130				
Dibromochloromethane		1.160	0.15	1	0	116	70	130				
Ethyl acetate		0.8800	0.25	1	0	88.0	70	130				
Ethylbenzene		0.9700	0.15	1	0	97.0	70	130				
Freon 11		1.180	0.15	1	0	118	70	130				
Freon 113		1.190	0.15	1	0	119	70	130				
Freon 114		1.190	0.15	1	0	119	70	130				
Freon 12		1.160	0.15	1	0	116	70	130				
Heptane		0.9700	0.15	1	0	97.0	70	130				
Hexachloro-1,3-butadiene		1.830	0.15	1	0	183	70	130				S
Hexane		0.8200	0.15	1	0	82.0	70	130				
Isopropyl alcohol		0.9900	0.15	1	0	99.0	70	130				
m&p-Xylene		1.890	0.30	2	0	94.5	70	130				
Methyl Butyl Ketone		0.7100	0.30	1	0	71.0	70	130				
Methyl Ethyl Ketone		0.8400	0.30	1	0	84.0	70	130				
Methyl Isobutyl Ketone		0.8400	0.30	1	0	84.0	70	130				
Methyl tert-butyl ether		0.9300	0.15	1	0	93.0	70	130				
Methylene chloride		1.130	0.15	1	0	113	70	130				
o-Xylene		0.9700	0.15	1	0	97.0	70	130				
Propylene		0.9500	0.15	1	0	95.0	70	130				
Styrene		1.050	0.15	1	0	105	70	130				
Tetrachloroethylene		0.8700	0.15	1	0	87.0	70	130				
Tetrahydrofuran		0.8700	0.15	1	0	87.0	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1604014
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040716	Sample Type:	LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID: ZZZZZ		Batch ID: R10853		TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 128357					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		0.7900	0.15	1	0	79.0	70	130				
trans-1,2-Dichloroethene		0.9500	0.15	1	0	95.0	70	130				
trans-1,3-Dichloropropene		1.030	0.15	1	0	103	70	130				
Trichloroethene		1.170	0.040	1	0	117	70	130				
Vinyl acetate		0.8000	0.15	1	0	80.0	70	130				
Vinyl Bromide		1.130	0.15	1	0	113	70	130				
Vinyl chloride		1.060	0.040	1	0	106	70	130				
Surr: Bromofluorobenzene		1.070	0	1	0	107	70	130				

Sample ID	ALCS1UG-040816	SampleType:	LCS	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10855					
Client ID: ZZZZZ		Batch ID: R10855	TestNo: TO-15			Analysis Date: 4/8/2016	SeqNo: 128359					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		1.000	0.15	1	0	100	70	130				
1,1,2,2-Tetrachloroethane		0.9100	0.15	1	0	91.0	70	130				
1,1,2-Trichloroethane		1.080	0.15	1	0	108	70	130				
1,1-Dichloroethane		0.7800	0.15	1	0	78.0	70	130				
1,1-Dichloroethene		0.8500	0.15	1	0	85.0	70	130				
1,2,4-Trichlorobenzene		0.7600	0.15	1	0	76.0	70	130				
1,2,4-Trimethylbenzene		0.7700	0.15	1	0	77.0	70	130				
1,2-Dibromochloroethane		0.9200	0.15	1	0	92.0	70	130				
1,2-Dichlorobenzene		0.9900	0.15	1	0	99.0	70	130				
1,2-Dichloroethane		0.7200	0.15	1	0	72.0	70	130				
1,2-Dichloropropane		0.9000	0.15	1	0	90.0	70	130				
1,3,5-Trimethylbenzene		0.9000	0.15	1	0	90.0	70	130				
1,3-butadiene		0.7500	0.15	1	0	75.0	70	130				
1,3-Dichlorobenzene		1.090	0.15	1	0	109	70	130				
1,4-Dichlorobenzene		1.050	0.15	1	0	105	70	130				
1,4-Dioxane		0.7400	0.30	1	0	74.0	70	130				
2,2,4-trimethylpentane		1.000	0.15	1	0	100	70	130				

Qualifiers:		Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	
S	Spike Recovery outside accepted recovery limits					

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040816	SampleType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID: ZZZZZ		Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 128359					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	0.8700	0.15	1	0	87.0	70	130				S
Acetone	0.8500	0.30	1	0	85.0	70	130				
Allyl chloride	0.7100	0.15	1	0	71.0	70	130				
Benzene	0.9100	0.15	1	0	91.0	70	130				
Benzyl chloride	0.9500	0.15	1	0	95.0	70	130				
Bromodichloromethane	1.050	0.15	1	0	105	70	130				
Bromoform	2.130	0.15	1	0	213	70	130				
Bromomethane	0.8900	0.15	1	0	89.0	70	130				
Carbon disulfide	0.7700	0.15	1	0	77.0	70	130				
Carbon tetrachloride	1.080	0.040	1	0	108	70	130				
Chlorobenzene	0.9000	0.15	1	0	90.0	70	130				S
Chloroethane	0.8600	0.15	1	0	86.0	70	130				
Chloroform	0.7600	0.15	1	0	76.0	70	130				
Chloromethane	0.8200	0.15	1	0	82.0	70	130				
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130				
cis-1,3-Dichloropropene	1.060	0.15	1	0	106	70	130				
Cyclohexane	0.8700	0.15	1	0	87.0	70	130				
Dibromochloromethane	0.9700	0.15	1	0	97.0	70	130				
Ethyl acetate	0.7100	0.25	1	0	71.0	70	130				
Ethylbenzene	0.8000	0.15	1	0	80.0	70	130				
Freon 11	0.9400	0.15	1	0	94.0	70	130				S
Freon 113	0.9600	0.15	1	0	96.0	70	130				
Freon 114	0.8700	0.15	1	0	87.0	70	130				
Freon 12	0.9000	0.15	1	0	90.0	70	130				
Heptane	0.7600	0.15	1	0	76.0	70	130				
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	70	130				
Hexane	0.6600	0.15	1	0	66.0	70	130				
Isopropyl alcohol	0.7500	0.15	1	0	75.0	70	130				
m&p-Xylene	1.600	0.30	2	0	80.0	70	130				
Methyl Butyl Ketone	0.6100	0.30	1	0	61.0	70	130				
Methyl Ethyl Ketone	0.7500	0.30	1	0	75.0	70	130				

Qualifiers: J Results reported are not blank corrected

S Analyte detected at or below quantitation limits

S Spike Recovery outside accepted recovery limits

E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040816	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID: ZZZZZ		Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 128359					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	0.7100	0.30	1	0	71.0	70	130				
Methyl tert-butyl ether	0.7100	0.15	1	0	71.0	70	130				
Methylene chloride	0.9200	0.15	1	0	92.0	70	130				
o-Xylene	0.8400	0.15	1	0	84.0	70	130				
Propylene	0.7500	0.15	1	0	75.0	70	130				
Styrene	0.9700	0.15	1	0	97.0	70	130				
Tetrachloroethylene	0.8400	0.15	1	0	84.0	70	130				
Tetrahydrofuran	0.7100	0.15	1	0	71.0	70	130				
Toluene	0.7800	0.15	1	0	78.0	70	130				
trans-1,2-Dichloroethene	0.7100	0.15	1	0	71.0	70	130				
trans-1,3-Dichloropropene	1.090	0.15	1	0	109	70	130				
Trichloroethene	1.040	0.040	1	0	104	70	130				
Vinyl acetate	0.8700	0.15	1	0	87.0	70	130				
Vinyl Bromide	0.9000	0.15	1	0	90.0	70	130				
Vinyl chloride	0.7000	0.040	1	0	70.0	70	130				
Surr: Bromofluorobenzene	1.080	0	1	0	108	70	130				

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Date: 13-May-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: CI604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040716	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID: ZZZZZ	Batch ID: R10853		TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 128358					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.220	0.15	1	0	122	70	130	1.2	1.65	30	
1,1,2,2-Tetrachloroethane	1.140	0.15	1	0	114	70	130	1.17	2.60	30	
1,1,2-Trichloroethane	1.280	0.15	1	0	128	70	130	1.18	8.13	30	
1,1-Dichloroethane	1.060	0.15	1	0	106	70	130	1.03	2.87	30	
1,1-Dichloroethene	1.090	0.15	1	0	109	70	130	1.08	0.922	30	
1,2,4-Trichlorobenzene	0.7300	0.15	1	0	73.0	70	130	1.06	36.9	30	R
1,2,4-Trimethylbenzene	0.9400	0.15	1	0	94.0	70	130	0.94	0	30	
1,2-Dibromoethane	1.080	0.15	1	0	108	70	130	1.16	7.14	30	
1,2-Dichlorobenzene	0.9800	0.15	1	0	98.0	70	130	1.19	19.4	30	
1,2-Dichloroethane	0.9600	0.15	1	0	96.0	70	130	0.95	1.05	30	
1,2-Dichloropropane	1.220	0.15	1	0	122	70	130	1.17	4.18	30	
1,3,5-Trimethylbenzene	1.190	0.15	1	0	119	70	130	1.06	11.6	30	
1,3-butadiene	1.070	0.15	1	0	107	70	130	1.03	3.81	30	
1,3-Dichlorobenzene	1.130	0.15	1	0	113	70	130	1.18	4.33	30	
1,4-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.09	2.79	30	
1,4-Dioxane	0.3700	0.30	1	0	37.0	70	130	1.14	102	30	SR
2,2,4-trimethylpentane	1.260	0.15	1	0	126	70	130	1.22	3.23	30	
4-ethyltoluene	1.040	0.15	1	0	104	70	130	0.99	4.93	30	
Acetone	0.8400	0.30	1	0	84.0	70	130	1.19	34.5	30	R
Allyl chloride	0.9800	0.15	1	0	98.0	70	130	0.83	16.6	30	
Benzene	1.230	0.15	1	0	123	70	130	1.13	8.47	30	
Benzyl chloride	0.9400	0.15	1	0	94.0	70	130	0.75	22.5	30	
Bromodichloromethane	1.130	0.15	1	0	113	70	130	1.2	6.01	30	
Bromoform	2.270	0.15	1	0	227	70	130	2.3	1.31	30	S
Bromomethane	1.150	0.15	1	0	115	70	130	1.16	0.866	30	

Qualifiers: J Results reported are not blank corrected E Value above quantitation range H Holding times for preparation or analysis exceeded

S Analyte detected at or below quantitation limits ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Page 1 of 5

CLIENT: LaBella Associates, P.C.
Work Order: C1604014
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040716	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID: ZZZZZ	Batch ID: R10853	TestNo: TO-15			Analysis Date: 4/7/2016	SeqNo: 128358					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.040	0.15	1	0	104	70	130	0.96	8.00	30	
Carbon tetrachloride	1.290	0.040	1	0	129	70	130	1.22	5.58	30	
Chlorobenzene	1.150	0.15	1	0	115	70	130	1.07	7.21	30	
Chloroethane	1.110	0.15	1	0	111	70	130	1.15	3.54	30	
Chloroform	0.9900	0.15	1	0	99.0	70	130	0.99	0	30	
Chloromethane	1.180	0.15	1	0	118	70	130	1.15	2.58	30	
cis-1,2-Dichloroethene	1.010	0.15	1	0	101	70	130	0.93	8.25	30	
cis-1,3-Dichloropropene	1.260	0.15	1	0	126	70	130	1.15	9.13	30	
Cyclohexane	1.240	0.15	1	0	124	70	130	1.12	10.2	30	
Dibromochloromethane	1.070	0.15	1	0	107	70	130	1.16	8.07	30	
Ethyl acetate	0.8800	0.25	1	0	88.0	70	130	0.88	0	30	
Ethylbenzene	1.130	0.15	1	0	113	70	130	0.97	15.2	30	
Freon 11	1.130	0.15	1	0	113	70	130	1.18	4.33	30	
Freon 113	1.190	0.15	1	0	119	70	130	1.19	0	30	
Freon 114	1.190	0.15	1	0	119	70	130	1.19	0	30	
Freon 12	1.190	0.15	1	0	119	70	130	1.16	2.55	30	
Heptane	1.100	0.15	1	0	110	70	130	0.97	12.6	30	
Hexachloro-1,3-butadiene	1.220	0.15	1	0	122	70	130	1.83	40.0	30	R
Hexane	0.9600	0.15	1	0	96.0	70	130	0.82	15.7	30	
Isopropyl alcohol	0.7900	0.15	1	0	79.0	70	130	0.99	22.5	30	
m&p-Xylene	2.360	0.30	2	0	118	70	130	1.89	22.1	30	
Methyl Butyl Ketone	0.3000	0.30	1	0	30.0	70	130	0.71	81.2	30	SR
Methyl Ethyl Ketone	1.020	0.30	1	0	102	70	130	0.84	19.4	30	
Methyl Isobutyl Ketone	0.2300	0.30	1	0	23.0	70	130	0.84	0	30	JS
Methyl tert-butyl ether	0.9900	0.15	1	0	99.0	70	130	0.93	6.25	30	
Methylene chloride	1.180	0.15	1	0	118	70	130	1.13	4.33	30	
o-Xylene	1.190	0.15	1	0	119	70	130	0.97	20.4	30	
Propylene	1.170	0.15	1	0	117	70	130	0.95	20.8	30	
Styrene	1.210	0.15	1	0	121	70	130	1.05	14.2	30	
Tetrachloroethylene	0.8300	0.15	1	0	83.0	70	130	0.87	4.71	30	
Tetrahydrofuran	1.790	0.15	1	0	179	70	130	0.87	69.2	30	SR

Qualifiers: J Results reported are not blank corrected H Holding times for preparation or analysis exceeded

S Analyte detected at or below quantitation limits R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

E Value above quantitation range

ND Not Detected at the Reporting Limit

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040716	SampleType:	LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853				
Client ID: ZZZZZ		Batch ID: R10853		TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 128358				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	2.000	0.15	1	0	200	70	130	0.79	86.7	30	SR
trans-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130	0.95	8.08	30	
trans-1,3-Dichloropropene	1.190	0.15	1	0	119	70	130	1.03	14.4	30	
Trichloroethene	1.220	0.040	1	0	122	70	130	1.17	4.18	30	
Vinyl acetate	0.9000	0.15	1	0	90.0	70	130	0.8	11.8	30	
Vinyl Bromide	1.140	0.15	1	0	114	70	130	1.13	0.881	30	
Vinyl chloride	1.050	0.040	1	0	105	70	130	1.06	0.948	30	
Surr: Bromofluorobenzene	1.130	0	1	0	113	70	130	0	0	30	

Sample ID	ALCS1UGD-040816	Sample Type:	LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855				
Client ID:	ZZZZZ	Batch ID:	R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 128360				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.060	0.15	1	0	106	70	130	1	5.83	30	
1,1,2,2-Tetrachloroethane	1.000	0.15	1	0	100	70	130	0.91	9.42	30	
1,1,2-Trichloroethane	1.210	0.15	1	0	121	70	130	1.08	11.4	30	
1,1-Dichloroethane	0.7700	0.15	1	0	77.0	70	130	0.78	1.29	30	
1,1-Dichloroethene	0.8800	0.15	1	0	88.0	70	130	0.85	3.47	30	
1,2,4-Trichlorobenzene	0.7200	0.15	1	0	72.0	70	130	0.76	5.41	30	
1,2,4-Trimethylbenzene	0.8400	0.15	1	0	84.0	70	130	0.77	8.70	30	
1,2-Dibromoethane	0.9900	0.15	1	0	99.0	70	130	0.92	7.33	30	
1,2-Dichlorobenzene	1.100	0.15	1	0	110	70	130	0.99	10.5	30	
1,2-Dichloroethane	0.8000	0.15	1	0	80.0	70	130	0.72	10.5	30	
1,2-Dichloropropane	0.8800	0.15	1	0	88.0	70	130	0.9	2.25	30	
1,3,5-Trimethylbenzene	0.9800	0.15	1	0	98.0	70	130	0.9	8.51	30	
1,3-butadiene	0.7900	0.15	1	0	79.0	70	130	0.75	5.19	30	
1,3-Dichlorobenzene	1.150	0.15	1	0	115	70	130	1.09	5.36	30	
1,4-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.05	0.948	30	
1,4-Dioxane	0.5900	0.30	1	0	59.0	70	130	0.74	22.6	30	S
2,2,4-trimethylpentane	1.030	0.15	1	0	103	70	130	1	2.96	30	

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1604014
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040816	Sample Type: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID: ZZZZZ		Batch ID: R10855	TestNo: Y0-15		Analysis Date: 4/8/2016	SeqNo: 128360					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	0.9400	0.15	1	0	94.0	70	130	0.87	7.73	30	
Acetone	0.7700	0.30	1	0	77.0	70	130	0.85	9.88	30	
Allyl chloride	0.7800	0.15	1	0	78.0	70	130	0.71	9.40	30	
Benzene	0.9500	0.15	1	0	95.0	70	130	0.91	4.30	30	
Benzyl chloride	0.7100	0.15	1	0	71.0	70	130	0.95	28.9	30	
Bromodichloromethane	1.110	0.15	1	0	111	70	130	1.05	5.56	30	
Bromoforn	2.130	0.15	1	0	213	70	130	2.13	0	30	S
Bromomethane	0.9700	0.15	1	0	97.0	70	130	0.89	8.60	30	
Carbon disulfide	0.7600	0.15	1	0	76.0	70	130	0.77	1.31	30	
Carbon tetrachloride	1.160	0.040	1	0	116	70	130	1.08	7.14	30	
Chlorobenzene	0.9300	0.15	1	0	93.0	70	130	0.9	3.28	30	
Chloroethane	0.8000	0.15	1	0	80.0	70	130	0.86	7.23	30	
Chloroform	0.7800	0.15	1	0	78.0	70	130	0.76	2.60	30	
Chloromethane	0.8500	0.15	1	0	85.0	70	130	0.82	3.59	30	
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130	0.72	0	30	
cis-1,3-Dichloropropene	1.070	0.15	1	0	107	70	130	1.06	0.939	30	
Cyclohexane	0.8800	0.15	1	0	88.0	70	130	0.87	1.14	30	
Dibromochloromethane	1.030	0.15	1	0	103	70	130	0.97	6.00	30	
Ethyl acetate	0.7100	0.25	1	0	71.0	70	130	0.71	0	30	
Ethylbenzene	0.7500	0.15	1	0	75.0	70	130	0.8	6.45	30	
Freon 11	0.9900	0.15	1	0	99.0	70	130	0.94	5.18	30	
Freon 113	1.000	0.15	1	0	100	70	130	0.96	4.08	30	
Freon 114	0.8800	0.15	1	0	88.0	70	130	0.87	1.14	30	
Freon 12	0.9500	0.15	1	0	95.0	70	130	0.9	5.41	30	
Heptane	0.7100	0.15	1	0	71.0	70	130	0.76	6.80	30	
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Hexane	0.6600	0.15	1	0	66.0	70	130	0.66	0	30	S
Isopropyl alcohol	0.7300	0.15	1	0	73.0	70	130	0.75	2.70	30	
m&p-Xylene	1.510	0.30	2	0	75.5	70	130	1.6	5.79	30	
Methyl Butyl Ketone	0.4100	0.30	1	0	41.0	70	130	0.61	39.2	30	SR
Methyl Ethyl Ketone	0.7200	0.30	1	0	72.0	70	130	0.75	4.08	30	

Qualifiers: - Results reported are not blank corrected

J Analyte detected at or below quantitation limits

S Spike Recovery outside accepted recovery limits

E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040816	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID: ZZZZZ	Batch ID: R10855	TestNo: TO-15	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 128360					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	0.4400	0.30	1	0	44.0	70	130	0.71	47.0	30	SR
Methyl tert-butyl ether	0.7900	0.15	1	0	70.0	70	130	0.71	1.42	30	
Methylene chloride	0.9100	0.15	1	0	91.0	70	130	0.92	1.09	30	
o-Xylene	0.7900	0.15	1	0	79.0	70	130	0.84	6.13	30	
Propylene	0.7100	0.15	1	0	71.0	70	130	0.75	5.48	30	
Styrene	0.9100	0.15	1	0	91.0	70	130	0.97	6.38	30	
Tetrachloroethylene	0.8500	0.15	1	0	85.0	70	130	0.84	1.18	30	
Tetrahydrofuran	0.8100	0.15	1	0	81.0	70	130	0.71	13.2	30	
Toluene	0.7900	0.15	1	0	79.0	70	130	0.78	1.27	30	
trans-1,2-Dichloroethene	0.7100	0.15	1	0	71.0	70	130	0.71	0	30	
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130	1.09	3.60	30	
Trichloroethene	1.100	0.040	1	0	110	70	130	1.04	5.61	30	
Vinyl acetate	0.8300	0.15	1	0	83.0	70	130	0.87	4.71	30	
Vinyl Bromide	0.9000	0.15	1	0	90.0	70	130	0.9	0	30	
Vinyl chloride	0.7500	0.040	1	0	75.0	70	130	0.7	6.90	30	
Surr: Bromofluorobenzene	1.040	0	1	0	104	70	130	0	0	30	

Qualifiers:

J	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
S	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	Spike Recovery outside accepted recovery limits				

Date: 11-May-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040716	Sample Type: MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10853						
Client ID: ZZZZZ		Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 127492						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		< 0.15	0.15									
1,1,2,2-Tetrachloroethane		< 0.15	0.15									
1,1,2-Trichloroethane		< 0.15	0.15									
1,1-Dichloroethane		< 0.15	0.15									
1,1-Dichloroethene		< 0.15	0.15									
1,2,4-Trichlorobenzene		< 0.15	0.15									
1,2,4-Trimethylbenzene		< 0.15	0.15									
1,2-Dibromoethane		< 0.15	0.15									
1,2-Dichlorobenzene		< 0.15	0.15									
1,2-Dichloroethane		< 0.15	0.15									
1,2-Dichloropropane		< 0.15	0.15									
1,3,5-Trimethylbenzene		< 0.15	0.15									
1,3-butadiene		< 0.15	0.15									
1,3-Dichlorobenzene		< 0.15	0.15									
1,4-Dichlorobenzene		< 0.15	0.15									
1,4-Dioxane		< 0.30	0.30									
2,2,4-trimethylpentane		< 0.15	0.15									
4-ethyltoluene		< 0.15	0.15									
Acetone		< 0.30	0.30									
Allyl chloride		< 0.15	0.15									
Benzene		< 0.15	0.15									
Benzyl chloride		< 0.15	0.15									
Bromodichloromethane		< 0.15	0.15									
Bromoform		< 0.15	0.15									
Bromomethane		< 0.15	0.15									

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMBIUG-040716	Sample Type:	MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10853					
Client ID:	ZZZZZ	Batch ID:	R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 127492					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide		< 0.15	0.15									
Carbon tetrachloride		< 0.040	0.040									
Chlorobenzene		< 0.15	0.15									
Chloroethane		< 0.15	0.15									
Chloroform		< 0.15	0.15									
Chloromethane		< 0.15	0.15									
cis-1,2-Dichloroethene		< 0.15	0.15									
cis-1,3-Dichloropropene		< 0.15	0.15									
Cyclohexane		< 0.15	0.15									
Dibromochloromethane		< 0.15	0.15									
Ethyl acetate		< 0.25	0.25									
Ethylbenzene		< 0.15	0.15									
Freon 11		< 0.15	0.15									
Freon 113		< 0.15	0.15									
Freon 114		< 0.15	0.15									
Freon 12		< 0.15	0.15									
Heptane		< 0.15	0.15									
Hexachloro-1,3-butadiene		< 0.15	0.15									
Hexane		< 0.15	0.15									
Isopropyl alcohol		< 0.15	0.15									
m&p-Xylene		< 0.30	0.30									
Methyl Butyl Ketone		< 0.30	0.30									
Methyl Ethyl Ketone		< 0.30	0.30									
Methyl Isobutyl Ketone		< 0.30	0.30									
Methyl tert-butyl ether		< 0.15	0.15									
Methylene chloride		< 0.15	0.15									
o-Xylene		< 0.15	0.15									
Propylene		< 0.15	0.15									
Styrene		< 0.15	0.15									
Tetrachloroethylene		< 0.15	0.15									
Tetrahydrofuran		< 0.15	0.15									

Qualifiers:	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040716	Sample Type: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID:	ZZZZZ	Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 127492					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Sample ID	AMB1UG-040816	Sample Type: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID:	ZZZZZ	Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 127507					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040816	Sample Type:	MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID:	ZZZZZ	Batch ID:	R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 127507					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone		< 0.30	0.30									
Allyl chloride		< 0.15	0.15									
Benzene		< 0.15	0.15									
Benzyl chloride		< 0.15	0.15									
Bromodichloromethane		< 0.15	0.15									
Bromoform		< 0.15	0.15									
Bromomethane		< 0.15	0.15									
Carbon disulfide		< 0.15	0.15									
Carbon tetrachloride		< 0.040	0.040									
Chlorobenzene		< 0.15	0.15									
Chloroethane		< 0.15	0.15									
Chloroform		< 0.15	0.15									
Chloromethane		< 0.15	0.15									
cis-1,2-Dichloroethene		< 0.15	0.15									
cis-1,3-Dichloropropene		< 0.15	0.15									
Cyclohexane		< 0.15	0.15									
Dibromochloromethane		< 0.15	0.15									
Ethyl acetate		< 0.25	0.25									
Ethylbenzene		< 0.15	0.15									
Freon 11		< 0.15	0.15									
Freon 113		< 0.15	0.15									
Freon 114		< 0.15	0.15									
Freon 12		< 0.15	0.15									
Heptane		< 0.15	0.15									
Hexachloro-1,3-butadiene		< 0.15	0.15									
Hexane		< 0.15	0.15									
Isopropyl alcohol		< 0.15	0.15									
m&p-Xylene		< 0.30	0.30									
Methyl Butyl Ketone		< 0.30	0.30									
Methyl Ethyl Ketone		< 0.30	0.30									
Methyl Isobutyl Ketone		< 0.30	0.30									

Qualifiers: J Results reported are not blank corrected
S Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
NID Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040816	Sample Type	MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855				
Client ID:	ZZZZZ	Batch ID:	R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 127507				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Qualifiers:	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	IDL
Propylene	0.15	0.16	0.15	0.16	0.14	0.16	0.14	0.16	0.153	0.010	98.1	0.030
Freon 12	0.15	0.18	0.17	0.17	0.17	0.18	0.17	0.17	0.173	0.005	86.8	0.015
Chloromethane	0.15	0.19	0.18	0.16	0.18	0.18	0.2	0.17	0.180	0.013	83.3	0.041
Freon 114	0.15	0.18	0.17	0.17	0.17	0.18	0.17	0.18	0.174	0.005	86.1	0.017
Vinyl Chloride	0.15	0.17	0.16	0.16	0.15	0.16	0.15	0.15	0.157	0.008	95.5	0.024
Butane	0.15	0.18	0.16	0.17	0.18	0.18	0.19	0.19	0.179	0.011	84.0	0.034
1,3-butadiene	0.15	0.21	0.2	0.2	0.22	0.17	0.18	0.23	0.201	0.021	74.5	0.066
Bromomethane	0.15	0.18	0.2	0.21	0.18	0.22	0.16	0.21	0.194	0.021	77.2	0.068
Chloroethane	0.15	0.19	0.19	0.16	0.19	0.19	0.18	0.19	0.184	0.011	81.4	0.036
Ethanol	0.15	0.16	0.16	0.18	0.17	0.19	0.18	0.19	0.176	0.013	85.4	0.040
Acrolein	0.15	0.22	0.17	0.19	0.16	0.18	0.21	0.17	0.186	0.022	80.8	0.070
Vinyl Bromide	0.15	0.17	0.15	0.16	0.16	0.17	0.17	0.17	0.164	0.008	91.3	0.025
Freon 11	0.15	0.18	0.17	0.17	0.18	0.19	0.17	0.18	0.177	0.008	84.7	0.024
Acetone	0.15	0.2	0.17	0.18	0.15	0.15	0.18	0.14	0.167	0.021	89.7	0.067
Pentane	0.15	0.18	0.17	0.18	0.16	0.17	0.2	0.16	0.174	0.014	86.1	0.044
Isopropyl alcohol	0.15	0.22	0.2	0.19	0.2	0.19	0.21	0.19	0.200	0.012	75.0	0.036
1,1-dichloroethene	0.15	0.2	0.17	0.19	0.19	0.19	0.18	0.18	0.186	0.010	80.8	0.031
Freon 113	0.15	0.17	0.16	0.18	0.18	0.18	0.17	0.17	0.173	0.008	86.8	0.024
t-Butyl alcohol	0.15	0.21	0.2	0.2	0.21	0.2	0.2	0.18	0.200	0.010	75.0	0.031
Methylene chloride	0.15	0.2	0.18	0.19	0.18	0.2	0.19	0.17	0.187	0.011	80.2	0.035
Allyl chloride	0.15	0.18	0.17	0.16	0.18	0.18	0.2	0.18	0.179	0.012	84.0	0.038
Carbon disulfide	0.15	0.2	0.17	0.19	0.19	0.2	0.18	0.19	0.189	0.011	79.5	0.034
trans-1,2-dichloroethene	0.15	0.15	0.14	0.14	0.14	0.16	0.14	0.15	0.146	0.008	102.9	0.025
methyl tert-butyl ether	0.15	0.14	0.14	0.14	0.13	0.15	0.14	0.13	0.139	0.007	108.2	0.022
1,1-dichloroethane	0.15	0.17	0.15	0.16	0.15	0.17	0.16	0.16	0.160	0.008	93.8	0.026
Vinyl acetate	0.15	0.14	0.13	0.14	0.13	0.13	0.13	0.12	0.131	0.007	114.1	0.022
Methyl Ethyl Ketone	0.15	0.17	0.17	0.16	0.16	0.15	0.13	0.12	0.151	0.020	99.1	0.061
cis-1,2-dichloroethene	0.15	0.15	0.14	0.16	0.15	0.16	0.15	0.14	0.150	0.008	100.0	0.026
Hexane	0.15	0.12	0.14	0.13	0.13	0.13	0.12	0.12	0.127	0.008	118.0	0.024
Ethyl acetate	0.15	0.16	0.17	0.14	0.15	0.14	0.16	0.13	0.150	0.014	100.0	0.044
Chloroform	0.15	0.16	0.16	0.16	0.16	0.17	0.16	0.17	0.163	0.005	92.1	0.015
Tetrahydrofuran	0.15	0.15	0.13	0.15	0.15	0.15	0.15	0.14	0.146	0.008	102.9	0.025
1,2-dichloroethane	0.15	0.16	0.15	0.16	0.16	0.17	0.16	0.17	0.161	0.007	92.9	0.022
1,1,1-trichloroethane	0.15	0.17	0.16	0.17	0.17	0.16	0.17	0.17	0.167	0.005	89.7	0.015
Cyclohexane	0.15	0.14	0.14	0.14	0.15	0.15	0.14	0.14	0.143	0.005	105.0	0.015
Carbon tetrachloride	0.15	0.13	0.15	0.15	0.15	0.15	0.15	0.16	0.149	0.009	101.0	0.028
Benzene	0.15	0.15	0.16	0.16	0.15	0.16	0.16	0.16	0.157	0.005	95.5	0.015
Methyl methacrylate	0.15	0.15	0.15	0.14	0.14	0.14	0.15	0.11	0.140	0.014	107.1	0.044
1,4-dioxane	0.15	0.18	0.18	0.19	0.18	0.15	0.17	0.12	0.167	0.024	89.7	0.076

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Centek Laboratories IDL Study		1ug/M3 Detection Limit January 2016							Method TO-15A Units=ppb			
Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	IDL
2,2,4-trimethylpentane	0.15	0.15	0.15	0.15	0.16	0.14	0.16	0.15	0.151	0.007	99.1	0.022
Heptane	0.15	0.12	0.13	0.13	0.12	0.13	0.13	0.13	0.127	0.005	118.0	0.015
Trichloroethane	0.15	0.14	0.15	0.14	0.15	0.15	0.14	0.15	0.146	0.005	102.9	0.017
1,2-dichloropropane	0.15	0.16	0.17	0.17	0.16	0.17	0.16	0.16	0.164	0.005	91.3	0.017
Bromodichloromethane	0.15	0.16	0.16	0.16	0.15	0.16	0.17	0.16	0.160	0.006	93.8	0.018
cis-1,3-dichloropropene	0.15	0.13	0.13	0.14	0.14	0.13	0.13	0.13	0.133	0.005	112.9	0.015
trans-1,3-dichloropropene	0.15	0.16	0.13	0.13	0.14	0.14	0.14	0.16	0.143	0.013	105.0	0.039
1,1,2-trichloroethane	0.15	0.16	0.15	0.16	0.15	0.16	0.18	0.17	0.161	0.011	92.9	0.034
Toluene	0.15	0.14	0.14	0.14	0.13	0.16	0.14	0.15	0.143	0.010	105.0	0.030
Methyl isobutyl Ketone	0.15	0.18	0.18	0.18	0.18	0.16	0.18	0.15	0.173	0.013	86.8	0.039
Dibromochloromethane	0.15	0.16	0.16	0.17	0.18	0.16	0.17	0.18	0.169	0.009	89.0	0.028
Methyl Butyl Ketone	0.15	0.17	0.16	0.18	0.17	0.16	0.17	0.14	0.164	0.013	91.3	0.040
1,2-dibromoethane	0.15	0.16	0.17	0.16	0.16	0.16	0.16	0.17	0.163	0.005	92.1	0.015
Tetrachloroethylene	0.15	0.16	0.17	0.16	0.16	0.16	0.17	0.17	0.164	0.005	91.3	0.017
Chlorobenzene	0.15	0.16	0.16	0.16	0.17	0.15	0.17	0.17	0.163	0.008	92.1	0.024
1,1,1,2-tetrachloroethane	0.15	0.17	0.17	0.17	0.18	0.16	0.18	0.17	0.171	0.007	87.5	0.022
Ethylbenzene	0.15	0.13	0.14	0.14	0.14	0.12	0.14	0.13	0.134	0.008	111.7	0.025
m&p-xylene	0.3	0.25	0.25	0.25	0.23	0.25	0.25	0.25	0.247	0.008	121.4	0.024
Nonane	0.15	0.11	0.11	0.11	0.11	0.1	0.1	0.11	0.107	0.005	140.0	0.015
Styrene	0.15	0.12	0.13	0.13	0.11	0.12	0.13	0.12	0.123	0.008	122.1	0.024
Bromoform	0.15	0.15	0.15	0.16	0.15	0.15	0.17	0.16	0.156	0.008	96.3	0.025
o-xylene	0.15	0.11	0.12	0.12	0.14	0.14	0.12	0.11	0.123	0.013	122.1	0.039
Cumene	0.15	0.12	0.13	0.13	0.12	0.13	0.13	0.13	0.127	0.005	118.0	0.015
Bromofluorobenzene	1	0.88	0.9	0.9	0.87	0.89	0.89	0.9	0.890	0.012	112.4	0.036
1,1,2,2-tetrachloroethane	0.15	0.16	0.16	0.17	0.16	0.17	0.17	0.16	0.164	0.005	91.3	0.017
Propylbenzene	0.15	0.13	0.12	0.13	0.13	0.11	0.13	0.11	0.123	0.010	122.1	0.030
2-Chlorotoluene	0.15	0.13	0.13	0.13	0.14	0.13	0.12	0.13	0.130	0.006	115.4	0.018
4-ethyltoluene	0.15	0.11	0.12	0.12	0.12	0.13	0.13	0.11	0.120	0.008	125.0	0.026
1,3,5-trimethylbenzene	0.15	0.12	0.13	0.14	0.12	0.13	0.13	0.13	0.129	0.007	116.7	0.022
1,2,4-trimethylbenzene	0.15	0.12	0.13	0.12	0.12	0.13	0.12	0.12	0.123	0.005	122.1	0.015
1,3-dichlorobenzene	0.15	0.14	0.14	0.14	0.13	0.14	0.13	0.14	0.137	0.005	109.4	0.015
benzyl chloride	0.15	0.13	0.16	0.13	0.15	0.13	0.15	0.16	0.144	0.014	104.0	0.044
1,4-dichlorobenzene	0.15	0.13	0.11	0.12	0.12	0.12	0.12	0.13	0.121	0.007	123.5	0.022
1,2,3-trimethylbenzene	0.15	0.12	0.11	0.12	0.12	0.12	0.11	0.11	0.116	0.005	129.6	0.017
1,2-dichlorobenzene	0.15	0.13	0.14	0.14	0.14	0.14	0.14	0.13	0.137	0.005	109.4	0.015
1,2,4-trichlorobenzene	0.15	0.1	0.11	0.1	0.11	0.11	0.12	0.1	0.107	0.008	140.0	0.024
Naphthalene	0.15	0.13	0.13	0.14	0.11	0.12	0.14	0.12	0.127	0.011	118.0	0.035
Hexachloro-1,3-butadiene	0.15	0.16	0.17	0.17	0.17	0.16	0.16	0.16	0.164	0.005	91.3	0.017

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1/8/2016

Centek Laboratories
IDL Study0.25ug/M3 Detection Limit
January 2016Method TO-15A
Units=ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	IDL
Vinyl Chloride	0.1	0.11	0.11	0.09	0.09	0.1	0.09	0.1	0.099	0.009	101.4	0.028
Carbon tetrachloride	0.1	0.1	0.11	0.08	0.09	0.09	0.09	0.09	0.093	0.010	107.7	0.030
Trichloroethene	0.1	0.1	0.1	0.07	0.08	0.08	0.08	0.08	0.084	0.011	118.6	0.036
Tetrachloroethylene	0.1	0.11	0.12	0.09	0.09	0.1	0.09	0.09	0.099	0.012	101.4	0.038
Naphthalene	0.1	0.09	0.08	0.07	0.06	0.06	0.07	0.06	0.070	0.012	142.9	0.036

Confidential

1/15/2016

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{A_x * C_{is}}{A_{is} * C_x}$$

where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 C_x = concentration of the compound being measured (ppbv)
 C_{is} = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRF_c - \text{mean } RRF_i) * 100}{\text{mean } RRF_i}$$

where: RRF_c = relative response factor from the continuing calibration
 $\text{mean } RRF_i$ = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{A_x * I_s * D_f}{A_{is} * RRF}$$

where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 I_s = Concentration of the internal standard injected (ppbv)
 RRF = relative response factor for the compound being measured
 D_f = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-001A

Client Sample ID: IN-01
 Tag Number: 1184 402
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-5			"Hg		4/5/2016
Lab Vacuum Out	-30			"Hg		4/5/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2,4-Trimethylbenzene	0.95	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,3,5-Trimethylbenzene	0.34	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/7/2016 11:42:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	4/7/2016 11:42:00 PM
4-ethyltoluene	0.21	0.15		ppbV	1	4/7/2016 11:42:00 PM
Acetone	5.1	3.0		ppbV	10	4/8/2016 9:30:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Benzene	0.64	0.15		ppbV	1	4/7/2016 11:42:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Bromoform	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Carbon tetrachloride	0.13	0.040		ppbV	1	4/7/2016 11:42:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Chloroform	0.21	0.15		ppbV	1	4/7/2016 11:42:00 PM
Chloromethane	0.82	0.15		ppbV	1	4/7/2016 11:42:00 PM
cis-1,2-Dichloroethene	0.11	0.15	J	ppbV	1	4/7/2016 11:42:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Cyclohexane	0.27	0.15		ppbV	1	4/7/2016 11:42:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Ethyl acetate	0.23	0.25	J	ppbV	1	4/7/2016 11:42:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-001A

Client Sample ID: IN-01
 Tag Number: 1184 402
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	0.28	0.15		ppbV	1	4/7/2016 11:42:00 PM
Freon 11	0.35	0.15		ppbV	1	4/7/2016 11:42:00 PM
Freon 113	0.14	0.15	J	ppbV	1	4/7/2016 11:42:00 PM
Freon 114	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Freon 12	0.77	0.15		ppbV	1	4/7/2016 11:42:00 PM
Heptane	0.46	0.15		ppbV	1	4/7/2016 11:42:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Hexane	1.0	0.15		ppbV	1	4/7/2016 11:42:00 PM
Isopropyl alcohol	0.73	0.15		ppbV	1	4/7/2016 11:42:00 PM
m&p-Xylene	0.90	0.30		ppbV	1	4/7/2016 11:42:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/7/2016 11:42:00 PM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	4/7/2016 11:42:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/7/2016 11:42:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Methylene chloride	0.35	0.15		ppbV	1	4/7/2016 11:42:00 PM
o-Xylene	0.35	0.15		ppbV	1	4/7/2016 11:42:00 PM
Propylene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Styrene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Tetrachloroethylene	0.10	0.15	J	ppbV	1	4/7/2016 11:42:00 PM
Tetrahydrofuran	2.2	0.15		ppbV	1	4/7/2016 11:42:00 PM
Toluene	1.3	0.15		ppbV	1	4/7/2016 11:42:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Trichloroethene	0.21	0.040		ppbV	1	4/7/2016 11:42:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/7/2016 11:42:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	4/7/2016 11:42:00 PM
Surr: Bromofluorobenzene	116	70-130		%REC	1	4/7/2016 11:42:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
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Centek Laboratories, LLC

Date: 11-May-16

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 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-001A

Client Sample ID: IN-01
 Tag Number: 1184 402
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 11:42:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/7/2016 11:42:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 11:42:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 11:42:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 11:42:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/7/2016 11:42:00 PM
1,2,4-Trimethylbenzene	4.7	0.74		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 11:42:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/7/2016 11:42:00 PM
1,3,5-Trimethylbenzene	1.7	0.74		ug/m3	1	4/7/2016 11:42:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/7/2016 11:42:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 11:42:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 11:42:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/7/2016 11:42:00 PM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	4/7/2016 11:42:00 PM
4-ethyltoluene	1.0	0.74		ug/m3	1	4/7/2016 11:42:00 PM
Acetone	12	7.1		ug/m3	10	4/8/2016 9:30:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/7/2016 11:42:00 PM
Benzene	2.0	0.48		ug/m3	1	4/7/2016 11:42:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/7/2016 11:42:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/7/2016 11:42:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	4/7/2016 11:42:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	4/7/2016 11:42:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/7/2016 11:42:00 PM
Carbon tetrachloride	0.82	0.25		ug/m3	1	4/7/2016 11:42:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/7/2016 11:42:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/7/2016 11:42:00 PM
Chloroform	1.0	0.73		ug/m3	1	4/7/2016 11:42:00 PM
Chloromethane	1.7	0.31		ug/m3	1	4/7/2016 11:42:00 PM
cis-1,2-Dichloroethene	0.44	0.59	J	ug/m3	1	4/7/2016 11:42:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 11:42:00 PM
Cyclohexane	0.93	0.52		ug/m3	1	4/7/2016 11:42:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/7/2016 11:42:00 PM
Ethyl acetate	0.83	0.90	J	ug/m3	1	4/7/2016 11:42:00 PM
Ethylbenzene	1.2	0.65		ug/m3	1	4/7/2016 11:42:00 PM
Freon 11	2.0	0.84		ug/m3	1	4/7/2016 11:42:00 PM
Freon 113	1.1	1.1	J	ug/m3	1	4/7/2016 11:42:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	4/7/2016 11:42:00 PM

Qualifiers:	** Reporting Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected at or below quantitation limits
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S	Spike Recovery outside accepted recovery limits	

Page 1 of 4

Centek Laboratories, LLC

Date: 11-May-16

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 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-001A

Client Sample ID: IN-01
 Tag Number: 1184 402
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	3.8	0.74		ug/m3	1	4/7/2016 11:42:00 PM
Heptane	1.9	0.61		ug/m3	1	4/7/2016 11:42:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/7/2016 11:42:00 PM
Hexane	3.6	0.53		ug/m3	1	4/7/2016 11:42:00 PM
Isopropyl alcohol	1.8	0.37		ug/m3	1	4/7/2016 11:42:00 PM
m&p-Xylene	3.9	1.3		ug/m3	1	4/7/2016 11:42:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/7/2016 11:42:00 PM
Methyl Ethyl Ketone	3.7	0.88		ug/m3	1	4/7/2016 11:42:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/7/2016 11:42:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/7/2016 11:42:00 PM
Methylene chloride	1.2	0.52		ug/m3	1	4/7/2016 11:42:00 PM
o-Xylene	1.5	0.65		ug/m3	1	4/7/2016 11:42:00 PM
Propylene	< 0.26	0.26		ug/m3	1	4/7/2016 11:42:00 PM
Styrene	< 0.64	0.64		ug/m3	1	4/7/2016 11:42:00 PM
Tetrachloroethylene	0.68	1.0	J	ug/m3	1	4/7/2016 11:42:00 PM
Tetrahydrofuran	6.6	0.44		ug/m3	1	4/7/2016 11:42:00 PM
Toluene	4.9	0.57		ug/m3	1	4/7/2016 11:42:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 11:42:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 11:42:00 PM
Trichloroethene	1.1	0.21		ug/m3	1	4/7/2016 11:42:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/7/2016 11:42:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/7/2016 11:42:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/7/2016 11:42:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Data File : C:\HPCHEM\1\DATA\AN040724.D

Vial: 58

Acq On : 7 Apr 2016 11:42 pm

Operator: RJP

Sample : C1604014-001A

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 08 16:55:30 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.91	128	23770	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.05	114	65045	1.00	ppb	0.00
50) Chlorobenzene-d5	16.56	117	45273	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.13	95	33746	1.16	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	116.00%

Target Compounds

						Qvalue
3) Freon 12	4.18	85	77672	0.77	ppb	99
4) Chloromethane	4.39	50	21794	0.82	ppb	83
14) Freon 11	5.79	101	36986	0.35	ppb	95
15) Acetone	6.03	58	58564	5.71	ppb	# 27
17) Isopropyl alcohol	6.16	45	24456m ^p	0.73	ppb	
19) Freon 113	6.74	101	10026	0.14	ppb	90
21) Methylene chloride	7.05	84	9451	0.35	ppb	84
28) Methyl Ethyl Ketone	8.94	72	13935	1.27	ppb	# 100
29) cis-1,2-dichloroethene	9.37	61	3190	0.11	ppb	97
30) Hexane	8.89	57	31402	1.01	ppb	93
31) Ethyl acetate	9.52	43	9953	0.23	ppb	86
32) Chloroform	9.94	83	14244	0.21	ppb	96
33) Tetrahydrofuran	10.15	42	44074	2.24	ppb	96
37) Cyclohexane	11.42	56	6847m ^p	0.27	ppb	
38) Carbon tetrachloride	11.37	117	8564	0.13	ppb	97
39) Benzene	11.36	78	34864	0.64	ppb	95
42) 2,2,4-trimethylpentane	12.18	57	21549	0.23	ppb	# 51
43) Heptane	12.53	43	10194	0.46	ppb	86
44) Trichloroethene	12.66	130	5810	0.21	ppb	89
51) Toluene	14.67	92	39582	1.29	ppb	99
56) Tetrachloroethylene	15.65	164	3037	0.10	ppb	96
59) Ethylbenzene	16.84	91	15030	0.28	ppb	100
60) m&p-xylene	17.01	91	37809	0.90	ppb	95
64) o-xylene	17.48	91	17810 ^p	0.35	ppb	84
70) 4-ethyltoluene	18.70	105	11305m	0.21	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	22004m ^p	0.34	ppb	
72) 1,2,4-trimethylbenzene	19.18	105	52613	0.95	ppb	98

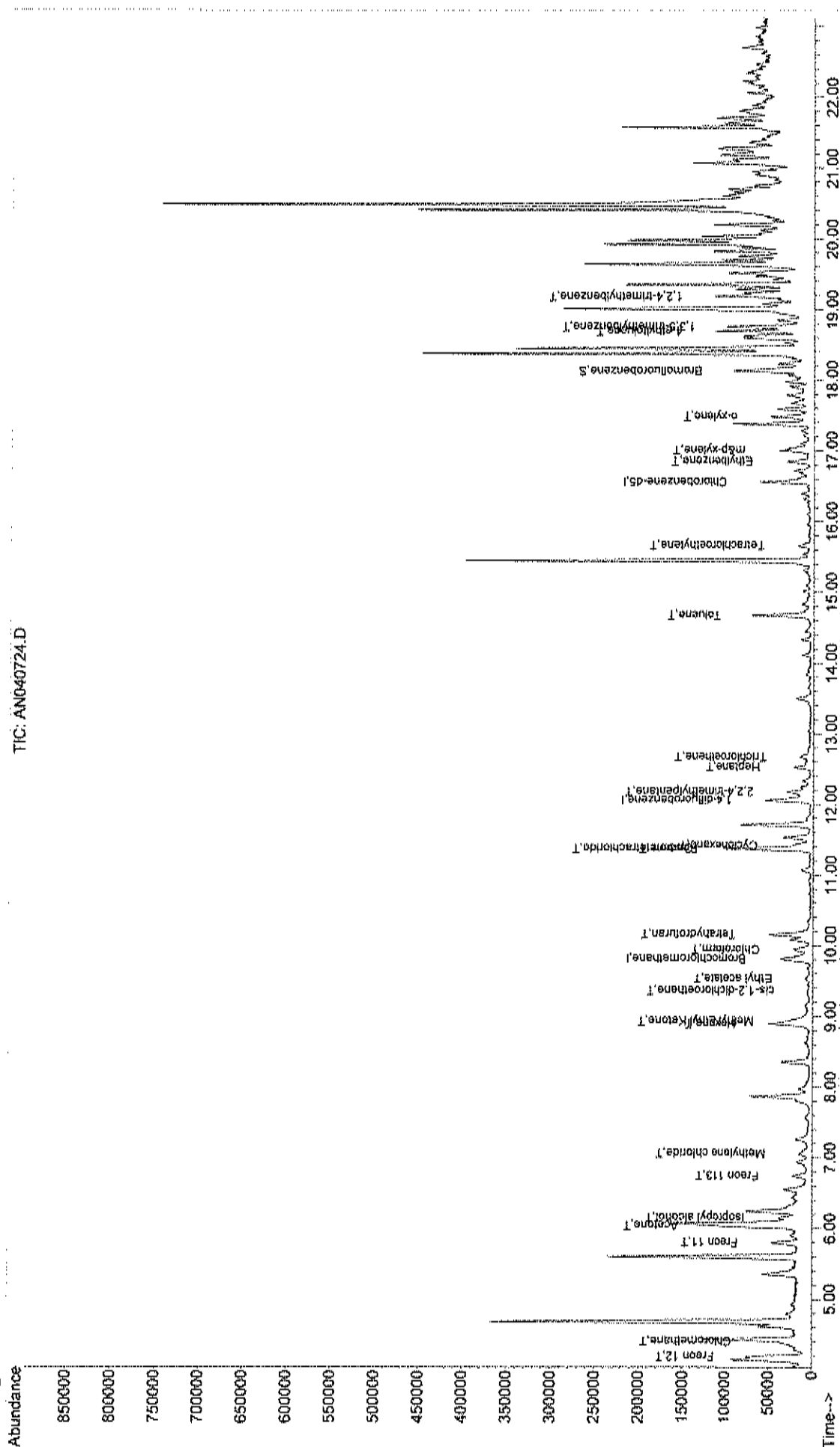
Quantitation Report (QT Reviewed)

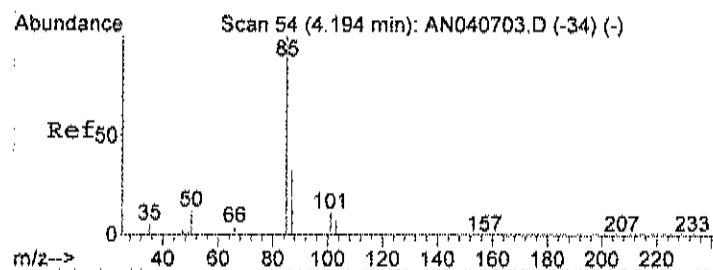
Data File : C:\HPCHEM\1\DATA\AN040724.D
Acq On : 7 Apr 2016 11:42 pm
Sample : C1604014-001A
Misc : A316_1UG
MS Integration Params: RTEINT.P
Quant Time: Apr 11 17:47 2016

Vial: 58
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316_1UG.RES

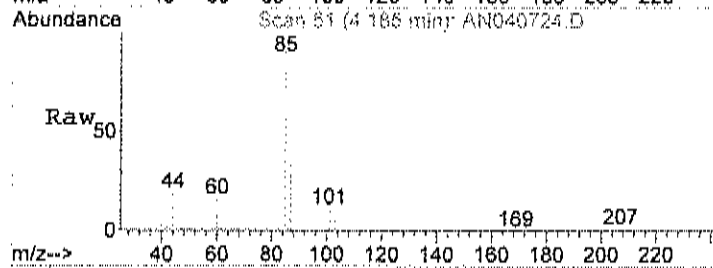
Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed May 11 08:43:37 2016
Response via : Initial Calibration



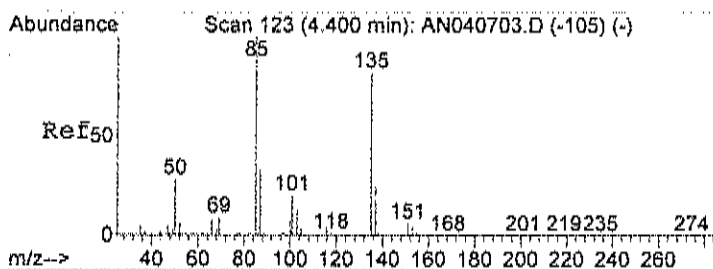
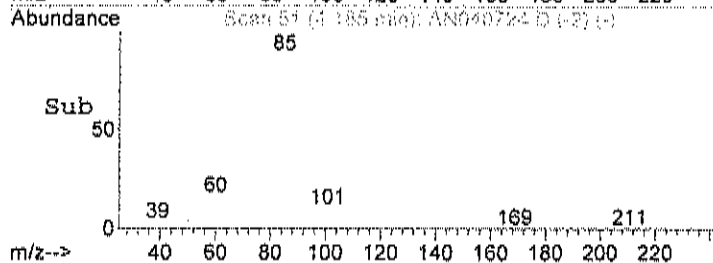
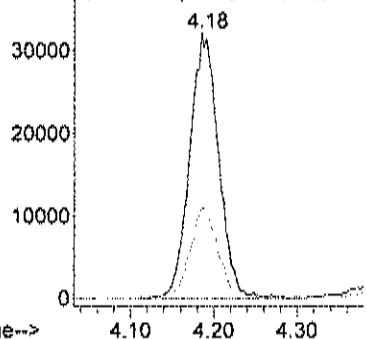


#3
Freon 12
Concen: 0.77 ppb
RT: 4.18 min Scan# 51
Delta R.T. -0.00 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion: 85 Resp: 77672
Ion Ratio Lower Upper
85 100
87 33.0 12.5 52.5

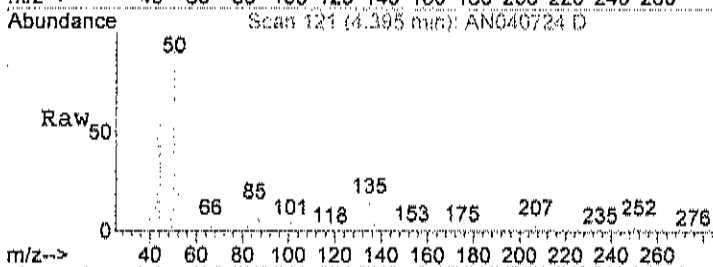


Abundance Ion 85.00 (84.70 to 85.70): ANI
Ion 87.00 (86.70 to 87.70): ANI

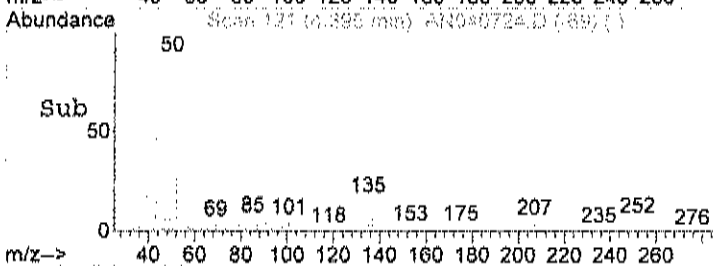
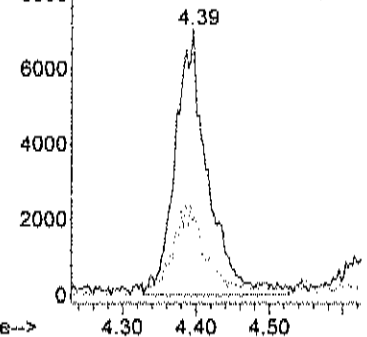


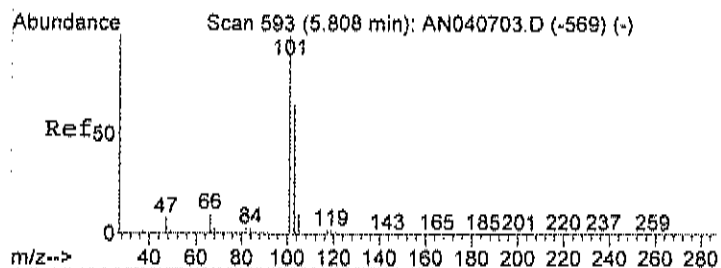
#4
Chloromethane
Concen: 0.82 ppb
RT: 4.39 min Scan# 121
Delta R.T. 0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion: 50 Resp: 21794
Ion Ratio Lower Upper
50 100
52 38.4 9.2 49.2



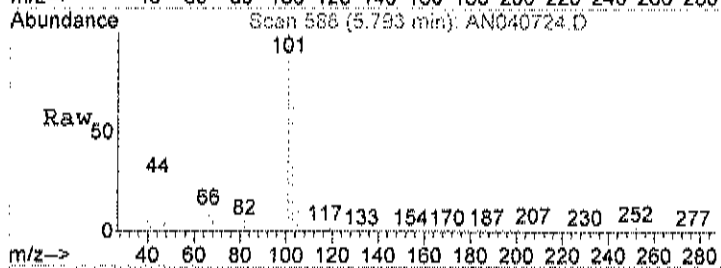
Abundance Ion 50.00 (49.70 to 50.70): ANI
Ion 52.00 (51.70 to 52.70): ANI





#14
Freon 11
Concen: 0.35 ppb
RT: 5.79 min Scan# 588
Delta R.T. -0.00 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

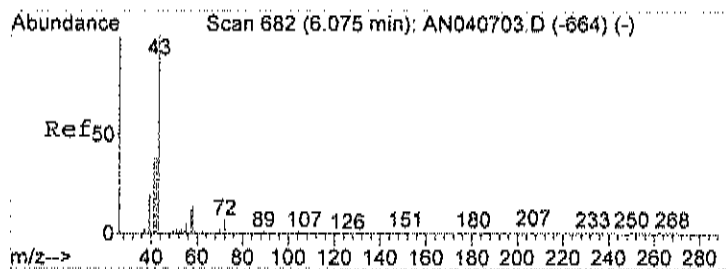
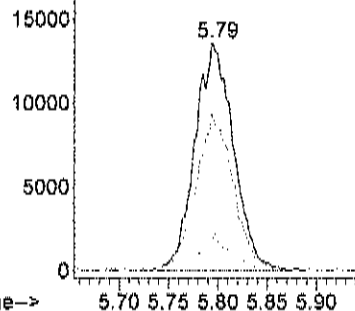
Tgt Ion	Ratio	Lower	Upper
101	100		
103	68.0	44.6	84.6
105	14.5	0.0	31.6



Abundance Ion 101.00 (100.70 to 101.70): AN

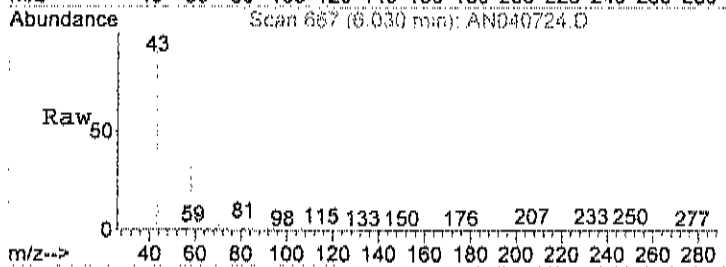
Ion 103.00 (102.70 to 103.70): AN

Ion 105.00 (104.70 to 105.70): AN



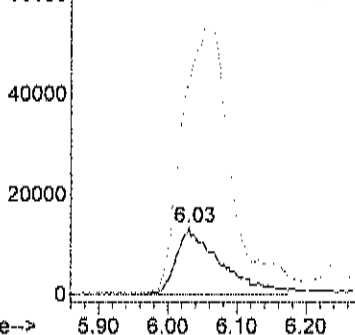
#15
Acetone
Concen: 5.71 ppb
RT: 6.03 min Scan# 667
Delta R.T. -0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

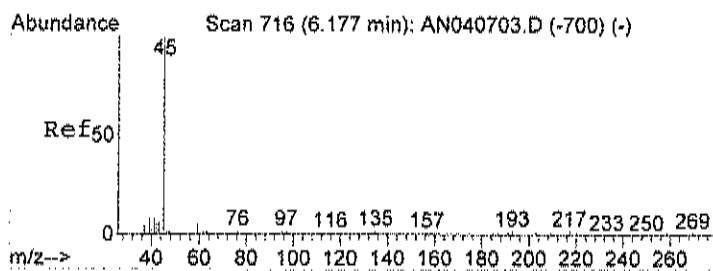
Tgt Ion	Ratio	Lower	Upper
58	100		
43	439.4	661.8	721.8#



Abundance Ion 58.00 (57.70 to 58.70): AN

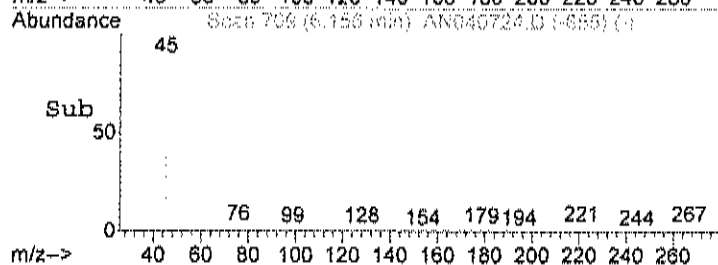
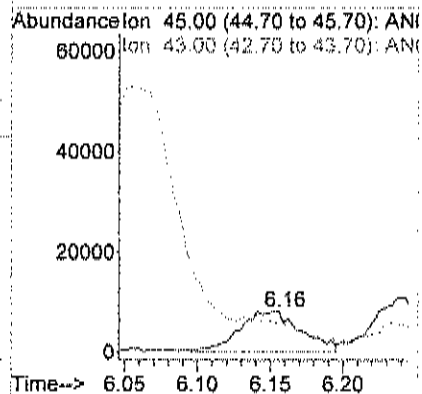
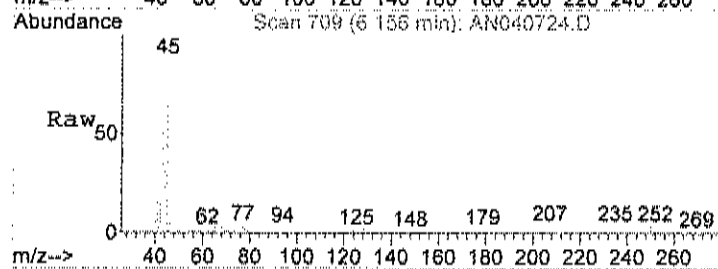
Ion 43.00 (42.70 to 43.70): AN





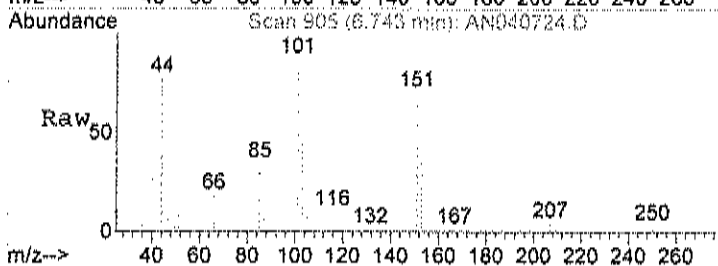
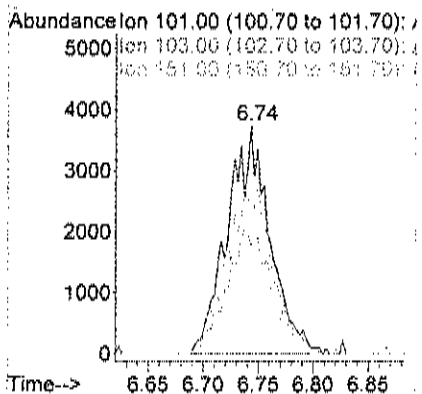
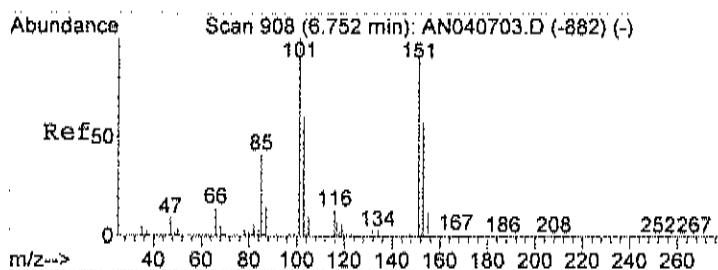
#17
Isopropyl alcohol
Concen: 0.73 ppb m
RT: 6.16 min Scan# 709
Delta R.T. 0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

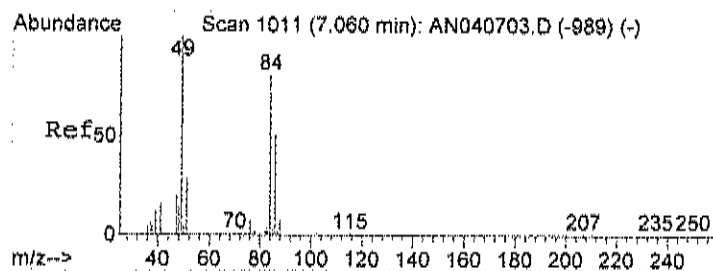
Tgt Ion: 45 Resp: 24456
Ion Ratio Lower Upper
45 100
43 0.0 8.9 48.9#



#19
Freon 113
Concen: 0.14 ppb
RT: 6.74 min Scan# 905
Delta R.T. 0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

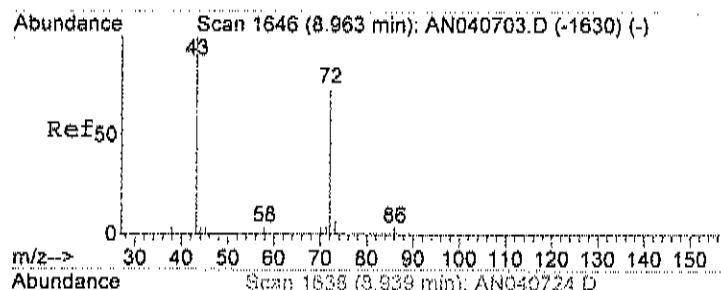
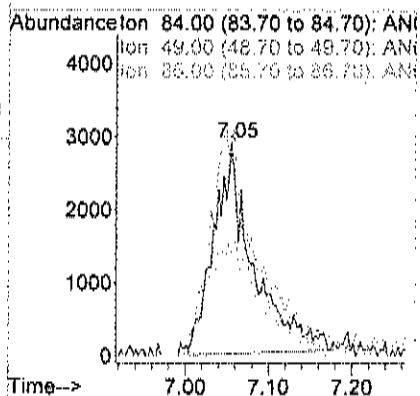
Tgt Ion: 101 Resp: 10026
Ion Ratio Lower Upper
101 100
103 58.5 42.5 82.5
151 78.5 70.9 110.9





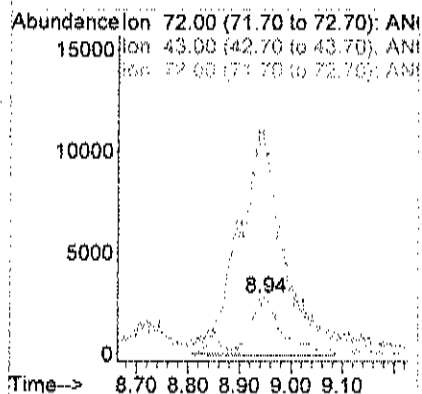
#21
Methylene chloride
Concen: 0.35 ppb
RT: 7.05 min Scan# 1009
Delta R.T. 0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

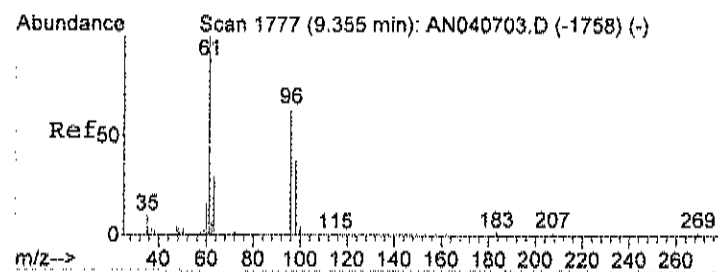
Tgt Ion: 84 Resp: 9451
Ion Ratio Lower Upper
84 100
49 127.3 87.8 127.8
86 72.6 43.1 83.1



#28
Methyl Ethyl Ketone
Concen: 1.27 ppb
RT: 8.94 min Scan# 1638
Delta R.T. -0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion: 72 Resp: 13935
Ion Ratio Lower Upper
72 100
43 0.0 0.0 20.0
72 100.0 80.0 120.0

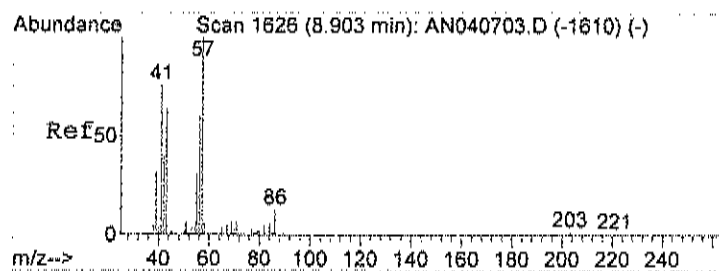
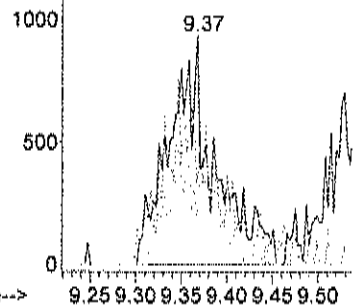




#29
cis-1,2-dichloroethene
Concen: 0.11 ppb
RT: 9.37 min Scan# 1781
Delta R.T. 0.03 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion	Ratio	Lower	Upper
61	100		
96	73.7	51.2	91.2
98	41.2	23.7	63.7

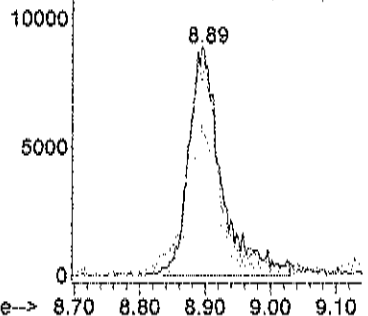
Abundance Ion 61.00 (60.70 to 61.70): ANI
Ion 96.00 (95.70 to 96.70): ANI
Ion 98.00 (97.70 to 98.70): ANI

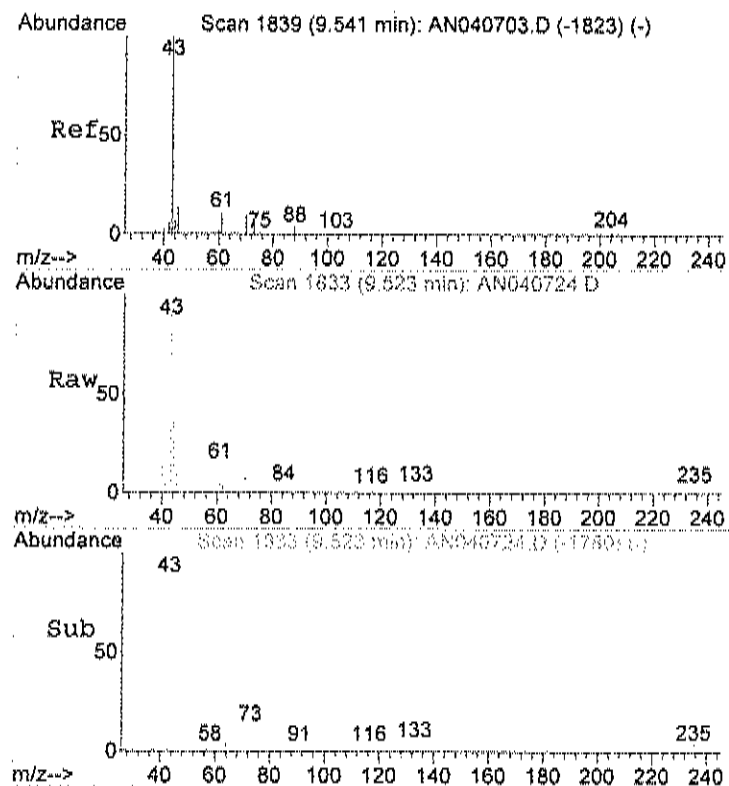


#30
Hexane
Concen: 1.01 ppb
RT: 8.89 min Scan# 1623
Delta R.T. 0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.1	66.6	106.6
56	57.2	30.6	70.6

Abundance Ion 57.00 (56.70 to 57.70): ANI
Ion 41.00 (40.70 to 41.70): ANI
Ion 55.00 (54.70 to 55.70): ANI

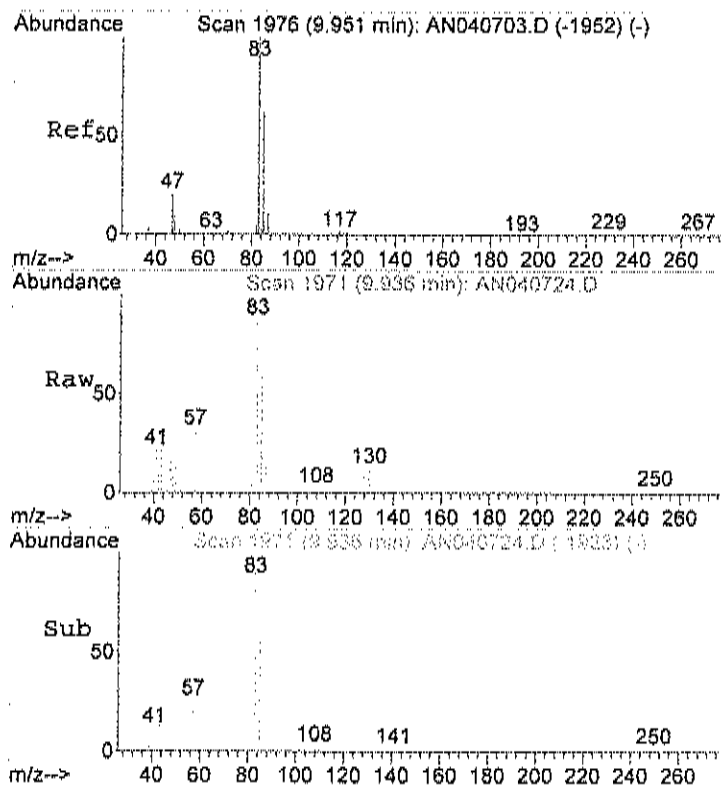
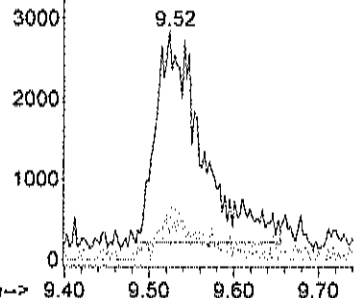




#31
Ethyl acetate
Concen: 0.23 ppb
RT: 9.52 min Scan# 1833
Delta R.T. 0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion	43	Resp	9953
Ion	Ratio	Lower	Upper
43	100		
45	18.8	0.0	33.8
61	19.7	0.0	33.3

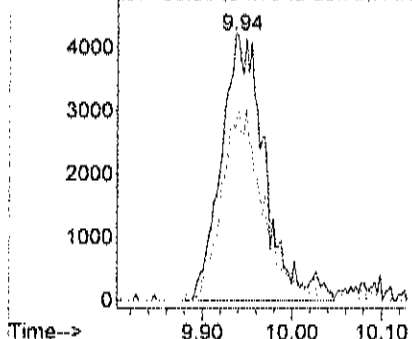
Abundance Ion 43.00 (42.70 to 43.70): ANI
Ion 45.00 (44.70 to 45.70): ANI
Ion 61.00 (60.70 to 61.70): ANI

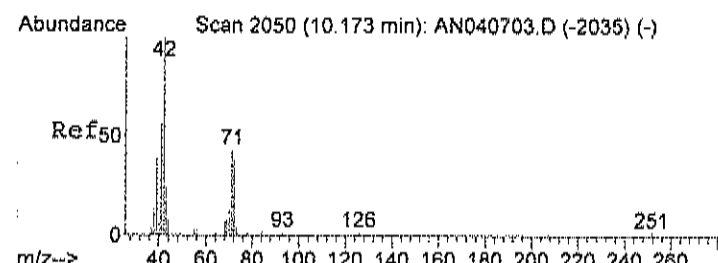


#32
Chloroform
Concen: 0.21 ppb
RT: 9.94 min Scan# 1971
Delta R.T. -0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion	83	Resp	14244
Ion	Ratio	Lower	Upper
83	100		
85	67.2	43.9	83.9

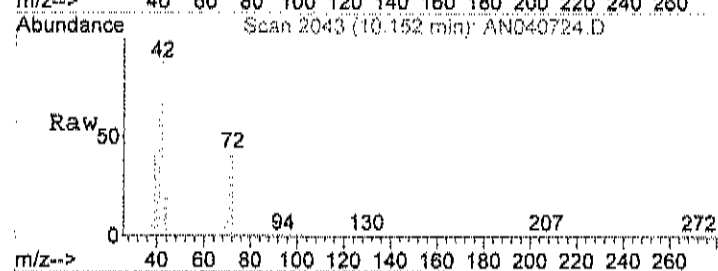
Abundance Ion 83.00 (82.70 to 83.70): ANI
Ion 85.00 (84.70 to 85.70): ANI



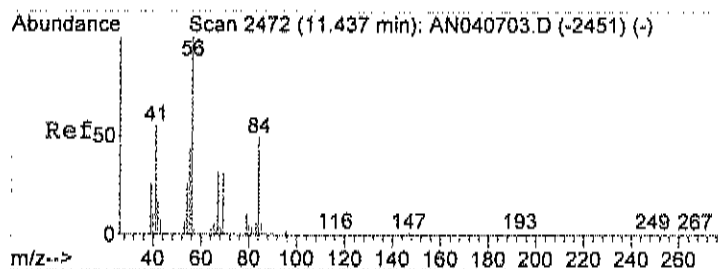
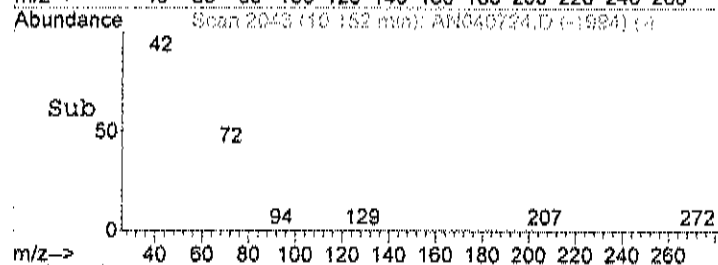
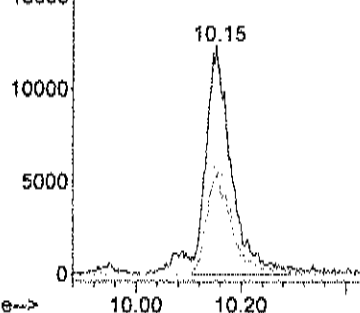


#33
Tetrahydrofuran
Concen: 2.24 ppb
RT: 10.15 min Scan# 2043
Delta R.T. -0.00 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion	Ratio	Lower	Upper
42	100		
71	40.7	20.0	60.0
72	42.8	19.1	59.1

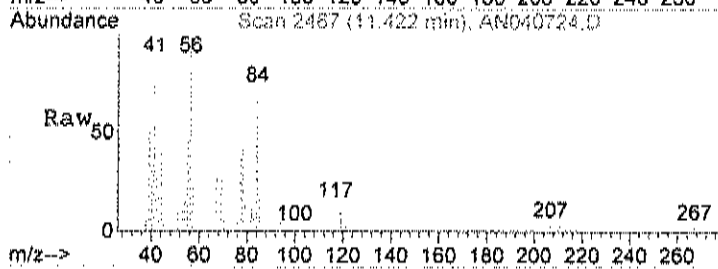


Abundance Ion 42.00 (41.70 to 42.70): ANI
Ion 71.00 (70.70 to 71.70): ANI
Ion 72.00 (71.70 to 72.70): ANI

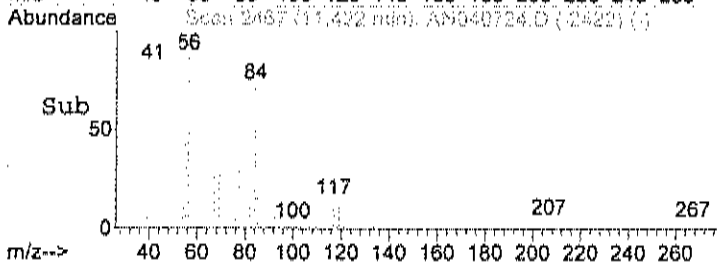
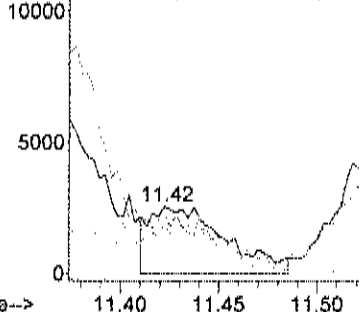


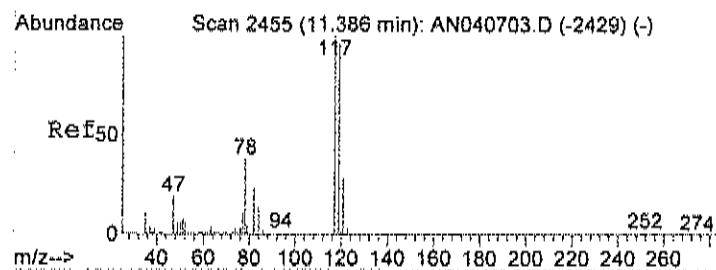
#37
Cyclohexane
Concen: 0.27 ppb m
RT: 11.42 min Scan# 2467
Delta R.T. -0.02 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion	Ratio	Lower	Upper
56	100		
41	599.7	47.3	87.3#
84	0.0	88.1	128.1#



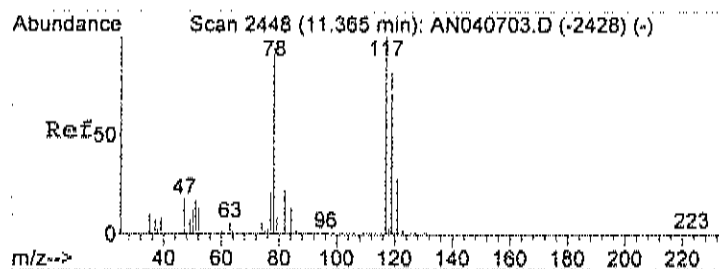
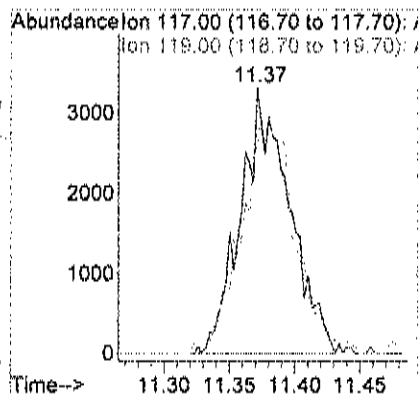
Abundance Ion 56.00 (55.70 to 56.70): ANI
Ion 41.00 (40.70 to 41.70): ANI
Ion 84.00 (83.70 to 84.70): ANI





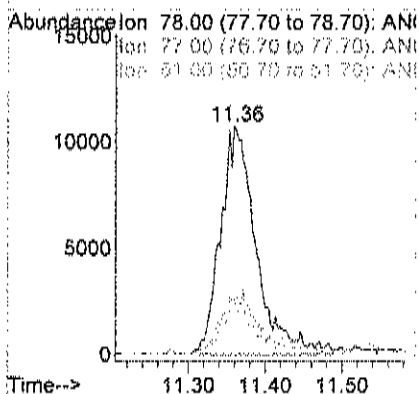
#38
Carbon tetrachloride
Concen: 0.13 ppb
RT: 11.37 min Scan# 2450
Delta R.T. -0.02 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

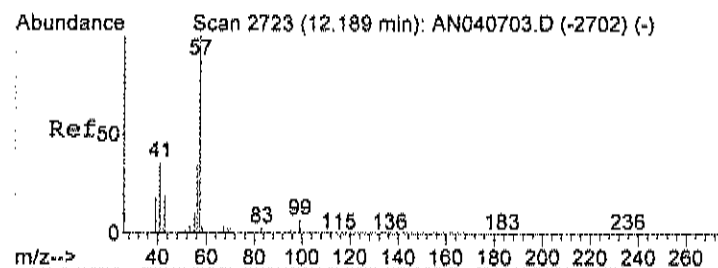
Tgt Ion: 117 Resp: 8564
Ion Ratio Lower Upper
117 100
119 97.1 74.5 114.5



#39
Benzene
Concen: 0.64 ppb
RT: 11.36 min Scan# 2446
Delta R.T. 0.00 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

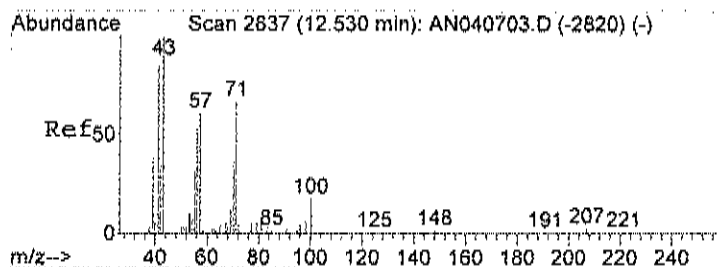
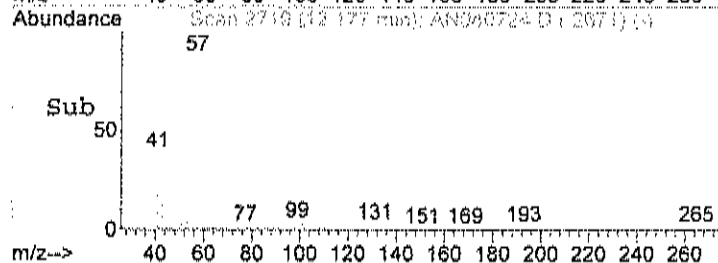
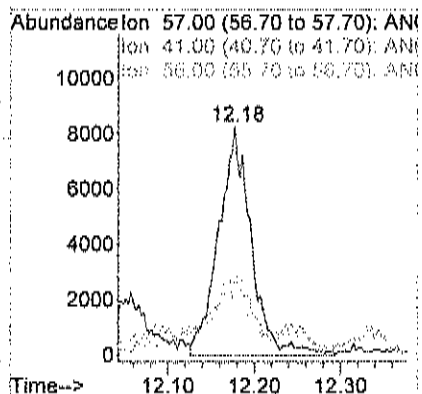
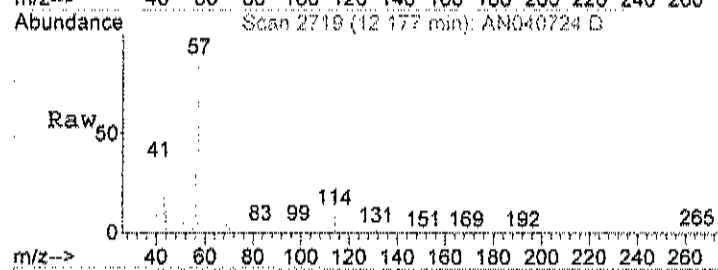
Tgt Ion: 78 Resp: 34864
Ion Ratio Lower Upper
78 100
77 30.1 6.0 46.0
51 23.0 2.1 42.1





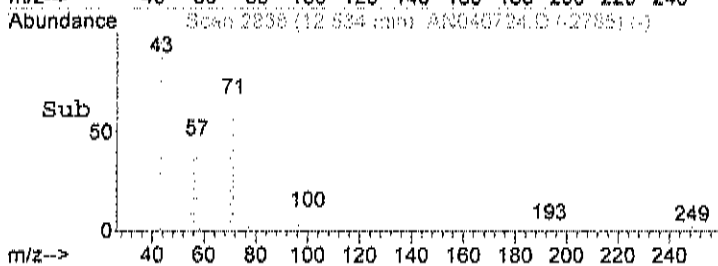
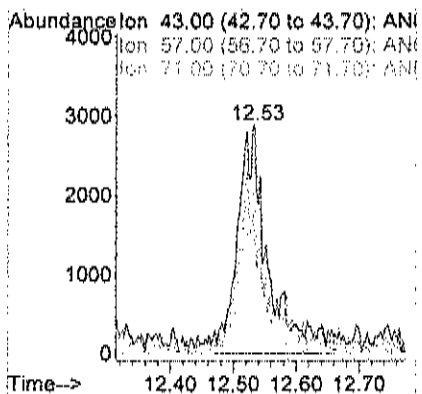
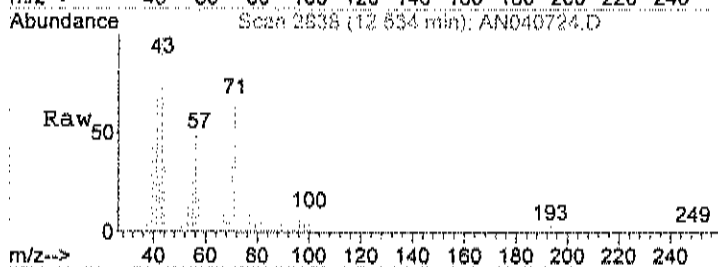
#42
2,2,4-trimethylpentane
Concen: 0.23 ppb
RT: 12.18 min Scan# 2719
Delta R.T. -0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

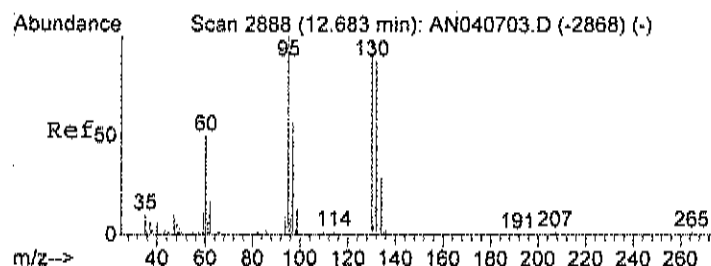
Tgt Ion	57	Resp	21549
Ion	Ratio	Lower	Upper
57	100		
41	64.5	14.1	54.1#
56	56.1	11.4	51.4#



#43
Heptane
Concen: 0.46 ppb
RT: 12.53 min Scan# 2838
Delta R.T. 0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion	43	Resp	10194
Ion	Ratio	Lower	Upper
43	100		
57	67.3	31.3	71.3
71	50.1	34.8	74.8

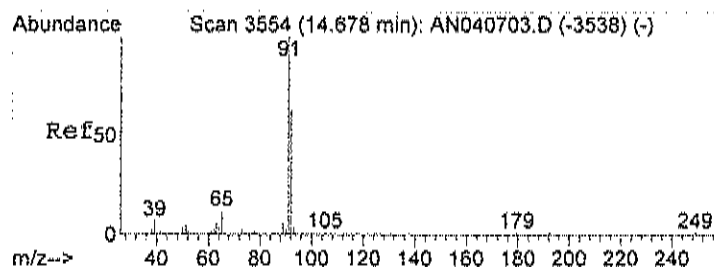
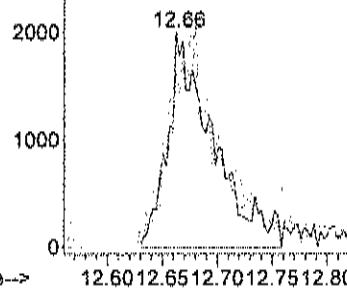




#44
Trichloroethene
Concen: 0.21 ppb
RT: 12.66 min Scan# 2881
Delta R.T. -0.00 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion	Ratio	Lower	Upper
130	100		
132	104.0	76.1	116.1
95	119.9	85.0	125.0

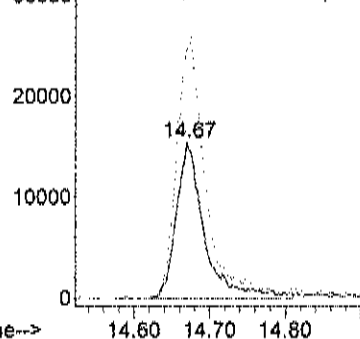
Abundance Ion 130.00 (129.70 to 130.70): ANI
Ion 132.00 (131.70 to 132.70): ANI
Ion 95.00 (94.70 to 95.70): ANI

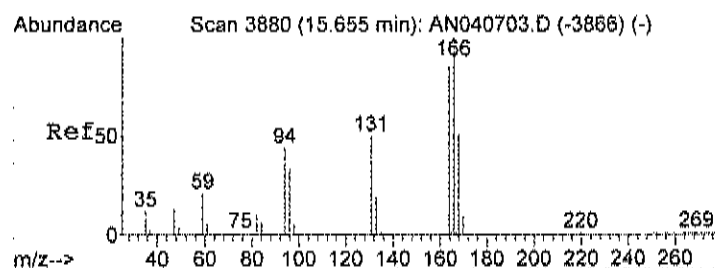


#51
Toluene
Concen: 1.29 ppb
RT: 14.67 min Scan# 3551
Delta R.T. -0.00 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.5	152.5	192.5

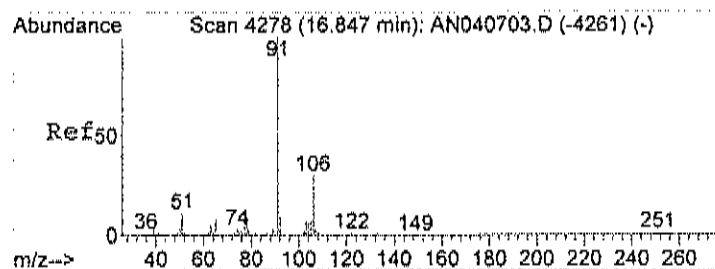
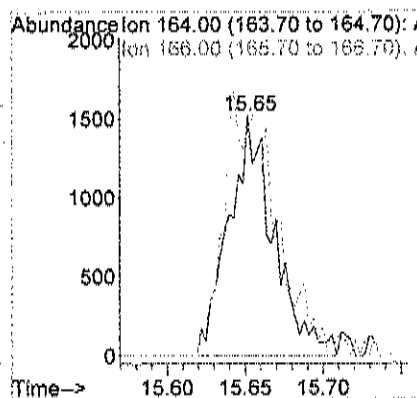
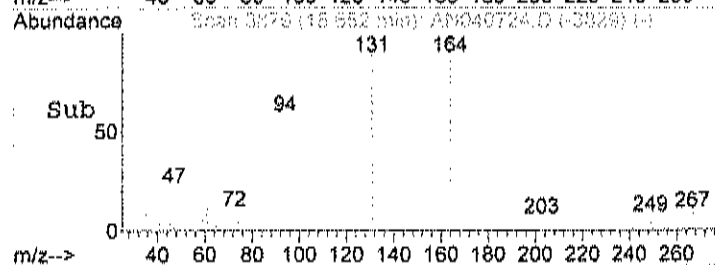
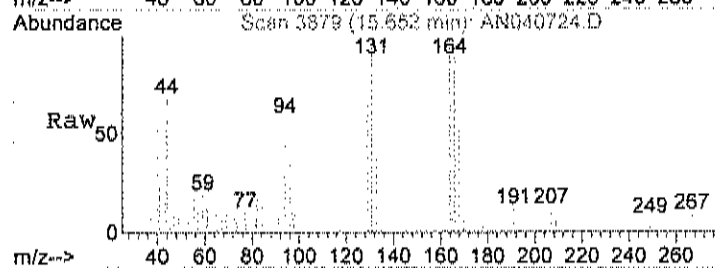
Abundance Ion 92.00 (91.70 to 92.70): ANI
Ion 91.00 (90.70 to 91.70): ANI





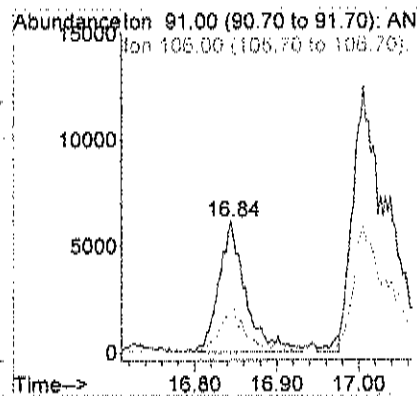
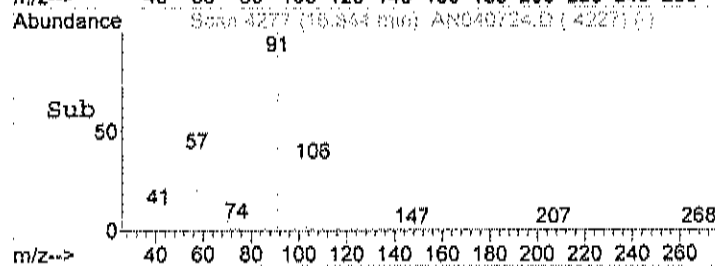
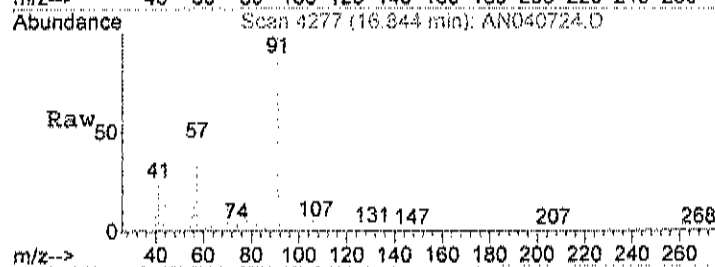
#56
Tetrachloroethylene
Concen: 0.10 ppb
RT: 15.65 min Scan# 3879
Delta R.T. -0.00 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

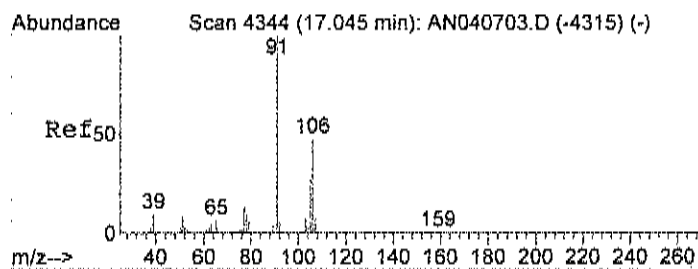
Tgt Ion: 164 Resp: 3037
Ion Ratio Lower Upper
164 100
166 123.6 108.6 148.6



#59
Ethylbenzene
Concen: 0.28 ppb
RT: 16.84 min Scan# 4277
Delta R.T. -0.00 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

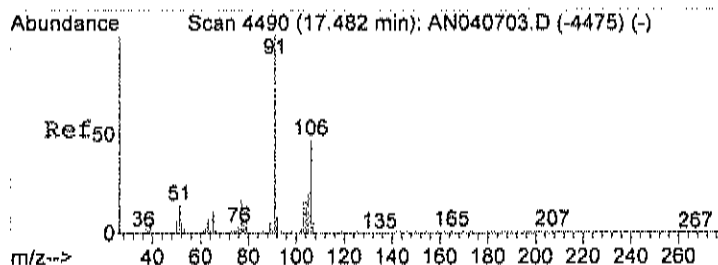
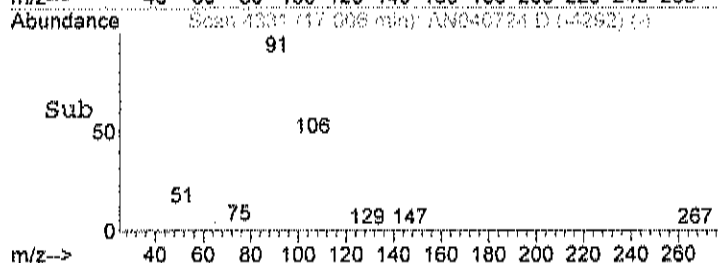
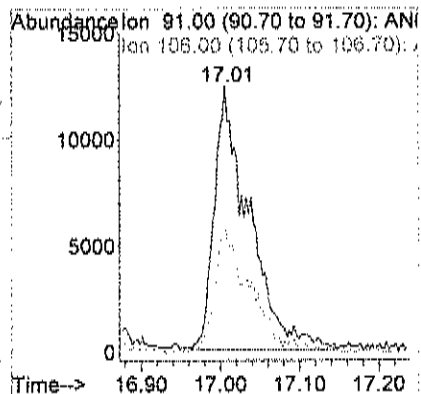
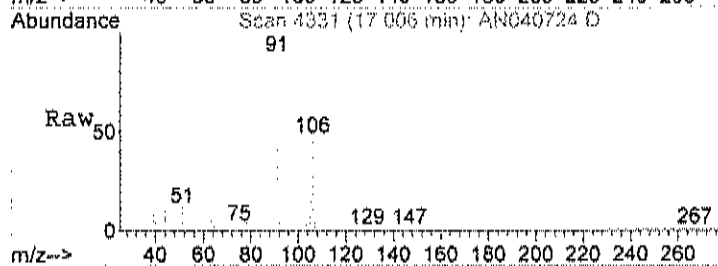
Tgt Ion: 91 Resp: 15030
Ion Ratio Lower Upper
91 100
106 29.7 9.9 49.9





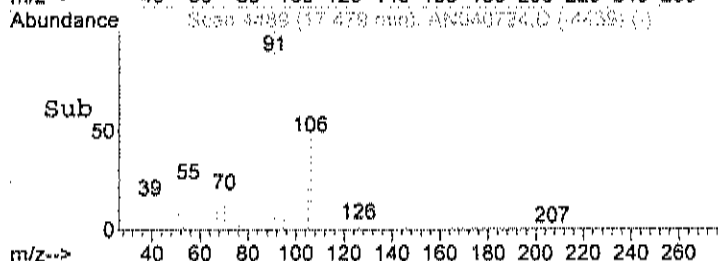
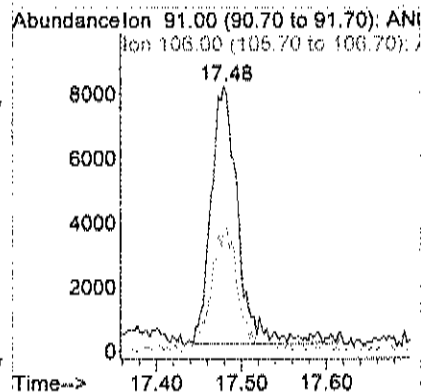
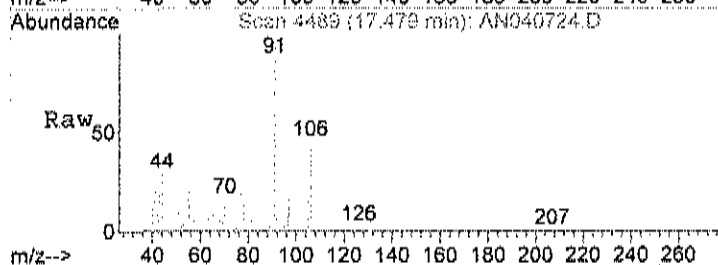
#60
m&p-xylene
Concen: 0.90 ppb
RT: 17.01 min Scan# 4331
Delta R.T. -0.03 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

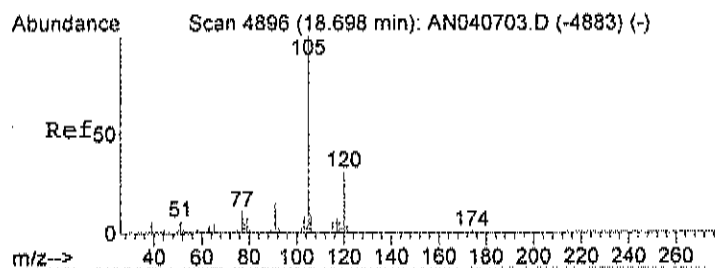
Tgt Ion:	91	Resp:	37809
Ion	Ratio	Lower	Upper
91	100		
106	48.6	25.3	65.3



#64
o-xylene
Concen: 0.35 ppb
RT: 17.48 min Scan# 4489
Delta R.T. -0.00 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

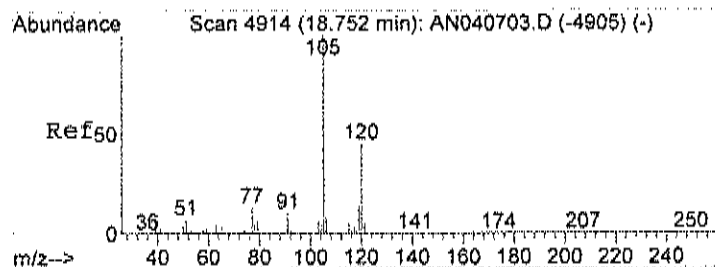
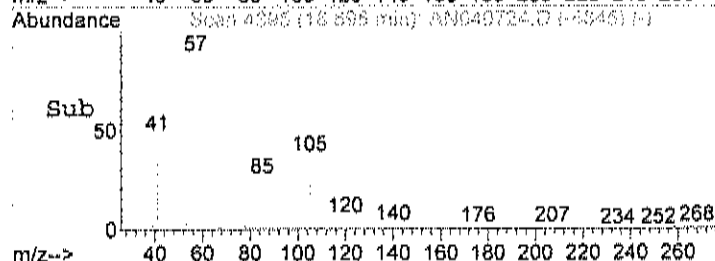
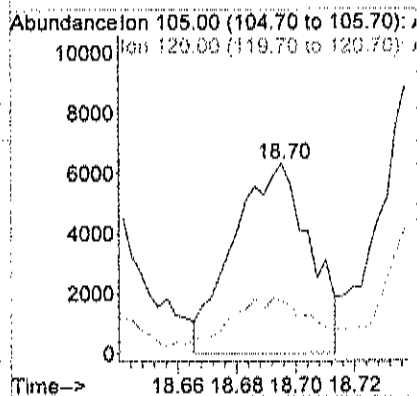
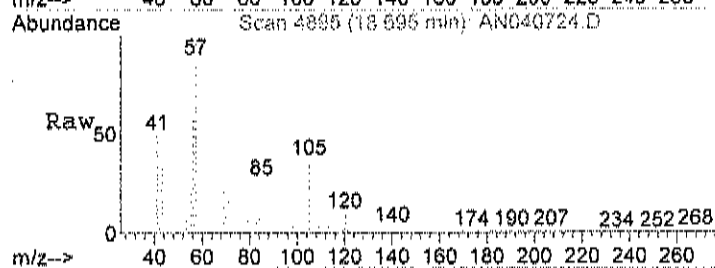
Tgt Ion:	91	Resp:	17810
Ion	Ratio	Lower	Upper
91	100		
106	48.1	18.4	58.4





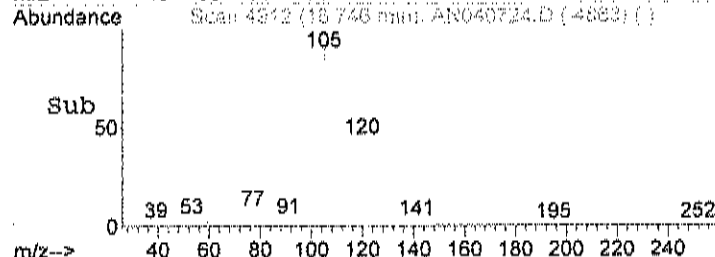
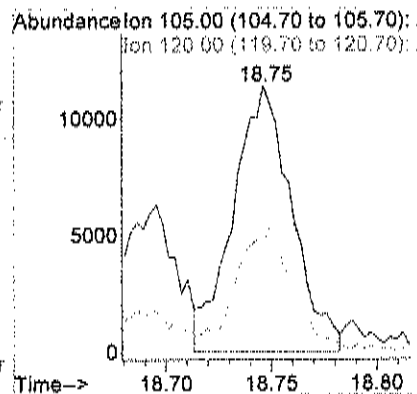
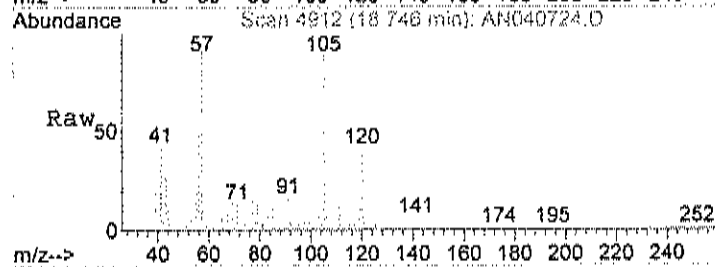
#70
4-ethyltoluene
Concen: 0.21 ppb m
RT: 18.70 min Scan# 4895
Delta R.T. -0.00 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

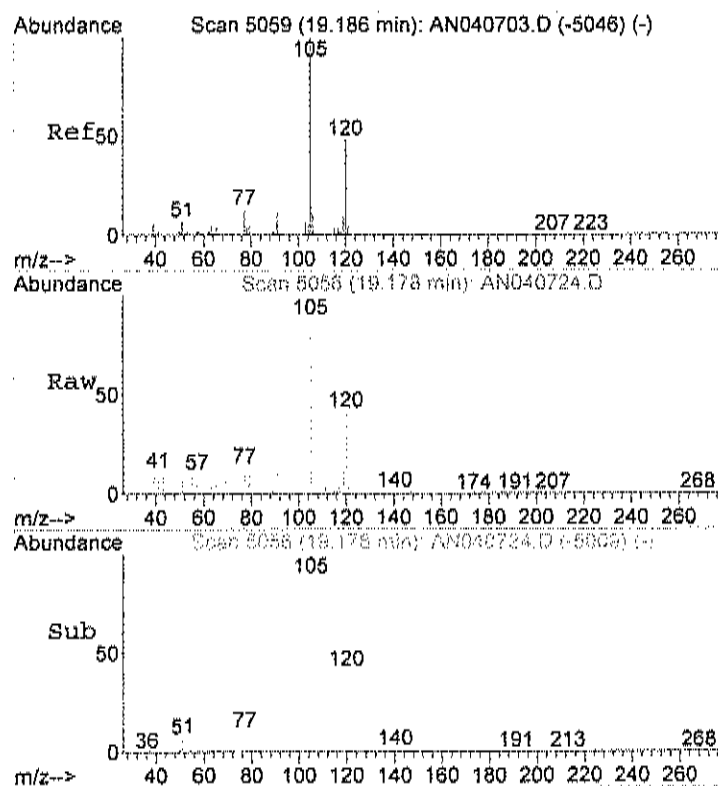
Tgt Ion:105 Resp: 11305
Ion Ratio Lower Upper
105 100
120 0.0 0.0 20.0



#71
1,3,5-trimethylbenzene
Concen: 0.34 ppb m
RT: 18.75 min Scan# 4912
Delta R.T. -0.00 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

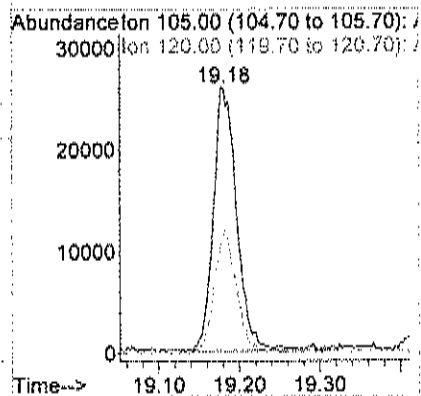
Tgt Ion:105 Resp: 22004
Ion Ratio Lower Upper
105 100
120 0.0 0.0 20.0





#72
1,2,4-trimethylbenzene
Concen: 0.95 ppb
RT: 19.18 min Scan# 5056
Delta R.T. -0.01 min
Lab File: AN040724.D
Acq: 7 Apr 2016 11:42 pm

Tgt Ion	105	Resp	52613
Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.1	62.1



Data File : C:\HPCHEM\1\DATA\AN040813.D

Acq On : 8 Apr 2016 9:30 pm

Sample : C1604014-001A 10X

Misc : A316_1UG

MS Integration Params: RTEINT.P

Quant Time: Apr 11 19:00:13 2016

Vial: 30

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.84	128	26019	1.00	ppb	0.03
35) 1,4-difluorobenzene	12.08	114	59926	1.00	ppb	0.03
50) Chlorobenzene-d5	16.57	117	59512	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.14	95	32478	0.85	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	85.00%

Target Compounds

					Qvalue
15) Acetone	6.07	58	5688	0.51	ppb # 8
33) Tetrahydrofuran	10.19	42	2223	0.10	ppb 79

Quantitation Report (QT Reviewed)

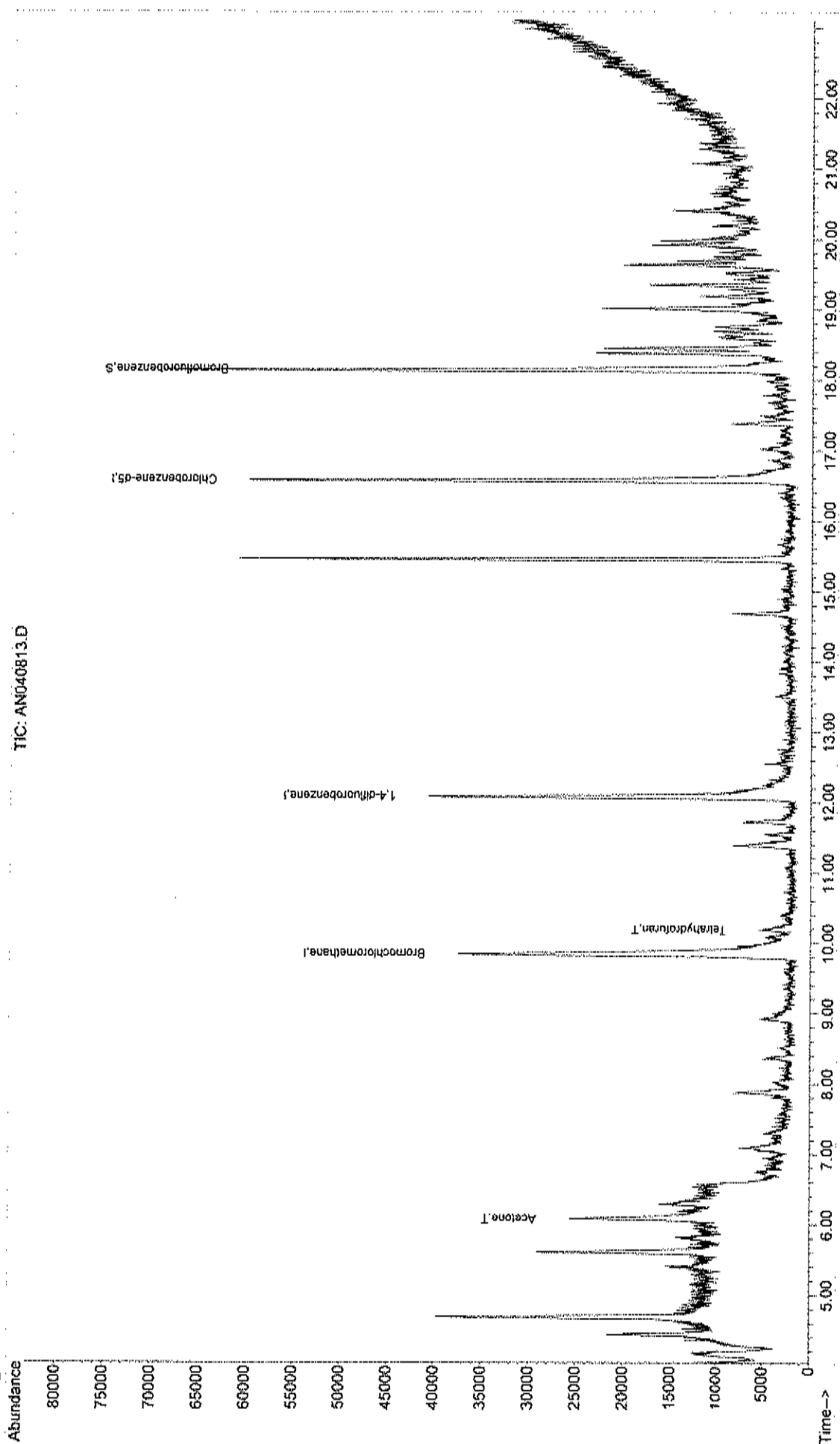
Data File : C:\HPCHEM\1\DATA\AN040813.D
Acq On : 8 Apr 2016 9:30 pm
Sample : C1604014-001A 10X
Misc : A316_1UG
MS Integration Params: RTEINT.P
Quant Time: Apr 11 19:01 2016

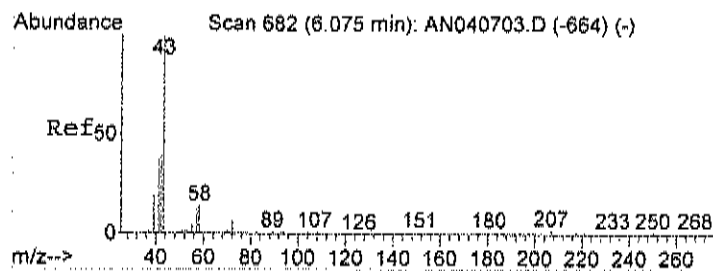
Vial: 30
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316_1UG.RES

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed May 11 08:43:37 2016
Response via : Initial Calibration

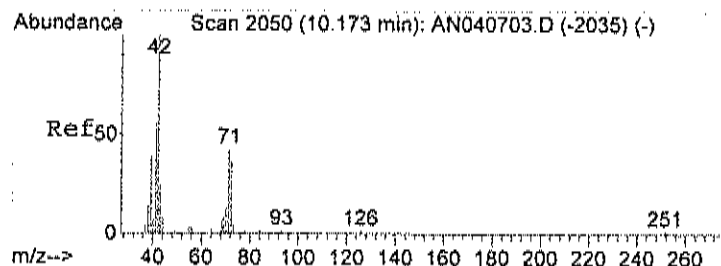
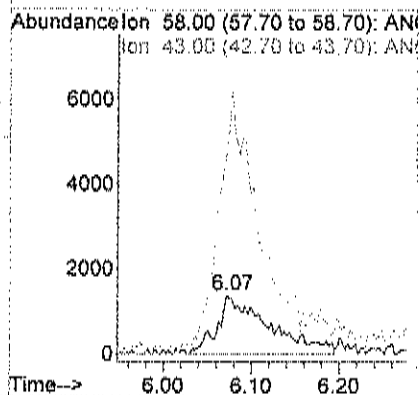
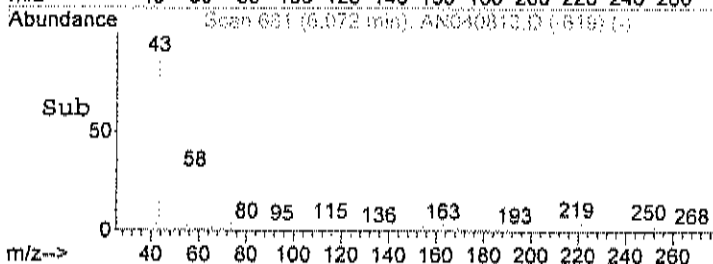
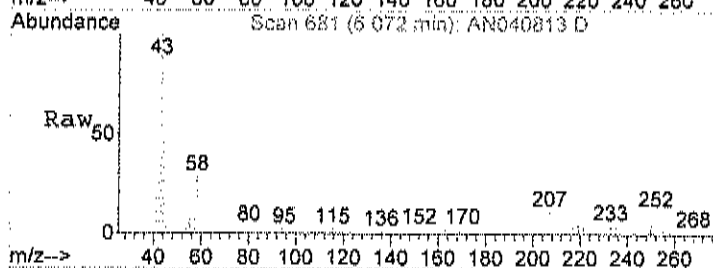
Abundance





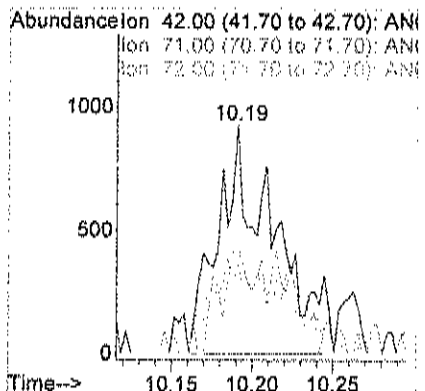
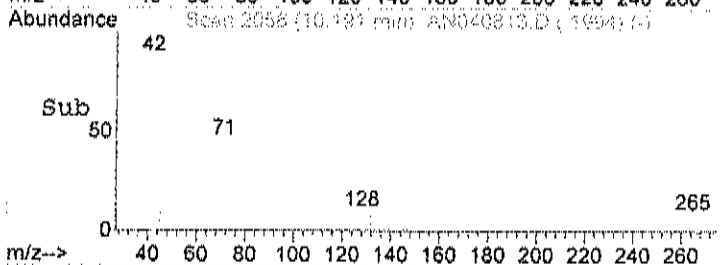
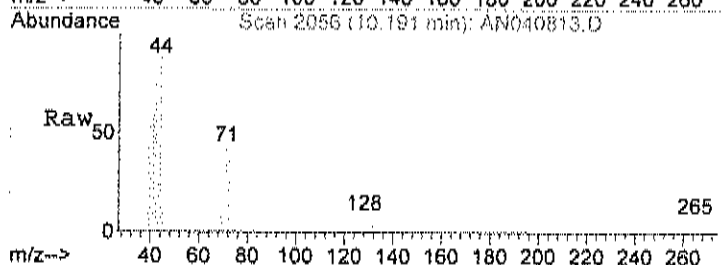
#15
Acetone
Concen: 0.51 ppb
RT: 6.07 min Scan# 681
Delta R.T. 0.04 min
Lab File: AN040813.D
Acq: 8 Apr 2016 9:30 pm

Tgt Ion: 58 Resp: 5688
Ion Ratio Lower Upper
58 100
43 376.0 661.8 721.8#



#33
Tetrahydrofuran
Concen: 0.10 ppb
RT: 10.19 min Scan# 2056
Delta R.T. 0.04 min
Lab File: AN040813.D
Acq: 8 Apr 2016 9:30 pm

Tgt Ion: 42 Resp: 2223
Ion Ratio Lower Upper
42 100
71 50.9 20.0 60.0
72 53.7 19.1 59.1



Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-002A

Client Sample ID: EX-01
 Tag Number: 171 259
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-5			"Hg		4/5/2016
Lab Vacuum Out	-30			"Hg		4/5/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	4/8/2016 12:21:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Acetone	4.1	3.0		ppbV	10	4/8/2016 10:07:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Benzene	0.18	0.15		ppbV	1	4/8/2016 12:21:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Bromoform	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Carbon tetrachloride	0.15	0.040		ppbV	1	4/8/2016 12:21:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Chloroform	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Chloromethane	0.76	0.15		ppbV	1	4/8/2016 12:21:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Cyclohexane	0.16	0.15		ppbV	1	4/8/2016 12:21:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Ethyl acetate	0.13	0.25	J	ppbV	1	4/8/2016 12:21:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-002A

Client Sample ID: EX-01
 Tag Number: 171 259
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Freon 11	0.37	0.15		ppbV	1	4/8/2016 12:21:00 AM
Freon 113	0.13	0.15	J	ppbV	1	4/8/2016 12:21:00 AM
Freon 114	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Freon 12	0.79	0.15		ppbV	1	4/8/2016 12:21:00 AM
Heptane	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Hexane	0.18	0.15		ppbV	1	4/8/2016 12:21:00 AM
Isopropyl alcohol	0.65	0.15		ppbV	1	4/8/2016 12:21:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	4/8/2016 12:21:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	4/8/2016 12:21:00 AM
Methyl Ethyl Ketone	0.32	0.30		ppbV	1	4/8/2016 12:21:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	4/8/2016 12:21:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Methylene chloride	0.37	0.15		ppbV	1	4/8/2016 12:21:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Propylene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Styrene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Tetrahydrofuran	0.11	0.15	J	ppbV	1	4/8/2016 12:21:00 AM
Toluene	0.21	0.15		ppbV	1	4/8/2016 12:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Trichloroethene	0.070	0.040		ppbV	1	4/8/2016 12:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	4/8/2016 12:21:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	4/8/2016 12:21:00 AM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	4/8/2016 12:21:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-002A

Client Sample ID: EX-01
 Tag Number: 171 259
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/8/2016 12:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/8/2016 12:21:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/8/2016 12:21:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/8/2016 12:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/8/2016 12:21:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/8/2016 12:21:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/8/2016 12:21:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/8/2016 12:21:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/8/2016 12:21:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/8/2016 12:21:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/8/2016 12:21:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/8/2016 12:21:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/8/2016 12:21:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/8/2016 12:21:00 AM
Acetone	9.7	7.1		ug/m3	10	4/8/2016 10:07:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/8/2016 12:21:00 AM
Benzene	0.57	0.48		ug/m3	1	4/8/2016 12:21:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/8/2016 12:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	4/8/2016 12:21:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	4/8/2016 12:21:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/8/2016 12:21:00 AM
Carbon tetrachloride	0.94	0.25		ug/m3	1	4/8/2016 12:21:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/8/2016 12:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	4/8/2016 12:21:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	4/8/2016 12:21:00 AM
Chloromethane	1.6	0.31		ug/m3	1	4/8/2016 12:21:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/8/2016 12:21:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/8/2016 12:21:00 AM
Cyclohexane	0.55	0.52		ug/m3	1	4/8/2016 12:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/8/2016 12:21:00 AM
Ethyl acetate	0.47	0.90	J	ug/m3	1	4/8/2016 12:21:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/8/2016 12:21:00 AM
Freon 11	2.1	0.84		ug/m3	1	4/8/2016 12:21:00 AM
Freon 113	1.0	1.1	J	ug/m3	1	4/8/2016 12:21:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 11-May-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1604014
 Project: 690 St Paul
 Lab ID: C1604014-002A

Client Sample ID: EX-01
 Tag Number: 171 259
 Collection Date: 4/4/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	3.9	0.74		ug/m3	1	4/8/2016 12:21:00 AM
Heptane	< 0.61	0.61		ug/m3	1	4/8/2016 12:21:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/8/2016 12:21:00 AM
Hexane	0.63	0.53		ug/m3	1	4/8/2016 12:21:00 AM
Isopropyl alcohol	1.6	0.37		ug/m3	1	4/8/2016 12:21:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	4/8/2016 12:21:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	4/8/2016 12:21:00 AM
Methyl Ethyl Ketone	0.94	0.88		ug/m3	1	4/8/2016 12:21:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/8/2016 12:21:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/8/2016 12:21:00 AM
Methylene chloride	1.3	0.52		ug/m3	1	4/8/2016 12:21:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	4/8/2016 12:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	4/8/2016 12:21:00 AM
Styrene	< 0.64	0.64		ug/m3	1	4/8/2016 12:21:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/8/2016 12:21:00 AM
Tetrahydrofuran	0.32	0.44	J	ug/m3	1	4/8/2016 12:21:00 AM
Toluene	0.79	0.57		ug/m3	1	4/8/2016 12:21:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/8/2016 12:21:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/8/2016 12:21:00 AM
Trichloroethene	0.38	0.21		ug/m3	1	4/8/2016 12:21:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/8/2016 12:21:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/8/2016 12:21:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	4/8/2016 12:21:00 AM

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Data File : C:\HPCHEM\1\DATA\AN040725.D

Vial: 59

Acq On : 8 Apr 2016 12:21 am

Operator: RJP

Sample : C1604014-002A

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 08 16:55:49 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	22047	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.07	114	55294	1.00	ppb	0.01
50) Chlorobenzene-d5	16.56	117	49453	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.14	95	30122	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	4.19	85	74725	0.79	ppb	100
4) Chloromethane	4.38	50	18694	0.76	ppb	84
14) Freon 11	5.80	101	35613	0.37	ppb	95
15) Acetone	6.05	58	50584	5.31	ppb	# 1
17) Isopropyl alcohol	6.16	45	20216	0.65	ppb	# 46
19) Freon 113	6.75	101	9094	0.13	ppb	93
21) Methylene chloride	7.08	84	9161	0.37	ppb	93
28) Methyl Ethyl Ketone	8.98	72	3279	0.32	ppb	# 100
30) Hexane	8.92	57	5277	0.18	ppb	84
31) Ethyl acetate	9.57	43	5311	0.13	ppb	73
33) Tetrahydrofuran	10.18	42	1981	0.11	ppb	99
37) Cyclohexane	11.43	56	3333	0.16	ppb	# 23
38) Carbon tetrachloride	11.39	117	8831	0.15	ppb	99
39) Benzene	11.37	78	8403	0.18	ppb	96
44) Trichloroethene	12.68	130	1656	0.07	ppb	# 82
51) Toluene	14.69	92	7183	0.21	ppb	97

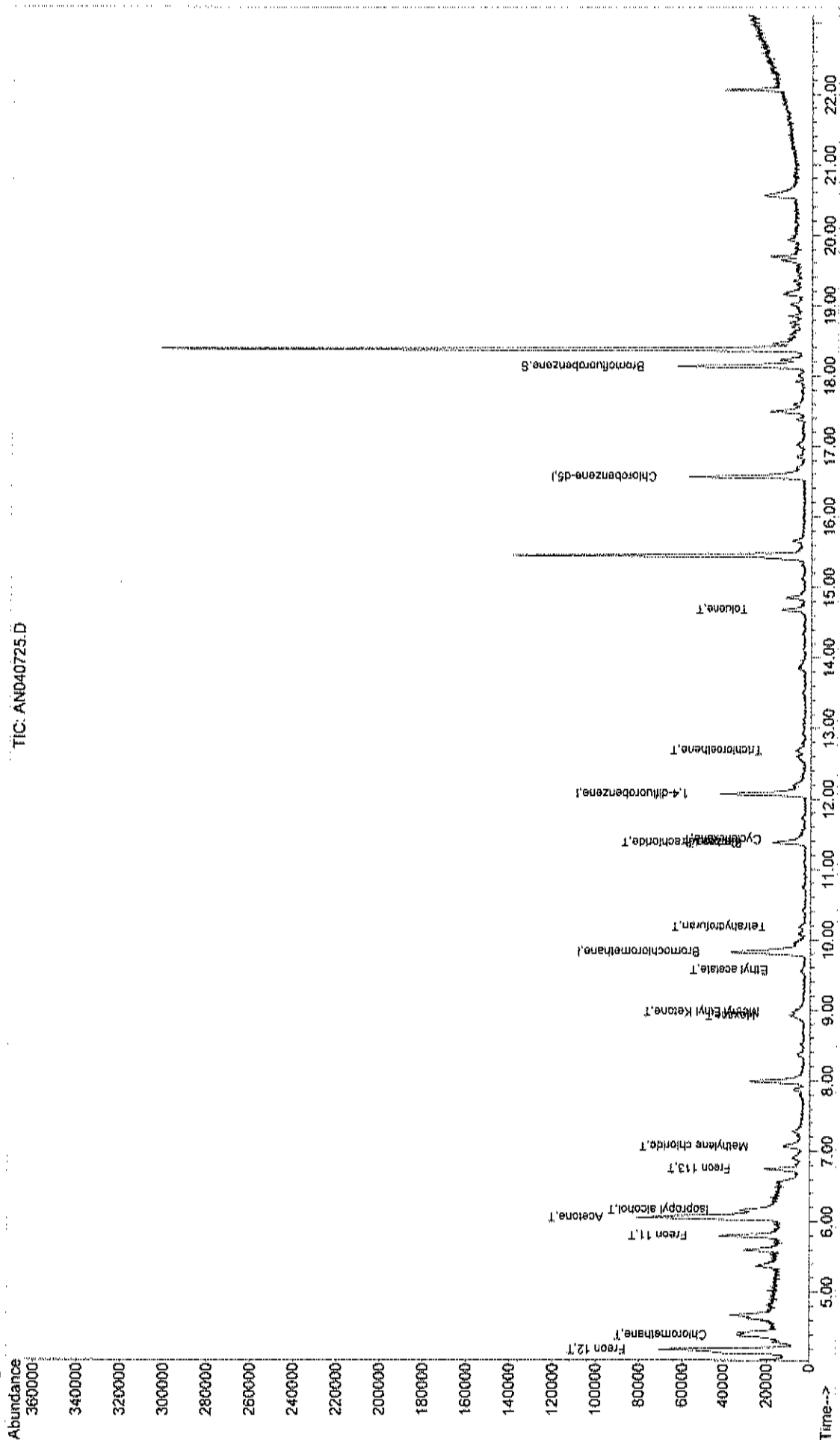
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN040725.D
Acq On : 8 Apr 2016 12:21 am
Sample : C1604014-002A
Misc : A316_1UG
MS Integration Params: RTEINT.P
Quant Time: Apr 11 18:19 2016

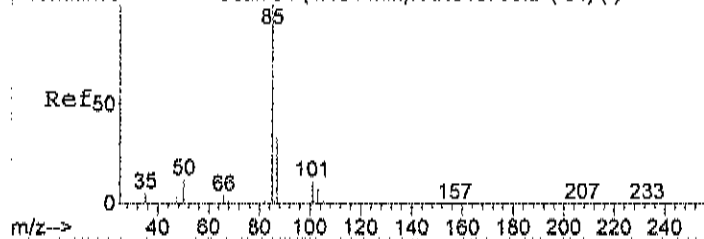
Vial: 59
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316_1UG.RES

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed May 11 08:43:37 2016
Response via : Initial Calibration



Abundance Scan 54 (4.194 min): AN040703.D (-34) (-)



#3

Freon 12

Concen: 0.79 ppb

RT: 4.19 min Scan# 53

Delta R.T. 0.00 min

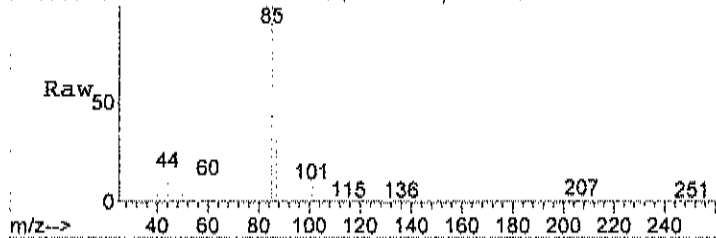
Lab File: AN040725.D

Acq: 8 Apr 2016 12:21 am

Tgt Ion: 85 Resp: 74725

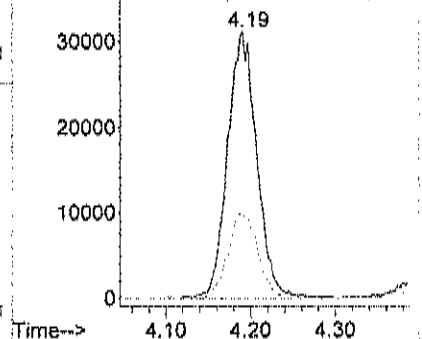
Ion	Ratio	Lower	Upper
85	100		
87	32.7	12.5	52.5

Abundance Scan 53 (4.191 min): AN040725.D

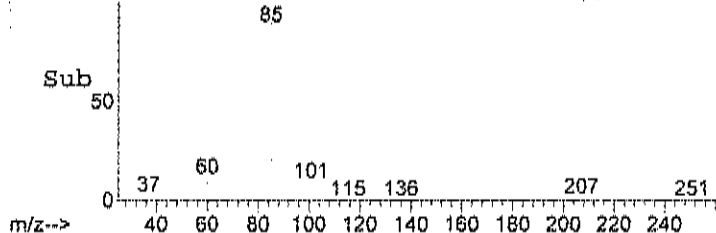


Abundance Ion 85.00 (84.70 to 85.70): ANI

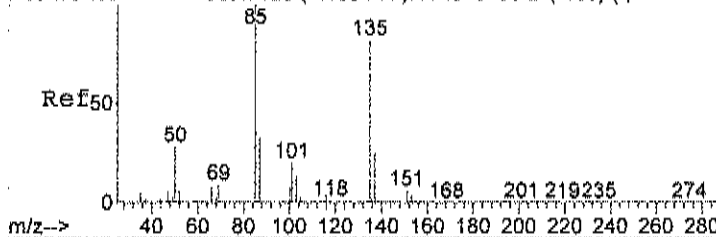
Ion 87.00 (86.70 to 87.70): ANI



Abundance Scan 53 (4.191 min): AN040725.D (-2) (-)



Abundance Scan 123 (4.400 min): AN040703.D (-105) (-)



#4

Chloromethane

Concen: 0.76 ppb

RT: 4.38 min Scan# 117

Delta R.T. -0.01 min

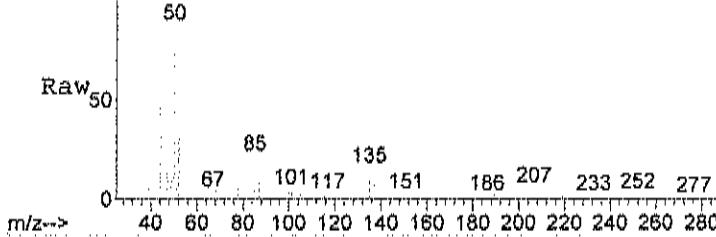
Lab File: AN040725.D

Acq: 8 Apr 2016 12:21 am

Tgt Ion: 50 Resp: 18694

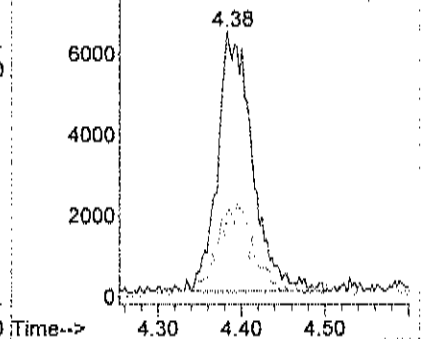
Ion	Ratio	Lower	Upper
50	100		
52	38.0	9.2	49.2

Abundance Scan 117 (4.383 min): AN040725.D

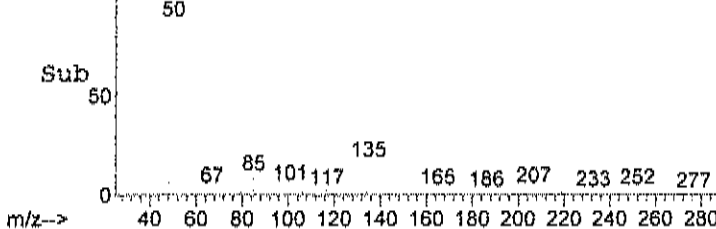


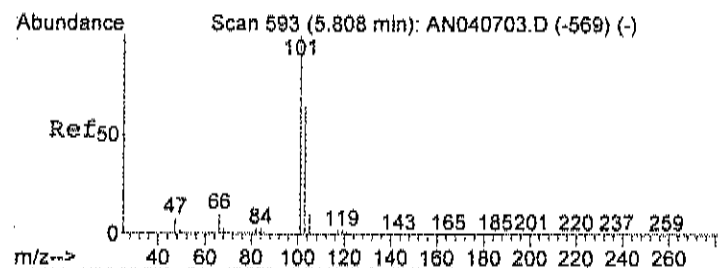
Abundance Ion 50.00 (49.70 to 50.70): ANI

Ion 52.00 (51.70 to 52.70): ANI



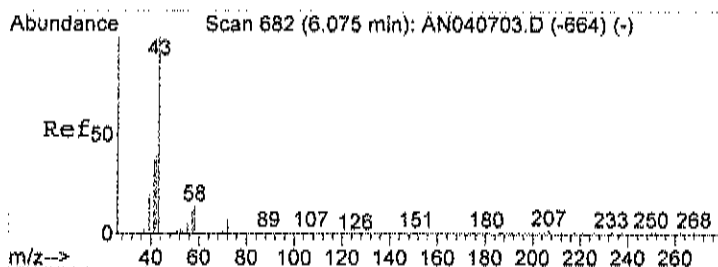
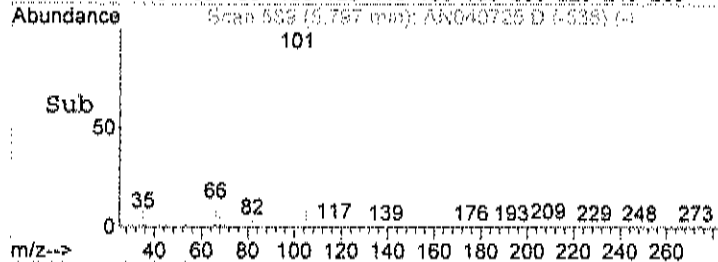
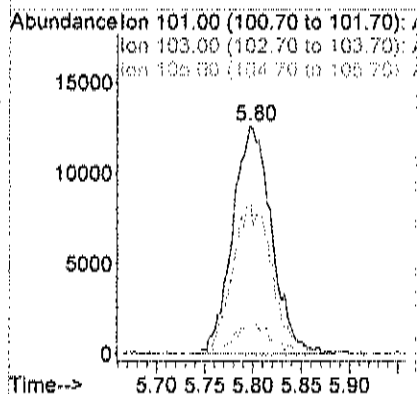
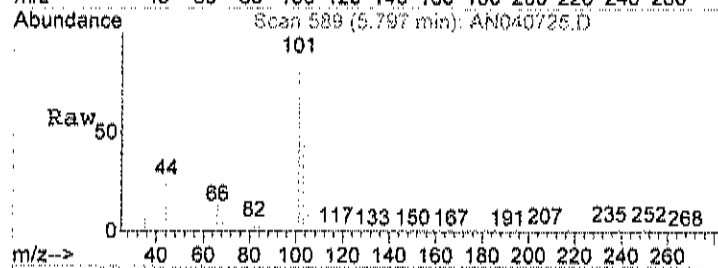
Abundance Scan 117 (4.383 min): AN040725.D (-69) (-)





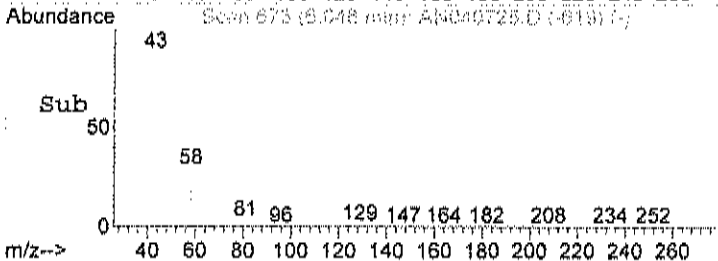
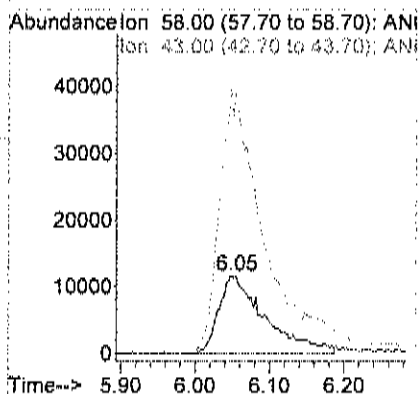
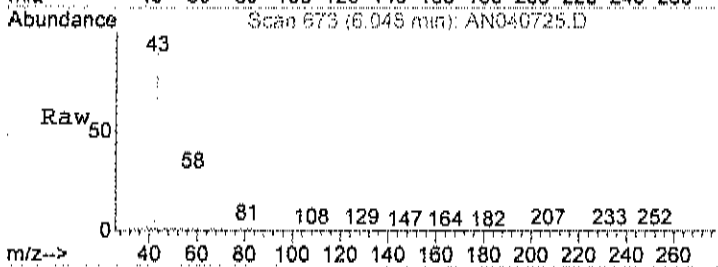
#14
Freon 11
Concen: 0.37 ppb
RT: 5.80 min Scan# 589
Delta R.T. 0.00 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

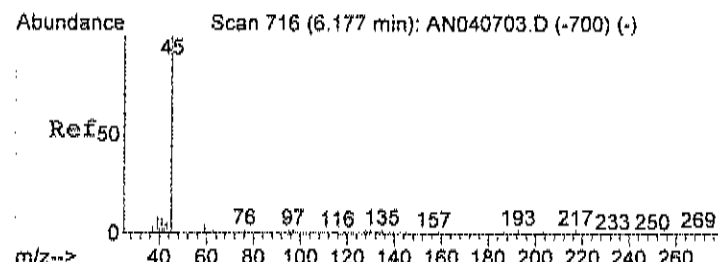
Tgt Ion	Ratio	Lower	Upper
101	100		
103	68.5	44.6	84.6
105	13.3	0.0	31.6



#15
Acetone
Concen: 5.31 ppb
RT: 6.05 min Scan# 673
Delta R.T. 0.01 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

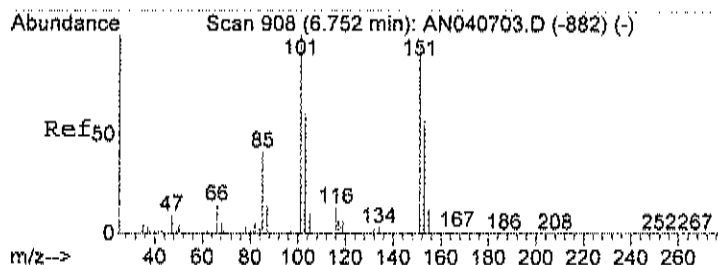
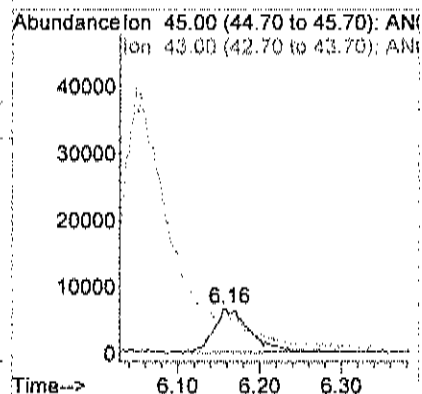
Tgt Ion	Ratio	Lower	Upper
58	100		
43	324.1	661.8	721.8#





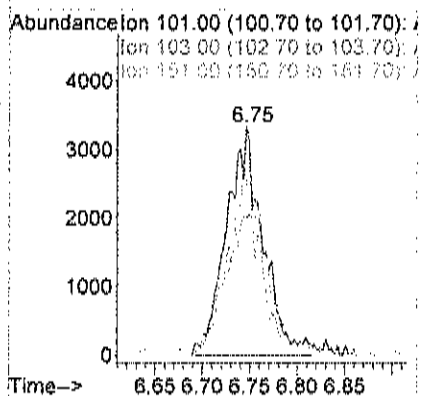
#17
Isopropyl alcohol
Concen: 0.65 ppb
RT: 6.16 min Scan# 709
Delta R.T. 0.01 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

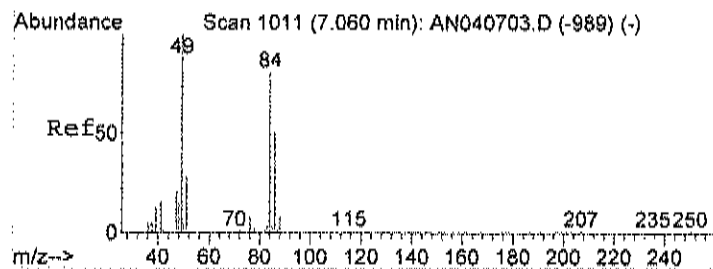
Tgt Ion: 45 Resp: 20216
Ion Ratio Lower Upper
45 100
43 0.0 8.9 48.9#



#19
Freon 113
Concen: 0.13 ppb
RT: 6.75 min Scan# 906
Delta R.T. 0.01 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

Tgt Ion: 101 Resp: 9094
Ion Ratio Lower Upper
101 100
103 66.6 42.5 82.5
151 83.6 70.9 110.9

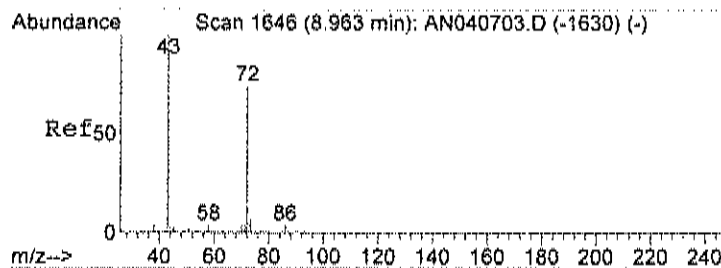
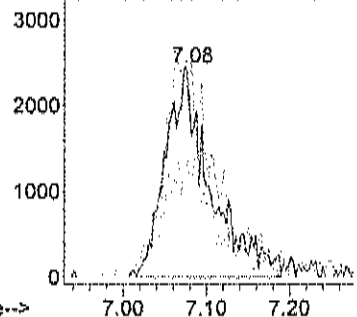




#21
Methylene chloride
Concen: 0.37 ppb
RT: 7.08 min Scan# 1016
Delta R.T. 0.04 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

Tgt Ion:	84	Resp:	9161
Ion	Ratio	Lower	Upper
84	100		
49	117.2	87.8	127.8
86	64.8	43.1	83.1

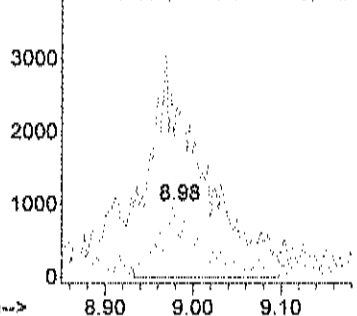
Abundance Ion 84.00 (83.70 to 84.70): ANI
Ion 49.00 (48.70 to 49.70): ANI
Ion 86.00 (85.70 to 86.70): ANI

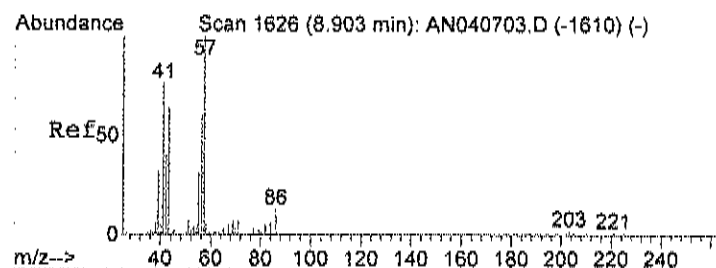


#28
Methyl Ethyl Ketone
Concen: 0.32 ppb
RT: 8.98 min Scan# 1651
Delta R.T. 0.03 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

Tgt Ion:	72	Resp:	3279
Ion	Ratio	Lower	Upper
72	100		
43	395.5	0.0	20.0#
72	100.0	80.0	120.0

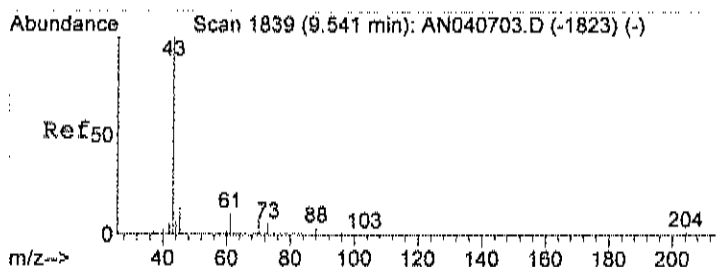
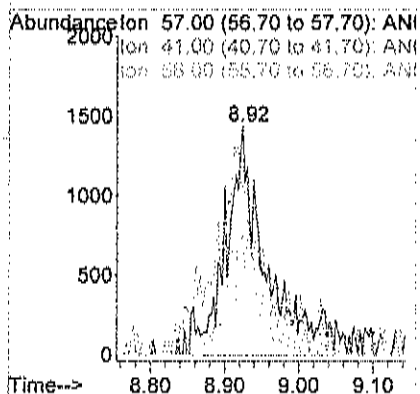
Abundance Ion 72.00 (71.70 to 72.70): ANI
Ion 43.00 (42.70 to 43.70): ANI
Ion 77.00 (76.70 to 77.70): ANI





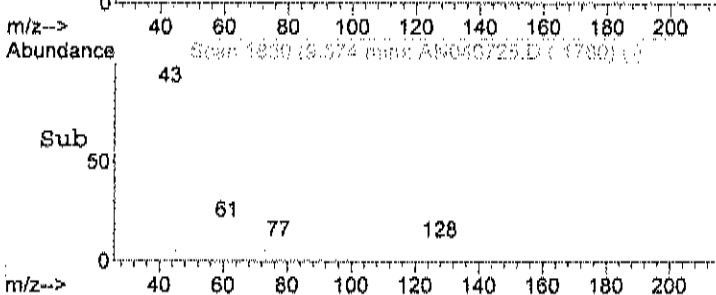
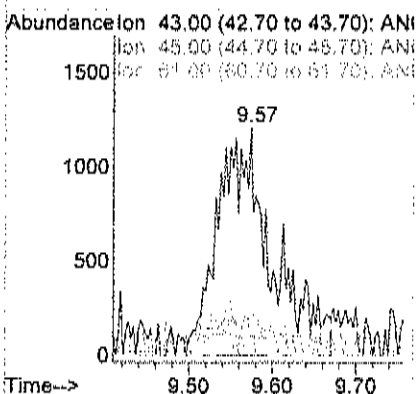
#30
Hexane
Concen: 0.18 ppb
RT: 8.92 min Scan# 1633
Delta R.T. 0.04 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

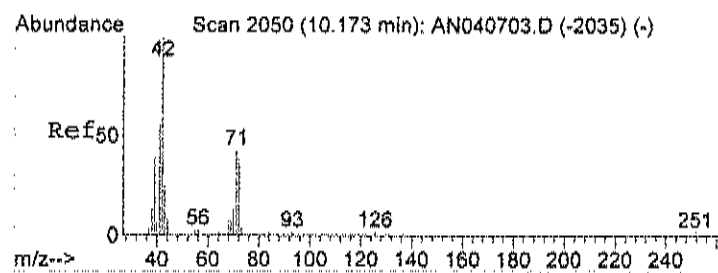
Tgt Ion	57	Resp	5277
Ion	Ratio	Lower	Upper
57	100		
41	104.1	66.6	106.6
56	42.7	30.6	70.6



#31
Ethyl acetate
Concen: 0.13 ppb
RT: 9.57 min Scan# 1850
Delta R.T. 0.06 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

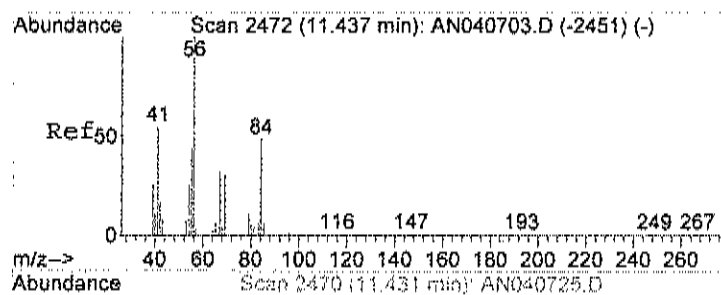
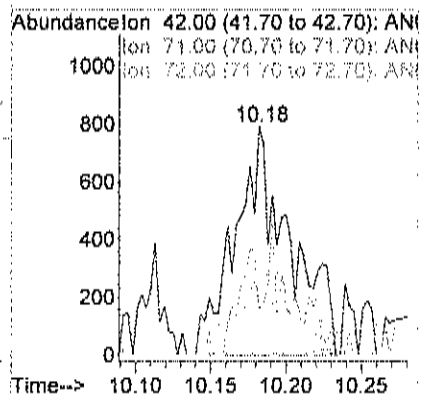
Tgt Ion	43	Resp	5311
Ion	Ratio	Lower	Upper
43	100		
45	3.1	0.0	33.8
61	2.2	0.0	33.3





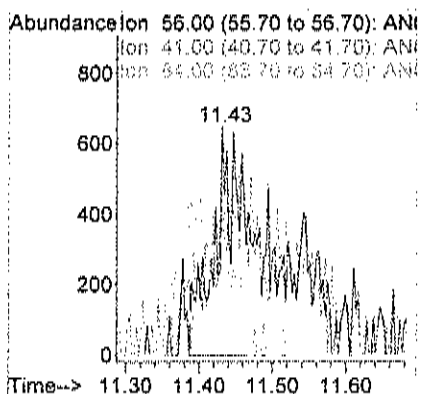
#33
Tetrahydrofuran
Concen: 0.11 ppb
RT: 10.18 min Scan# 2053
Delta R.T. 0.03 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

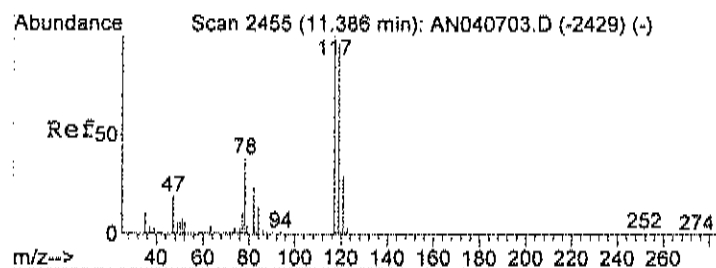
Tgt Ion	Ratio	Lower	Upper
42	100		
71	41.2	20.0	60.0
72	38.9	19.1	59.1



#37
Cyclohexane
Concen: 0.16 ppb
RT: 11.43 min Scan# 2470
Delta R.T. -0.01 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

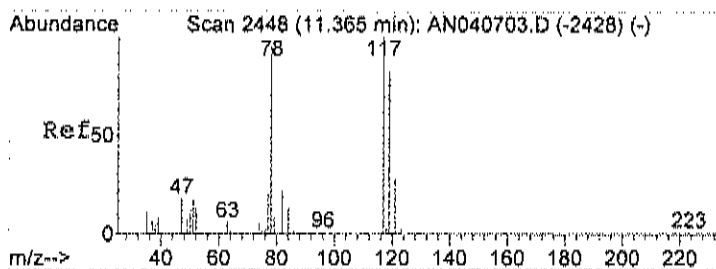
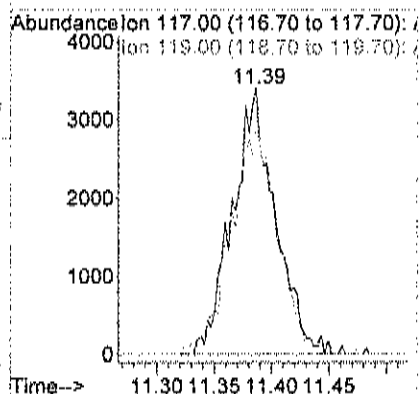
Tgt Ion	Ratio	Lower	Upper
56	100		
41	94.6	47.3	87.3#
84	0.0	88.1	128.1#





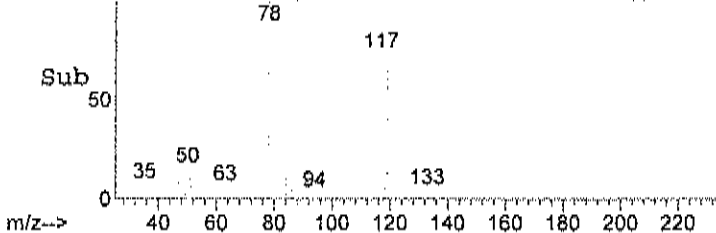
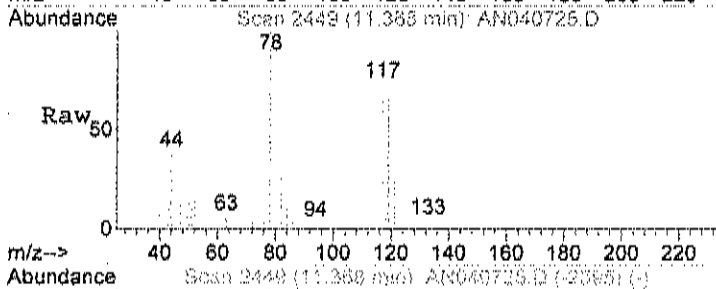
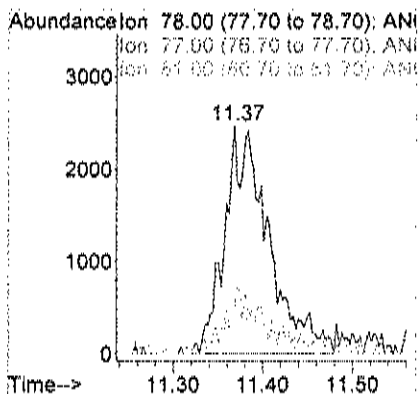
#38
Carbon tetrachloride
Concen: 0.15 ppb
RT: 11.39 min Scan# 2455
Delta R.T. -0.00 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

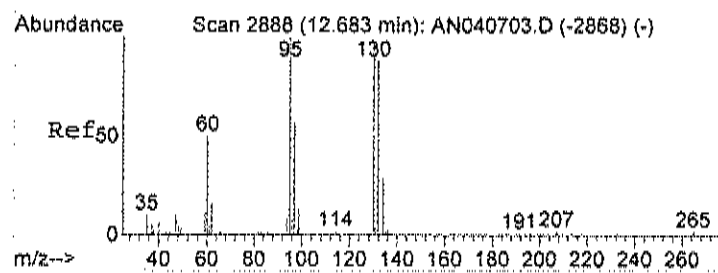
Tgt Ion: 117 Resp: 8831
Ion Ratio Lower Upper
117 100
119 93.3 74.5 114.5



#39
Benzene
Concen: 0.18 ppb
RT: 11.37 min Scan# 2449
Delta R.T. 0.01 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

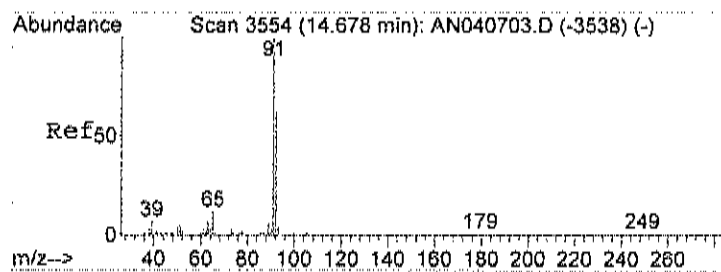
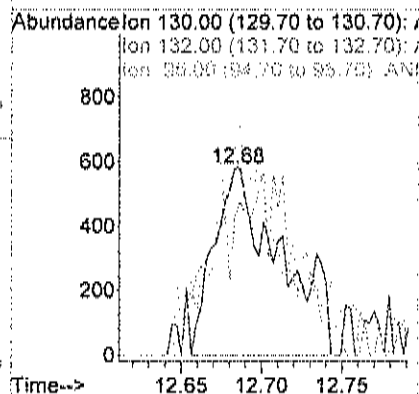
Tgt Ion: 78 Resp: 8403
Ion Ratio Lower Upper
78 100
77 25.0 6.0 46.0
51 18.7 2.1 42.1





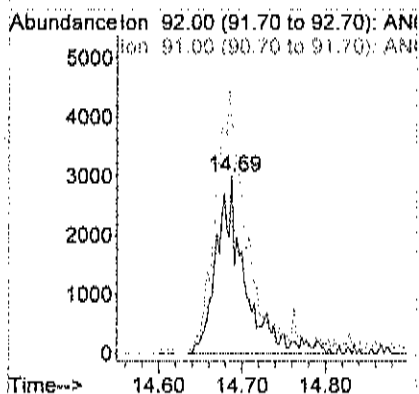
#44
Trichloroethene
Concen: 0.07 ppb
RT: 12.68 min Scan# 2888
Delta R.T. 0.02 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

Tgt Ion	Resp	Lower	Upper
130	1656		
130	100		
132	108.2	76.1	116.1
95	128.0	85.0	125.0#



#51
Toluene
Concen: 0.21 ppb
RT: 14.69 min Scan# 3557
Delta R.T. 0.01 min
Lab File: AN040725.D
Acq: 8 Apr 2016 12:21 am

Tgt Ion	Resp	Lower	Upper
92	7183		
92	100		
91	167.9	152.5	192.5



Data File : C:\HPCHEM\1\DATA\AN040814.D

Vial: 31

Acq On : 8 Apr 2016 10:07 pm

Operator: RJP

Sample : C1604014-002A 10X

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 11 19:04:06 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.86	128	24898	1.00	ppb	0.05
35) 1,4-difluorobenzene	12.08	114	62076	1.00	ppb	0.03
50) Chlorobenzene-d5	16.57	117	59832	1.00	ppb	0.01

System Monitoring Compounds

66) Bromofluorobenzene	18.14	95	31926	0.83	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	83.00%

Target Compounds

15) Acetone	6.10	58	4420	0.41	ppb	Qvalue # 1
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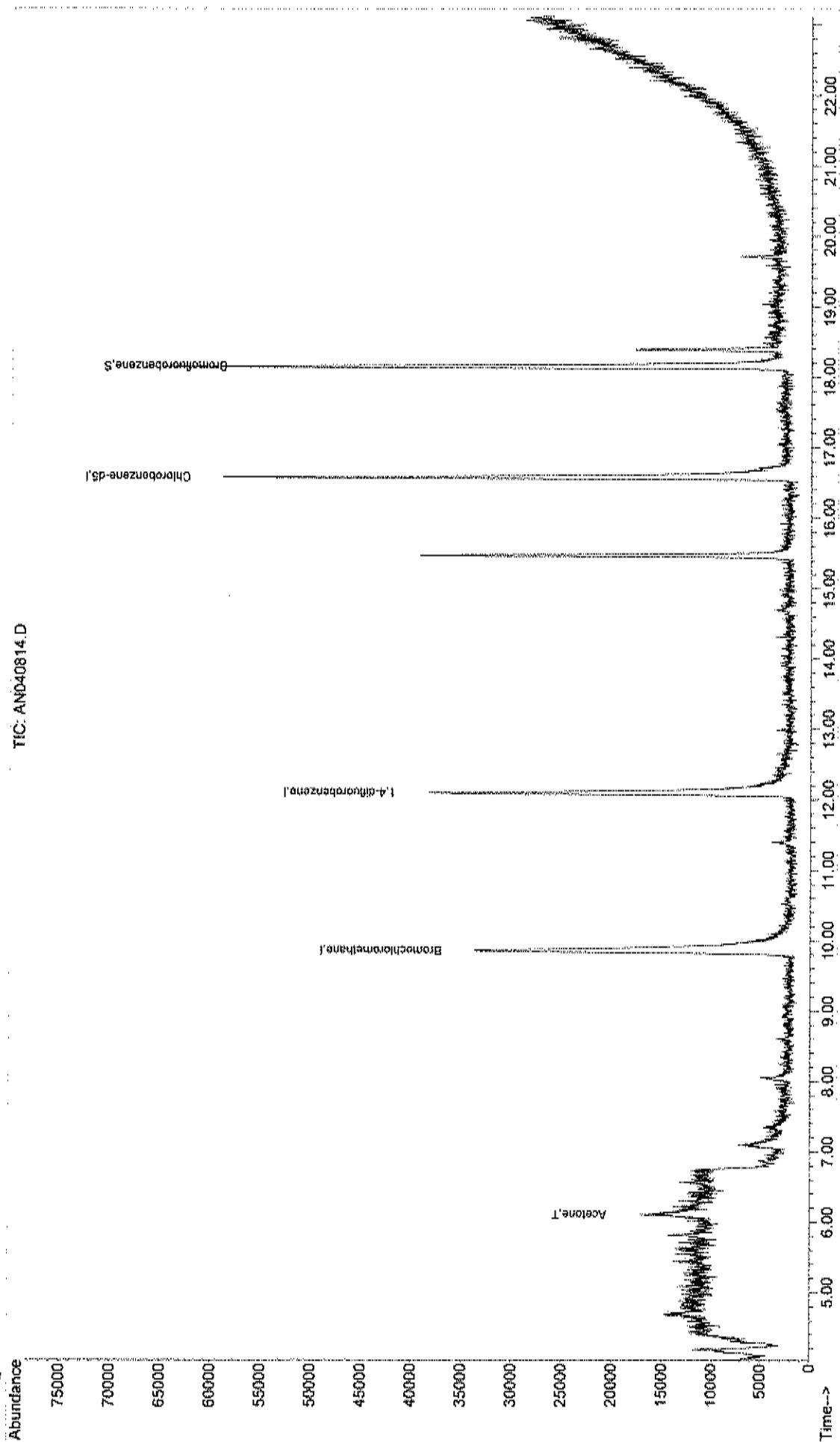
Quantitation Report (QT Reviewed)

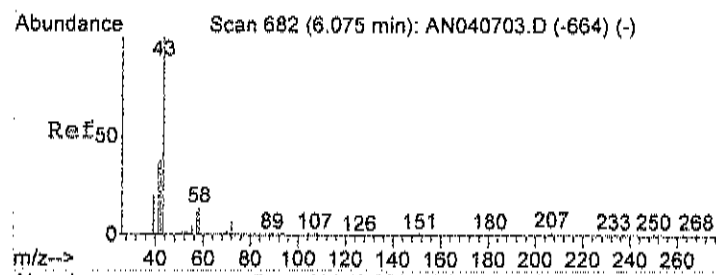
Data File : C:\HPCHEM\1\DATA\AN040814.D
Acq On : 8 Apr 2016 10:07 pm
Sample : C1604014-002A 10X
Misc : A316 1UG
MS Integration Params: RTEINT.P
Quant Time: Apr 11 19:04 2016

Vial: 31
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316_1UG.RES

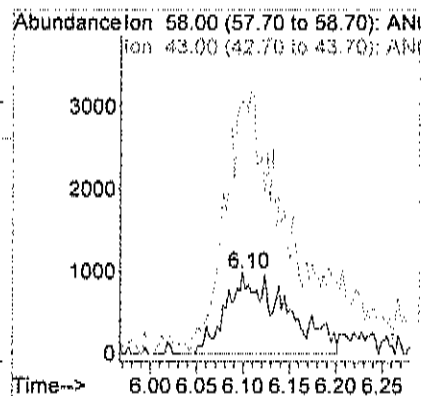
Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed May 11 08:43:37 2016
Response via : Initial Calibration





#15
Acetone
Concen: 0.41 ppb
RT: 6.10 min Scan# 690
Delta R.T. 0.06 min
Lab File: AN040814.D
Acq: 8 Apr 2016 10:07 pm

Tgt Ion: 58 Resp: 4420
Ion Ratio Lower Upper
58 100
43 331.4 661.8 721.8#



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 10:24:27 2016
 Response via : Initial Calibration

Calibration Files

0.04 =AN031612.D 0.10 =AN031611.D 0.15 =AN031610.D
 0.30 =AN031609.D 0.50 =AN031608.D 0.75 =AN031607.D

Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
1) I Bromochloromethane	-----ISTD-----							
2) T Propylene			1.131	0.916	0.800	0.787	0.810	18.47
3) T Freon 12			5.132	4.678	4.218	4.223	4.271	10.16
4) T Chloromethane			1.503	1.264	1.102	1.101	1.118	16.44
5) T Freon 114			4.240	3.932	3.598	3.582	3.598	9.49
6) T Vinyl Chloride	1.719	1.251	1.297	1.175	1.025	1.010	1.125	22.21
7) T Butane			1.907	1.462	1.217	1.136	1.285	21.70
8) T 1,3-butadiene			0.944	1.260	0.745	0.776	0.847	21.16
9) T Bromomethane			1.732	1.419	1.456	1.223	1.320	15.58
10) T Chloroethane			0.548	0.498	0.458	0.443	0.459	9.89
11) T Ethanol			0.466	0.454	0.339	0.316	0.341	22.51
12) T Acrolein			0.385	0.346	0.276	0.273	0.290	16.78
13) T Vinyl Bromide			1.654	1.410	1.249	1.246	1.298	12.66
14) T Freon 11			5.356	4.760	4.368	4.251	4.393	10.46
15) T Acetone			0.580	0.446	0.467	0.385	0.432	15.55
16) T Pentane			1.399	1.121	0.953	0.938	0.986	19.28
17) T Isopropyl alcohol			1.936	1.738	1.419	1.309	1.409	19.82
18) T 1,1-dichloroeth			1.544	1.424	1.271	1.223	1.283	10.49
19) T Freon 113			3.697	3.334	3.051	3.060	3.094	9.58
20) t t-Butyl alcohol			2.795	2.640	2.350	2.175	2.248	14.34
21) T Methylene chlor			1.287	1.198	1.152	1.112	1.124	7.74
22) T Allyl chloride			1.371	1.068	0.996	0.948	0.998	16.47
23) T Carbon disulfid			4.365	3.573	3.215	3.276	3.316	14.26
24) T trans-1,2-dichl			1.785	1.581	1.489	1.479	1.522	8.00
25) T methyl tert-but			3.237	3.087	2.752	2.784	2.881	6.44
26) T 1,1-dichloroeth			2.501	2.236	2.143	2.145	2.155	7.74
27) T Vinyl acetate			2.311	1.977	1.623	1.860	1.869	11.34
28) T Methyl Ethyl Ke			0.536	0.469	0.440	0.428	0.461	7.54
29) T cis-1,2-dichlor			1.213	1.318	1.253	1.234	1.250	3.55
30) T Hexane			1.377	1.268	1.247	1.266	1.308	3.87
31) T Ethyl acetate			2.162	1.967	1.682	1.682	1.784	10.28
32) T Chloroform			3.438	3.077	2.917	2.874	2.918	8.58
33) T Tetrahydrofuran			0.985	0.870	0.782	0.811	0.828	8.85
34) T 1,2-dichloroeth			1.826	1.794	1.645	1.604	1.641	7.17
35) I 1,4-difluorobenzene	-----ISTD-----							
36) T 1,1,1-trichloro			1.073	1.013	0.947	0.901	0.939	7.43
37) T Cyclohexane			0.412	0.377	0.375	0.379	0.387	3.38
38) T Carbon tetrachl	1.514	1.229	1.098	1.027	0.964	0.926	1.048	18.29
39) T Benzene			0.968	0.850	0.818	0.806	0.832	6.91
40) T Methyl methacry			0.347	0.270	0.242	0.278	0.271	12.09
41) T 1,4-dioxane			0.218	0.242	0.234	0.211	0.213	9.01
42) T 2,2,4-trimethyl			1.598	1.466	1.390	1.406	1.453	4.74
43) T Heptane			0.333	0.316	0.312	0.326	0.338	5.49
44) T Trichloroethene	0.593	0.476	0.419	0.397	0.392	0.393	0.425	15.21
45) T 1,2-dichloropro			0.331	0.323	0.307	0.291	0.300	6.07
46) T Bromodichlorome			0.858	0.765	0.731	0.702	0.734	7.46
47) T cis-1,3-dichlor			0.445	0.416	0.389	0.378	0.400	5.47
48) T trans-1,3-dichl			0.427	0.366	0.357	0.345	0.359	8.05
49) T 1,1,2-trichloro			0.395	0.345	0.323	0.317	0.329	8.71
50) I Chlorobenzene-d5	-----ISTD-----							
51) T Toluene			0.656	0.657	0.623	0.664	0.679	5.43

(#) = Out of Range ### Number of calibration levels exceeded format ###
 A316_1UG.M Thu Apr 07 13:04:59 2016 MSD1

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 10:24:27 2016
 Response via : Initial Calibration

Calibration Files

0.04 =AN031612.D 0.10 =AN031611.D 0.15 =AN031610.D
 0.30 =AN031609.D 0.50 =AN031608.D 0.75 =AN031607.D

Compound		0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
52) T	Methyl Isobutyl			1.257	1.227	1.174	1.227	1.201	5.80
53) T	Dibromochlorome			0.954	0.844	0.859	0.850	0.857	4.94
54) T	Methyl Butyl Ke			1.113	1.133	0.978	1.026	1.068	7.36
55) T	1,2-dibromoetha			1.023	0.886	0.837	0.798	0.845	9.38
56) T	Tetrachloroethy	0.981	0.712	0.625	0.622	0.586	0.599	0.648	19.03
57) T	Chlorobenzene			0.989	0.894	0.875	0.855	0.891	4.61
58) T	1,1,1,2-tetrach			0.688	0.700	0.664	0.649	0.666	3.94
59) T	Ethylbenzene			1.179	1.069	1.076	1.097	1.165	6.41
60) T	m&p-xylene			0.862	0.818	0.830	0.822	0.925	11.55
61) T	Nonane			0.537	0.452	0.455	0.474	0.552	16.56
62) T	Styrene			0.616	0.546	0.553	0.568	0.644	13.48
63) T	Bromoform			0.471	0.450	0.440	0.442	0.463	4.51
64) T	o-xylene			1.102	0.918	1.093	1.016	1.109	9.78
65) T	Cumene			1.528	1.180	1.102	1.083	1.299	13.89
66) S	Bromofluorobenz	0.602	0.608	0.592	0.601	0.592	0.614	0.643	9.58
67) T	1,1,2,2-tetrach			1.606	1.289	1.081	1.068	1.140	18.58
68) T	Propylbenzene			1.653	1.450	1.274	1.157	1.379	13.20
69) T	2-Chlorotoluene			1.115	0.938	0.930	0.834	1.004	10.36
70) T	4-ethyltoluene			1.437	1.277	1.046	1.000	1.183	12.64
71) T	1,3,5-trimethyl			1.760	1.512	1.301	1.240	1.416	11.59
72) T	1,2,4-trimethyl			1.647	1.374	1.172	1.119	1.224	15.92
73) T	1,3-dichloroben			0.958	0.839	0.718	0.663	0.778	11.85
74) T	benzyl chloride			1.256	1.055	1.074	1.101	1.110	8.22
75) T	1,4-dichloroben			0.854	0.804	0.638	0.633	0.733	11.05
76) T	1,2,3-trimethyl			1.944	1.737	1.429	1.376	1.510	14.35
77) T	1,2-dichloroben			1.394	1.099	0.940	0.846	0.954	21.55
78) T	1,2,4-trichloro			0.693	0.719	0.677	0.622	0.720	10.92
79) T	Naphthalene			1.699	1.607	1.503	1.407	1.494	11.86
80) T	Hexachloro-1,3-			1.959	1.831	1.660	1.766	1.754	7.91

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031603.D
 Acq On : 16 Mar 2016 6:50 pm
 Sample : ALUG_2.0
 Misc : A316_1UG

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 17 08:19:00 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.79	128	39696	1.00	ppb	-0.01
35) 1,4-difluorobenzene	12.05	114	119341	1.00	ppb	0.00
50) Chlorobenzene-d5	16.56	117	65204	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.13	95	48331	1.15	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	115.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.14	41	52720	1.77	ppb	# 100
3) Freon 12	4.19	85	300982	1.82	ppb	100
4) Chloromethane	4.39	50	75653	1.85	ppb	90
5) Freon 114	4.39	85	252561	1.79	ppb	99
6) Vinyl Chloride	4.58	62	71454	1.80	ppb	89
7) Butane	4.68	43	84007	1.71	ppb	95
8) 1,3-butadiene	4.69	39	60171	1.98	ppb	88
9) Bromomethane	5.03	94	88794	1.75	ppb	93
10) Chloroethane	5.20	64	31848	1.90	ppb	# 85
11) Ethanol	5.34	45	22162	1.89	ppb	# 66
12) Acrolein	5.93	56	19963m ¹¹	1.92	ppb	
13) Vinyl Bromide	5.54	106	90315	1.77	ppb	96
14) Freon 11	5.80	101	311834	1.84	ppb	99
15) Acetone	6.02	58	31506	2.05	ppb	# 82
16) Pentane	6.06	42	64025	1.75	ppb	99
17) Isopropyl alcohol	6.13	45	95378	1.89	ppb	# 46
18) 1,1-dichloroethene	6.56	96	90887	1.81	ppb	89
19) Freon 113	6.75	101	218149	1.79	ppb	96
20) t-Butyl alcohol	6.87	59	153022	1.79	ppb	# 73
21) Methylene chloride	7.04	84	81781	1.83	ppb	92
22) Allyl chloride	7.00	41	75821	2.00	ppb	88
23) Carbon disulfide	7.19	76	229469	1.81	ppb	97
24) trans-1,2-dichloroethene	7.97	61	109677	1.86	ppb	90
25) methyl tert-butyl ether	8.01	73	217092	1.92	ppb	96
26) 1,1-dichloroethane	8.39	63	155890	1.83	ppb	99
27) Vinyl acetate	8.41	43	139082	1.80	ppb	99
28) Methyl Ethyl Ketone	8.92	72	35109	1.95	ppb	# 100
29) cis-1,2-dichloroethene	9.33	61	95640	1.86	ppb	93
30) Hexane	8.90	57	103745	1.97	ppb	96
31) Ethyl acetate	9.51	43	132681	1.93	ppb	96
32) Chloroform	9.94	83	209422	1.84	ppb	98
33) Tetrahydrofuran	10.15	42	59093	1.80	ppb	85
34) 1,2-dichloroethane	11.07	62	118759	1.86	ppb	87
36) 1,1,1-trichloroethane	10.75	97	211952	1.92	ppb	100
37) Cyclohexane	11.44	56	95560	2.08	ppb	90
38) Carbon tetrachloride	11.39	117	221613	1.95	ppb	97
39) Benzene	11.36	78	193181	1.98	ppb	98
40) Methyl methacrylate	12.91	41	62212	1.99	ppb	# 80
41) 1,4-dioxane	12.99	88	48143	1.87	ppb	97
42) 2,2,4-trimethylpentane	12.18	57	351781	2.00	ppb	98
43) Heptane	12.53	43	86114	2.04	ppb	88
44) Trichloroethene	12.67	130	95479	2.05	ppb	99
45) 1,2-dichloropropane	12.79	63	67226	1.91	ppb	98

(#) = qualifier out of range (m) = manual integration

AN031603.D A316_1UG.M

Thu Apr 07 13:05:28 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031603.D
 Acq On : 16 Mar 2016 6:50 pm
 Sample : A1UG_2.0
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:19:00 2016

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

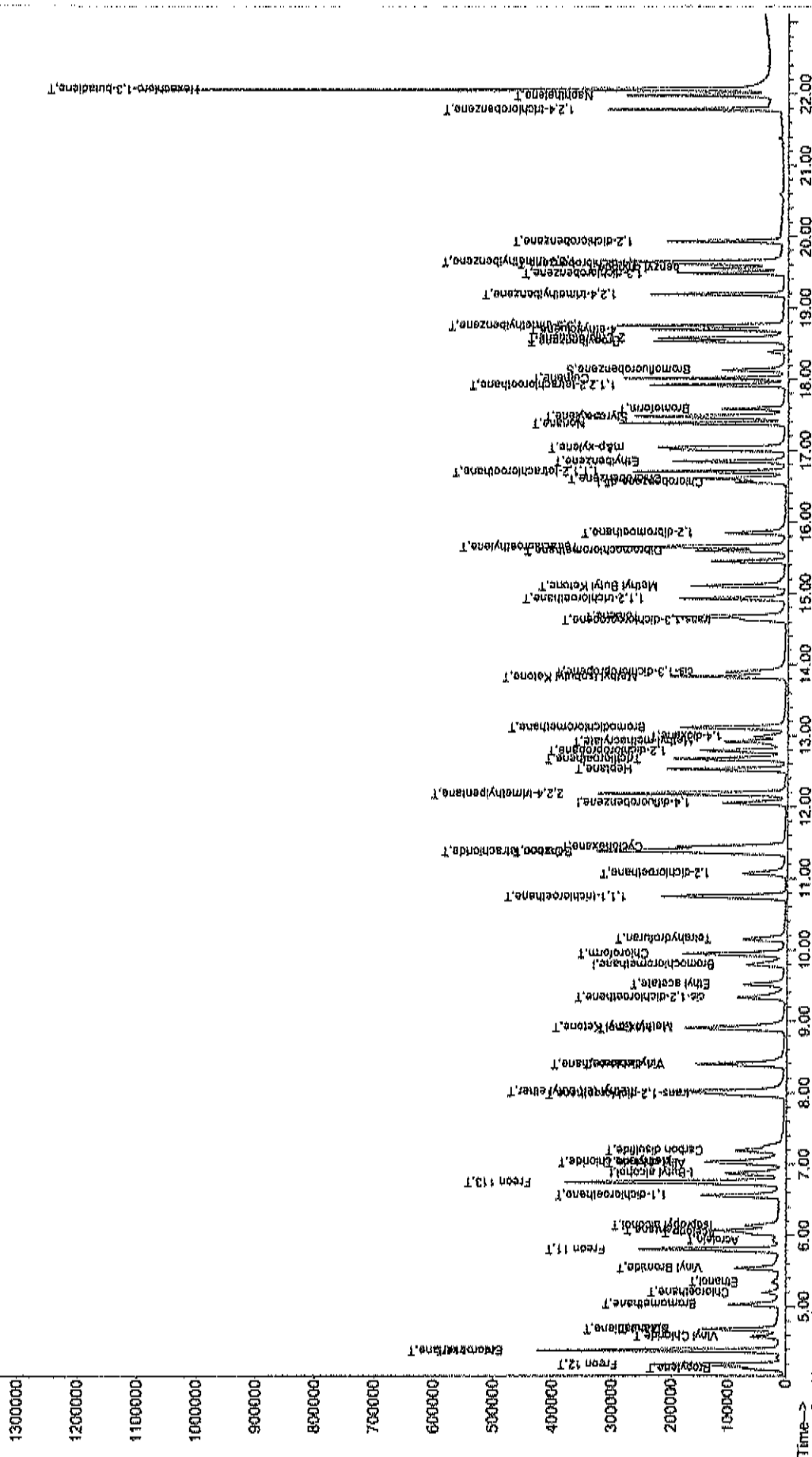
Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.11	83	168164	1.95	ppb	99
47) cis-1,3-dichloropropene	13.89	75	96193	2.09	ppb	100
48) trans-1,3-dichloropropene	14.62	75	81400	1.94	ppb	92
49) 1,1,2-trichloroethane	14.93	97	73046	1.93	ppb	98
51) Toluene	14.67	92	95859	2.10	ppb	98
52) Methyl Isobutyl Ketone	13.82	43	161205	1.95	ppb	98
53) Dibromochloromethane	15.60	129	111719m	1.98	ppb	
54) Methyl Butyl Ketone	15.11	43	145361	1.95	ppb	97
55) 1,2-dibromoethane	15.85	107	103573	1.91	ppb	97
56) Tetrachloroethylene	15.66	164	77730	1.98	ppb	98
57) Chlorobenzene	16.61	112	114609	2.01	ppb	89
58) 1,1,1,2-tetrachloroethane	16.71	131	83929	1.85	ppb	98
59) Ethylbenzene	16.85	91	163580	2.13	ppb	98
60) m&p-xylene	17.04	91	279419	4.64	ppb	97
61) Nonane	17.38	43	90950	2.59	ppb	98
62) Styrene	17.46	104	100790	2.36	ppb	89
63) Bromoform	17.58	173	63866	2.18	ppb	97
64) o-xylene	17.48	91	162873	2.39	ppb	95
65) Cumene	18.01	105	197775	2.53	ppb	99
67) 1,1,2,2-tetrachloroethane	17.92	83	129149	1.85	ppb	99
68) Propylbenzene	18.53	91	209599m	2.74	ppb	
69) 2-Chlorotoluene	18.58	91	145425m	2.28	ppb	
70) 4-ethyltoluene	18.70	105	165888m	2.44	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	184877m	2.18	ppb	
72) 1,2,4-trimethylbenzene	19.19	105	147804	2.03	ppb	98
73) 1,3-dichlorobenzene	19.49	146	99804	2.01	ppb	98
74) benzyl chloride	19.56	91	137885	2.04	ppb	97
75) 1,4-dichlorobenzene	19.61	146	97347	2.06	ppb	98
76) 1,2,3-trimethylbenzene	19.65	105	180121	1.88	ppb	98
77) 1,2-dichlorobenzene	19.93	146	104274	1.75	ppb	97
78) 1,2,4-trichlorobenzene	21.78	180	115972	2.52	ppb	96
79) Naphthalene	21.98	128	221487m	2.55	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	218825	1.78	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN031603.D A316_1UG.M Thu Apr 07 13:05:29 2016 MSD1

Page 2



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031604.D
 Acq On : 16 Mar 2016 7:30 pm
 Sample : A1UG_1.50
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:18:42 2016

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.80	128	37388	1.00	ppb	-0.01
35) 1,4-difluorobenzene	12.06	114	125097	1.00	ppb	0.00
50) Chlorobenzene-d5	16.56	117	71425	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.13	95	48889	1.06	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.13	41	41028	1.46	ppb	# 100
3) Freon 12	4.19	85	229102	1.47	ppb	99
4) Chloromethane	4.39	50	56920	1.48	ppb	93
5) Freon 114	4.39	85	192137	1.45	ppb	100
6) Vinyl Chloride	4.58	62	53313	1.42	ppb	92
7) Butane	4.68	43	62790	1.36	ppb	97
8) 1,3-butadiene	4.69	39	42193	1.48	ppb	82
9) Bromomethane	5.03	94	66997	1.40	ppb	93
10) Chloroethane	5.20	64	24605	1.56	ppb	88
11) Ethanol	5.35	45	15188	1.37	ppb	# 66
12) Acrolein	5.94	56	14959m	1.53	ppb	
13) Vinyl Bromide	5.54	106	68982	1.43	ppb	98
14) Freon 11	5.80	101	235962	1.48	ppb	99
15) Acetone	6.03	58	22358m	1.54	ppb	
16) Pentane	6.07	42	50174	1.45	ppb	88
17) Isopropyl alcohol	6.14	45	68376	1.44	ppb	# 46
18) 1,1-dichloroethene	6.56	96	68884	1.45	ppb	# 89
19) Freon 113	6.75	101	165966	1.44	ppb	97
20) t-Butyl alcohol	6.88	59	113330	1.41	ppb	# 75
21) Methylene chloride	7.04	84	58969m	1.40	ppb	
22) Allyl chloride	7.01	41	49125m	1.38	ppb	
23) Carbon disulfide	7.19	76	165861	1.39	ppb	99
24) trans-1,2-dichloroethene	7.97	61	85565	1.54	ppb	91
25) methyl tert-butyl ether	8.02	73	162235	1.52	ppb	95
26) 1,1-dichloroethane	8.39	63	120712	1.50	ppb	98
27) Vinyl acetate	8.41	43	105982	1.46	ppb	97
28) Methyl Ethyl Ketone	8.92	72	26847	1.58	ppb	# 100
29) cis-1,2-dichloroethene	9.34	61	72635	1.50	ppb	92
30) Hexane	8.90	57	77717	1.57	ppb	97
31) Ethyl acetate	9.52	43	98475	1.52	ppb	# 82
32) Chloroform	9.94	83	161422	1.50	ppb	99
33) Tetrahydrofuran	10.15	42	46658	1.51	ppb	91
34) 1,2-dichloroethane	11.08	62	92764	1.54	ppb	89
36) 1,1,1-trichloroethane	10.75	97	164249	1.42	ppb	98
37) Cyclohexane	11.44	56	70836	1.47	ppb	87
38) Carbon tetrachloride	11.38	117	171139	1.44	ppb	97
39) Benzene	11.37	78	149554	1.46	ppb	99
40) Methyl methacrylate	12.91	41	47301	1.45	ppb	# 83
41) 1,4-dioxane	12.99	88	34749	1.29	ppb	97
42) 2,2,4-trimethylpentane	12.18	57	259886	1.41	ppb	98
43) Heptane	12.53	43	66410	1.50	ppb	89
44) Trichloroethene	12.68	130	73890	1.51	ppb	98
45) 1,2-dichloropropane	12.79	63	53981	1.46	ppb	99

(#) = qualifier out of range (m) = manual integration

AN031604.D A316_1UG.M

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MSD1

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031604.D

Vial: 3

Acq On : 16 Mar 2016 7:30 pm

Operator: RJP

Sample : A1UG_1.50

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 17 08:18:42 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 17 08:17:56 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.11	83	131443	1.45	ppb	98
47) cis-1,3-dichloropropene	13.89	75	73577	1.52	ppb	98
48) trans-1,3-dichloropropene	14.63	75	63904	1.46	ppb	93
49) 1,1,2-trichloroethane	14.93	97	60215	1.52	ppb	99
51) Toluene	14.67	92	76620	1.53	ppb	96
52) Methyl Isobutyl Ketone	13.83	43	112630	1.24	ppb	97
53) Dibromochloromethane	15.60	129	89145m	1.44	ppb	
54) Methyl Butyl Ketone	15.11	43	100523	1.23	ppb	96
55) 1,2-dibromoethane	15.85	107	84426	1.42	ppb	98
56) Tetrachloroethylene	15.65	164	62278	1.45	ppb	98
57) Chlorobenzene	16.61	112	93584	1.50	ppb	91
58) 1,1,1,2-tetrachloroethane	16.70	131	67746	1.37	ppb	98
59) Ethylbenzene	16.85	91	131064	1.56	ppb	97
60) m&p-xylene	17.04	91	219605	3.33	ppb	97
61) Nonane	17.38	43	67119	1.74	ppb	99
62) Styrene	17.46	104	75304	1.61	ppb	91
63) Bromoform	17.59	173	49198	1.53	ppb	100
64) o-xylene	17.48	91	129975	1.74	ppb	95
65) Cumene	18.02	105	143847	1.68	ppb	99
67) 1,1,2,2-tetrachloroethane	17.92	83	102893	1.35	ppb	99
68) Propylbenzene	18.54	91	146044m	1.74	ppb	
69) 2-Chlorotoluene	18.58	91	109401m	1.57	ppb	
70) 4-ethyltoluene	18.70	105	121465m	1.63	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	142483m	1.53	ppb	
72) 1,2,4-trimethylbenzene	19.19	105	113063	1.42	ppb	95
73) 1,3-dichlorobenzene	19.48	146	75726	1.39	ppb	98
74) benzyl chloride	19.56	91	105994	1.43	ppb	97
75) 1,4-dichlorobenzene	19.62	146	71922	1.39	ppb	99
76) 1,2,3-trimethylbenzene	19.65	105	141118	1.34	ppb	97
77) 1,2-dichlorobenzene	19.93	146	81574	1.25	ppb	98
78) 1,2,4-trichlorobenzene	21.79	180	77042	1.53	ppb	96
79) Naphthalene	21.98	128	162805	1.71	ppb	98
80) Hexachloro-1,3-butadiene	22.06	225	164815	1.22	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN031604.D A316_1UG.M Thu Apr 07 13:05:33 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN031604.D
Acq On : 16 Mar 2016 7:30 pm
Sample : A10G 1.50
Misc : A316.LOG
MMS Integration Params: RTEINT.P
Quant Time: Mar 17 9:53 2016

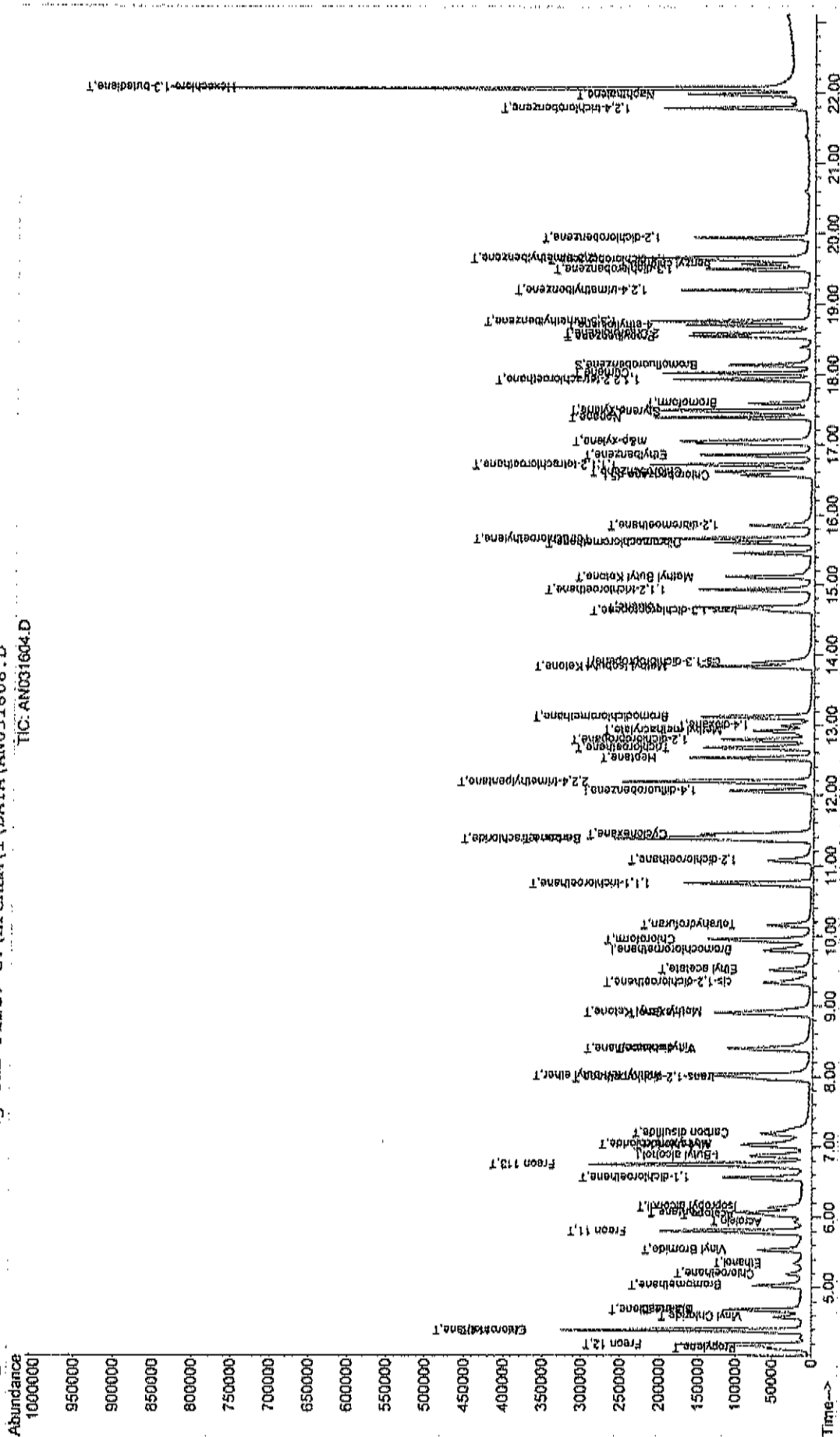
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Method      : C:\HPCHEM\1\METHODS\A316_IUG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 17 10:24:27 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.

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Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D

TIC: AWD31614.D



AN031504.D A316 1UG.M

Thu Apr 07 13:05:34 2016

MSDI

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031605.D
 Acq On : 16 Mar 2016 8:10 pm
 Sample : A1UG_1.25
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:18:24 2016

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.80	128	38435	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.06	114	118006	1.00	ppb	0.00
50) Chlorobenzene-d5	16.56	117	66689	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene 18.13 95 50183 1.17 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 117.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.14	41	34125	1.18	ppb	# 100
3) Freon 12	4.19	85	188632	1.18	ppb	99
4) Chloromethane	4.39	50	46990	1.19	ppb	94
5) Freon 114	4.39	85	159182	1.17	ppb	99
6) Vinyl Chloride	4.58	62	44524	1.16	ppb	93
7) Butane	4.68	43	55448	1.16	ppb	94
8) 1,3-butadiene	4.69	39	36591	1.24	ppb	84
9) Bromomethane	5.04	94	55311	1.13	ppb	91
10) Chloroethane	5.20	64	20643	1.27	ppb	# 85
11) Ethanol	5.36	45	13696	1.20	ppb	# 74
12) Acrolein	5.94	56	12410m	1.24	ppb	
13) Vinyl Bromide	5.54	106	56822	1.15	ppb	95
14) Freon 11	5.80	101	194667	1.19	ppb	99
15) Acetone	6.03	58	18687m	1.25	ppb	
16) Pentane	6.07	42	41343m	1.16	ppb	
17) Isopropyl alcohol	6.15	45	57073	1.17	ppb	# 46
18) 1,1-dichloroethene	6.56	96	56328	1.16	ppb	89
19) Freon 113	6.75	101	137846	1.17	ppb	96
20) t-Butyl alcohol	6.88	59	93562	1.13	ppb	93
21) Methylene chloride	7.04	84	50280m	1.16	ppb	
22) Allyl chloride	7.01	41	41687m	1.14	ppb	
23) Carbon disulfide	7.20	76	148023	1.20	ppb	97
24) trans-1,2-dichloroethene	7.97	61	68887	1.21	ppb	94
25) methyl tert-butyl ether	8.03	73	131518	1.20	ppb	94
26) 1,1-dichloroethane	8.39	63	95089	1.15	ppb	97
27) Vinyl acetate	8.41	43	89018m	1.19	ppb	
28) Methyl Ethyl Ketone	8.94	72	21142	1.21	ppb	# 100
29) cis-1,2-dichloroethene	9.34	61	57658	1.16	ppb	90
30) Hexane	8.89	57	62689	1.23	ppb	97
31) Ethyl acetate	9.52	43	78814	1.18	ppb	95
32) Chloroform	9.94	83	128907	1.17	ppb	98
33) Tetrahydrofuran	10.15	42	37821	1.19	ppb	89
34) 1,2-dichloroethane	11.07	62	73032	1.18	ppb	89
36) 1,1,1-trichloroethane	10.75	97	131367	1.20	ppb	99
37) Cyclohexane	11.44	56	57547	1.27	ppb	90
38) Carbon tetrachloride	11.39	117	137163	1.22	ppb	99
39) Benzene	11.37	78	116970	1.21	ppb	99
40) Methyl methacrylate	12.92	41	37863	1.23	ppb	# 83
41) 1,4-dioxane	13.00	88	28574	1.12	ppb	100
42) 2,2,4-trimethylpentane	12.19	57	211404	1.21	ppb	98
43) Heptane	12.53	43	50947	1.22	ppb	92
44) Trichloroethene	12.67	130	57922	1.26	ppb	99
45) 1,2-dichloropropane	12.78	63	41974	1.20	ppb	100

(#) = qualifier out of range (m) = manual integration

AN031605.D A316_1UG.M

Thu Apr 07 13:05:36 2016

MSD1

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031605.D
 Acq On : 16 Mar 2016 8:10 pm
 Sample : A1UG_1.25
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:18:24 2016

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.11	83	102348	1.20	ppb	99
47) cis-1,3-dichloropropene	13.90	75	57578	1.26	ppb	99
48) trans-1,3-dichloropropene	14.63	75	51108	1.23	ppb	92
49) 1,1,2-trichloroethane	14.93	97	46126	1.24	ppb	95
51) Toluene	14.68	92	56126	1.20	ppb	96
52) Methyl Isobutyl Ketone	13.83	43	97491m	1.15	ppb	
53) Dibromochloromethane	15.60	129	67490m	1.17	ppb	
54) Methyl Butyl Ketone	15.11	43	90049m	1.18	ppb	
55) 1,2-dibromoethane	15.85	107	66367	1.20	ppb	97
56) Tetrachloroethylene	15.66	164	47939	1.19	ppb	100
57) Chlorobenzene	16.61	112	73949	1.27	ppb	85
58) 1,1,1,2-tetrachloroethane	16.71	131	54587	1.18	ppb	95
59) Ethylbenzene	16.85	91	103191	1.32	ppb	98
60) m&p-xylene	17.04	91	173419	2.81	ppb	97
61) Nonane	17.38	43	52439	1.46	ppb	98
62) Styrene	17.46	104	61068	1.40	ppb	92
63) Bromoform	17.58	173	41297	1.38	ppb	99
64) o-xylene	17.48	91	99047m	1.42	ppb	
65) Cumene	18.01	105	119471	1.49	ppb	98
67) 1,1,2,2-tetrachloroethane	17.92	83	87757	1.23	ppb	98
68) Propylbenzene	18.54	91	112193m	1.43	ppb	
69) 2-Chlorotoluene	18.58	91	92322m	1.42	ppb	
70) 4-ethyltoluene	18.70	105	103814m	1.50	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	120410m	1.39	ppb	
72) 1,2,4-trimethylbenzene	19.19	105	96928	1.30	ppb	96
73) 1,3-dichlorobenzene	19.49	146	67647	1.33	ppb	99
74) benzyl chloride	19.56	91	93016	1.34	ppb	94
75) 1,4-dichlorobenzene	19.62	146	65798	1.36	ppb	95
76) 1,2,3-trimethylbenzene	19.65	105	117860	1.20	ppb	95
77) 1,2-dichlorobenzene	19.93	146	72700	1.20	ppb	96
78) 1,2,4-trichlorobenzene	21.78	180	62909	1.34	ppb	96
79) Naphthalene	21.98	128	100472m	1.13	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	141195	1.12	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN031605.D A316_1UG.M Thu Apr 07 13:05:37 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN031605.D
Acq On : 16 Mar 2016 8:10 pm
Sample : AUG_1.25
Misc : A316_IUG
MMS Integration Params: RTEINT.P
Quant Time: Mar 17 9:55 2016

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

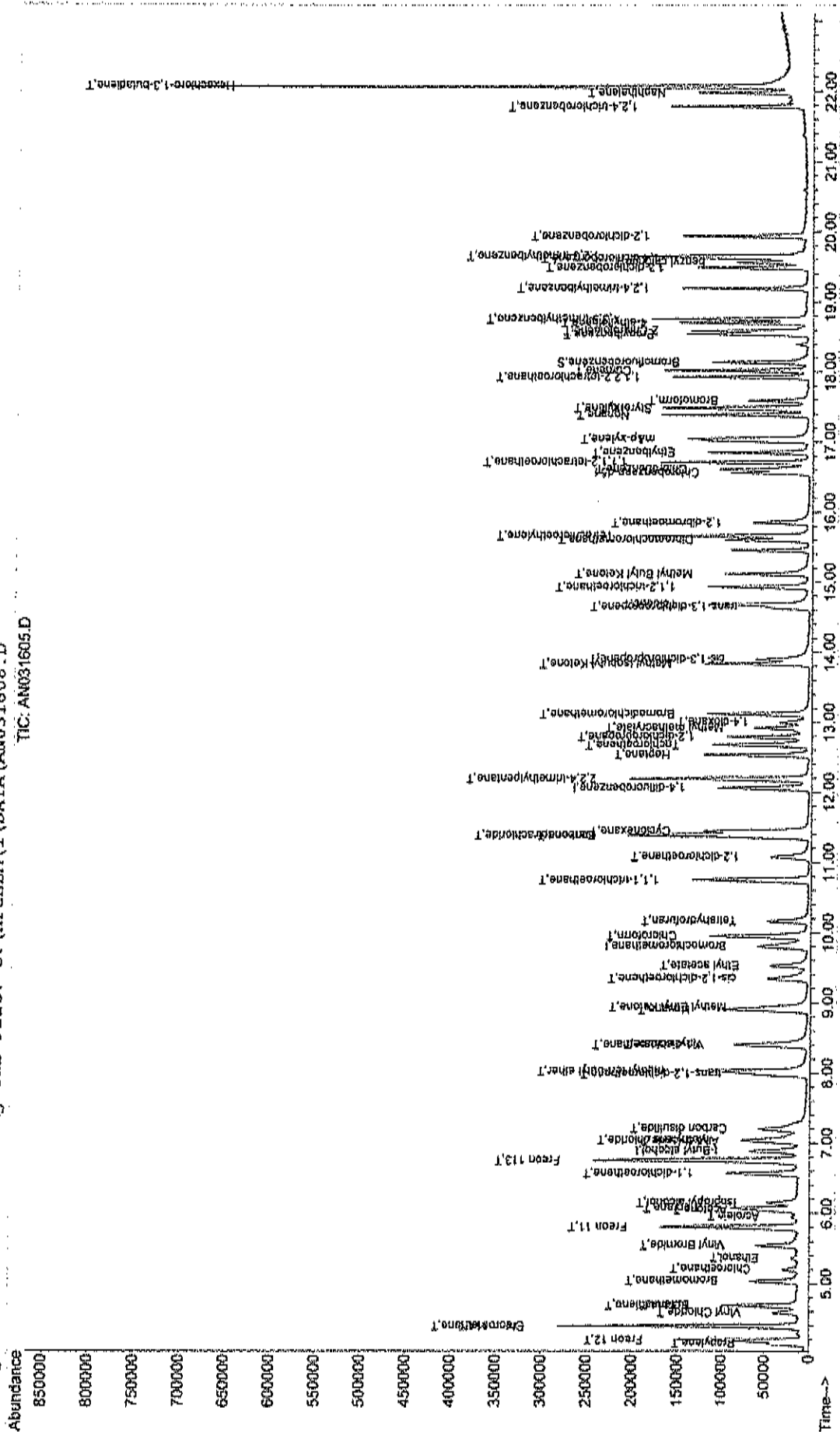
Quant Results File: A316 1UG.RES

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Method      : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 17 10:24:27 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.

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TIC: AM031605.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031606.D
 Acq On : 16 Mar 2016 8:49 pm
 Sample : A1UG_1.0
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:18:03 2016

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.81	128	36682	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.06	114	112843	1.00	ppb	0.00
50) Chlorobenzene-d5	16.56	117	61333	1.00	ppb	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Bromofluorobenzene	18.14	95	39738	1.01	ppb	0.00	
Spiked Amount	1.000	Range	70 - 130	Recovery	=	101.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.14	41	27277	0.99	ppb	# 100
3) Freon 12	4.19	85	151027	0.99	ppb	99
4) Chloromethane	4.39	50	37602	1.00	ppb	94
5) Freon 114	4.39	85	128823	0.99	ppb	100
6) Vinyl Chloride	4.58	62	36447	0.99	ppb	88
7) Butane	4.68	43	44989	0.99	ppb	96
8) 1,3-butadiene	4.69	39	28499	1.02	ppb	81
9) Bromomethane	5.03	94	46282	0.99	ppb	95
10) Chloroethane	5.21	64	16583	1.07	ppb	100
11) Ethanol	5.36	45	11746	1.08	ppb	# 74
12) Acrolein	5.95	56	9571m	1.00	ppb	
13) Vinyl Bromide	5.54	106	46664	0.99	ppb	96
14) Freon 11	5.80	101	154925	0.99	ppb	98
15) Acetone	6.04	58	14328m	1.01	ppb	
16) Pentane	6.07	42	33653	0.99	ppb	94
17) Isopropyl alcohol	6.15	45	46253	0.99	ppb	# 46
18) 1,1-dichloroethene	6.56	96	46032	0.99	ppb	# 88
19) Freon 113	6.74	101	111420	0.99	ppb	96
20) t-Butyl alcohol	6.88	59	78078	0.99	ppb	# 77
21) Methylene chloride	7.04	84	40970	0.99	ppb	97
22) Allyl chloride	7.02	41	33103m	0.95	ppb	
23) Carbon disulfide	7.20	76	116250	0.99	ppb	96
24) trans-1,2-dichloroethene	7.99	61	54958	1.01	ppb	94
25) methyl tert-butyl ether	8.03	73	103598	0.99	ppb	93
26) 1,1-dichloroethane	8.40	63	77856	0.99	ppb	99
27) Vinyl acetate	8.43	43	61972	0.87	ppb	96
28) Methyl Ethyl Ketone	8.94	72	16500	0.99	ppb	# 100
29) cis-1,2-dichloroethene	9.35	61	46977	0.99	ppb	92
30) Hexane	8.90	57	48164	0.99	ppb	94
31) Ethyl acetate	9.52	43	62899	0.99	ppb	94
32) Chloroform	9.94	83	104226	0.99	ppb	98
33) Tetrahydrofuran	10.15	42	29839	0.99	ppb	89
34) 1,2-dichloroethane	11.09	62	58404	0.99	ppb	89
36) 1,1,1-trichloroethane	10.75	97	104507	1.00	ppb	97
37) Cyclohexane	11.45	56	43452	1.00	ppb	89
38) Carbon tetrachloride	11.39	117	107492	1.00	ppb	98
39) Benzene	11.36	78	91969	1.00	ppb	98
40) Methyl methacrylate	12.91	41	29340	0.99	ppb	# 83
41) 1,4-dioxane	13.00	88	24261	1.00	ppb	100
42) 2,2,4-trimethylpentane	12.18	57	166364	1.00	ppb	99
43) Heptane	12.53	43	39883	1.00	ppb	93
44) Trichloroethene	12.67	130	44026	1.00	ppb	97
45) 1,2-dichloropropane	12.79	63	33334	1.00	ppb	99

(#) = qualifier out of range (m) = manual integration

AN031606.D A316_1UG.M

Thu Apr 07 13:05:40 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031606.D
 Acq On : 16 Mar 2016 8:49 pm
 Sample : A1UG_1.0
 Misc : A316_1UG

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 17 08:18:03 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.12	83	81385	1.00	ppb	99
47) cis-1,3-dichloropropene	13.90	75	43288	0.99	ppb	98
48) trans-1,3-dichloropropene	14.63	75	39100	0.99	ppb	92
49) 1,1,2-trichloroethane	14.93	97	35639	1.00	ppb	97
51) Toluene	14.68	92	43216	1.01	ppb	99
52) Methyl Isobutyl Ketone	13.83	43	77557	1.00	ppb	97
53) Dibromochloromethane	15.60	129	52061m	0.98	ppb	
54) Methyl Butyl Ketone	15.11	43	70973	1.01	ppb	97
55) 1,2-dibromoethane	15.86	107	51366	1.01	ppb	95
56) Tetrachloroethylene	15.66	164	37193	1.01	ppb	98
57) Chlorobenzene	16.61	112	53911	1.01	ppb	89
58) 1,1,1,2-tetrachloroethane	16.70	131	42883	1.01	ppb	95
59) Ethylbenzene	16.85	91	72637	1.01	ppb	98
60) m&p-xylene	17.04	91	114219	2.02	ppb	94
61) Nonane	17.38	43	33317	1.01	ppb	98
62) Styrene	17.46	104	40542	1.01	ppb	90
63) Bromoform	17.58	173	27823	1.01	ppb	99
64) o-xylene	17.48	91	66836	1.04	ppb	91
65) Cumene	18.02	105	74125	1.01	ppb	99
67) 1,1,2,2-tetrachloroethane	17.92	83	65967	1.01	ppb	99
68) Propylbenzene	18.53	91	72561m	1.01	ppb	
69) 2-Chlorotoluene	18.58	91	59363m	0.99	ppb	
70) 4-ethyltoluene	18.70	105	64669m	1.01	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	81111m	1.01	ppb	
72) 1,2,4-trimethylbenzene	19.19	105	68998	1.01	ppb	98
73) 1,3-dichlorobenzene	19.48	146	46992	1.01	ppb	99
74) benzyl chloride	19.56	91	75652	1.19	ppb	97
75) 1,4-dichlorobenzene	19.61	146	44723	1.01	ppb	98
76) 1,2,3-trimethylbenzene	19.65	105	90793	1.01	ppb	96
77) 1,2-dichlorobenzene	19.93	146	56239	1.01	ppb	97
78) 1,2,4-trichlorobenzene	21.78	180	42066	0.97	ppb	95
79) Naphthalene	21.98	128	80682	0.99	ppb	97
80) Hexachloro-1,3-butadiene	22.06	225	116697	1.01	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN031606.D A316_1UG.M Thu Apr 07 13:05:41 2016 MSD1

Page 2

Data File : C:\HPCHEM\1\DATA\AN031606.D
Acq On : 16 Mar 2016 8:49 pm
Sample : A1UG 1.0
Misc : A316_1UG
MMS Integration Params: RTEINT.P
Quant Time: Mar 17 10:12 2016

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

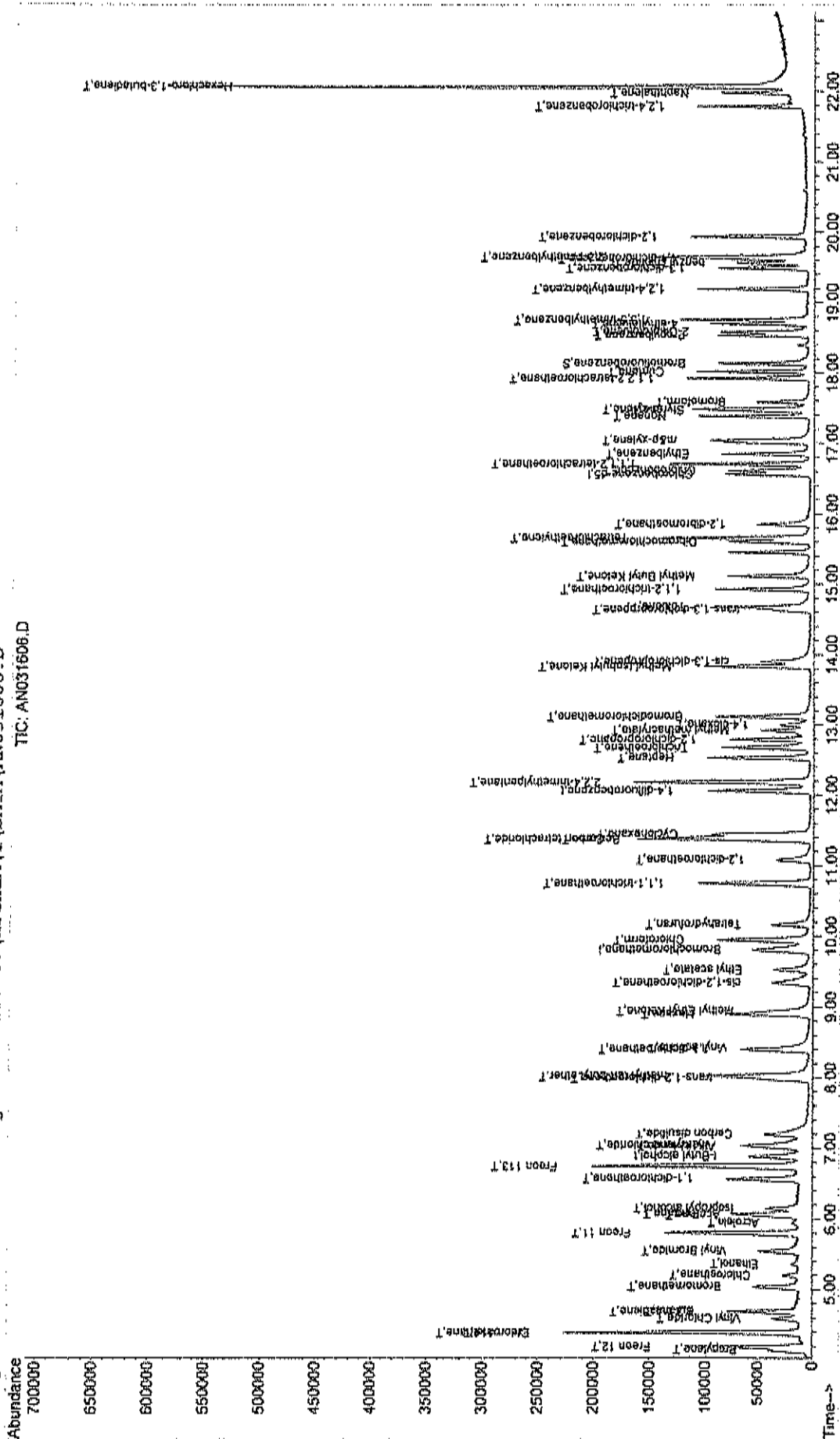
Quant Results File: A316 IUG.RES

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Method      : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 17 10:24:27 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D

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Abundance



AN031606.D A316 IUG.M

Thu Apr 07 13:05:42 2016

MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031607.D
 Acq On : 16 Mar 2016 9:27 pm
 Sample : A1UG_0.75
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:19:18 2016

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.81	128	36429	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.06	114	115405	1.00	ppb	0.00
50) Chlorobenzene-d5	16.56	117	64493	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.13	95	39593	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.13	41	21494	0.78	ppb	# 100
3) Freon 12	4.19	85	115393	0.76	ppb	100
4) Chloromethane	4.39	50	30086	0.80	ppb	92
5) Freon 114	4.39	85	97880	0.76	ppb	98
6) Vinyl Chloride	4.58	62	27592	0.76	ppb	91
7) Butane	4.68	43	31050	0.69	ppb	96
8) 1,3-butadiene	4.69	39	21193	0.76	ppb	81
9) Bromomethane	5.04	94	33415	0.72	ppb	90
10) Chloroethane	5.21	64	12103	0.79	ppb	100
11) Ethanol	5.36	45	8634	0.80	ppb	# 72
12) Acrolein	5.97	56	7453m	0.78	ppb	
13) Vinyl Bromide	5.55	106	34036	0.73	ppb	96
14) Freon 11	5.81	101	116153	0.75	ppb	98
15) Acetone	6.05	58	10532m	0.75	ppb	
16) Pentane	6.07	42	25618	0.76	ppb	95
17) Isopropyl alcohol	6.16	45	35764	0.77	ppb	# 46
18) 1,1-dichloroethene	6.57	96	33426	0.72	ppb	89
19) Freon 113	6.74	101	83596	0.75	ppb	97
20) t-Butyl alcohol	6.90	59	59423	0.76	ppb	# 75
21) Methylene chloride	7.04	84	30390	0.74	ppb	89
22) Allyl chloride	7.02	41	25889	0.75	ppb	86
23) Carbon disulfide	7.20	76	89515	0.77	ppb	99
24) trans-1,2-dichloroethene	8.00	61	40410	0.75	ppb	91
25) methyl tert-butyl ether	8.03	73	76069	0.73	ppb	93
26) 1,1-dichloroethane	8.39	63	58606	0.75	ppb	100
27) Vinyl acetate	8.43	43	50830m	0.72	ppb	
28) Methyl Ethyl Ketone	8.95	72	11701	0.71	ppb	# 100
29) cis-1,2-dichloroethene	9.34	61	33727	0.72	ppb	91
30) Hexane	8.90	57	34580	0.72	ppb	97
31) Ethyl acetate	9.53	43	45964	0.73	ppb	# 81
32) Chloroform	9.95	83	78527	0.75	ppb	98
33) Tetrahydrofuran	10.17	42	22163	0.74	ppb	92
34) 1,2-dichloroethane	11.09	62	43826	0.75	ppb	90
36) 1,1,1-trichloroethane	10.75	97	77993	0.73	ppb	98
37) Cyclohexane	11.44	56	32831	0.74	ppb	90
38) Carbon tetrachloride	11.39	117	80127	0.73	ppb	97
39) Benzene	11.37	78	69790	0.74	ppb	98
40) Methyl methacrylate	12.92	41	24037m	0.80	ppb	
41) 1,4-dioxane	13.00	88	18280	0.74	ppb	99
42) 2,2,4-trimethylpentane	12.18	57	121655	0.71	ppb	99
43) Heptane	12.53	43	28219	0.69	ppb	91
44) Trichloroethene	12.68	130	34027	0.75	ppb	99
45) 1,2-dichloropropane	12.79	63	25201	0.74	ppb	98

(#) = qualifier out of range (m) = manual integration

AN031607.D A316_1UG.M

Thu Apr 07 13:05:44 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031607.D
 Acq On : 16 Mar 2016 9:27 pm
 Sample : A1UG_0.75
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:19:18 2016

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.12	83	60775	0.73	ppb	100
47) cis-1,3-dichloropropene	13.90	75	32684	0.73	ppb	96
48) trans-1,3-dichloropropene	14.63	75	29863	0.74	ppb	90
49) 1,1,2-trichloroethane	14.93	97	27436	0.75	ppb	96
51) Toluene	14.68	92	32126	0.71	ppb	98
52) Methyl Isobutyl Ketone	13.83	43	59370	0.73	ppb	99
53) Dibromochloromethane	15.60	129	41112m	0.74	ppb	
54) Methyl Butyl Ketone	15.11	43	49642	0.67	ppb	96
55) 1,2-dibromoethane	15.85	107	38588	0.72	ppb	96
56) Tetrachloroethylene	15.65	164	28969	0.75	ppb	97
57) Chlorobenzene	16.61	112	41332	0.73	ppb	90
58) 1,1,1,2-tetrachloroethane	16.71	131	31396	0.70	ppb	95
59) Ethylbenzene	16.85	91	53041	0.70	ppb	99
60) m&p-xylene	17.04	91	79500	1.33	ppb	92
61) Nonane	17.38	43	22932	0.66	ppb	95
62) Styrene	17.46	104	27462	0.65	ppb	91
63) Bromoform	17.58	173	21394	0.74	ppb	99
64) o-xylene	17.49	91	49158	0.73	ppb	95
65) Cumene	18.02	105	52361	0.68	ppb	100
67) 1,1,2,2-tetrachloroethane	17.92	83	51665	0.75	ppb	98
68) Propylbenzene	18.54	91	55960m	0.74	ppb	
69) 2-Chlorotoluene	18.58	91	40331m	0.64	ppb	
70) 4-ethyltoluene	18.70	105	48368m	0.72	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	59988m	0.71	ppb	
72) 1,2,4-trimethylbenzene	19.19	105	54115	0.75	ppb	96
73) 1,3-dichlorobenzene	19.48	146	32066	0.65	ppb	97
74) benzyl chloride	19.56	91	53237	0.80	ppb	96
75) 1,4-dichlorobenzene	19.62	146	30624	0.66	ppb	97
76) 1,2,3-trimethylbenzene	19.65	105	66564	0.70	ppb	96
77) 1,2-dichlorobenzene	19.93	146	40900	0.70	ppb	97
78) 1,2,4-trichlorobenzene	21.78	180	30081m	0.66	ppb	
79) Naphthalene	21.98	128	68066m	0.79	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	85443	0.70	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN031607.D A316_1UG.M Thu Apr 07 13:05:45 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN031607.D
Acq On : 16 Mar 2016 9:27 pm
Sample : AUG 0.75
Misc : A316_IUG
MMS integration Params: RTEINT.P
Quant Time: Mar 17 10:14 2016

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

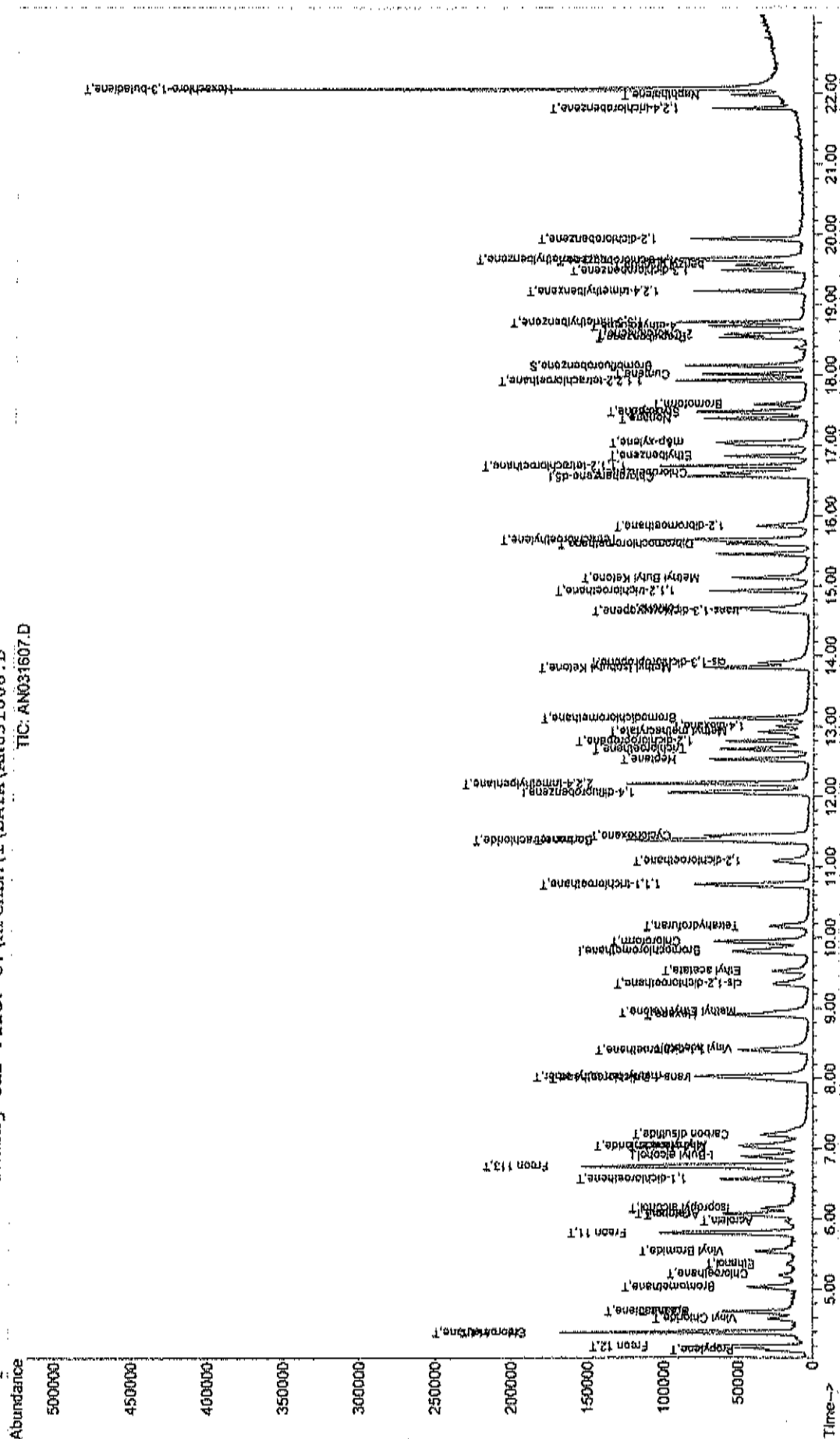
Quant Results File: A316 1UG.RES

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Method      : C:\HPCHEM\1\METHODS\A316_IUG.M (PTE Integrator)
Title       : 70-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 17 10:24:27 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.P

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TIC: AN031607.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031608.D
 Acq On : 16 Mar 2016 10:05 pm
 Sample : A1UG_0.50
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:19:39 2016

Vial: 7
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	36080	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.06	114	113070	1.00	ppb	0.00
50) Chlorobenzene-d5	16.56	117	67747	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.14	95	40075	0.92	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	92.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.14	41	14424	0.53	ppb	# 100
3) Freon 12	4.19	85	76085	0.51	ppb	100
4) Chloromethane	4.39	50	19879	0.53	ppb	98
5) Freon 114	4.39	85	64906	0.51	ppb	98
6) Vinyl Chloride	4.59	62	18499	0.51	ppb	92
7) Butane	4.68	43	21962	0.49	ppb	94
8) 1,3-butadiene	4.69	39	13445	0.49	ppb	69
9) Bromomethane	5.04	94	26274	0.57	ppb	97
10) Chloroethane	5.20	64	8256	0.54	ppb	# 86
11) Ethanol	5.37	45	6117	0.57	ppb	98
12) Acrolein	5.97	56	4983m	0.53	ppb	
13) Vinyl Bromide	5.55	106	22539	0.49	ppb	93
14) Freon 11	5.81	101	78802	0.51	ppb	98
15) Acetone	6.06	58	8424	0.60	ppb	# 75
16) Pentane	6.08	42	17198	0.52	ppb	97
17) Isopropyl alcohol	6.16	45	25607	0.56	ppb	# 46
18) 1,1-dichloroethene	6.56	96	22928	0.50	ppb	89
19) Freon 113	6.75	101	55038	0.50	ppb	95
20) t-Butyl alcohol	6.90	59	42395	0.55	ppb	# 73
21) Methylene chloride	7.05	84	20786	0.51	ppb	96
22) Allyl chloride	7.02	41	17969m	0.52	ppb	
23) Carbon disulfide	7.21	76	57993	0.50	ppb	97
24) trans-1,2-dichloroethene	8.02	61	26856	0.50	ppb	89
25) methyl tert-butyl ether	8.03	73	49652	0.48	ppb	91
26) 1,1-dichloroethane	8.41	63	38652	0.50	ppb	100
27) Vinyl acetate	8.44	43	29273	0.42	ppb	94
28) Methyl Ethyl Ketone	8.96	72	7938	0.48	ppb	# 100
29) cis-1,2-dichloroethene	9.36	61	22605	0.48	ppb	95
30) Hexane	8.91	57	22491	0.47	ppb	97
31) Ethyl acetate	9.54	43	30351	0.48	ppb	86
32) Chloroform	9.95	83	52618	0.51	ppb	100
33) Tetrahydrofuran	10.18	42	14113	0.47	ppb	93
34) 1,2-dichloroethane	11.10	62	29673	0.51	ppb	89
36) 1,1,1-trichloroethane	10.75	97	53522	0.51	ppb	99
37) Cyclohexane	11.44	56	21201	0.49	ppb	90
38) Carbon tetrachloride	11.39	117	54492	0.51	ppb	98
39) Benzene	11.37	78	46262	0.50	ppb	100
40) Methyl methacrylate	12.92	41	13663	0.46	ppb	# 73
41) 1,4-dioxane	13.01	88	13214	0.54	ppb	98
42) 2,2,4-trimethylpentane	12.18	57	78609	0.47	ppb	98
43) Heptane	12.53	43	17641	0.44	ppb	89
44) Trichloroethene	12.67	130	22183	0.50	ppb	99
45) 1,2-dichloropropane	12.79	63	17338	0.52	ppb	96

(#) = qualifier out of range (m) = manual integration

AN031608.D A316_1UG.M

Thu Apr 07 13:05:48 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031608.D
 Acq On : 16 Mar 2016 10:05 pm
 Sample : A1UG_0.50
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:19:39 2016

Vial: 7
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.12	83	41322	0.51	ppb	98
47) cis-1,3-dichloropropene	13.90	75	22010	0.50	ppb	96
48) trans-1,3-dichloropropene	14.64	75	20160	0.51	ppb	93
49) 1,1,2-trichloroethane	14.94	97	18287	0.51	ppb	93
51) Toluene	14.68	92	21106	0.45	ppb	97
52) Methyl Isobutyl Ketone	13.84	43	39767	0.46	ppb	98
53) Dibromochloromethane	15.60	129	29081m	0.50	ppb	
54) Methyl Butyl Ketone	15.12	43	33116m	0.43	ppb	
55) 1,2-dibromoethane	15.85	107	28353	0.50	ppb	97
56) Tetrachloroethylene	15.66	164	19835	0.49	ppb	99
57) Chlorobenzene	16.61	112	29636	0.50	ppb	92
58) 1,1,1,2-tetrachloroethane	16.71	131	22498	0.48	ppb	92
59) Ethylbenzene	16.85	91	36463	0.46	ppb	98
60) m&p-xylene	17.05	91	56232	0.90	ppb	95
61) Nonane	17.38	43	15420	0.42	ppb	94
62) Styrene	17.47	104	18736	0.42	ppb	90
63) Bromoform	17.59	173	14908	0.49	ppb	99
64) o-xylene	17.49	91	37022	0.52	ppb	96
65) Cumene	18.02	105	37321	0.46	ppb	99
67) 1,1,2,2-tetrachloroethane	17.92	83	36610	0.51	ppb	97
68) Propylbenzene	18.53	91	43158m	0.54	ppb	
69) 2-Chlorotoluene	18.58	91	31517m	0.48	ppb	
70) 4-ethyltoluene	18.70	105	35420m	0.50	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	44058m	0.50	ppb	
72) 1,2,4-trimethylbenzene	19.19	105	39698	0.52	ppb	96
73) 1,3-dichlorobenzene	19.49	146	24308	0.47	ppb	97
74) benzyl chloride	19.56	91	36368	0.52	ppb	95
75) 1,4-dichlorobenzene	19.63	146	21600	0.44	ppb	92
76) 1,2,3-trimethylbenzene	19.65	105	48394	0.49	ppb	97
77) 1,2-dichlorobenzene	19.94	146	31844	0.52	ppb	95
78) 1,2,4-trichlorobenzene	21.78	180	22916m	0.48	ppb	
79) Naphthalene	21.98	128	50904m	0.56	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	56244	0.44	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN031608.D A316_1UG.M Thu Apr 07 13:05:49 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN031608.D
Acq On : 16 Mar 2016 10:05 pm
Sample : A1UG 0.50
Misc : A316_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 17 10:15 2016

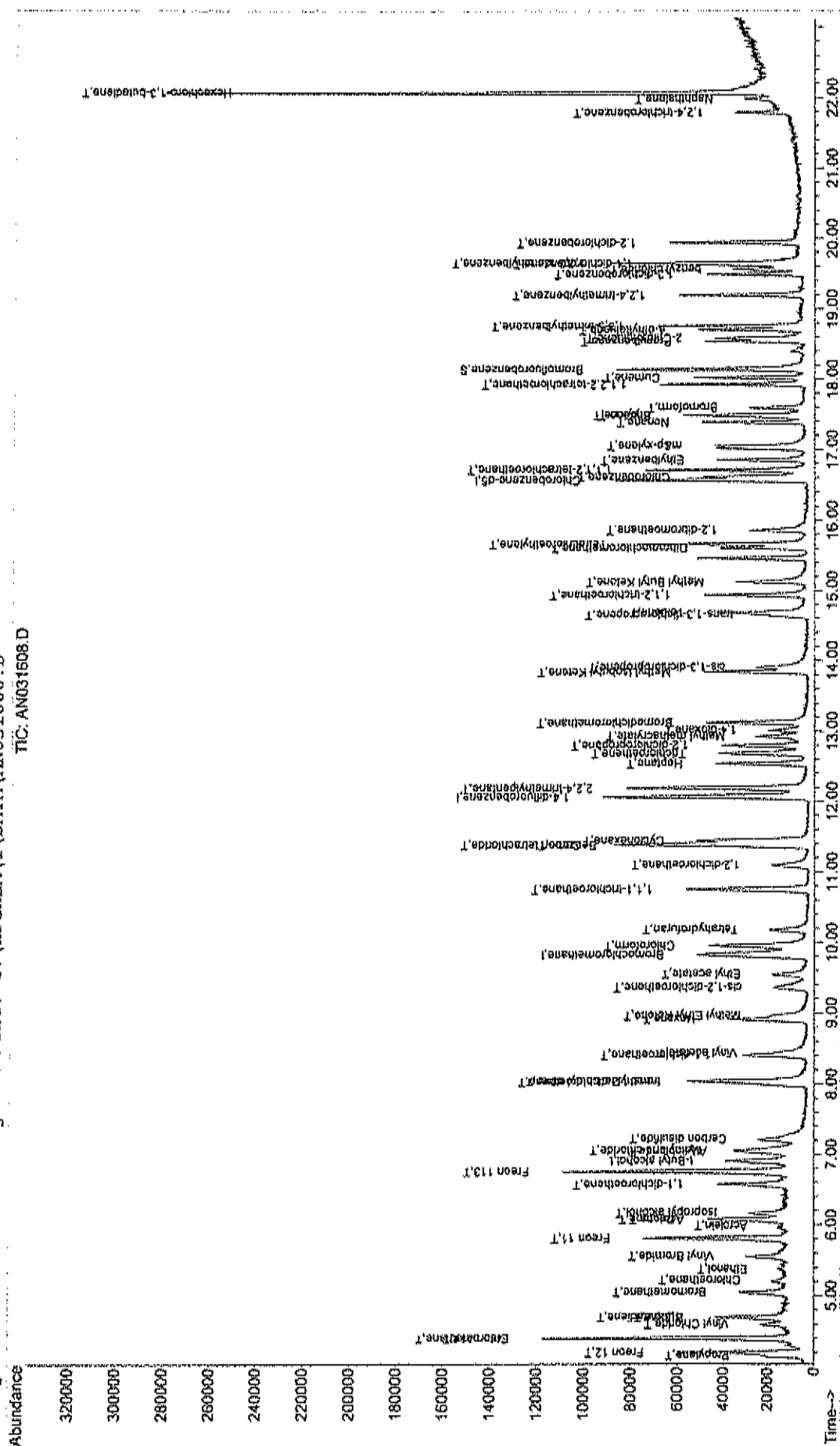
Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316 1UG.RES

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Method      : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 17 10:24:27 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031609.D
 Acq On : 16 Mar 2016 10:42 pm
 Sample : A1UG_0.30
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:19:57 2016

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	34240	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.07	114	107427	1.00	ppb	0.01
50) Chlorobenzene-d5	16.57	117	63070	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Bromofluorobenzene	18.14	95	37922	0.93	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	93.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.14	41	9410	0.37	ppb	# 100
3) Freon 12	4.19	85	48050	0.34	ppb	99
4) Chloromethane	4.40	50	12982	0.37	ppb	94
5) Freon 114	4.39	85	40390	0.33	ppb	98
6) Vinyl Chloride	4.59	62	12065	0.35	ppb	84
7) Butane	4.69	43	15019	0.35	ppb	90
8) 1,3-butadiene	4.69	39	12946	0.49	ppb	87
9) Bromomethane	5.04	94	14575	0.33	ppb	90
10) Chloroethane	5.21	64	5112	0.35	ppb	96
11) Ethanol	5.39	45	4660	0.46	ppb	96
12) Acrolein	5.98	56	3558m	0.40	ppb	
13) Vinyl Bromide	5.55	106	14483	0.33	ppb	94
14) Freon 11	5.80	101	48893	0.33	ppb	98
15) Acetone	6.05	58	4586m	0.35	ppb	
16) Pentane	6.08	42	11517	0.36	ppb	97
17) Isopropyl alcohol	6.16	45	17857	0.41	ppb	# 46
18) 1,1-dichloroethene	6.56	96	14624	0.34	ppb	# 86
19) Freon 113	6.76	101	34250	0.33	ppb	99
20) t-Butyl alcohol	6.91	59	27113	0.37	ppb	# 72
21) Methylene chloride	7.07	84	12304	0.32	ppb	86
22) Allyl chloride	7.03	41	10973m	0.34	ppb	
23) Carbon disulfide	7.21	76	36706	0.34	ppb	97
24) trans-1,2-dichloroethene	8.01	61	16238	0.32	ppb	89
25) methyl tert-butyl ether	8.03	73	31713	0.32	ppb	93
26) 1,1-dichloroethane	8.40	63	22970	0.31	ppb	94
27) Vinyl acetate	8.44	43	20303m	0.31	ppb	
28) Methyl Ethyl Ketone	8.97	72	4817	0.31	ppb	# 100
29) cis-1,2-dichloroethene	9.38	61	13539	0.31	ppb	91
30) Hexane	8.90	57	13020	0.29	ppb	96
31) Ethyl acetate	9.54	43	20202	0.34	ppb	89
32) Chloroform	9.95	83	31612	0.32	ppb	98
33) Tetrahydrofuran	10.18	42	8932	0.32	ppb	93
34) 1,2-dichloroethane	11.10	62	18425	0.33	ppb	87
36) 1,1,1-trichloroethane	10.75	97	32638	0.33	ppb	98
37) Cyclohexane	11.44	56	12156	0.29	ppb	89
38) Carbon tetrachloride	11.39	117	33109	0.32	ppb	98
39) Benzene	11.37	78	27379	0.31	ppb	96
40) Methyl methacrylate	12.93	41	8689	0.31	ppb	# 84
41) 1,4-dioxane	13.03	88	7797	0.34	ppb	95
42) 2,2,4-trimethylpentane	12.19	57	47254	0.30	ppb	99
43) Heptane	12.54	43	10173	0.27	ppb	92
44) Trichloroethene	12.69	130	12806	0.31	ppb	97
45) 1,2-dichloropropane	12.79	63	10394	0.33	ppb	95

(#) = qualifier out of range (m) = manual integration

AN031609.D A316_1UG.M

Thu Apr 07 13:05:52 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031609.D
 Acq On : 16 Mar 2016 10:42 pm
 Sample : A1UG_0.30
 Misc : A316_1UG

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:19:57 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.13	83	24639	0.32	ppb	100
47) cis-1,3-dichloropropene	13.91	75	13399	0.32	ppb	98
48) trans-1,3-dichloropropene	14.64	75	11780	0.31	ppb	93
49) 1,1,2-trichloroethane	14.93	97	11103	0.33	ppb	99
51) Toluene	14.68	92	12431	0.28	ppb	95
52) Methyl Isobutyl Ketone	13.84	43	23225	0.29	ppb	96
53) Dibromochloromethane	15.61	129	15960m	0.29	ppb	
54) Methyl Butyl Ketone	15.12	43	21434m	0.30	ppb	
55) 1,2-dibromoethane	15.86	107	16758	0.32	ppb	94
56) Tetrachloroethylene	15.66	164	11766	0.31	ppb	100
57) Chlorobenzene	16.61	112	16920	0.31	ppb	83
58) 1,1,1,2-tetrachloroethane	16.70	131	13253	0.30	ppb	# 85
59) Ethylbenzene	16.86	91	20219	0.27	ppb	97
60) m&p-xylene	17.02	91	30952	0.53	ppb	97
61) Nonane	17.38	43	8544	0.25	ppb	99
62) Styrene	17.47	104	10322	0.25	ppb	97
63) Bromoform	17.58	173	8523	0.30	ppb	95
64) o-xylene	17.49	91	17375	0.26	ppb	95
65) Cumene	18.02	105	22320	0.29	ppb	96
67) 1,1,2,2-tetrachloroethane	17.92	83	24384	0.36	ppb	98
68) Propylbenzene	18.54	91	27429m	0.37	ppb	
69) 2-Chlorotoluene	18.58	91	17751m	0.29	ppb	
70) 4-ethyltoluene	18.70	105	24157m	0.37	ppb	
71) 1,3,5-trimethylbenzene	18.76	105	28602m	0.35	ppb	
72) 1,2,4-trimethylbenzene	19.19	105	25992	0.37	ppb	94
73) 1,3-dichlorobenzene	19.49	146	15874	0.33	ppb	99
74) benzyl chloride	19.56	91	19958	0.31	ppb	92
75) 1,4-dichlorobenzene	19.62	146	15212	0.33	ppb	96
76) 1,2,3-trimethylbenzene	19.65	105	32866	0.35	ppb	98
77) 1,2-dichlorobenzene	19.94	146	20801	0.36	ppb	96
78) 1,2,4-trichlorobenzene	21.79	180	13610m	0.31	ppb	
79) Naphthalene	22.14	128	30401m	0.36	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	34640	0.29	ppb	93

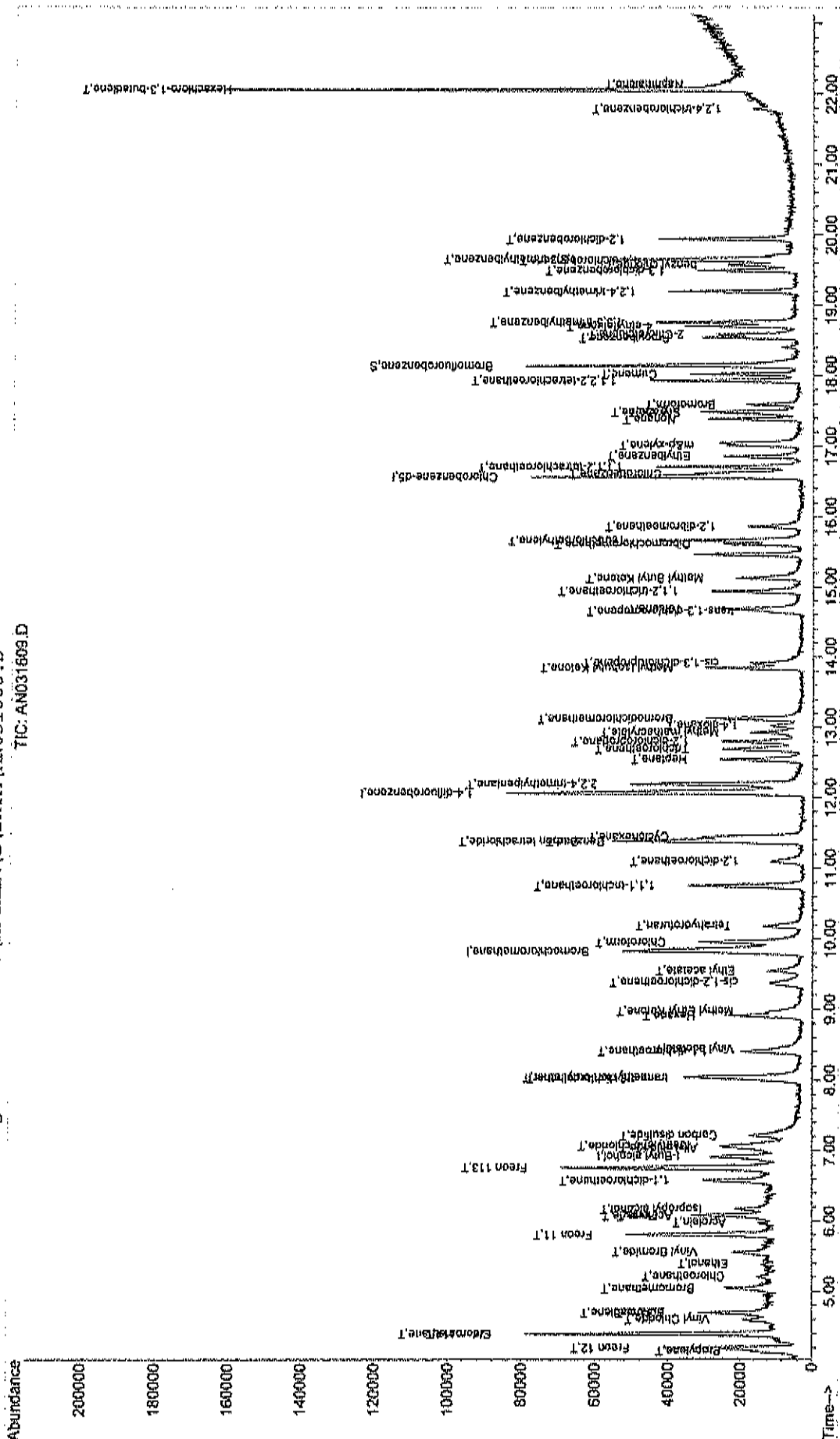
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN031609.D A316_1UG.M Thu Apr 07 13:05:53 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN031609.D
Acq On : 16 Mar 2016 10:42 pm
Sample : A1UG 0.30
Misc : A316_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 17 10:17 2016

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316_1UG.RES

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 17 10:24:27 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031610.D

Vial: 9

Acq On : 16 Mar 2016 11:18 pm

Operator: RJP

Sample : A1UG_0.15

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 17 08:20:22 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 17 08:17:56 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	33400	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.07	114	103197	1.00	ppb	0.01
50) Chlorobenzene-d5	16.57	117	62434	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.14	95	36945	0.92	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	92.00%

Target Compounds

						Qvalue
2) Propylene	4.15	41	5667	0.23	ppb	# 100
3) Freon 12	4.19	85	25710	0.18	ppb	100
4) Chloromethane	4.40	50	7532	0.22	ppb	94
5) Freon 114	4.39	85	21243	0.18	ppb	98
6) Vinyl Chloride	4.59	62	6499	0.19	ppb	85
7) Butane	4.68	43	9555	0.23	ppb	# 84
8) 1,3-butadiene	4.70	39	4728m	0.19	ppb	
9) Bromomethane	5.04	94	8678	0.20	ppb	99
10) Chloroethane	5.22	64	2747	0.19	ppb	# 73
11) Ethanol	5.40	45	2336m	0.24	ppb	
12) Acrolein	5.97	56	1928m	0.22	ppb	
13) Vinyl Bromide	5.55	106	8288	0.19	ppb	97
14) Freon 11	5.81	101	26836	0.19	ppb	100
15) Acetone	6.06	58	2908m	0.22	ppb	
16) Pentane	6.08	42	7007	0.23	ppb	# 74
17) Isopropyl alcohol	6.18	45	9697m	0.23	ppb	
18) 1,1-dichloroethene	6.56	96	7737	0.18	ppb	# 87
19) Freon 113	6.75	101	18520	0.18	ppb	96
20) t-Butyl alcohol	6.91	59	14003	0.19	ppb	# 72
21) Methylene chloride	7.06	84	6447	0.17	ppb	84
22) Allyl chloride	7.06	41	6867m	0.22	ppb	
23) Carbon disulfide	7.21	76	21871	0.20	ppb	100
24) trans-1,2-dichloroethene	8.02	61	8942	0.18	ppb	92
25) methyl tert-butyl ether	8.04	73	16217	0.17	ppb	90
26) 1,1-dichloroethane	8.40	63	12529	0.17	ppb	97
27) Vinyl acetate	8.46	43	11579m	0.18	ppb	
28) Methyl Ethyl Ketone	8.98	72	2686	0.18	ppb	# 100
29) cis-1,2-dichloroethene	9.38	61	6078	0.14	ppb	76
30) Hexane	8.91	57	6897	0.16	ppb	97
31) Ethyl acetate	9.55	43	10831	0.19	ppb	92
32) Chloroform	9.95	83	17226	0.18	ppb	96
33) Tetrahydrofuran	10.20	42	4934	0.18	ppb	98
34) 1,2-dichloroethane	11.10	62	9147	0.17	ppb	87
36) 1,1,1-trichloroethane	10.75	97	16611	0.17	ppb	99
37) Cyclohexane	11.45	56	6376	0.16	ppb	88
38) Carbon tetrachloride	11.39	117	16991	0.17	ppb	97
39) Benzene	11.37	78	14982	0.18	ppb	98
40) Methyl methacrylate	12.94	41	5374	0.20	ppb	97
41) 1,4-dioxane	13.03	88	3369	0.15	ppb	91
42) 2,2,4-trimethylpentane	12.19	57	24737	0.16	ppb	98
43) Heptane	12.54	43	5155	0.14	ppb	94
44) Trichloroethene	12.70	130	6486	0.16	ppb	94
45) 1,2-dichloropropane	12.80	63	5119	0.17	ppb	95

(#)= qualifier out of range (m) = manual integration

AN031610.D A316_1UG.M

Thu Apr 07 13:05:56 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031610.D
 Acq On : 16 Mar 2016 11:18 pm
 Sample : A1UG_0.15
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:20:22 2016

Vial: 9
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.12	83	13275	0.18	ppb	97
47) cis-1,3-dichloropropene	13.91	75	6893	0.17	ppb	96
48) trans-1,3-dichloropropene	14.64	75	6609	0.18	ppb	94
49) 1,1,2-trichloroethane	14.94	97	6109	0.19	ppb	96
51) Toluene	14.68	92	6141	0.14	ppb	89
52) Methyl Isobutyl Ketone	13.85	43	11770	0.15	ppb	98
53) Dibromochloromethane	15.60	129	8932m	0.17	ppb	
54) Methyl Butyl Ketone	15.14	43	10426m	0.15	ppb	
55) 1,2-dibromoethane	15.86	107	9583	0.18	ppb	95
56) Tetrachloroethylene	15.66	164	5857	0.16	ppb	94
57) Chlorobenzene	16.61	112	9263	0.17	ppb	95
58) 1,1,1,2-tetrachloroethane	16.71	131	6442	0.15	ppb	# 68
59) Ethylbenzene	16.85	91	11039	0.15	ppb	97
60) m&p-xylene	17.04	91	16137	0.28	ppb	94
61) Nonane	17.38	43	5031	0.15	ppb	88
62) Styrene	17.46	104	5771	0.14	ppb	87
63) Bromoform	17.58	173	4415	0.16	ppb	96
64) o-xylene	17.48	91	10324	0.16	ppb	100
65) Cumene	18.01	105	14312	0.19	ppb	98
67) 1,1,2,2-tetrachloroethane	17.92	83	15040	0.23	ppb	100
68) Propylbenzene	18.54	91	15476m	0.21	ppb	
69) 2-Chlorotoluene	18.58	91	10441m	0.17	ppb	
70) 4-ethyltoluene	18.70	105	13458m	0.21	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	16481m	0.20	ppb	
72) 1,2,4-trimethylbenzene	19.19	105	15427	0.22	ppb	97
73) 1,3-dichlorobenzene	19.49	146	8974	0.19	ppb	98
74) benzyl chloride	19.56	91	11759	0.18	ppb	94
75) 1,4-dichlorobenzene	19.62	146	7999	0.18	ppb	92
76) 1,2,3-trimethylbenzene	19.65	105	18207m	0.20	ppb	
77) 1,2-dichlorobenzene	19.94	146	13054	0.23	ppb	92
78) 1,2,4-trichlorobenzene	22.06	180	6492m	0.15	ppb	
79) Naphthalene	22.21	128	15909m	0.19	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	18343	0.16	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN031610.D A316_1UG.M Thu Apr 07 13:05:57 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN031610.D
Acq On : 16 Mar 2016 11:18 pm
Sample : A1UG 0.15
Misc : A316_LUG
MS Integration Params: RTEINT.P
Quant Time: Mar 17 10:18 2016

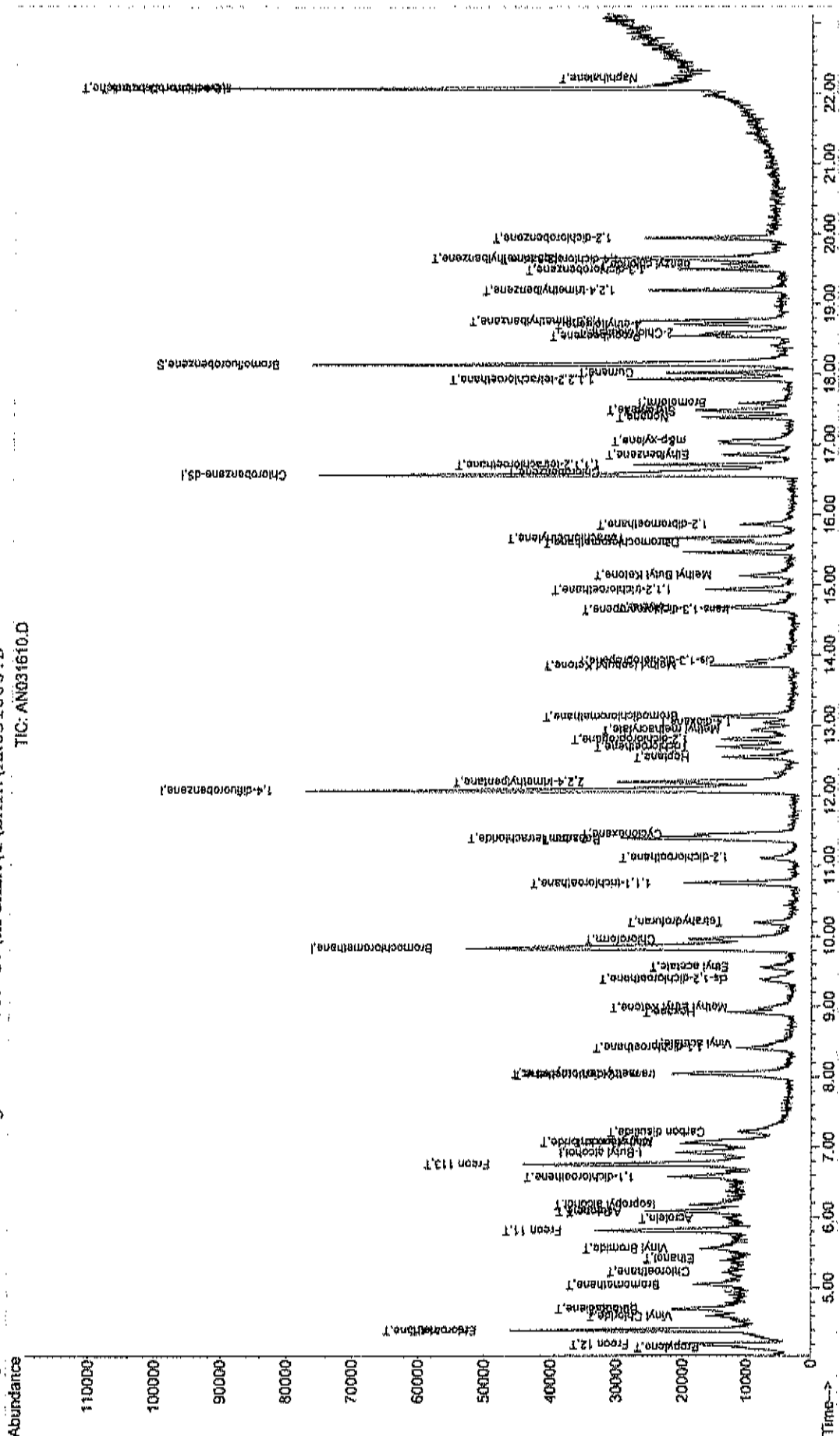
Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A316 1UG RES

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Method      : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 17 10:24:27 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D

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Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031611.D

Vial: 10

Acq On : 16 Mar 2016 11:55 pm

Operator: RJP

Sample : A1UG_0.10

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 17 08:20:37 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 17 08:17:56 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.84	128	36456m ^p	1.00	ppb	0.03
35) 1,4-difluorobenzene	12.08	114	101173	1.00	ppb	0.02
50) Chlorobenzene-d5	16.57	117	65714	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.14	95	39949	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%

Target Compounds

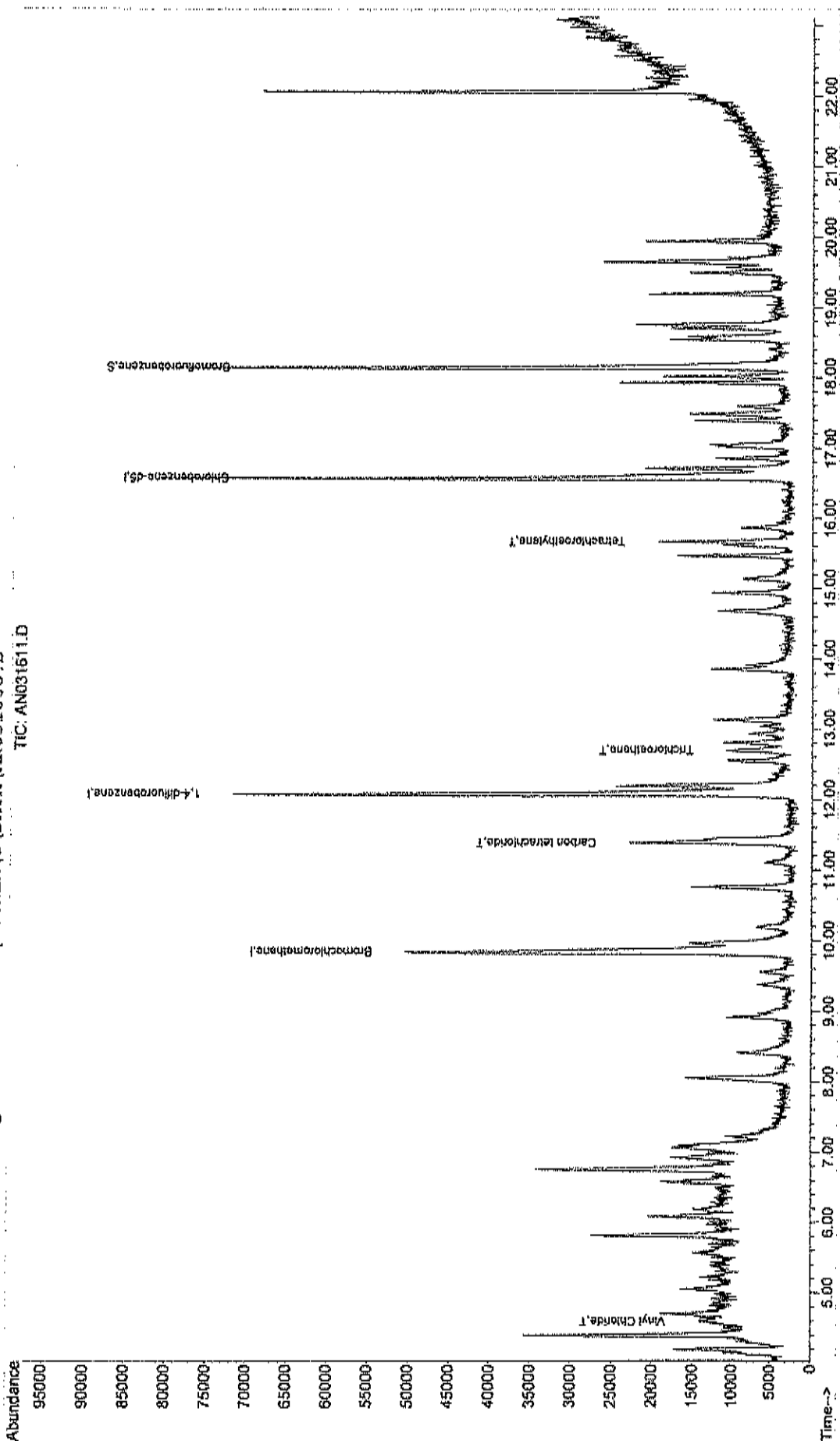
					Qvalue
6) Vinyl Chloride	4.59	62	4562	0.12	ppb 86
38) Carbon tetrachloride	11.38	117	12433	0.13	ppb 99
44) Trichloroethene	12.70	130	4819	0.12	ppb 97
56) Tetrachloroethylene	15.66	164	4679m ^p	0.12	ppb

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN031611.D A316_1UG.M Thu Apr 07 13:06:00 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN031611.D
Acq On : 16 Mar 2016 11:55 pm
Sample : A1UG 0.10
Misc : A316_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 17 10:19 2016
Quant Results File: A316_1UG.RES

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 17 10:24:27 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN031612.D Vial: 11
 Acq On : 17 Mar 2016 12:31 am Operator: RJP
 Sample : A1UG_0.04 Inst : MSD #1
 Misc : A316_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Mar 17 08:20:59 2016 Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 08:17:56 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	35586m / 8	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.07	114	102709	1.00	ppb	0.02
50) Chlorobenzene-d5	16.57	117	61413	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.14	95	36946	0.94	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	94.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Vinyl Chloride	4.59	62	2447	0.07	ppb	93
38) Carbon tetrachloride	11.38	117	6221	0.06	ppb	98
44) Trichloroethene	12.69	130	2436	0.06	ppb	96

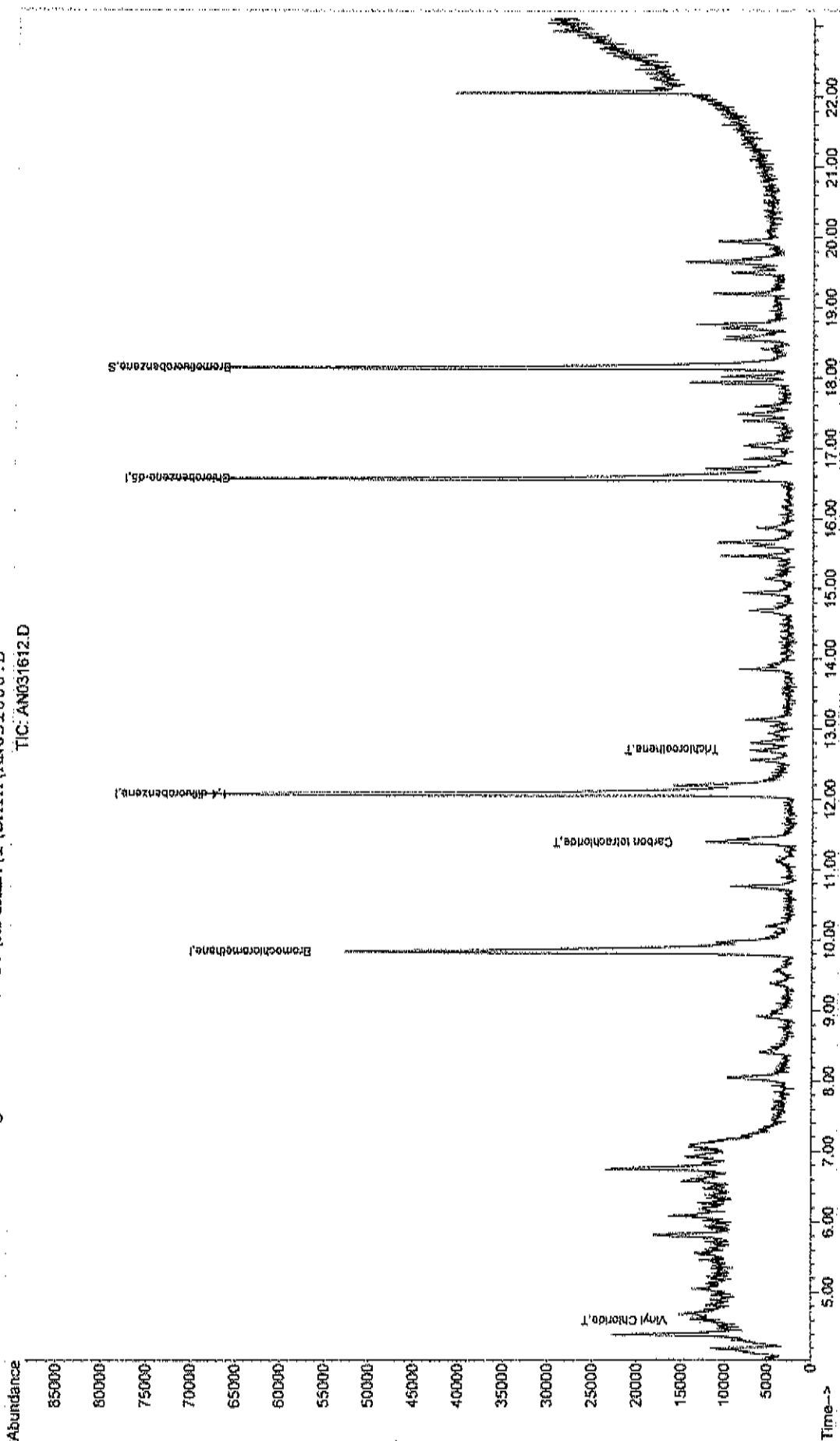
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN031612.D A316_1UG.M Thu Apr 07 13:06:03 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN031612.D
Acq On : 17 Mar 2016 12:31 am
Sample : A1UG 0.04
Misc : A316_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 17 10:21 2016

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316_1UG.RES

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 17 10:24:27 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN031606.D



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Data File : C:\HPCHEM\1\DATA\AN040703.D

Acq On : 7 Apr 2016 10:03 am

Sample : A1UG_1.0

Misc : A316_1UG

MS Integration Params: RTEINT.P

Vial: 37

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed May 11 08:43:37 2016

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	61	0.00
2 T	Propylene	0.810	0.805	0.6	66	0.00
3 T	Freon 12	4.271	5.075	-18.8	75	0.00
4 T	Chloromethane	1.118	1.401	-25.3	84	0.00
5 T	Freon 114	3.598	4.521	-25.7	79	0.00
6 T	Vinyl Chloride	1.125	1.279	-13.7	79	0.00
7 T	Butane	1.285	1.484	-15.5	74	0.00
8 T	1,3-butadiene	0.847	1.071	-26.4	84	0.00
9 T	Bromomethane	1.320	1.564	-18.5	76	0.00
10 T	Chloroethane	0.459	0.554	-20.7	75	0.00
11 T	Ethanol	0.341	0.378	-10.9	72	0.00
12 T	Acrolein	0.290	0.318	-9.7	74	0.00
13 T	Vinyl Bromide	1.298	1.492	-14.9	72	0.00
14 T	Freon 11	4.393	5.436	-23.7	79	0.00
15 T	Acetone	0.432	0.460	-6.5	72	0.00
16 T	Pentane	0.986	1.097	-11.3	73	0.00
17 T	Isopropyl alcohol	1.409	1.314	6.7	64	0.00
18 T	1,1-dichloroethene	1.283	1.424	-11.0	69	0.00
19 T	Freon 113	3.094	3.848	-24.4	77	0.00
20 t	t-Butyl alcohol	2.248	2.268	-0.9	65	0.00
21 T	Methylene chloride	1.124	1.203	-7.0	66	0.00
22 T	Allyl chloride	0.998	1.000	-0.2	68	0.00
23 T	Carbon disulfide	3.316	3.188	3.9	61	0.00
24 T	trans-1,2-dichloroethene	1.522	1.342	11.8	55	0.00
25 T	methyl tert-butyl ether	2.881	2.866	0.5	62	0.00
26 T	1,1-dichloroethane	2.155	2.126	1.3	61	0.00
27 T	Vinyl acetate	1.869	1.320	29.4	48#	0.00
28 T	Methyl Ethyl Ketone	0.461	0.378	18.0	51	0.00
29 T	cis-1,2-dichloroethene	1.250	1.094	12.5	52	0.00
30 T	Hexane	1.308	1.088	16.8	51	0.00
31 T	Ethyl acetate	1.784	1.429	19.9	51	0.00
32 T	Chloroform	2.918	2.832	2.9	61	0.00
33 T	Tetrahydrofuran	0.828	0.712	14.0	53	0.00
34 T	1,2-dichloroethane	1.641	1.477	10.0	57	0.00
35 I	1,4-difluorobenzene	1.000	1.000	0.0	47#	0.00
36 T	1,1,1-trichloroethane	0.939	1.182	-25.9	59	0.00
37 T	Cyclohexane	0.387	0.432	-11.6	52	0.00
38 T	Carbon tetrachloride	1.048	1.337	-27.6	65	0.00
39 T	Benzene	0.832	0.904	-8.7	52	0.00
40 T	Methyl methacrylate	0.271	0.257	5.2	46#	0.00
41 T	1,4-dioxane	0.213	0.242	-13.6	52	0.00
42 T	2,2,4-trimethylpentane	1.453	1.854	-27.6	59	0.00
43 T	Heptane	0.338	0.311	8.0	41#	0.00
44 T	Trichloroethene	0.425	0.445	-4.7	53	0.00
45 T	1,2-dichloropropane	0.300	0.332	-10.7	52	0.00
46 T	Bromodichloromethane	0.734	0.934	-27.2	60	0.00
47 T	cis-1,3-dichloropropene	0.400	0.504	-26.0	61	0.00
48 T	trans-1,3-dichloropropene	0.359	0.403	-12.3	54	0.00
49 T	1,1,2-trichloroethane	0.329	0.369	-12.2	54	0.00

(#)= Out of Range

AN040703.D A316_1UG.M

Wed May 11 08:54:07 2016

MSD1

Page 1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AN040703.D

Vial: 37

Acq On : 7 Apr 2016 10:03 am

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed May 11 08:43:37 2016

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min

Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51 T	Toluene	0.679	0.519	23.6	45#	0.00
52 T	Methyl Isobutyl Ketone	1.201	1.130	5.9	55	0.00
53 T	Dibromochloromethane	0.857	1.020	-19.0	74	0.00
54 T	Methyl Butyl Ketone	1.068	0.865	19.0	46#	0.00
55 T	1,2-dibromoethane	0.845	1.016	-20.2	74	0.00
56 T	Tetrachloroethylene	0.648	0.581	10.3	59	0.00
57 T	Chlorobenzene	0.891	1.042	-16.9	73	0.00
58 T	1,1,1,2-tetrachloroethane	0.666	0.850	-27.6	74	0.00
59 T	Ethylbenzene	1.165	1.273	-9.3	66	0.00
60 T	m&p-xylene	0.925	0.935	-1.1	62	0.00
61 T	Nonane	0.552	0.571	-3.4	64	0.00
62 T	Styrene	0.644	0.731	-13.5	68	0.00
63 T	Bromoform	0.463	1.122	-142.3#	152#	0.00
64 T	o-xylene	1.109	1.184	-6.8	67	0.00
65 T	Cumene	1.299	1.526	-17.5	77	0.00
66 S	Bromofluorobenzene	0.643	0.684	-6.4	65	0.00
67 T	1,1,2,2-tetrachloroethane	1.140	1.469	-28.9	84	0.00
68 T	Propylbenzene	1.379	1.574	-14.1	81	0.00
69 T	2-Chlorotoluene	1.004	1.221	-21.6	77	0.00
70 T	4-ethyltoluene	1.183	1.262	-6.7	73	0.00
71 T	1,3,5-trimethylbenzene	1.416	1.747	-23.4	81	0.00
72 T	1,2,4-trimethylbenzene	1.224	1.277	-4.3	70	0.00
73 T	1,3-dichlorobenzene	0.778	0.951	-22.2	76	0.00
74 T	benzyl chloride	1.110	1.000	9.9	50#	0.00
75 T	1,4-dichlorobenzene	0.733	0.798	-8.9	67	0.00
76 T	1,2,3-trimethylbenzene	1.510	1.652	-9.4	68	0.00
77 T	1,2-dichlorobenzene	0.954	1.195	-25.3	80	0.00
78 T	1,2,4-trichlorobenzene	0.720	0.768	-6.7	69	0.00
79 T	Naphthalene	1.494	1.268	15.1	59	0.00
80 T	Hexachloro-1,3-butadiene	1.754	3.363	-91.7#	108	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

AN040703.D A316_1UG.M

Wed May 11 08:54:08 2016

MSD1

Page 2

Data File : C:\HPCHEM\1\DATA\AN040703.D

Vial: 37

Acq On : 7 Apr 2016 10:03 am

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 07 10:27:16 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 17 10:24:27 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.82	128	22421m	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.05	114	52552m	1.00	ppb	0.00
50) Chlorobenzene-d5	16.57	117	37567	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.14	95	25699	1.06	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%

Target Compounds

						Qvalue
2) Propylene	4.15	41	18047	0.99	ppb	# 100
3) Freon 12	4.19	85	113791	1.19	ppb	100
4) Chloromethane	4.40	50	31417m	1.25	ppb	
5) Freon 114	4.39	85	101357	1.26	ppb	98
6) Vinyl Chloride	4.60	62	28678	1.14	ppb	91
7) Butane	4.68	43	33279	1.15	ppb	97
8) 1,3-butadiene	4.69	39	24016	1.27	ppb	89
9) Bromomethane	5.04	94	35075	1.19	ppb	99
10) Chloroethane	5.21	64	12421	1.21	ppb	91
11) Ethanol	5.39	45	8464	1.11	ppb	# 72
12) Acrolein	5.98	56	7128	1.10	ppb	# 5
13) Vinyl Bromide	5.54	106	33454	1.15	ppb	99
14) Freon 11	5.81	101	121889	1.24	ppb	99
15) Acetone	6.07	58	10310	1.06	ppb	# 85
16) Pentane	6.08	42	24604	1.11	ppb	88
17) Isopropyl alcohol	6.18	45	29451	0.93	ppb	# 46
18) 1,1-dichloroethene	6.56	96	31918	1.11	ppb	# 88
19) Freon 113	6.75	101	86277	1.24	ppb	97
20) t-Butyl alcohol	6.92	59	50850	1.01	ppb	# 70
21) Methylene chloride	7.06	84	26983	1.07	ppb	90
22) Allyl chloride	7.03	41	22413m	1.00	ppb	
23) Carbon disulfide	7.21	76	71471	0.96	ppb	98
24) trans-1,2-dichloroethene	8.01	61	30087	0.88	ppb	92
25) methyl tert-butyl ether	8.04	73	64257	0.99	ppb	90
26) 1,1-dichloroethane	8.40	63	47663	0.99	ppb	99
27) Vinyl acetate	8.45	43	29602	0.71	ppb	96
28) Methyl Ethyl Ketone	8.96	72	8477	0.82	ppb	# 100
29) cis-1,2-dichloroethene	9.35	61	24519	0.87	ppb	91
30) Hexane	8.90	57	24402	0.83	ppb	97
31) Ethyl acetate	9.54	43	32043	0.80	ppb	94
32) Chloroform	9.95	83	63500	0.97	ppb	99
33) Tetrahydrofuran	10.17	42	15961	0.86	ppb	87
34) 1,2-dichloroethane	11.09	62	33114	0.90	ppb	88
36) 1,1,1-trichloroethane	10.75	97	62121m	1.26	ppb	
37) Cyclohexane	11.44	56	22725	1.12	ppb	# 81
38) Carbon tetrachloride	11.39	117	70284m	1.28	ppb	
39) Benzene	11.37	78	47504	1.09	ppb	95
40) Methyl methacrylate	12.93	41	13480	0.95	ppb	# 80
41) 1,4-dioxane	13.02	88	12708	1.14	ppb	98
42) 2,2,4-trimethylpentane	12.19	57	97410	1.28	ppb	94
43) Heptane	12.53	43	16332	0.92	ppb	89
44) Trichloroethene	12.68	130	23385	1.05	ppb	98
45) 1,2-dichloropropane	12.79	63	17428	1.11	ppb	100

(#)=qualifier out of range (m)=manual integration

AN040703.D A316_1UG.M

Wed May 11 08:54:13 2016

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AN040703.D
 Acq On : 7 Apr 2016 10:03 am
 Sample : A1UG_1.0
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Apr 07 10:27:16 2016

Vial: 37
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 10:24:27 2016
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.11	83	49109	1.27	ppb	99
47) cis-1,3-dichloropropene	13.90	75	26475	1.26	ppb	97
48) trans-1,3-dichloropropene	14.65	75	21155m	1.12	ppb	
49) 1,1,2-trichloroethane	14.93	97	19404m	1.12	ppb	
51) Toluene	14.68	92	19482	0.76	ppb	89
52) Methyl Isobutyl Ketone	13.84	43	42469	0.94	ppb	97
53) Dibromochloromethane	15.60	129	38323m	1.19	ppb	
54) Methyl Butyl Ketone	15.13	43	32504m	0.81	ppb	
55) 1,2-dibromoethane	15.85	107	38165	1.20	ppb	94
56) Tetrachloroethylene	15.65	164	21812	0.90	ppb	97
57) Chlorobenzene	16.61	112	39158	1.17	ppb	89
58) 1,1,1,2-tetrachloroethane	16.70	131	31922m	1.28	ppb	
59) Ethylbenzene	16.85	91	47833	1.09	ppb	98
60) m&p-xylene	17.04	91	70265	2.02	ppb	96
61) Nonane	17.38	43	21450	1.03	ppb	99
62) Styrene	17.46	104	27448	1.13	ppb	92
63) Bromoform	17.58	173	42164	2.43	ppb	97
64) o-xylene	17.48	91	44471m	1.07	ppb	
65) Cumene	18.02	105	57328	1.17	ppb	96
67) 1,1,2,2-tetrachloroethane	17.92	83	55187	1.29	ppb	97
68) Propylbenzene	18.54	91	59114m	1.14	ppb	
69) 2-Chlorotoluene	18.58	91	45886m	1.22	ppb	
70) 4-ethyltoluene	18.70	105	47418m	1.07	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	65645m	1.23	ppb	
72) 1,2,4-trimethylbenzene	19.19	105	47968	1.04	ppb	91
73) 1,3-dichlorobenzene	19.49	146	35716	1.22	ppb	97
74) benzyl chloride	19.57	91	37553	0.90	ppb	91
75) 1,4-dichlorobenzene	19.62	146	29979	1.09	ppb	93
76) 1,2,3-trimethylbenzene	19.65	105	62056	1.09	ppb	94
77) 1,2-dichlorobenzene	19.94	146	44902	1.25	ppb	92
78) 1,2,4-trichlorobenzene	21.79	180	28863m	1.07	ppb	
79) Naphthalene	22.14	128	47631m	0.85	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	126350	1.92	ppb	96

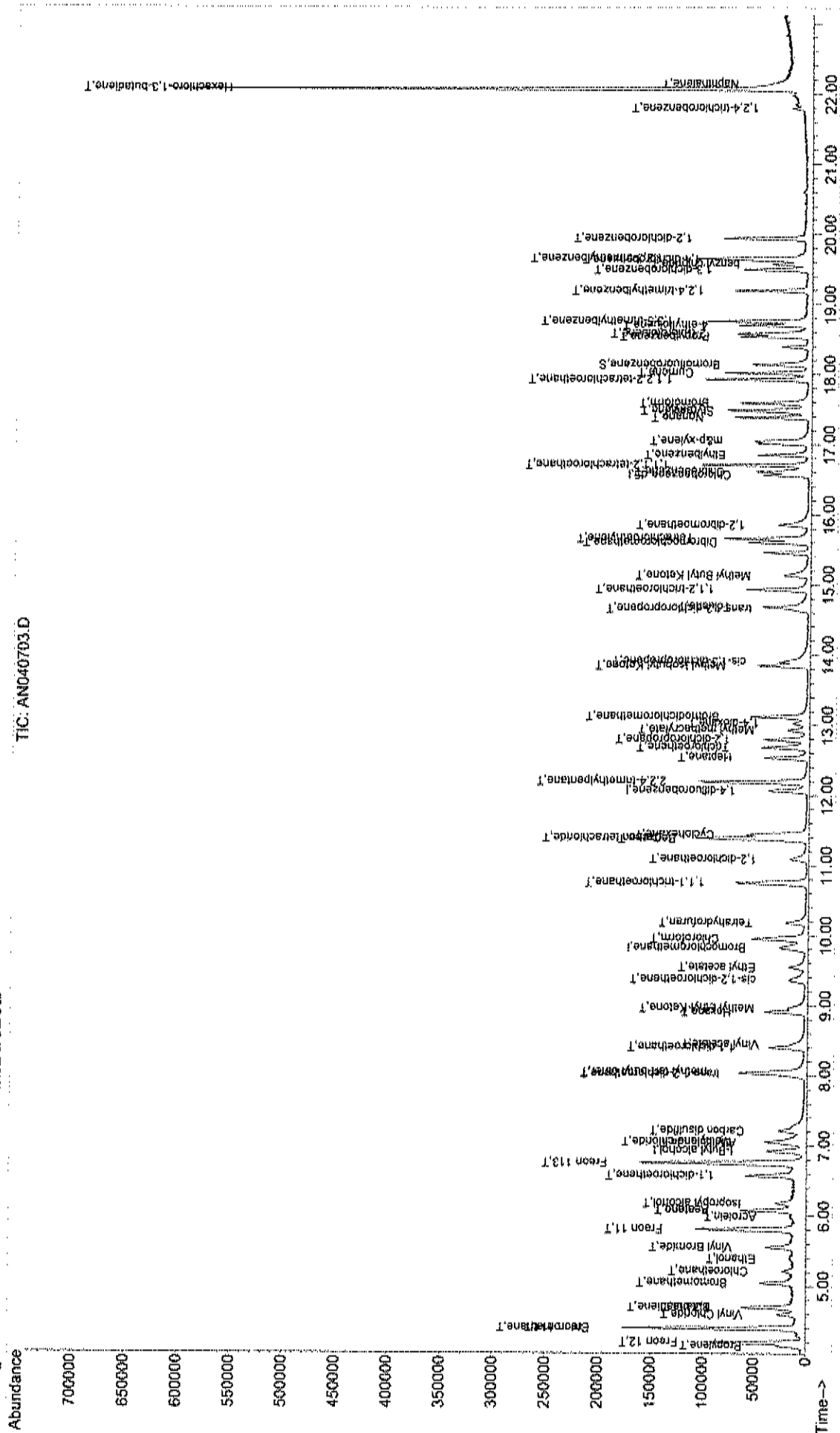
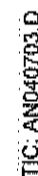
Data File : C:\HPCHEM\1\DATA\AN040703.D
Acq On : 7 Apr 2016 10:03 am
Sample : ALUG_1.0
Misc : A316_LUG
MS Integration Params: RTEINT.P
Quant Time: Apr 7 10:28 2016

Quant Results File: A316 1UG.RES

```

Method      : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Wed May 11 08:43:39 2016
Response via : Initial Calibration

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AN040703.D A316_IUG.M Wed May 11 08:54:15 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN040805.D

Vial: 5

Acq On : 8 Apr 2016 4:12 pm

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Apr 27 10:36:04 2016

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.15
2 T	Propylene	0.810	0.615	24.1	76	0.00
3 T	Freon 12	4.271	3.726	12.8	84	0.00
4 T	Chloromethane	1.118	0.972	13.1	88	0.00
5 T	Freon 114	3.598	3.241	9.9	85	0.00
6 T	Vinyl Chloride	1.125	0.803	28.6	75	0.00
7 T	Butane	1.285	0.952	25.9	72	0.00
8 T	1,3-butadiene	0.847	0.608	28.2	72	0.00
9 T	Bromomethane	1.320	1.105	16.3	81	0.00
10 T	Chloroethane	0.459	0.349	24.0	71	0.00
11 T	Ethanol	0.341	0.287	15.8	83	0.02
12 T	Acrolein	0.290	0.258	11.0	92	0.01
13 T	Vinyl Bromide	1.298	1.096	15.6	80	0.00
14 T	Freon 11	4.393	3.855	12.2	84	0.00
15 T	Acetone	0.432	0.332	23.1	79	0.02
16 T	Pentane	0.986	0.699	29.1	70	0.00
17 T	Isopropyl alcohol	1.409	1.003	28.8	74	0.01
18 T	1,1-dichloroethene	1.283	1.043	18.7	77	0.00
19 T	Freon 113	3.094	3.022	2.3	92	0.00
20 t	t-Butyl alcohol	2.248	1.813	19.4	79	0.02
21 T	Methylene chloride	1.124	0.981	12.7	81	0.00
22 T	Allyl chloride	0.998	0.710	28.9	73	0.00
23 T	Carbon disulfide	3.316	2.558	22.9	75	0.00
24 T	trans-1,2-dichloroethene	1.522	1.148	24.6	71	0.01
25 T	methyl tert-butyl ether	2.881	2.076	27.9	68	0.00
26 T	1,1-dichloroethane	2.155	1.630	24.4	71	0.00
27 T	Vinyl acetate	1.869	1.750	6.4	96	0.02
28 T	Methyl Ethyl Ketone	0.461	0.350	24.1	72	0.00
29 T	cis-1,2-dichloroethene	1.250	0.911	27.1	66	0.01
30 T	Hexane	1.308	0.936	28.4	66	0.00
31 T	Ethyl acetate	1.784	1.292	27.6	70	0.02
32 T	Chloroform	2.918	2.247	23.0	73	0.00
33 T	Tetrahydrofuran	0.828	0.586	29.2	67	0.01
34 T	1,2-dichloroethane	1.641	1.188	27.6	69	0.00
35 I	1,4-difluorobenzene	1.000	1.000	0.0	74	0.00
36 T	1,1,1-trichloroethane	0.939	0.960	-2.2	77	0.00
37 T	Cyclohexane	0.387	0.326	15.8	63	0.00
38 T	Carbon tetrachloride	1.048	1.073	-2.4	83	-0.01
39 T	Benzene	0.832	0.738	11.3	67	0.00
40 T	Methyl methacrylate	0.271	0.194	28.4	55	0.00
41 T	1,4-dioxane	0.213	0.218	-2.3	75	0.00
42 T	2,2,4-trimethylpentane	1.453	1.379	5.1	69	0.00
43 T	Heptane	0.338	0.241	28.7	50	0.00
44 T	Trichloroethene	0.425	0.410	3.5	78	0.01
45 T	1,2-dichloropropane	0.300	0.253	15.7	63	0.00
46 T	Bromodichloromethane	0.734	0.718	2.2	74	0.00
47 T	cis-1,3-dichloropropene	0.400	0.389	2.8	75	0.00
48 T	trans-1,3-dichloropropene	0.359	0.363	-1.1	78	0.00
49 T	1,1,2-trichloroethane	0.329	0.364	-10.6	85	0.00

(#)= Out of Range

AN040805.D A316_1UG.M

Fri May 13 11:53:16 2016

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AN040805.D
 Acq On : 8 Apr 2016 4:12 pm
 Sample : A1UG_1.0
 Misc : A316_1UG
 MS Integration Params: RTEINT.P

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Apr 27 10:36:04 2016
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51 T	Toluene	0.679	0.478	29.6	67	0.00
52 T	Methyl Isobutyl Ketone	1.201	0.896	25.4	70	0.00
53 T	Dibromochloromethane	0.857	0.804	6.2	94	0.00
54 T	Methyl Butyl Ketone	1.068	0.766	28.3	66	0.00
55 T	1,2-dibromoethane	0.845	0.813	3.8	96	0.00
56 T	Tetrachloroethylene	0.648	0.507	21.8	83	0.00
57 T	Chlorobenzene	0.891	0.814	8.6	92	0.00
58 T	1,1,1,2-tetrachloroethane	0.666	0.688	-3.3	98	0.00
59 T	Ethylbenzene	1.165	0.879	24.5	74	0.00
60 T	m&p-xylene	0.925	0.681	26.4	73	0.00
61 T	Nonane	0.552	0.423	23.4	77	0.00
62 T	Styrene	0.644	0.544	15.5	82	0.00
63 T	Bromoform	0.463	0.981	-111.9#	215#	0.00
64 T	o-xylene	1.109	0.825	25.6	75	0.00
65 T	Cumene	1.299	1.092	15.9	90	0.00
66 S	Bromofluorobenzene	0.643	0.656	-2.0	101	0.00
67 T	1,1,2,2-tetrachloroethane	1.140	1.045	8.3	97	0.00
68 T	Propylbenzene	1.379	1.135	17.7	95	0.00
69 T	2-Chlorotoluene	1.004	0.862	14.1	89	0.00
70 T	4-ethyltoluene	1.183	0.940	20.5	89	0.00
71 T	1,3,5-trimethylbenzene	1.416	1.284	9.3	97	0.00
72 T	1,2,4-trimethylbenzene	1.224	0.968	20.9	86	0.00
73 T	1,3-dichlorobenzene	0.778	0.773	0.6	100	0.00
74 T	benzyl chloride	1.110	0.788	29.0	64	0.00
75 T	1,4-dichlorobenzene	0.733	0.675	7.9	92	0.00
76 T	1,2,3-trimethylbenzene	1.510	1.311	13.2	88	0.00
77 T	1,2-dichlorobenzene	0.954	0.955	-0.1	104	0.00
78 T	1,2,4-trichlorobenzene	0.720	0.785	-9.0	114	0.00
79 T	Naphthalene	1.494	1.395	6.6	105	0.00
80 T	Hexachloro-1,3-butadiene	1.754	3.749	-113.7#	196#	0.00

Data File : C:\HPCHEM\1\DATA\AN040805.D

Vial: 5

Acq On : 8 Apr 2016 4:12 pm

Operator: RJP

Sample : A1UG 1.0

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 08 16:35:25 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.81	128	33933	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.05	114	83484	1.00	ppb	0.00
50) Chlorobenzene-d5	16.56	117	60983	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.13	95	40009	1.02	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	102.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.13	41	20860m	0.76	ppb	
3) Freon 12	4.18	85	126444	0.87	ppb	100
4) Chloromethane	4.39	50	32996	0.87	ppb	94
5) Freon 114	4.38	85	109986	0.90	ppb	91
6) Vinyl Chloride	4.58	62	27244	0.71	ppb	94
7) Butane	4.68	43	32315	0.74	ppb	98
8) 1,3-butadiene	4.68	39	20627	0.72	ppb	76
9) Bromomethane	5.03	94	37482	0.84	ppb	91
10) Chloroethane	5.19	64	11846	0.76	ppb	95
11) Ethanol	5.38	45	9742	0.84	ppb	# 60
12) Acrolein	5.96	56	8760	0.89	ppb	# 5
13) Vinyl Bromide	5.54	106	37192	0.84	ppb	96
14) Freon 11	5.79	101	130798	0.88	ppb	98
15) Acetone	6.05	58	11273	0.77	ppb	# 83
16) Pentane	6.07	42	23722	0.71	ppb	97
17) Isopropyl alcohol	6.16	45	34032m	0.71	ppb	
18) 1,1-dichloroethene	6.56	96	35403	0.81	ppb	# 85
19) Freon 113	6.74	101	102530	0.98	ppb	98
20) t-Butyl alcohol	6.90	59	61509	0.81	ppb	# 72
21) Methylene chloride	7.04	84	33272	0.87	ppb	97
22) Allyl chloride	7.02	41	24079m	0.71	ppb	
23) Carbon disulfide	7.20	76	86804	0.77	ppb	# 72
24) trans-1,2-dichloroethene	8.00	61	38967m	0.75	ppb	
25) methyl tert-butyl ether	8.02	73	70454	0.72	ppb	92
26) 1,1-dichloroethane	8.39	63	55307	0.76	ppb	97
27) Vinyl acetate	8.43	43	59395m	0.94	ppb	
28) Methyl Ethyl Ketone	8.94	72	11885	0.76	ppb	# 100
29) cis-1,2-dichloroethene	9.35	61	30909m	0.73	ppb	
30) Hexane	8.89	57	31750m	0.72	ppb	
31) Ethyl acetate	9.53	43	43850m	0.72	ppb	
32) Chloroform	9.93	83	76233	0.77	ppb	97
33) Tetrahydrofuran	10.17	42	19887m	0.71	ppb	
34) 1,2-dichloroethane	11.08	62	40324m	0.72	ppb	
36) 1,1,1-trichloroethane	10.74	97	80185	1.02	ppb	99
37) Cyclohexane	11.43	56	27208	0.84	ppb	# 79
38) Carbon tetrachloride	11.38	117	89605	1.02	ppb	98
39) Benzene	11.36	78	61599	0.89	ppb	91
40) Methyl methacrylate	12.91	41	16171	0.72	ppb	# 63
41) 1,4-dioxane	13.00	88	18164	1.02	ppb	95
42) 2,2,4-trimethylpentane	12.17	57	115089	0.95	ppb	97
43) Heptane	12.52	43	20129m	0.71	ppb	
44) Trichloroethene	12.68	130	34245	0.97	ppb	94
45) 1,2-dichloropropane	12.78	63	21109	0.84	ppb	97

(#) = qualifier out of range (m) = manual integration

AN040805.D A316_1UG.M

Fri May 13 11:53:21 2016

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AN040805.D

Vial: 5

Acq On : 8 Apr 2016 4:12 pm

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 08 16:35:25 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.11	83	59969	0.98	ppb	98
47) cis-1,3-dichloropropene	13.90	75	32448	0.97	ppb	89
48) trans-1,3-dichloropropene	14.62	75	30306	1.01	ppb	91
49) 1,1,2-trichloroethane	14.92	97	30385	1.10	ppb	99
51) Toluene	14.67	92	29155m	0.70	ppb	
52) Methyl Isobutyl Ketone	13.83	43	54652	0.75	ppb	97
53) Dibromochloromethane	15.60	129	49022m	0.94	ppb	
54) Methyl Butyl Ketone	15.11	43	46730m	0.72	ppb	
55) 1,2-dibromoethane	15.85	107	49564	0.96	ppb	96
56) Tetrachloroethylene	15.65	164	30906	0.78	ppb	99
57) Chlorobenzene	16.60	112	49660	0.91	ppb	83
58) 1,1,1,2-tetrachloroethane	16.70	131	41944	1.03	ppb	96
59) Ethylbenzene	16.84	91	53624	0.75	ppb	96
60) m&p-xylene	17.04	91	83098	1.47	ppb	93
61) Nonane	17.38	43	25782m	0.77	ppb	
62) Styrene	17.46	104	33183	0.84	ppb	84
63) Bromoform	17.58	173	59829	2.12	ppb	99
64) o-xylene	17.48	91	50303m	0.74	ppb	
65) Cumene	18.01	105	66563	0.84	ppb	97
67) 1,1,2,2-tetrachloroethane	17.92	83	63752	0.92	ppb	98
68) Propylbenzene	18.53	91	69208m	0.82	ppb	
69) 2-Chlorotoluene	18.58	91	52566m	0.86	ppb	
70) 4-ethyltoluene	18.70	105	57296m	0.79	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	78282m	0.91	ppb	
72) 1,2,4-trimethylbenzene	19.19	105	59060	0.79	ppb	91
73) 1,3-dichlorobenzene	19.48	146	47120	0.99	ppb	93
74) benzyl chloride	19.56	91	48059m	0.71	ppb	
75) 1,4-dichlorobenzene	19.61	146	41178	0.92	ppb	96
76) 1,2,3-trimethylbenzene	19.64	105	79933	0.87	ppb	91
77) 1,2-dichlorobenzene	19.93	146	58263	1.00	ppb	92
78) 1,2,4-trichlorobenzene	21.78	180	47885m	1.09	ppb	
79) Naphthalene	21.97	128	85053m	0.93	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	228619	2.14	ppb	96

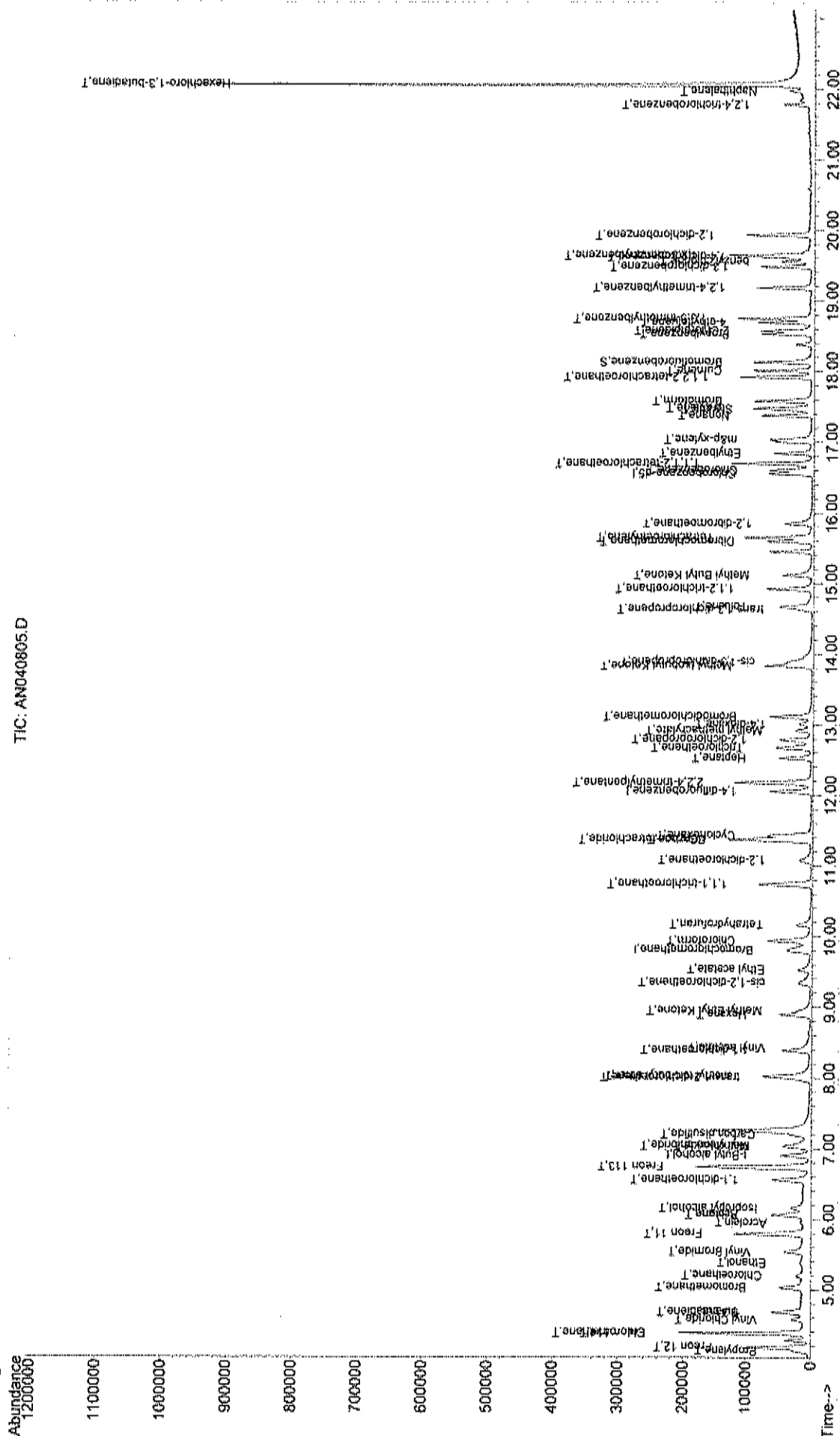
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AN040805.D A316_1UG.M Fri May 13 11:53:22 2016 MSD1

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316 IUG.FEES

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Method      : C:\HPCHEM\1\METHODS\A316_1UG.M (PTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 27 10:36:04 2016
Response via : Initial Calibration
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TIC: A#040805.D



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AN031601.D

Acq On : 16 Mar 2016 5:26 pm

Sample : BFB1UG

Misc : A316_1UG

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

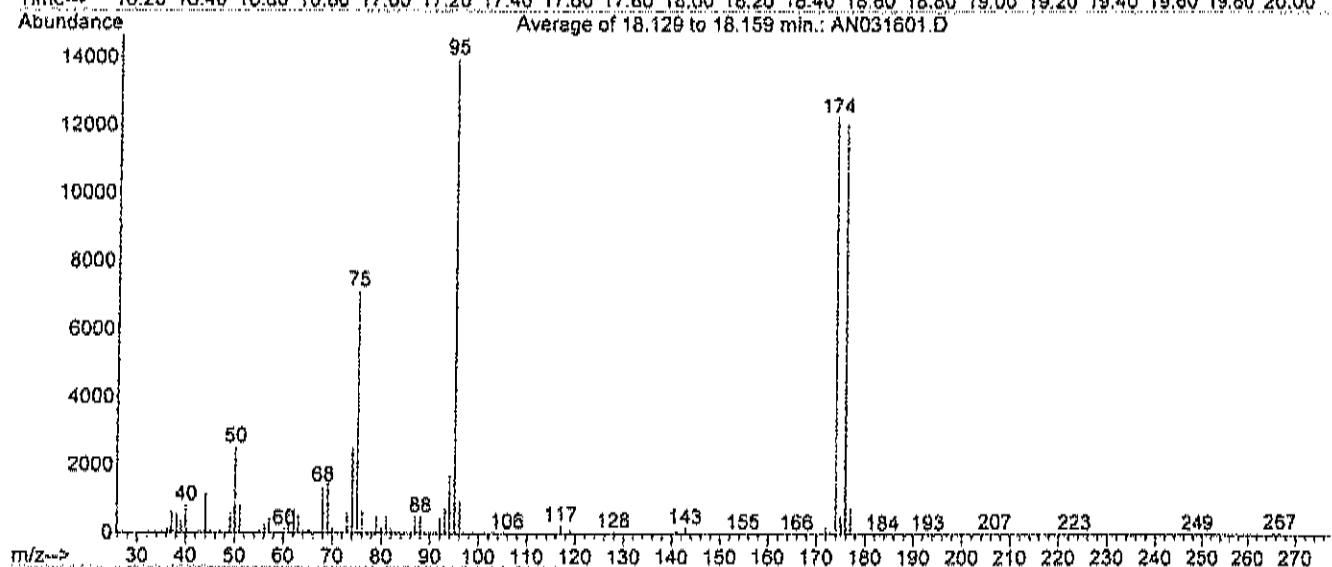
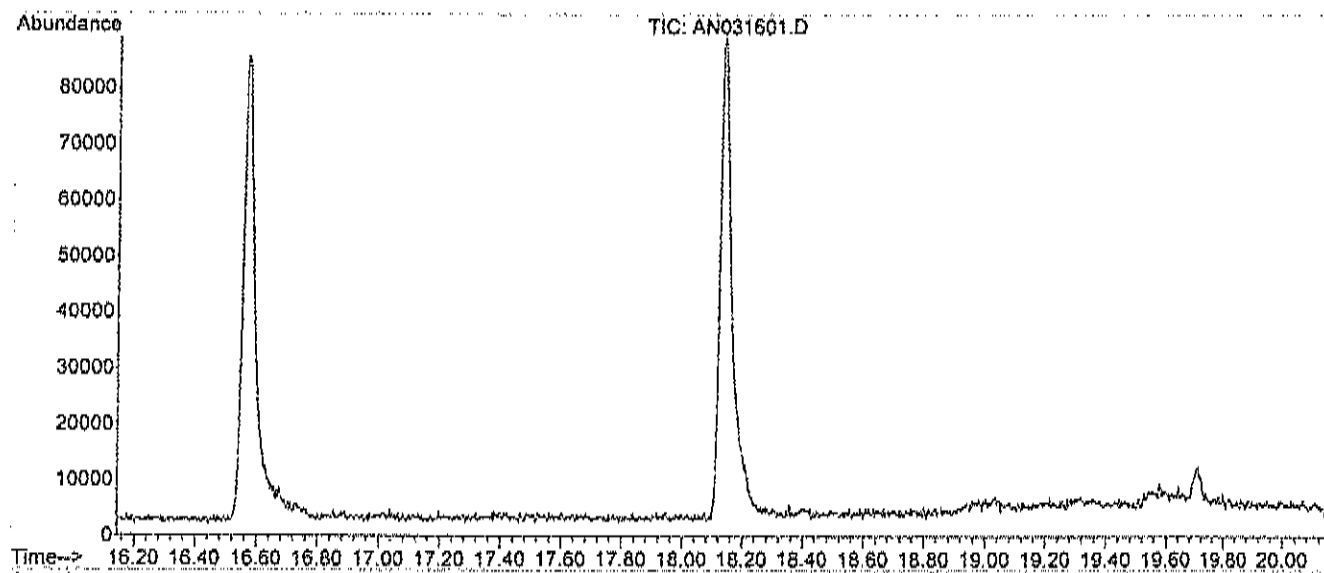
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1

Operator: RJP

Inst : MSD #1

Multiplier: 1.00



Spectrum Information: Average of 18.129 to 18.159 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.0	2513	PASS
75	95	30	66	51.1	7135	PASS
95	95	100	100	100.0	13975	PASS
96	95	5	9	6.7	936	PASS
173	174	0.00	2	0.6	79	PASS
174	95	50	120	87.9	12278	PASS
175	174	4	9	4.1	498	PASS
176	174	95	101	98.5	12090	PASS
177	176	5	9	6.9	829	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AN040701.D

Vial: 35

Acq On : 7 Apr 2016 8:42 am

Operator: RJP

Sample : BFB1UG

Inst : MSD #1

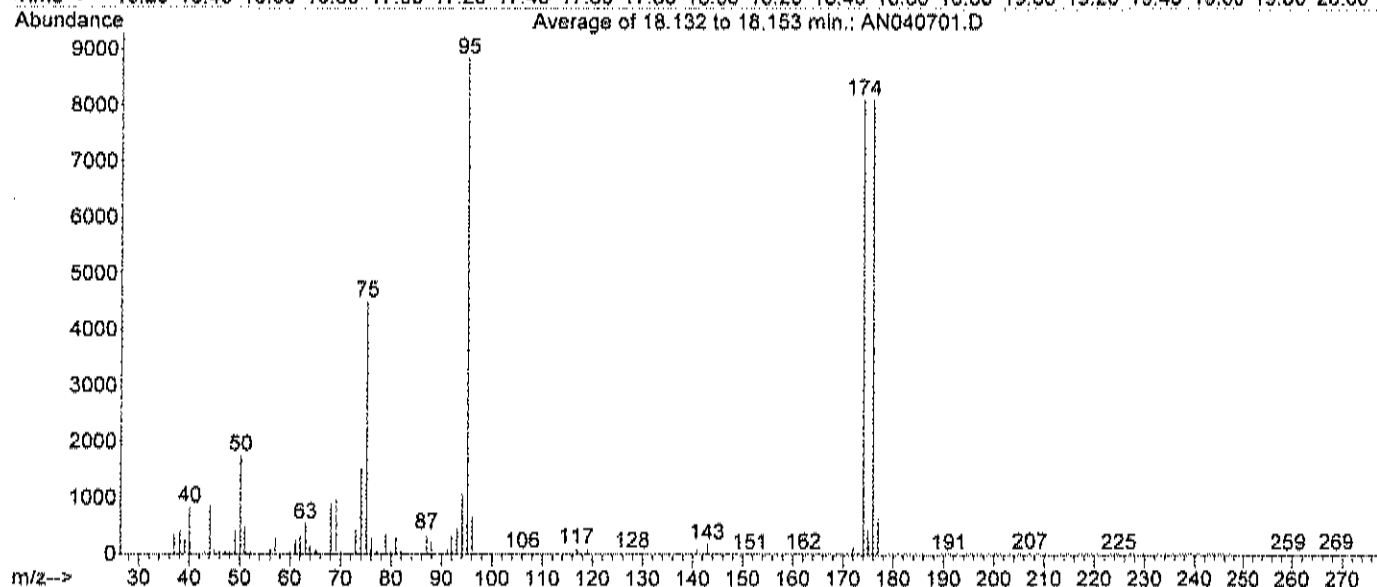
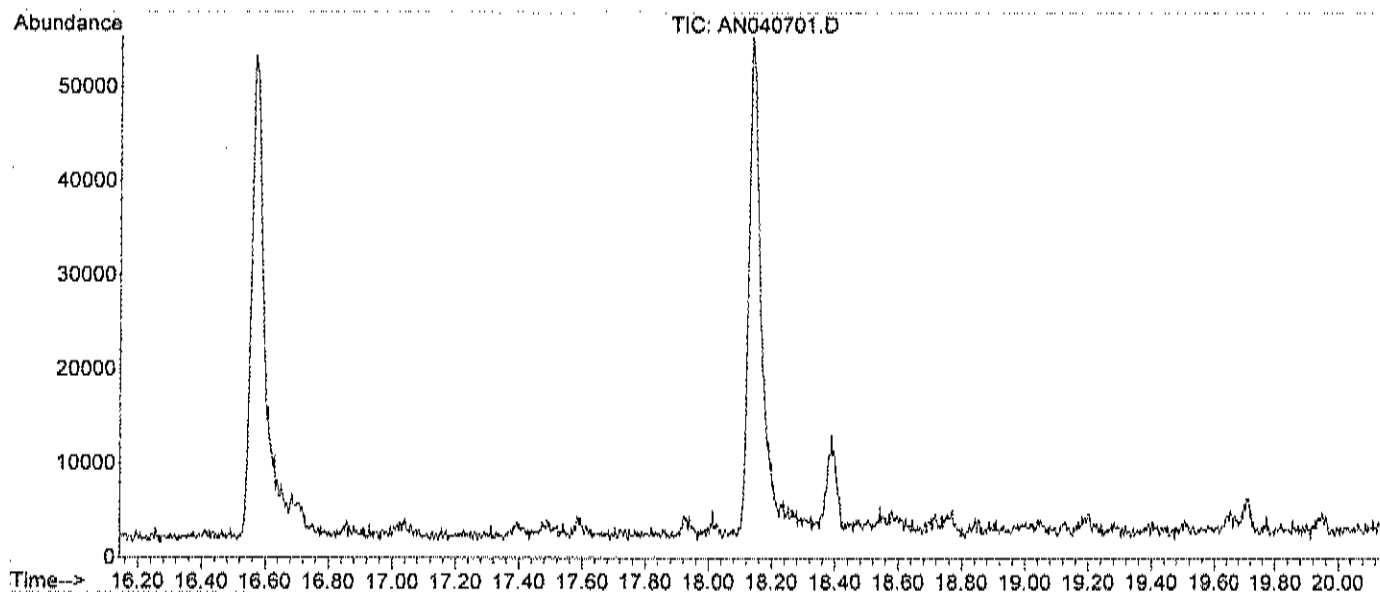
Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 18.132 to 18.153 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.8	1755	PASS
75	95	30	66	51.0	4510	PASS
95	95	100	100	100.0	8846	PASS
96	95	5	9	7.5	661	PASS
173	174	0.00	2	0.4	29	PASS
174	95	50	120	91.8	8124	PASS
175	174	4	9	5.4	436	PASS
176	174	95	101	99.7	8101	PASS
177	176	5	9	7.8	628	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AN040802.D

Acq On : 8 Apr 2016 1:24 pm

Sample : BFB1UG

Misc : A316_1UG

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

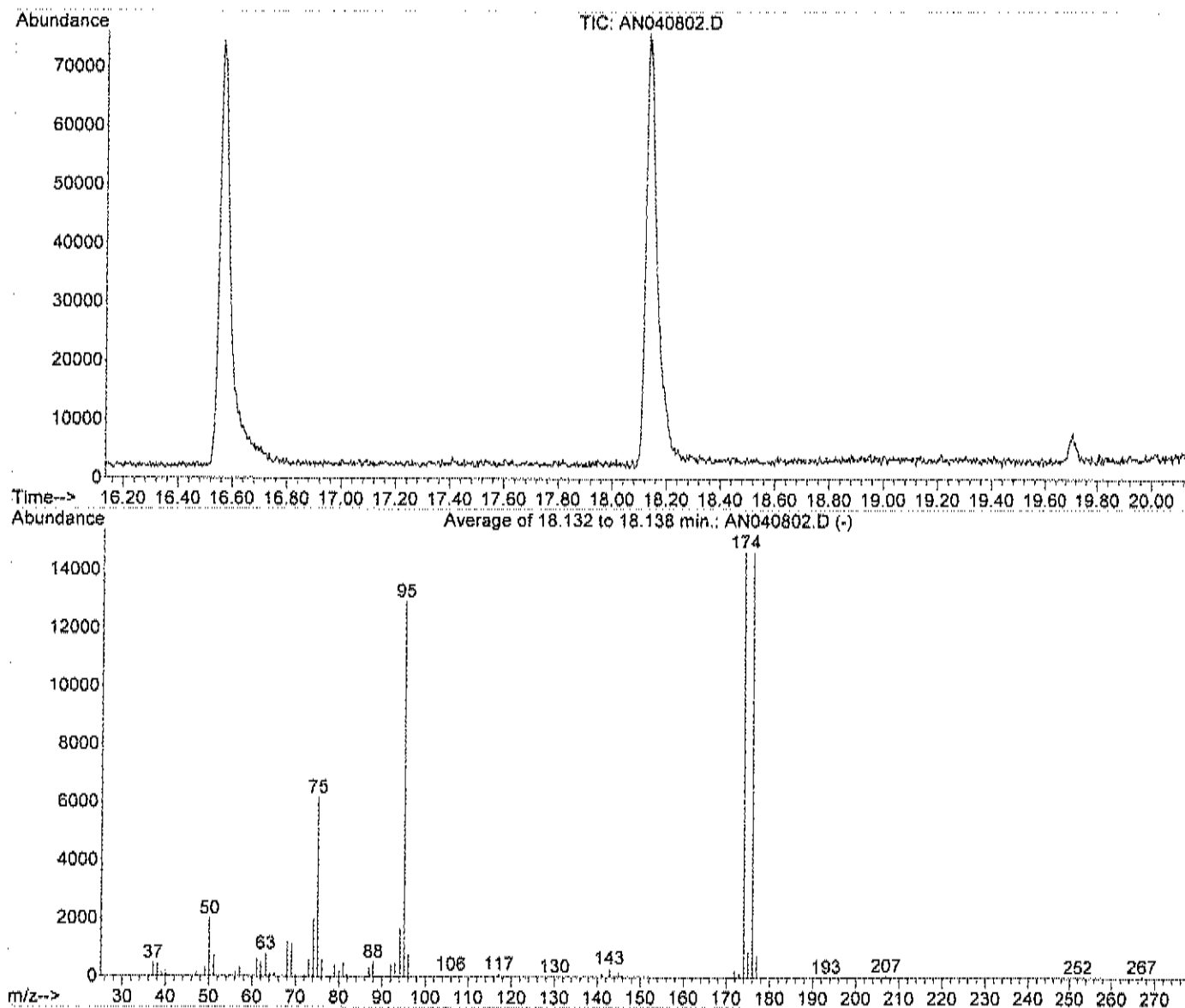
Title : TO-15 VOA Standards for 5 point calibration

Vial: 2

Operator: RJP

Inst : MSD #1

Multiplr: 1.00



Spectrum Information: Average of 18.132 to 18.138 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.4	1998	PASS
75	95	30	66	47.7	6175	PASS
95	95	100	100	100.0	12934	PASS
96	95	5	9	6.4	824	PASS
173	174	0.00	2	1.0	153	PASS
174	95	50	120	113.2	14641	PASS
175	174	4	9	6.0	878	PASS
176	174	95	101	99.9	14631	PASS
177	176	5	9	5.3	781	PASS

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

Date: 11-May-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040716	Sample Type: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853						
Client ID:	ZZZZZ	Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 127492						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		< 0.15	0.15									
1,1,2,2-Tetrachloroethane		< 0.15	0.15									
1,1,2-Trichloroethane		< 0.15	0.15									
1,1-Dichloroethane		< 0.15	0.15									
1,1-Dichloroethene		< 0.15	0.15									
1,2,4-Trichlorobenzene		< 0.15	0.15									
1,2,4-Trimethylbenzene		< 0.15	0.15									
1,2-Dibromoethane		< 0.15	0.15									
1,2-Dichlorobenzene		< 0.15	0.15									
1,2-Dichloroethane		< 0.15	0.15									
1,2-Dichloropropane		< 0.15	0.15									
1,3,5-Trimethylbenzene		< 0.15	0.15									
1,3-butadiene		< 0.15	0.15									
1,3-Dichlorobenzene		< 0.15	0.15									
1,4-Dichlorobenzene		< 0.15	0.15									
1,4-Dioxane		< 0.30	0.30									
2,2,4-trimethylpentane		< 0.15	0.15									
4-ethyltoluene		< 0.15	0.15									
Acetone		< 0.30	0.30									
Allyl chloride		< 0.15	0.15									
Benzene		< 0.15	0.15									
Benzyl chloride		< 0.15	0.15									
Bromodichloromethane		< 0.15	0.15									
Bromoform		< 0.15	0.15									
Bromomethane		< 0.15	0.15									

Qualifiers: Results reported are not blank, corrected
 j Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1604014
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040716	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID:	ZZZZZ	Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 127492					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

-	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	NED	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: LaBella Associates, P.C.
 Work Order: CI604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040716	Sample Type: MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10853						
Client ID:	ZZZZZ	Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 127492						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	< 0.15	0.15						
trans-1,2-Dichloroethene	< 0.15	0.15						
trans-1,3-Dichloropropene	< 0.15	0.15						
Trichloroethene	< 0.040	0.040						
Vinyl acetate	< 0.15	0.15						
Vinyl Bromide	< 0.15	0.15						
Vinyl chloride	< 0.040	0.040						

Sample ID	AMB1UG-040816	Sample Type: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855						
Client ID:	ZZZZZ	Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 127507						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	< 0.15	0.15										
1,1,2,2-Tetrachloroethane	< 0.15	0.15										
1,1,2-Trichloroethane	< 0.15	0.15										
1,1-Dichloroethane	< 0.15	0.15										
1,1-Dichloroethene	< 0.15	0.15										
1,2,4-Trichlorobenzene	< 0.15	0.15										
1,2,4-Trimethylbenzene	< 0.15	0.15										
1,2-Dibromoethane	< 0.15	0.15										
1,2-Dichlorobenzene	< 0.15	0.15										
1,2-Dichloroethane	< 0.15	0.15										
1,2-Dichloropropane	< 0.15	0.15										
1,3,5-Trimethylbenzene	< 0.15	0.15										
1,3-butadiene	< 0.15	0.15										
1,3-Dichlorobenzene	< 0.15	0.15										
1,4-Dichlorobenzene	< 0.15	0.15										
1,4-Dioxane	< 0.30	0.30										
2,2,4-trimethylpentane	< 0.15	0.15										
4-ethyltoluene	< 0.15	0.15										

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-FCE-VC

Sample ID	AMB1UG-040816	SampleType	MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID:	ZZZZZ	Batch ID:	R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 127507					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone		< 0.30	0.30									
Allyl chloride		< 0.15	0.15									
Benzene		< 0.15	0.15									
Benzyl chloride		< 0.15	0.15									
Bromodichloromethane		< 0.15	0.15									
Bromoform		< 0.15	0.15									
Bromomethane		< 0.15	0.15									
Carbon disulfide		< 0.15	0.15									
Carbon tetrachloride		< 0.040	0.040									
Chlorobenzene		< 0.15	0.15									
Chloroethane		< 0.15	0.15									
Chloroform		< 0.15	0.15									
Chloromethane		< 0.15	0.15									
cis-1,2-Dichloroethene		< 0.15	0.15									
cis-1,3-Dichloropropene		< 0.15	0.15									
Cyclohexane		< 0.15	0.15									
Dibromochloromethane		< 0.15	0.15									
Ethyl acetate		< 0.25	0.25									
Ethylbenzene		< 0.15	0.15									
Freon 11		< 0.15	0.15									
Freon 113		< 0.15	0.15									
Freon 114		< 0.15	0.15									
Freon 12		< 0.15	0.15									
Heptane		< 0.15	0.15									
Hexachloro-1,3-butadiene		< 0.15	0.15									
Hexane		< 0.15	0.15									
Isopropyl alcohol		< 0.15	0.15									
m&p-Xylene		< 0.30	0.30									
Methyl Butyl Ketone		< 0.30	0.30									
Methyl Ethyl Ketone		< 0.30	0.30									
Methyl Isobutyl Ketone		< 0.30	0.30									

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-040816	Sample Type	MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855				
Client ID:	ZZZZZ	Batch ID:	R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 127507				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethane	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Qualifiers:	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analytic detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Data File : C:\HPCHEM\1\DATA\AN040705.D

Vial: 39

Acq On : 7 Apr 2016 11:19 am

Operator: RJP

Sample : AMB1UG-040716

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 11 11:16:30 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.84	128	20210	1.00	ppb	0.03
35) 1,4-difluorobenzene	12.09	114	49287	1.00	ppb	0.04
50) Chlorobenzene-d5	16.58	117	44006	1.00	ppb	0.02

System Monitoring Compounds

66) Bromofluorobenzene	18.14	95	23051	0.81	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	81.00%

Target Compounds

Qvalue

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN040705.D
Acq On : 7 Apr 2016 11:19 am
Sample : AMB1UG-040716
Misc : A316_1UG
MS Integration Params: RTEINT.P
Quant Time: Apr 11 11:17 2016

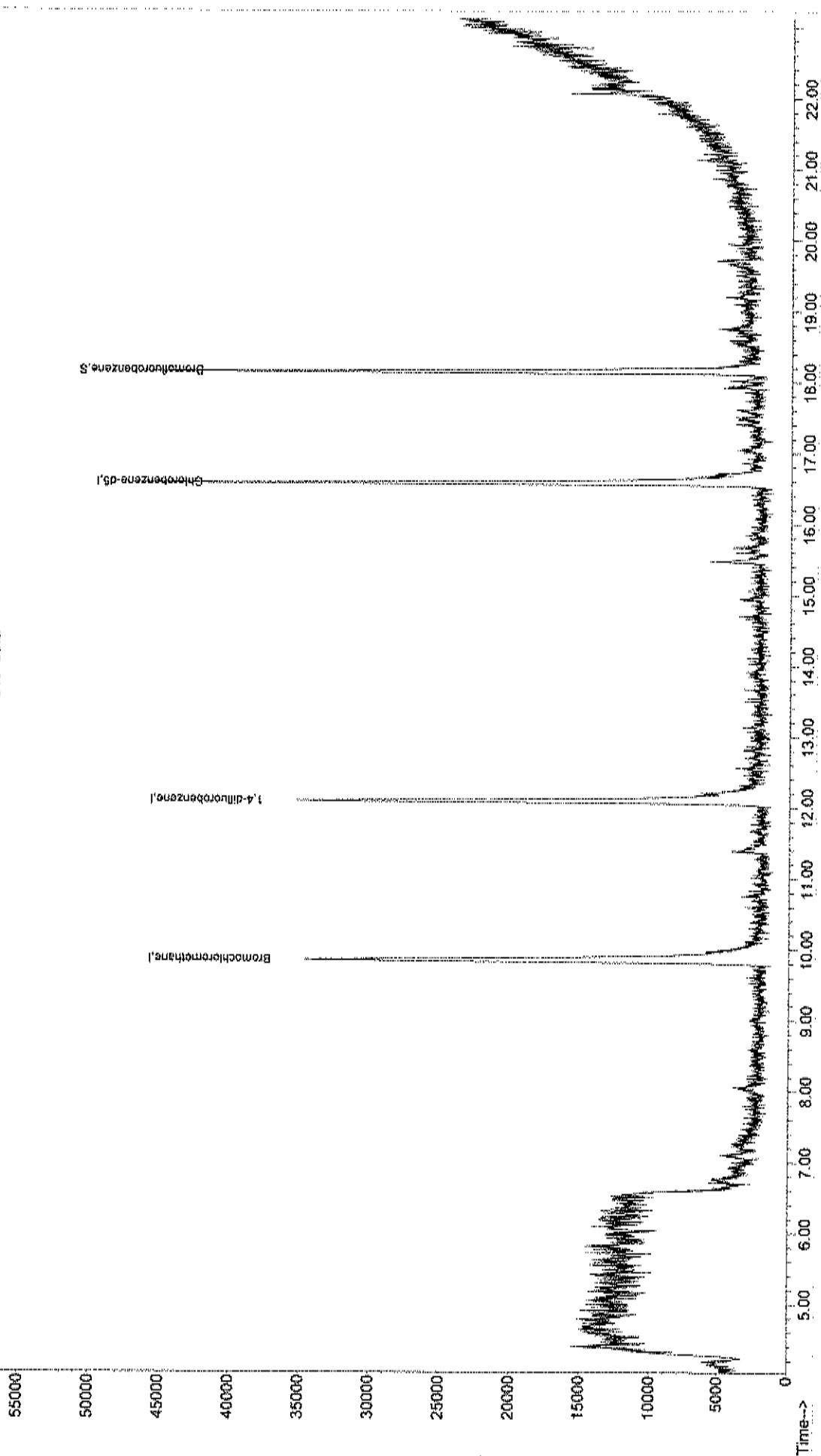
Vial: 39
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316_1UG.RES

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed May 11 08:43:37 2016
Response via : Initial Calibration

Abundance

TIC: AN040705.D



AN040705.D A316_1UG.M Wed May 11 08:52:55 2016

MSD1

Data File : C:\HPCHEM\1\DATA\AN040807.D

Vial: 7

Acq On : 8 Apr 2016 5:36 pm

Operator: RJP

Sample : AMB1UG-040816

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 08 18:02:24 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	33169	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.07	114	80248	1.00	ppb	0.02
50) Chlorobenzene-d5	16.57	117	69691	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.13	95	34314	0.77	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	77.00%

Target Compounds

Qvalue

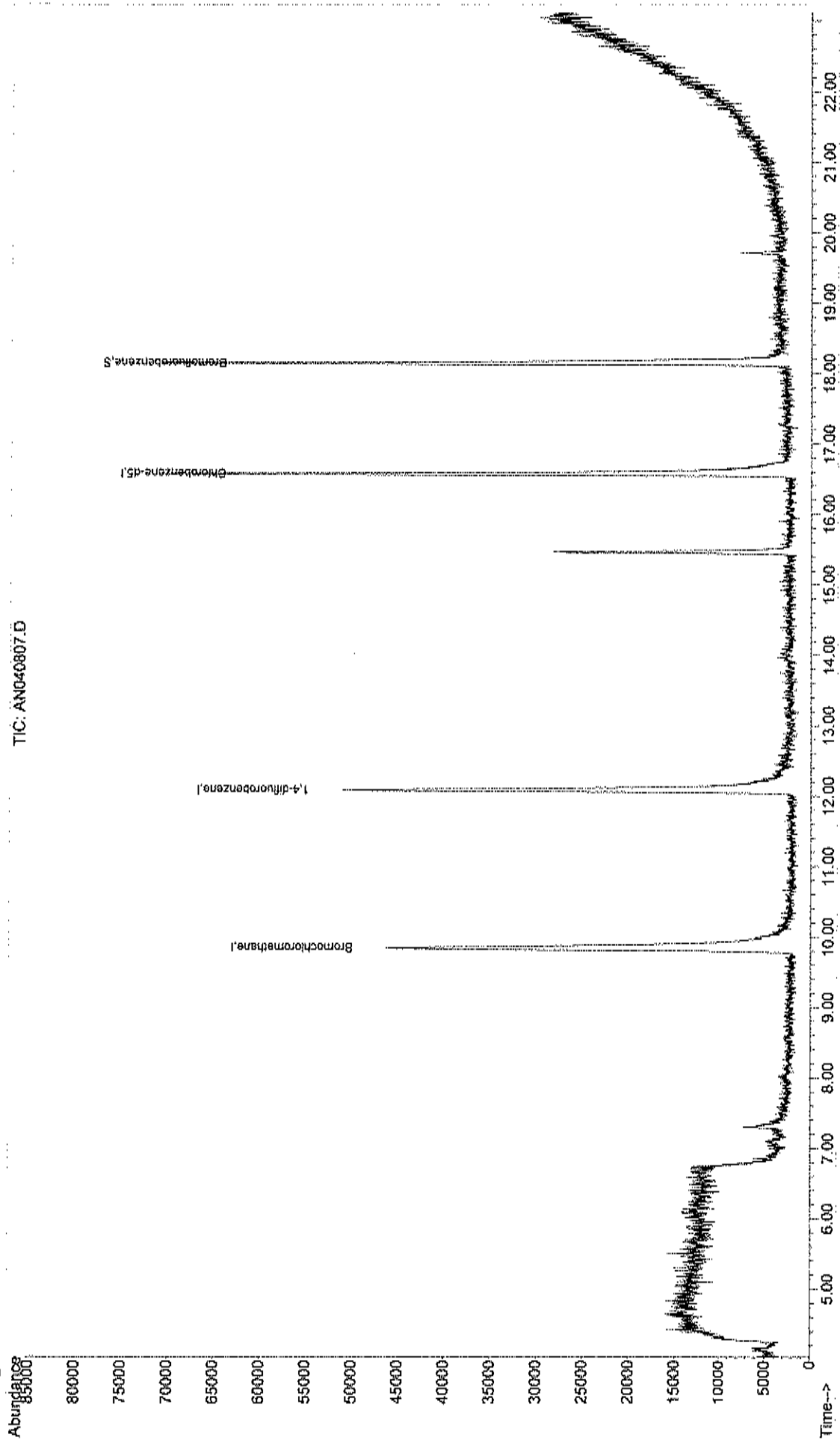
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN040807.D
Acq On : 8 Apr 2016 5:36 pm
Sample : AMB1UG-040816
Misc : A316_1UG
MS Integration Params: RTEINT.P
Quant Time: Apr 8 18:02 2016

Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316_1UG.RES

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed May 11 08:43:37 2016
Response via : Initial Calibration



Date: 13-May-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040716	Sample Type: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID: ZZZZZ	Batch ID: R10853	TestNo: TO-15	Analysis Date: 4/7/2016	SeqNo: 128357							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.200	0.15	1	0	120	70	130				
1,1,2,2-Tetrachloroethane	1.170	0.15	1	0	117	70	130				
1,1,2-Trichloroethane	1.180	0.15	1	0	118	70	130				
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130				
1,1-Dichloroethene	1.080	0.15	1	0	108	70	130				
1,2,4-Trichlorobenzene	1.060	0.15	1	0	106	70	130				
1,2,4-Trimethylbenzene	0.9400	0.15	1	0	94.0	70	130				
1,2-Dibromoethane	1.160	0.15	1	0	116	70	130				
1,2-Dichlorobenzene	1.190	0.15	1	0	119	70	130				
1,2-Dichloroethane	0.9500	0.15	1	0	95.0	70	130				
1,2-Dichloropropane	1.170	0.15	1	0	117	70	130				
1,3,5-Trimethylbenzene	1.060	0.15	1	0	106	70	130				
1,3-butadiene	1.030	0.15	1	0	103	70	130				
1,3-Dichlorobenzene	1.180	0.15	1	0	118	70	130				
1,4-Dichlorobenzene	1.090	0.15	1	0	109	70	130				
1,4-Dioxane	1.140	0.30	1	0	114	70	130				
2,2,4-trimethylpentane	1.220	0.15	1	0	122	70	130				
4-ethyltoluene	0.9900	0.15	1	0	99.0	70	130				
Acetone	1.190	0.30	1	0	119	70	130				
Allyl chloride	0.8360	0.15	1	0	83.0	70	130				
Benzene	1.130	0.15	1	0	113	70	130				
Benzyl chloride	0.7500	0.15	1	0	75.0	70	130				
Bromodichloromethane	1.260	0.15	1	0	120	70	130				
Bromoform	2.300	0.15	1	0	230	70	130				
Bromomethane	1.160	0.15	1	0	116	70	130				S

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040716	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID: ZZZZZ		Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 128357					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9600	0.15	1	0	96.0	70	130				
Carbon tetrachloride	1.220	0.040	1	0	122	70	130				
Chlorobenzene	1.070	0.15	1	0	107	70	130				
Chloroethane	1.150	0.15	1	0	115	70	130				
Chloroform	0.9900	0.15	1	0	99.0	70	130				
Chloromethane	1.150	0.15	1	0	115	70	130				
cis-1,2-Dichloroethene	0.9300	0.15	1	0	93.0	70	130				
cis-1,3-Dichloropropene	1.150	0.15	1	0	115	70	130				
Cyclohexane	1.120	0.15	1	0	112	70	130				
Dibromochloromethane	1.160	0.15	1	0	116	70	130				
Ethyl acetate	0.8800	0.25	1	0	88.0	70	130				
Ethylbenzene	0.9700	0.15	1	0	97.0	70	130				
Freon 11	1.180	0.15	1	0	118	70	130				
Freon 113	1.190	0.15	1	0	119	70	130				
Freon 114	1.190	0.15	1	0	119	70	130				
Freon 12	1.160	0.15	1	0	116	70	130				
Heptane	0.9700	0.15	1	0	97.0	70	130				
Hexachloro-1,3-butadiene	1.830	0.15	1	0	183	70	130				
Hexane	0.8200	0.15	1	0	82.0	70	130				
Isopropyl alcohol	0.9900	0.15	1	0	99.0	70	130				
m&p-Xylene	1.890	0.30	2	0	94.5	70	130				
Methyl Butyl Ketone	0.7100	0.30	1	0	71.0	70	130				
Methyl Ethyl Ketone	0.8400	0.30	1	0	84.0	70	130				
Methyl Isobutyl Ketone	0.8400	0.30	1	0	84.0	70	130				
Methyl tert-butyl ether	0.9300	0.15	1	0	93.0	70	130				
Methylene chloride	1.130	0.15	1	0	113	70	130				
o-Xylene	0.9700	0.15	1	0	97.0	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	1.050	0.15	1	0	105	70	130				
Tetrachloroethylene	0.8700	0.15	1	0	87.0	70	130				
Tetrahydrofuran	0.8700	0.15	1	0	87.0	70	130				

S

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1604014
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040716	SampType:	LCS	Batch ID:	R10853	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:	RunNo:	10853
Client ID:	ZZZZZ					TestNo:	TO-15			Analysis Date:	SeqNo:	128357
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HightLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Toluene	0.7900	0.15	1	0	79.0	70	130					
trans-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	70	130					
trans-1,3-Dichloropropene	1.030	0.15	1	0	103	70	130					
Trichloroethene	1.170	0.040	1	0	117	70	130					
Vinyl acetate	0.8000	0.15	1	0	80.0	70	130					
Vinyl Bromide	1.130	0.15	1	0	113	70	130					
Vinyl chloride	1.060	0.040	1	0	106	70	130					
Surf: Bromofluorobenzene	1.070	0	1	0	107	70	130					

Sample ID	ALCS1UG-040816	SampType:	LCS	Batch ID:	R10855	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:	RunNo:	10855
Client ID:	ZZZZZ					TestNo:	TO-15			Analysis Date:	SeqNo:	128359
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HightLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1,1-Trichloroethane	1.000	0.15	1	0	100	70	130					
1,1,2,2-Tetrachloroethane	0.9100	0.15	1	0	91.0	70	130					
1,1,2-Trichloroethane	1.080	0.15	1	0	108	70	130					
1,1-Dichloroethane	0.7800	0.15	1	0	78.0	70	130					
1,1-Dichloroethene	0.8500	0.15	1	0	85.0	70	130					
1,2,4-Trichlorobenzene	0.7600	0.15	1	0	76.0	70	130					
1,2,4-Trimethylbenzene	0.7700	0.15	1	0	77.0	70	130					
1,2-Dibromoethane	0.9200	0.15	1	0	92.0	70	130					
1,2-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130					
1,2-Dichloroethane	0.7200	0.15	1	0	72.0	70	130					
1,2-Dichloropropane	0.9000	0.15	1	0	90.0	70	130					
1,3,5-Trimethylbenzene	0.9000	0.15	1	0	90.0	70	130					
1,3-butadiene	0.7500	0.15	1	0	75.0	70	130					
1,3-Dichlorobenzene	1.090	0.15	1	0	109	70	130					
1,4-Dichlorobenzene	1.050	0.15	1	0	105	70	130					
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130					
2,2,4-Trimethylpentane	1.000	0.15	1	0	100	70	130					

Qualifiers: J Results reported are not blank corrected
S Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1604014
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040816	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID: ZZZZ	Batch ID: R10855	TestNo: TO-15	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 128359					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	0.8700	0.15	1	0	87.0	70	130				
Acetone	0.8500	0.30	1	0	85.0	70	130				
Allyl chloride	0.7100	0.15	1	0	71.0	70	130				
Benzene	0.9100	0.15	1	0	91.0	70	130				
Benzyl chloride	0.9500	0.15	1	0	95.0	70	130				
Bromodichloromethane	1.050	0.15	1	0	105	70	130				
Bromoform	2.130	0.15	1	0	213	70	130				
Bromomethane	0.8900	0.15	1	0	89.0	70	130				
Carbon disulfide	0.7700	0.15	1	0	77.0	70	130				
Carbon tetrachloride	1.080	0.040	1	0	108	70	130				
Chlorobenzene	0.9000	0.15	1	0	90.0	70	130				
Chloroethane	0.8500	0.15	1	0	86.0	70	130				
Chloroform	0.7600	0.15	1	0	76.0	70	130				
Chloromethane	0.8200	0.15	1	0	82.0	70	130				
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130				
cis-1,3-Dichloropropene	1.060	0.15	1	0	106	70	130				
Cyclohexane	0.8700	0.15	1	0	87.0	70	130				
Dibromochloromethane	0.9700	0.15	1	0	97.0	70	130				
Ethyl acetate	0.7100	0.25	1	0	71.0	70	130				
Ethylbenzene	0.8000	0.15	1	0	80.0	70	130				
Freon 11	0.9400	0.15	1	0	94.0	70	130				
Freon 113	0.9600	0.15	1	0	96.0	70	130				
Freon 114	0.8700	0.15	1	0	87.0	70	130				
Freon 12	0.9000	0.15	1	0	90.0	70	130				
Heptane	0.7600	0.15	1	0	76.0	70	130				
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	70	130				
Hexane	0.6600	0.15	1	0	66.0	70	130				
Isopropyl alcohol	0.7500	0.15	1	0	75.0	70	130				
m&p-Xylene	1.600	0.30	2	0	80.0	70	130				
Methyl Butyl Ketone	0.6100	0.30	1	0	61.0	70	130				
Methyl Ethyl Ketone	0.7500	0.30	1	0	75.0	70	130				

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-040816	Sample Type	LCS	Batch ID	R10855	TestCode	0.25CT-TCE-	Units	ppbv	Prep Date	Analysis Date	4/8/2016	RunNo	10855
Client ID	ZZZZZ					TestNo	TO-15						SeqNo	128359
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Methyl Isobutyl Ketone		0.7100	0.30	1	0	71.0	70	130						
Methyl tert-butyl ether		0.7100	0.15	1	0	71.0	70	130						
Methylene chloride		0.9200	0.15	1	0	92.0	70	130						
o-Xylene		0.8400	0.15	1	0	84.0	70	130						
Propylene		0.7500	0.15	1	0	75.0	70	130						
Styrene		0.9700	0.15	1	0	97.0	70	130						
Tetrachloroethylene		0.8400	0.15	1	0	84.0	70	130						
Tetrahydrofuran		0.7100	0.15	1	0	71.0	70	130						
Toluene		0.7800	0.15	1	0	78.0	70	130						
trans-1,2-Dichloroethene		0.7100	0.15	1	0	71.0	70	130						
trans-1,3-Dichloropropene		1.090	0.15	1	0	109	70	130						
Trichloroethene		1.040	0.040	1	0	104	70	130						
Vinyl acetate		0.8700	0.15	1	0	87.0	70	130						
Vinyl Bromide		0.9000	0.15	1	0	90.0	70	130						
Vinyl chloride		0.7000	0.040	1	0	70.0	70	130						
Surr: Bromofluorobenzene		1.080	0	1	0	108	70	130						

Qualifiers: - Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Page 5 of 5

Data File : C:\HPCHEM\1\DATA\AN040704.D

Vial: 38

Acq On : 7 Apr 2016 10:42 am

Operator: RJP

Sample : ALCS1UG-040716

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 08 17:20:45 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	22086m	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.07	114	51551	1.00	ppb	0.01
50) Chlorobenzene-d5	16.56	117	38203	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.13	95	26188	1.07	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	107.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	17041	0.95	ppb	# 100
3) Freon 12	4.19	85	109101	1.16	ppb	98
4) Chloromethane	4.39	50	28329m	1.15	ppb	
5) Freon 114	4.39	85	94649	1.19	ppb	95
6) Vinyl Chloride	4.59	62	26400	1.06	ppb	94
7) Butane	4.69	43	29315	1.03	ppb	92
8) 1,3-butadiene	4.70	39	19241	1.03	ppb	72
9) Bromomethane	5.04	94	33673	1.16	ppb	88
10) Chloroethane	5.21	64	11675	1.15	ppb	91
11) Ethanol	5.38	45	9230	1.22	ppb	# 67
12) Acrolein	5.96	56	6909m	1.08	ppb	
13) Vinyl Bromide	5.55	106	32292	1.13	ppb	97
14) Freon 11	5.80	101	114833m	1.18	ppb	
15) Acetone	6.06	58	11325	1.19	ppb	# 74
16) Pentane	6.08	42	23190	1.06	ppb	95
17) Isopropyl alcohol	6.16	45	30750	0.99	ppb	# 46
18) 1,1-dichloroethene	6.57	96	30633	1.08	ppb	99
19) Freon 113	6.75	101	81605m	1.19	ppb	
20) t-Butyl alcohol	6.90	59	49959	1.01	ppb	# 69
21) Methylene chloride	7.05	84	27954	1.13	ppb	91
22) Allyl chloride	7.03	41	18377	0.83	ppb	# 56
23) Carbon disulfide	7.21	76	70049	0.96	ppb	100
24) trans-1,2-dichloroethene	8.01	61	31876	0.95	ppb	89
25) methyl tert-butyl ether	8.03	73	59381	0.93	ppb	89
26) 1,1-dichloroethane	8.40	63	48911	1.03	ppb	99
27) Vinyl acetate	8.44	43	33047	0.80	ppb	94
28) Methyl Ethyl Ketone	8.95	72	8503	0.84	ppb	# 100
29) cis-1,2-dichloroethene	9.36	61	25654	0.93	ppb	93
30) Hexane	8.91	57	23756	0.82	ppb	96
31) Ethyl acetate	9.53	43	34610	0.88	ppb	# 82
32) Chloroform	9.95	83	64078	0.99	ppb	99
33) Tetrahydrofuran	10.17	42	15894	0.87	ppb	92
34) 1,2-dichloroethane	11.09	62	34556	0.95	ppb	89
36) 1,1,1-trichloroethane	10.75	97	58035m	1.20	ppb	
37) Cyclohexane	11.44	56	22379	1.12	ppb	# 79
38) Carbon tetrachloride	11.39	117	65796m	1.22	ppb	
39) Benzene	11.37	78	48640	1.13	ppb	97
40) Methyl methacrylate	12.92	41	14695	1.05	ppb	# 85
41) 1,4-dioxane	13.00	88	12469	1.14	ppb	97
42) 2,2,4-trimethylpentane	12.19	57	91659m	1.22	ppb	
43) Heptane	12.53	43	16893	0.97	ppb	90
44) Trichloroethene	12.68	130	25590	1.17	ppb	98
45) 1,2-dichloropropane	12.79	63	18119	1.17	ppb	96

(#)= qualifier out of range (m)= manual integration

AN040704.D A316_1UG.M

Fri May 13 11:41:38 2016

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AN040704.D

Vial: 38

Acq On : 7 Apr 2016 10:42 am

Operator: RJP

Sample : ALCS1UG-040716

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 08 17:20:45 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.12	83	45315m	1.20	ppb	
47) cis-1,3-dichloropropene	13.91	75	23627m	1.15	ppb	
48) trans-1,3-dichloropropene	14.63	75	19077m	1.03	ppb	
49) 1,1,2-trichloroethane	14.93	97	20085m	1.18	ppb	
51) Toluene	14.68	92	20511	0.79	ppb	98
52) Methyl Isobutyl Ketone	13.83	43	38343	0.84	ppb	97
53) Dibromochloromethane	15.60	129	38030m	1.16	ppb	
54) Methyl Butyl Ketone	15.12	43	28760	0.71	ppb	93
55) 1,2-dibromoethane	15.86	107	37325	1.16	ppb	96
56) Tetrachloroethylene	15.66	164	21517	0.87	ppb	98
57) Chlorobenzene	16.61	112	36501	1.07	ppb	86
58) 1,1,1,2-tetrachloroethane	16.70	131	31140	1.22	ppb	97
59) Ethylbenzene	16.85	91	43043	0.97	ppb	95
60) m&p-xylene	17.01	91	66864	1.89	ppb	92
61) Nonane	17.38	43	19421	0.92	ppb	99
62) Styrene	17.46	104	25930	1.05	ppb	89
63) Bromoform	17.59	173	40686	2.30	ppb	99
64) o-xylene	17.49	91	41236m	0.97	ppb	
65) Cumene	18.02	105	53356	1.08	ppb	98
67) 1,1,2,2-tetrachloroethane	17.92	83	51052	1.17	ppb	100
68) Propylbenzene	18.53	91	53900m	1.02	ppb	
69) 2-Chlorotoluene	18.58	91	41034m	1.07	ppb	
70) 4-ethyltoluene	18.70	105	44956m	0.99	ppb	
71) 1,3,5-trimethylbenzene	18.76	105	57230m	1.06	ppb	
72) 1,2,4-trimethylbenzene	19.19	105	43862	0.94	ppb	89
73) 1,3-dichlorobenzene	19.49	146	35209	1.18	ppb	95
74) benzyl chloride	19.56	91	31628m	0.75	ppb	
75) 1,4-dichlorobenzene	19.62	146	30607	1.09	ppb	98
76) 1,2,3-trimethylbenzene	19.65	105	57140	0.99	ppb	95
77) 1,2-dichlorobenzene	19.93	146	43393	1.19	ppb	95
78) 1,2,4-trichlorobenzene	21.79	180	29102m	1.06	ppb	
79) Naphthalene	22.17	128	48161m	0.84	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	122558	1.83	ppb	97

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN040704.D A316_1UG.M Fri May 13 11:41:39 2016 MSD1

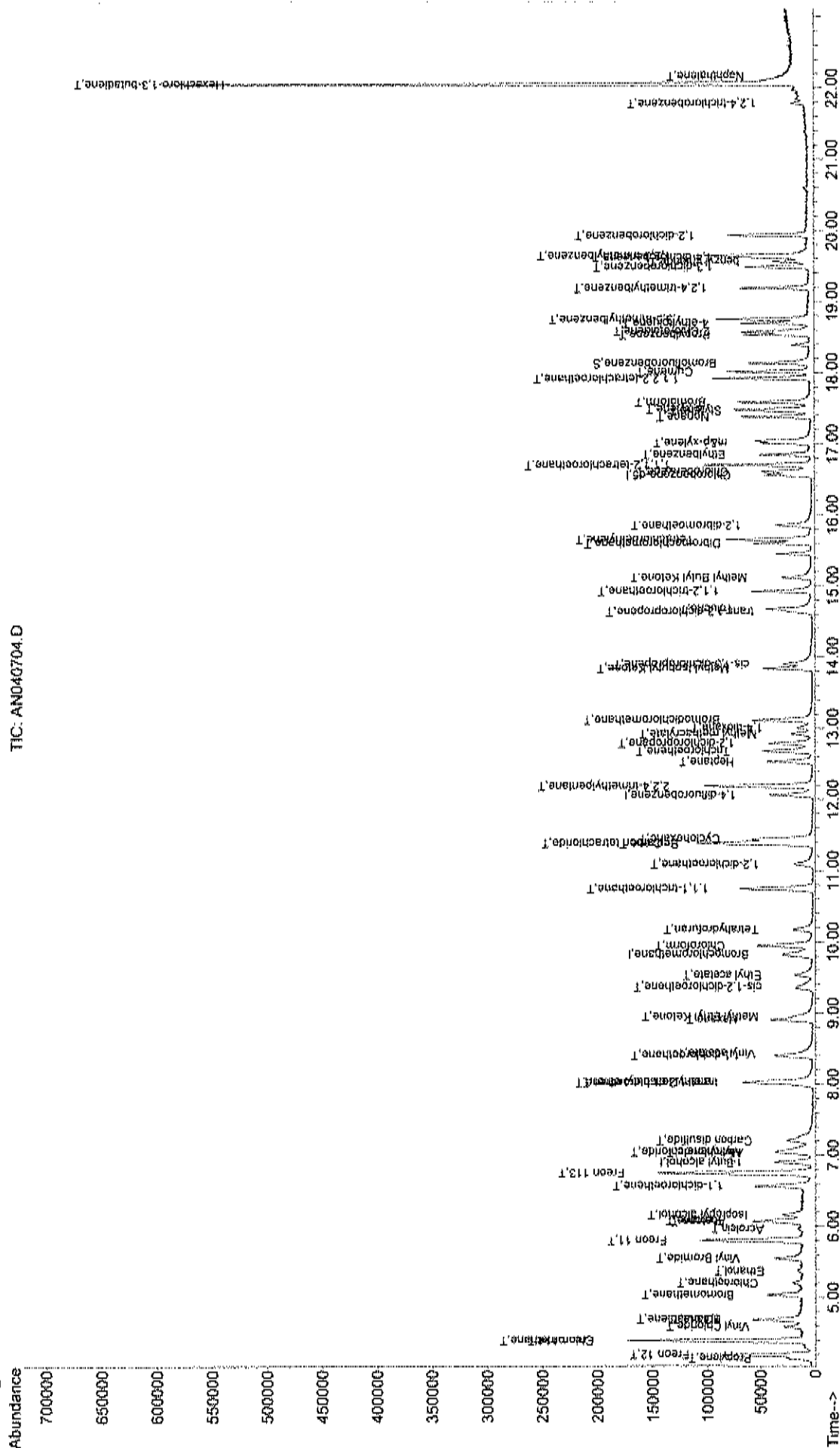
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Acq On : 7 Apr 2016 10:42 am
Sample : ALC51UG-040716
Misc : A316_1UG
MS Integration Params: RTEINT.P
Quant Time: May 13 11:30 2016

Vial: 38
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316_1UG.RES

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 27 10:36:04 2016
Response via : Initial Calibration

TIC: AN040704.D



Data File : C:\HPCHEM\1\DATA\AN040806.D

Vial: 6

Acq On : 8 Apr 2016 4:54 pm

Operator: RJP

Sample : ALCS1UG-040816

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 08 17:19:20 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.80	128	37018	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.05	114	86582	1.00	ppb	0.00
50) Chlorobenzene-d5	16.55	117	62657	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.13	95	43409	1.08	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	108.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.13	41	22398	0.75	ppb	# 100
3) Freon 12	4.18	85	142141	0.90	ppb	100
4) Chloromethane	4.39	50	33854	0.82	ppb	96
5) Freon 114	4.38	85	115808	0.87	ppb	82
6) Vinyl Chloride	4.58	62	29242	0.70	ppb	96
7) Butane	4.68	43	36195	0.76	ppb	96
8) 1,3-butadiene	4.68	39	23431	0.75	ppb	81
9) Bromomethane	5.03	94	43641	0.89	ppb	89
10) Chloroethane	5.20	64	14555	0.86	ppb	100
11) Ethanol	5.37	45	7233	0.57	ppb	# 70
12) Acrolein	5.95	56	8623	0.80	ppb	# 5
13) Vinyl Bromide	5.53	106	43441	0.90	ppb	96
14) Freon 11	5.79	101	153335	0.94	ppb	99
15) Acetone	6.03	58	13561	0.85	ppb	# 66
16) Pentane	6.07	42	26338	0.72	ppb	97
17) Isopropyl alcohol	6.14	45	39245m	0.75	ppb	
18) 1,1-dichloroethene	6.56	96	40359	0.85	ppb	93
19) Freon 113	6.74	101	110360	0.96	ppb	96
20) t-Butyl alcohol	6.88	59	47603	0.57	ppb	# 69
21) Methylene chloride	7.04	84	38197	0.92	ppb	96
22) Allyl chloride	7.01	41	26152m	0.71	ppb	
23) Carbon disulfide	7.21	76	94754	0.77	ppb	84
24) trans-1,2-dichloroethene	8.00	61	40164	0.71	ppb	81
25) methyl tert-butyl ether	8.02	73	75449	0.71	ppb	91
26) 1,1-dichloroethane	8.39	63	62420	0.78	ppb	99
27) Vinyl acetate	8.43	43	59947m	0.87	ppb	
28) Methyl Ethyl Ketone	8.94	72	12785	0.75	ppb	# 100
29) cis-1,2-dichloroethene	9.35	61	33530m	0.72	ppb	
30) Hexane	8.89	57	32062m	0.66	ppb	
31) Ethyl acetate	9.52	43	47128m	0.71	ppb	
32) Chloroform	9.94	83	82493	0.76	ppb	97
33) Tetrahydrofuran	10.15	42	21731m	0.71	ppb	
34) 1,2-dichloroethane	11.07	62	43470m	0.72	ppb	
36) 1,1,1-trichloroethane	10.74	97	81470	1.00	ppb	99
37) Cyclohexane	11.43	56	29027	0.87	ppb	# 81
38) Carbon tetrachloride	11.38	117	97733	1.08	ppb	98
39) Benzene	11.36	78	65843	0.91	ppb	97
40) Methyl methacrylate	12.91	41	18955	0.81	ppb	# 72
41) 1,4-dioxane	12.99	88	13538	0.74	ppb	95
42) 2,2,4-trimethylpentane	12.18	57	125449	1.00	ppb	97
43) Heptane	12.52	43	22094	0.76	ppb	89
44) Trichloroethene	12.67	130	38210	1.04	ppb	95
45) 1,2-dichloropropane	12.79	63	23441	0.90	ppb	100

(#)=qualifier out of range (m)=manual integration

AN040806.D A316_1UG.M

Fri May 13 11:41:46 2016

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AN040806.D

Vial: 6

Acq On : 8 Apr 2016 4:54 pm

Operator: RJP

Sample : ALCS1UG-040816

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 08 17:19:20 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.11	83	66549	1.05	ppb	99
47) cis-1,3-dichloropropene	13.89	75	36807	1.06	ppb	93
48) trans-1,3-dichloropropene	14.62	75	33751	1.09	ppb	94
49) 1,1,2-trichloroethane	14.92	97	30914	1.08	ppb	99
51) Toluene	14.67	92	33032m	0.78	ppb	
52) Methyl Isobutyl Ketone	13.83	43	53292m	0.71	ppb	
53) Dibromochloromethane	15.59	129	52180m	0.97	ppb	
54) Methyl Butyl Ketone	15.11	43	40805m	0.61	ppb	
55) 1,2-dibromoethane	15.85	107	48716	0.92	ppb	93
56) Tetrachloroethylene	15.65	164	34095	0.84	ppb	98
57) Chlorobenzene	16.60	112	50158	0.90	ppb	87
58) 1,1,1,2-tetrachloroethane	16.70	131	44375	1.06	ppb	96
59) Ethylbenzene	16.84	91	58323	0.80	ppb	94
60) m&p-xylene	17.04	91	92917	1.60	ppb	90
61) Nonane	17.37	43	25370	0.73	ppb	95
62) Styrene	17.46	104	39322	0.97	ppb	85
63) Bromoform	17.58	173	61699	2.13	ppb	99
64) o-xylene	17.48	91	58258m	0.84	ppb	
65) Cumene	18.01	105	70368	0.86	ppb	97
67) 1,1,2,2-tetrachloroethane	17.92	83	65361	0.91	ppb	99
68) Propylbenzene	18.53	91	69857m	0.81	ppb	
69) 2-Chlorotoluene	18.57	91	57701m	0.92	ppb	
70) 4-ethyltoluene	18.69	105	64676m	0.87	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	79497m	0.90	ppb	
72) 1,2,4-trimethylbenzene	19.18	105	58790	0.77	ppb	88
73) 1,3-dichlorobenzene	19.48	146	53267	1.09	ppb	93
74) benzyl chloride	19.56	91	65826m	0.95	ppb	
75) 1,4-dichlorobenzene	19.61	146	48212	1.05	ppb	93
76) 1,2,3-trimethylbenzene	19.64	105	73067	0.77	ppb	91
77) 1,2-dichlorobenzene	19.93	146	59188	0.99	ppb	93
78) 1,2,4-trichlorobenzene	21.78	180	34393m	0.76	ppb	
79) Naphthalene	22.13	128	60199m	0.64	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	119034	1.08	ppb	96

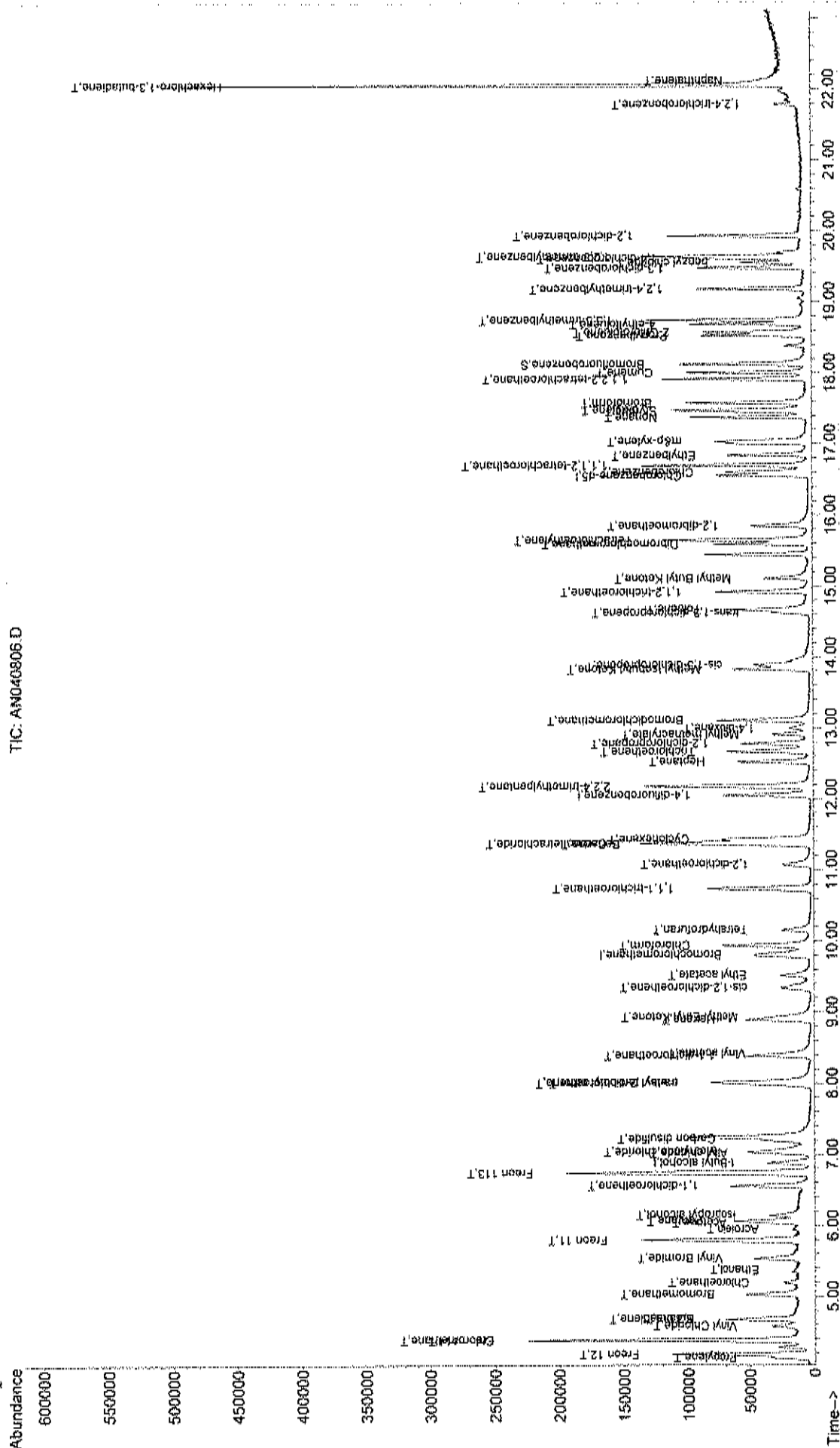
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AN040806.D A316_1UG.M Fri May 13 11:41:47 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN040806.D
Acq On : 8 Apr 2016 4:54 pm
Sample : ALCS1UG-040816
Misc : A316_1UG
MS Integration Params: RTEINT.P
Quant Time: May 13 11:37 2016

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A316 1UG.RES

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Method      : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 27 10:36:04 2016
Response via : Initial Calibration
```

TIC: A404806.D



Date: 13-May-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040716	Sample Type: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID: ZZZZZ		Batch ID: R10853	TestNo: TO-15		Analysis Date: 4/7/2016	SeqNo: 128358					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.220	0.15	1	0	122	70	130	1.2	1.65	30	
1,1,2,2-Tetrachloroethane	1.140	0.15	1	0	114	70	130	1.17	2.60	30	
1,1,2-Trichloroethane	1.280	0.15	1	0	128	70	130	1.18	8.13	30	
1,1-Dichloroethane	1.060	0.15	1	0	106	70	130	1.03	2.87	30	
1,1-Dichloroethene	1.090	0.15	1	0	109	70	130	1.08	0.922	30	
1,2,4-Trichlorobenzene	0.7300	0.15	1	0	73.0	70	130	1.06	36.9	30	R
1,2,4-Trimethylbenzene	0.9400	0.15	1	0	94.0	70	130	0.94	0	30	
1,2-Dibromoethane	1.080	0.15	1	0	108	70	130	1.16	7.14	30	
1,2-Dichlorobenzene	0.9800	0.15	1	0	98.0	70	130	1.19	19.4	30	
1,2-Dichloroethane	0.9600	0.15	1	0	96.0	70	130	0.95	1.05	30	
1,2-Dichloropropane	1.220	0.15	1	0	122	70	130	1.17	4.18	30	
1,3,5-Trimethylbenzene	1.190	0.15	1	0	119	70	130	1.06	11.6	30	
1,3-butadiene	1.070	0.15	1	0	107	70	130	1.03	3.81	30	
1,3-Dichlorobenzene	1.130	0.15	1	0	113	70	130	1.18	4.33	30	
1,4-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.09	2.79	30	
1,4-Dioxane	0.3700	0.30	1	0	37.0	70	130	1.14	102	30	SR
2,2,4-trimethylpentane	1.260	0.15	1	0	126	70	130	1.22	3.23	30	
4-ethyltoluene	1.040	0.15	1	0	104	70	130	0.99	4.93	30	
Acetone	0.8400	0.30	1	0	84.0	70	130	1.19	34.5	30	R
Allyl chloride	0.9800	0.15	1	0	98.0	70	130	0.83	16.6	30	
Benzene	1.230	0.15	1	0	123	70	130	1.13	8.47	30	
Benzyl chloride	0.9400	0.15	1	0	94.0	70	130	0.75	22.5	30	
Bromodichloromethane	1.130	0.15	1	0	113	70	130	1.2	6.01	30	
Bromoform	2.270	0.15	1	0	227	70	130	2.3	1.31	30	S
Bromomethane	1.150	0.15	1	0	115	70	130	1.16	0.866	30	

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

J Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID		ALCS1UGD-040716	SampleType: LCSD	Batch ID: R10853	TestCode: 0.25CT-TCE-		Units: ppbV	Prep Date:		RunNo: 10853	
Client ID:		ZZZZZ	TestNo: TO-15		Analysis Date:		4/7/2016	SeqNo: 128358			
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.040	0.15	1	0	104	70	130	0.96	8.00	30	
Carbon tetrachloride	1.290	0.040	1	0	129	70	130	1.22	5.58	30	
Chlorobenzene	1.150	0.15	1	0	115	70	130	1.07	7.21	30	
Chloroethane	1.110	0.15	1	0	111	70	130	1.15	3.54	30	
Chloroform	0.9900	0.15	1	0	99.0	70	130	0.99	0	30	
Chloromethane	1.180	0.15	1	0	118	70	130	1.15	2.58	30	
cis-1,2-Dichloroethene	1.010	0.15	1	0	101	70	130	0.93	8.25	30	
cis-1,3-Dichloropropene	1.260	0.15	1	0	126	70	130	1.15	9.13	30	
Cyclohexane	1.240	0.15	1	0	124	70	130	1.12	10.2	30	
Dibromochloromethane	1.070	0.15	1	0	107	70	130	1.16	8.07	30	
Ethyl acetate	0.8800	0.25	1	0	88.0	70	130	0.88	0	30	
Ethylbenzene	1.130	0.15	1	0	113	70	130	0.97	15.2	30	
Freon 11	1.130	0.15	1	0	113	70	130	1.18	4.33	30	
Freon 113	1.190	0.15	1	0	119	70	130	1.19	0	30	
Freon 114	1.190	0.15	1	0	119	70	130	1.19	0	30	
Freon 12	1.190	0.15	1	0	119	70	130	1.16	2.55	30	
Heptane	1.100	0.15	1	0	110	70	130	0.97	12.6	30	
Hexachloro-1,3-butadiene	1.220	0.15	1	0	122	70	130	1.83	40.0	30	R
Hexane	0.9600	0.15	1	0	96.0	70	130	0.82	15.7	30	
Isopropyl alcohol	0.7900	0.15	1	0	79.0	70	130	0.99	22.5	30	
m&p-Xylene	2.360	0.30	2	0	118	70	130	1.89	22.1	30	
Methyl Butyl Ketone	0.3000	0.30	1	0	30.0	70	130	0.71	81.2	30	SR
Methyl Ethyl Ketone	1.020	0.30	1	0	102	70	130	0.84	19.4	30	
Methyl Isobutyl Ketone	0.2300	0.30	1	0	23.0	70	130	0.84	0	30	JS
Methyl tert-butyl ether	0.9900	0.15	1	0	99.0	70	130	0.93	6.25	30	
Methylene chloride	1.180	0.15	1	0	118	70	130	1.13	4.33	30	
o-Xylene	1.190	0.15	1	0	119	70	130	0.97	20.4	30	
Propylene	1.170	0.15	1	0	117	70	130	0.95	20.8	30	
Styrene	1.210	0.15	1	0	121	70	130	1.05	14.2	30	
Tetrachloroethylene	0.8300	0.15	1	0	83.0	70	130	0.87	4.71	30	
Tetrahydrofuran	1.790	0.15	1	0	179	70	130	0.87	69.2	30	SR

Qualifiers: J Results reported are not blank corrected
S Analyte detected at or below quantitation limits
R Spike Recovery outside accepted recovery limits
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1604014
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040716	SampleType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10853					
Client ID: ZZZZZ	Batch ID: R10853	TestNo: TO-15	Analysis Date: 4/7/2016	SeqNo: 128358							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	2.000	0.15	1	0	200	70	130	0.79	86.7	30	SR
trans-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130	0.95	8.08	30	
trans-1,3-Dichloropropene	1.190	0.15	1	0	119	70	130	1.03	14.4	30	
Trichloroethene	1.220	0.040	1	0	122	70	130	1.17	4.18	30	
Vinyl acetate	0.9000	0.15	1	0	90.0	70	130	0.8	11.8	30	
Vinyl Bromide	1.140	0.15	1	0	114	70	130	1.13	0.881	30	
Vinyl chloride	1.050	0.040	1	0	105	70	130	1.06	0.948	30	
Surr: Bromofluorobenzene	1.130	0	1	0	113	70	130	0	0	30	

Sample ID	ALCS1UGD-040816	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID: ZZZZZ	Batch ID: R10855	TestNo: TO-15	Analysis Date: 4/8/2016	SeqNo: 128360							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.060	0.15	1	0	106	70	130	1	5.83	30	
1,1,2,2-Tetrachloroethane	1.000	0.15	1	0	100	70	130	0.91	9.42	30	
1,1,2-Trichloroethane	1.210	0.15	1	0	121	70	130	1.08	11.4	30	
1,1-Dichloroethane	0.7700	0.15	1	0	77.0	70	130	0.78	1.29	30	
1,1-Dichloroethene	0.8800	0.15	1	0	88.0	70	130	0.85	3.47	30	
1,2,4-Trichlorobenzene	0.7200	0.15	1	0	72.0	70	130	0.76	5.41	30	
1,2,4-Trimethylbenzene	0.8400	0.15	1	0	84.0	70	130	0.77	8.70	30	
1,2-Dibromoethane	0.9900	0.15	1	0	99.0	70	130	0.92	7.33	30	
1,2-Dichlorobenzene	1.100	0.15	1	0	110	70	130	0.99	10.5	30	
1,2-Dichloroethane	0.8000	0.15	1	0	80.0	70	130	0.72	10.5	30	
1,2-Dichloropropane	0.8800	0.15	1	0	88.0	70	130	0.9	2.25	30	
1,3,5-Trimethylbenzene	0.9800	0.15	1	0	98.0	70	130	0.9	8.51	30	
1,3-butadiene	0.7900	0.15	1	0	79.0	70	130	0.75	5.19	30	
1,3-Dichlorobenzene	1.150	0.15	1	0	115	70	130	1.09	5.36	30	
1,4-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.05	0.948	30	
1,4-Dioxane	0.5900	0.30	1	0	59.0	70	130	0.74	22.6	30	S
2,2,4-trimethylpentane	1.030	0.15	1	0	103	70	130	1	2.96	30	

Qualifiers: . Results reported are not blank, corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040816	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID: ZZZZ		Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 128360					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	0.9400	0.15	1	0	94.0	70	130	0.87	7.73	30	
Acetone	0.7700	0.30	1	0	77.0	70	130	0.85	9.88	30	
Allyl chloride	0.7800	0.15	1	0	78.0	70	130	0.71	9.40	30	
Benzene	0.9500	0.15	1	0	95.0	70	130	0.91	4.30	30	
Benzyl chloride	0.7100	0.15	1	0	71.0	70	130	0.95	28.9	30	
Bromodichloromethane	1.110	0.15	1	0	111	70	130	1.05	5.56	30	
Bromoform	2.130	0.15	1	0	213	70	130	2.13	0	30	S
Bromomethane	0.9700	0.15	1	0	97.0	70	130	0.89	8.60	30	
Carbon disulfide	0.7600	0.15	1	0	76.0	70	130	0.77	1.31	30	
Carbon tetrachloride	1.160	0.040	1	0	116	70	130	1.08	7.14	30	
Chlorobenzene	0.9300	0.15	1	0	93.0	70	130	0.9	3.28	30	
Chloroethane	0.8000	0.15	1	0	80.0	70	130	0.86	7.23	30	
Chloroform	0.7800	0.15	1	0	78.0	70	130	0.76	2.60	30	
Chloromethane	0.8500	0.15	1	0	85.0	70	130	0.82	3.59	30	
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130	0.72	0	30	
cis-1,3-Dichloropropene	1.070	0.15	1	0	107	70	130	1.06	0.939	30	
Cyclohexane	0.8800	0.15	1	0	88.0	70	130	0.87	1.14	30	
Dibromochloromethane	1.030	0.15	1	0	103	70	130	0.97	6.00	30	
Ethyl acetate	0.7100	0.25	1	0	71.0	70	130	0.71	0	30	
Ethylbenzene	0.7500	0.15	1	0	75.0	70	130	0.8	6.45	30	
Freon 11	0.9900	0.15	1	0	99.0	70	130	0.94	5.18	30	
Freon 113	1.060	0.15	1	0	100	70	130	0.96	4.08	30	
Freon 114	0.8800	0.15	1	0	88.0	70	130	0.87	1.14	30	
Freon 12	0.9500	0.15	1	0	95.0	70	130	0.9	5.41	30	
Heptane	0.7100	0.15	1	0	71.0	70	130	0.76	6.80	30	
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Hexane	0.6600	0.15	1	0	66.0	70	130	0.66	0	30	S
Isopropyl alcohol	0.7300	0.15	1	0	73.0	70	130	0.75	2.70	30	
m&p-Xylene	1.510	0.30	2	0	75.5	70	130	1.6	5.79	30	
Methyl Butyl Ketone	0.4100	0.30	1	0	41.0	70	130	0.61	39.2	30	SR
Methyl Ethyl Ketone	0.7200	0.30	1	0	72.0	70	130	0.75	4.08	30	

Qualifiers: . Results reported are not blank corrected

J Analyte detected at or below quantitation limits

S Spike Recovery outside accepted recovery limits

E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1604014

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-040816	SampleType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10855					
Client ID: ZZZZZ		Batch ID: R10855	TestNo: TO-15		Analysis Date: 4/8/2016	SeqNo: 128360					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl isobutyl Ketone	0.4400	0.30	1	0	44.0	70	130	0.71	47.0	30	SR
Methyl tert-butyl ether	0.7000	0.15	1	0	70.0	70	130	0.71	1.42	30	
Methylene chloride	0.9100	0.15	1	0	91.0	70	130	0.92	1.09	30	
o-Xylene	0.7900	0.15	1	0	79.0	70	130	0.84	6.13	30	
Propylene	0.7100	0.15	1	0	71.0	70	130	0.75	5.48	30	
Styrene	0.9100	0.15	1	0	91.0	70	130	0.97	6.38	30	
Tetrachloroethylene	0.8500	0.15	1	0	85.0	70	130	0.84	1.18	30	
Tetrahydrofuran	0.8100	0.15	1	0	81.0	70	130	0.71	13.2	30	
Toluene	0.7900	0.15	1	0	79.0	70	130	0.78	1.27	30	
trans-1,2-Dichloroethene	0.7100	0.15	1	0	71.0	70	130	0.71	0	30	
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130	1.09	3.60	30	
Trichloroethene	1.100	0.040	1	0	110	70	130	1.04	5.61	30	
Vinyl acetate	0.8300	0.15	1	0	83.0	70	130	0.87	4.71	30	
Vinyl Bromide	0.9000	0.15	1	0	90.0	70	130	0.9	0	30	
Vinyl chloride	0.7500	0.040	1	0	75.0	70	130	0.7	6.90	30	
Surr: Bromofluorobenzene	1.040	0	1	0	104	70	130	0	0	30	

Qualifiers: . Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\AN040721.D
 Acq On : 7 Apr 2016 9:46 pm
 Sample : ALCS1UGD-040716
 Misc : A316_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Apr 11 11:09:58 2016

Vial: 55
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Apr 07 13:07:26 2016
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.81	128	26184m	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.06	114	61175	1.00	ppb	0.00
50) Chlorobenzene-d5	16.56	117	52386	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.13	95	38061	1.13	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	113.00%

Target Compounds

						Qvalue
2) Propylene	4.14	41	24922	1.17	ppb	# 100
3) Freon 12	4.19	85	133142m	1.19	ppb	
4) Chloromethane	4.39	50	34615	1.18	ppb	96
5) Freon 114	4.39	85	112416m	1.19	ppb	
6) Vinyl Chloride	4.59	62	30979	1.05	ppb	92
7) Butane	4.68	43	38599	1.15	ppb	90
8) 1,3-butadiene	4.69	39	23680	1.07	ppb	73
9) Bromomethane	5.04	94	39613	1.15	ppb	95
10) Chloroethane	5.21	64	13289	1.11	ppb	88
11) Ethanol	5.37	45	9124	1.02	ppb	89
12) Acrolein	5.96	56	8443m	1.11	ppb	
13) Vinyl Bromide	5.54	106	38846	1.14	ppb	99
14) Freon 11	5.80	101	129898	1.13	ppb	100
15) Acetone	6.05	58	9512m	0.84	ppb	
16) Pentane	6.07	42	25448	0.99	ppb	81
17) Isopropyl alcohol	6.15	45	29148	0.79	ppb	# 46
18) 1,1-dichloroethene	6.56	96	36724	1.09	ppb	# 88
19) Freon 113	6.74	101	96662	1.19	ppb	96
20) t-Butyl alcohol	6.90	59	31236	0.53	ppb	# 71
21) Methylene chloride	7.05	84	34798	1.18	ppb	93
22) Allyl chloride	7.02	41	25699	0.98	ppb	77
23) Carbon disulfide	7.20	76	89881	1.04	ppb	99
24) trans-1,2-dichloroethene	8.00	61	41087	1.03	ppb	92
25) methyl tert-butyl ether	8.03	73	74777	0.99	ppb	89
26) 1,1-dichloroethane	8.39	63	59555	1.06	ppb	98
27) Vinyl acetate	8.43	43	44017	0.90	ppb	95
28) Methyl Ethyl Ketone	8.94	72	12353	1.02	ppb	# 100
29) cis-1,2-dichloroethene	9.34	61	32969	1.01	ppb	90
30) Hexane	8.90	57	32855	0.96	ppb	96
31) Ethyl acetate	9.53	43	40894	0.88	ppb	87
32) Chloroform	9.95	83	75910	0.99	ppb	98
33) Tetrahydrofuran	10.16	42	38787m	1.79	ppb	
34) 1,2-dichloroethane	11.08	62	41072	0.96	ppb	88
36) 1,1,1-trichloroethane	10.74	97	69872m	1.22	ppb	
37) Cyclohexane	11.44	56	29395	1.24	ppb	# 85
38) Carbon tetrachloride	11.38	117	82777	1.29	ppb	97
39) Benzene	11.36	78	62793	1.23	ppb	98
40) Methyl methacrylate	12.92	41	16718	1.01	ppb	# 77
41) 1,4-dioxane	13.02	88	4821	0.37	ppb	96
42) 2,2,4-trimethylpentane	12.18	57	112123m	1.26	ppb	
43) Heptane	12.52	43	22731	1.10	ppb	91
44) Trichloroethene	12.68	130	31788	1.22	ppb	98
45) 1,2-dichloropropane	12.79	63	22437	1.22	ppb	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AN040721.D

Vial: 55

Acq On : 7 Apr 2016 9:46 pm

Operator: RJP

Sample : ALCS1UGD-040716

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 11 11:09:58 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.11	83	50979m	1.13	ppb	
47) cis-1,3-dichloropropene	13.90	75	30924m	1.26	ppb	
48) trans-1,3-dichloropropene	14.63	75	26201m	1.19	ppb	
49) 1,1,2-trichloroethane	14.93	97	25842m	1.28	ppb	
51) Toluene	14.67	92	71209	2.00	ppb	93
52) Methyl Isobutyl Ketone	13.84	43	14264m	0.23	ppb	
53) Dibromochloromethane	15.60	129	48054m	1.07	ppb	
54) Methyl Butyl Ketone	15.12	43	16812m	0.30	ppb	
55) 1,2-dibromoethane	15.86	107	47856	1.08	ppb	95
56) Tetrachloroethylene	15.66	164	28103	0.83	ppb	98
57) Chlorobenzene	16.60	112	53631	1.15	ppb	88
58) 1,1,1,2-tetrachloroethane	16.70	131	42886	1.23	ppb	96
59) Ethylbenzene	16.84	91	69138	1.13	ppb	95
60) m&p-xylene	17.04	91	114302	2.36	ppb	97
61) Nonane	17.38	43	32323	1.12	ppb	97
62) Styrene	17.46	104	40777	1.21	ppb	93
63) Bromoform	17.58	173	55060	2.27	ppb	99
64) o-xylene	17.48	91	69083m	1.19	ppb	
65) Cumene	18.01	105	81927	1.20	ppb	98
67) 1,1,2,2-tetrachloroethane	17.92	83	68174	1.14	ppb	99
68) Propylbenzene	18.53	91	84079m	1.16	ppb	
69) 2-Chlorotoluene	18.58	91	73394m	1.40	ppb	
70) 4-ethyltoluene	18.70	105	64506m	1.04	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	88057m	1.19	ppb	
72) 1,2,4-trimethylbenzene	19.18	105	60339	0.94	ppb	93
73) 1,3-dichlorobenzene	19.48	146	45963	1.13	ppb	98
74) benzyl chloride	19.56	91	54812m	0.94	ppb	
75) 1,4-dichlorobenzene	19.61	146	40525	1.06	ppb	93
76) 1,2,3-trimethylbenzene	19.65	105	76394	0.97	ppb	96
77) 1,2-dichlorobenzene	19.93	146	48969	0.98	ppb	97
78) 1,2,4-trichlorobenzene	21.94	180	27472m	0.73	ppb	
79) Naphthalene	22.21	128	31058m	0.40	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	112075m	1.22	ppb	

QUALIFICATION REPORT (U.S. Reviewed)

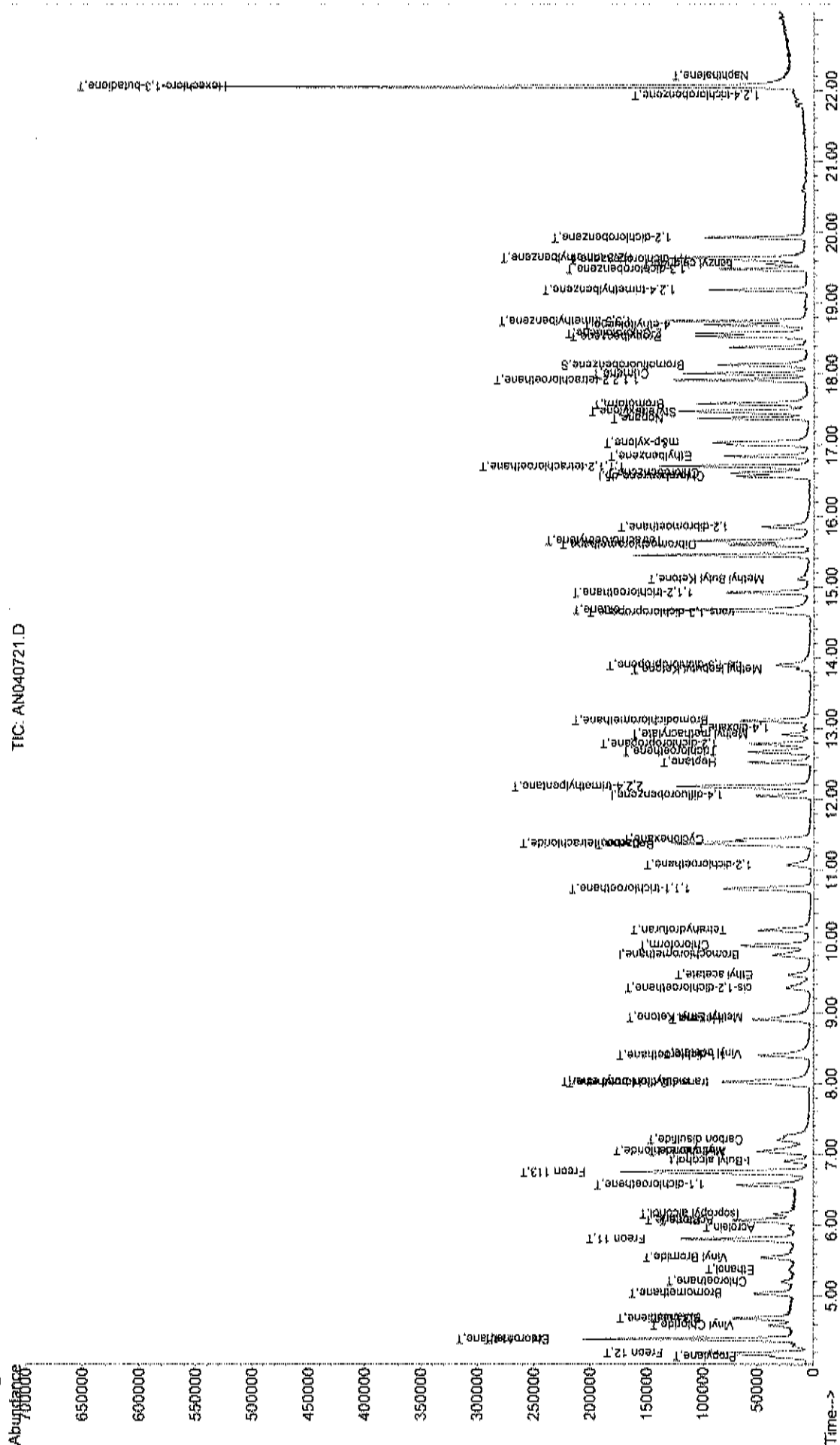
Data File : C:\HPCHEM\1\DATA\AN040721.D
Acq On : 7 Apr 2016 9:46 pm
Sample : ALCS1UGD-040716
Misc : A316_1UG
MMS Integration Params: RTEINT.P
Quant Time: May 13 11:32 2016

Vial: 55
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316 1UG.RES

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Method      : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 27 10:36:04 2016
Response via : Initial Calibration
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TIC: AN040721.D



AN040721.D	A316	1UG.M	Fri May 13	11:41:44	2016	MSD1
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Data File : C:\HPCHEM\1\DATA\AN040817.D

Vial: 38

Acq On : 8 Apr 2016 11:58 pm

Operator: RJP

Sample : ALCS1UGD-040816

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 11 11:58:27 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.80	128	34735	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.05	114	78448	1.00	ppb	0.00
50) Chlorobenzene-d5	16.56	117	56597	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.13	95	37975	1.04	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	104.00%

Target Compounds

						Qvalue
2) Propylene	4.14	41	20094	0.71	ppb	# 100
3) Freon 12	4.19	85	140359	0.95	ppb	100
4) Chloromethane	4.39	50	32927	0.85	ppb	93
5) Freon 114	4.39	85	110084	0.88	ppb	81
6) Vinyl Chloride	4.59	62	29420	0.75	ppb	88
7) Butane	4.68	43	35457	0.79	ppb	95
8) 1,3-butadiene	4.68	39	23364	0.79	ppb	95
9) Bromomethane	5.03	94	44361	0.97	ppb	98
10) Chloroethane	5.20	64	12662	0.80	ppb	92
11) Ethanol	5.37	45	8431	0.71	ppb	# 66
12) Acrolein	5.97	56	7784	0.77	ppb	# 5
13) Vinyl Bromide	5.54	106	40601	0.90	ppb	96
14) Freon 11	5.80	101	151050	0.99	ppb	98
15) Acetone	6.04	58	11510	0.77	ppb	# 81
16) Pentane	6.06	42	23853	0.70	ppb	99
17) Isopropyl alcohol	6.15	45	35505m	0.73	ppb	
18) 1,1-dichloroethene	6.56	96	39173	0.88	ppb	93
19) Freon 113	6.74	101	107924	1.00	ppb	97
20) t-Butyl alcohol	6.89	59	36708	0.47	ppb	# 67
21) Methylene chloride	7.04	84	35460	0.91	ppb	98
22) Allyl chloride	7.02	41	27030m	0.78	ppb	
23) Carbon disulfide	7.20	76	87056	0.76	ppb	96
24) trans-1,2-dichloroethene	8.01	61	37689	0.71	ppb	81
25) methyl tert-butyl ether	8.02	73	70099m	0.70	ppb	
26) 1,1-dichloroethane	8.39	63	57385	0.77	ppb	96
27) Vinyl acetate	8.43	43	53843m	0.83	ppb	
28) Methyl Ethyl Ketone	8.93	72	11525	0.72	ppb	# 100
29) cis-1,2-dichloroethene	9.34	61	31138m	0.72	ppb	
30) Hexane	8.90	57	30007m	0.66	ppb	
31) Ethyl acetate	9.52	43	43703m	0.71	ppb	
32) Chloroform	9.93	83	79214	0.78	ppb	98
33) Tetrahydrofuran	10.15	42	23270m	0.81	ppb	
34) 1,2-dichloroethane	11.07	62	45808m	0.80	ppb	
36) 1,1,1-trichloroethane	10.74	97	78338	1.06	ppb	99
37) Cyclohexane	11.44	56	26665	0.88	ppb	# 78
38) Carbon tetrachloride	11.38	117	95032	1.16	ppb	99
39) Benzene	11.36	78	62189	0.95	ppb	95
40) Methyl methacrylate	12.91	41	14474	0.68	ppb	# 60
41) 1,4-dioxane	13.01	88	9850	0.59	ppb	100
42) 2,2,4-trimethylpentane	12.18	57	117084	1.03	ppb	96
43) Heptane	12.52	43	18867	0.71	ppb	85
44) Trichloroethene	12.67	130	36549	1.10	ppb	94
45) 1,2-dichloropropane	12.78	63	20727	0.88	ppb	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AN040817.D

Vial: 38

Acq On : 8 Apr 2016 11:58 pm

Operator: RJP

Sample : ALCS1UGD-040816

Inst : MSD #1

Misc : A316_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Apr 11 11:58:27 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Apr 07 13:07:26 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.11	83	63828	1.11	ppb	100
47) cis-1,3-dichloropropene	13.90	75	33444	1.07	ppb	94
48) trans-1,3-dichloropropene	14.62	75	31760	1.13	ppb	94
49) 1,1,2-trichloroethane	14.92	97	31322	1.21	ppb	98
51) Toluene	14.67	92	30331m	0.79	ppb	
52) Methyl Isobutyl Ketone	13.83	43	29758	0.44	ppb	97
53) Dibromochloromethane	15.60	129	50035m	1.03	ppb	
54) Methyl Butyl Ketone	15.11	43	24977m	0.41	ppb	
55) 1,2-dibromoethane	15.85	107	47277	0.99	ppb	93
56) Tetrachloroethylene	15.65	164	31215	0.85	ppb	100
57) Chlorobenzene	16.60	112	46683	0.93	ppb	85
58) 1,1,1,2-tetrachloroethane	16.70	131	40263	1.07	ppb	96
59) Ethylbenzene	16.84	91	49299	0.75	ppb	94
60) m&p-xylene	17.03	91	79000	1.51	ppb	90
61) Nonane	17.37	43	22189	0.71	ppb	98
62) Styrene	17.46	104	33298	0.91	ppb	82
63) Bromoform	17.58	173	55907	2.13	ppb	100
64) o-xylene	17.48	91	49292m	0.79	ppb	
65) Cumene	18.01	105	60390	0.82	ppb	96
67) 1,1,2,2-tetrachloroethane	17.91	83	64579	1.00	ppb	100
68) Propylbenzene	18.53	91	73506m	0.94	ppb	
69) 2-Chlorotoluene	18.57	91	53757m	0.95	ppb	
70) 4-ethyltoluene	18.69	105	62690m	0.94	ppb	
71) 1,3,5-trimethylbenzene	18.75	105	78559m	0.98	ppb	
72) 1,2,4-trimethylbenzene	19.18	105	58070	0.84	ppb	90
73) 1,3-dichlorobenzene	19.48	146	50557	1.15	ppb	94
74) benzyl chloride	19.56	91	44663m	0.71	ppb	
75) 1,4-dichlorobenzene	19.61	146	43829	1.06	ppb	96
76) 1,2,3-trimethylbenzene	19.65	105	72154	0.84	ppb	90
77) 1,2-dichlorobenzene	19.92	146	59293	1.10	ppb	94
78) 1,2,4-trichlorobenzene	21.78	180	29387m	0.72	ppb	
79) Naphthalene	22.11	128	46053m	0.54	ppb	
80) Hexachloro-1,3-butadiene	22.06	225	106762	1.08	ppb	96

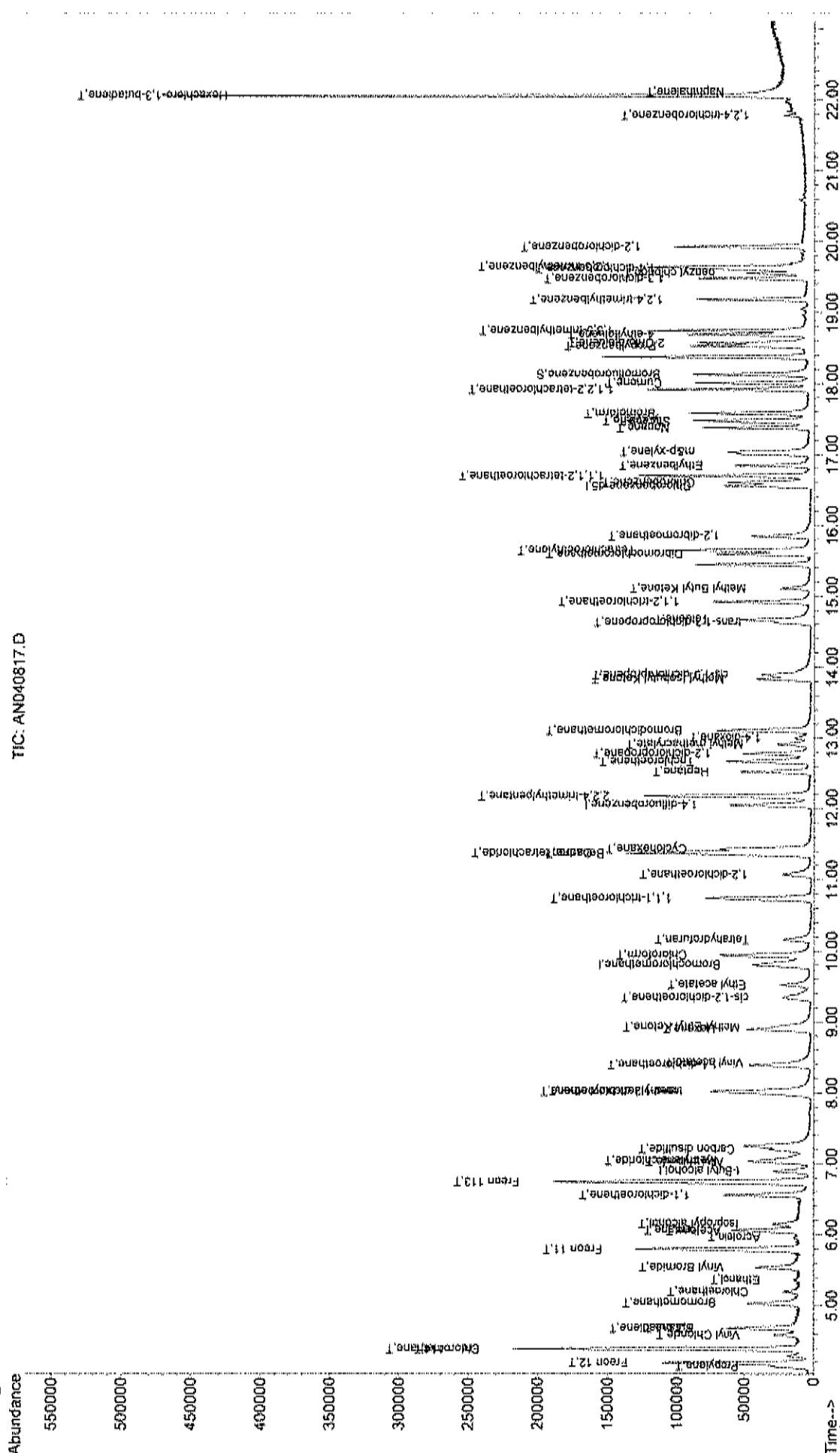
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AN040817.D A316_1UG.M Fri May 13 11:41:51 2016 MSD1

Quantitation Report

Quant Results File: A316 1UG.RES

```
Method      : C:\HPCHEM\1\METHODS\A316_LUG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 27 10:36:04 2016
Response via : Initial Calibration
```

TIC: AN040817.D



AN040817.D	A316	1UG.M	Fri May 13 11:41:52 2016	MSD1
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GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Injection Log

Directory: C:\HPCHEM\1\DATA

Instrument # 1
 Internal Standard Stock # A1347
 Standard Stock # 1347
 LCS Stock # 1347
 Misc Info Injected
 Method Ref: EPA TC-15 / Jan. 1999

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
16	3	An040603.d	1.	A1UG_1.0	A316_1UG	6 Apr 2016 09:39
16	4	An040604.d	1.	ALCS1UG-040616	A316_1UG	6 Apr 2016 10:43
168	5	An040605.d	1.	AMB1UG-040616	A316_1UG	6 Apr 2016 11:20
169	1	An040606.d	1.	C1603083-003A 10X	A316_1UG	6 Apr 2016 12:04
170	2	An040607.d	1.	C1603083-005A 5X	A316_1UG	6 Apr 2016 12:41
171	3	An040608.d	1.	C1603083-006A 5X	A316_1UG	6 Apr 2016 13:18
172	4	An040609.d	1.	C1603083-007A 10X	A316_1UG	6 Apr 2016 13:55
173	5	An040610.d	1.	C1603083-007A 40X	A316_1UG	6 Apr 2016 14:31
174	6	An040611.d	1.	C1603083-008A 9X	A316_1UG	6 Apr 2016 15:10
175	7	An040612.d	1.	C1603083-008A 90X	A316_1UG	6 Apr 2016 15:47
176	9	An040613.d	1.	C1603083-009A 10X	A316_1UG	6 Apr 2016 16:23
177	10	An040614.d	1.	C1603083-010A 10X	A316_1UG	6 Apr 2016 17:00
178	11	An040615.d	1.	C1603083-011A 10X	A316_1UG	6 Apr 2016 17:37
179	12	An040616.d	1.	C1603083-013A 10X	A316_1UG	6 Apr 2016 18:13
180	13	An040617.d	1.	C1603083-014A 5X	A316_1UG	6 Apr 2016 18:50
181	14	An040618.d	1.	C1603083-015A 10X	A316_1UG	6 Apr 2016 19:27
182	15	An040619.d	1.	C1603083-016A 10X	A316_1UG	6 Apr 2016 20:03
183	16	An040620.d	1.	C1603083-016A 40X	A316_1UG	6 Apr 2016 20:40
184	17	An040621.d	1.	C1603083-017A 270X	A316_1UG	6 Apr 2016 21:16
185	18	An040622.d	1.	C1603083-018A 10X	A316_1UG	6 Apr 2016 21:53
86	19	An040623.d	1.	C1603083-018A 40X	A316_1UG	6 Apr 2016 22:29
87	20	An040624.d	1.	C1603083-019A 5X	A316_1UG	6 Apr 2016 23:06
88	21	An040625.d	1.	ALCS1UGD-040616	A316_1UG	6 Apr 2016 23:45
89	22	An040626.d	1.	C1603083-001A 9X	A316_1UG	7 Apr 2016 00:24
90	23	An040627.d	1.	C1603083-001A 90X	A316_1UG	7 Apr 2016 01:01
91	24	An040628.d	1.	C1603083-002A 9X	A316_1UG	7 Apr 2016 01:39
92	5	An040629.d	1.	C1603083-002A 90X	A316_1UG	7 Apr 2016 02:16
93	26	An040630.d	1.	C1603083-004A 10X	A316_1UG	7 Apr 2016 02:53
94	27	An040631.d	1.	C1603083-004A 40X	A316_1UG	7 Apr 2016 03:29
95	28	An040632.d	1.	C1603083-012A 10X	A316_1UG	7 Apr 2016 04:06
96	29	An040633.d	1.	C1603083-012A 40X	A316_1UG	7 Apr 2016 04:42
97	30	An040634.d	1.	C1604016-009A	A316_1UG	7 Apr 2016 05:21
98	31	An040635.d	1.	C1604016-001A	A316_1UG	7 Apr 2016 06:00
99	32	An040636.d	1.	C1604016-003A	A316_1UG	7 Apr 2016 06:39
00	33	An040637.d	1.	C1604016-005A	A316_1UG	7 Apr 2016 07:18
01	34	An040638.d	1.	C1604016-007A	A316_1UG	7 Apr 2016 07:57
02		An040639.d	1.	No MS or GC data present		
03	35	An040701.d	1.	BFB1UG	A316_1UG	7 Apr 2016 08:42
04	36	An040702.d	1.	A1UG	A316_1UG	7 Apr 2016 09:25
05	37	An040703.d	1.	A1UG_1.0	A316_1UG	7 Apr 2016 10:03
06	38	An040704.d	1.	ALCS1UG-040716	A316_1UG	7 Apr 2016 10:42
07	39	An040705.d	1.	AMB1UG-040716	A316_1UG	7 Apr 2016 11:19
08	40	An040706.d	1.	C1604016-009A 5X	A316_1UG	7 Apr 2016 11:56
09	41	An040707.d	1.	C1604016-001A 5X	A316_1UG	7 Apr 2016 12:33
10	42	An040708.d	1.	C1604016-005A 10X	A316_1UG	7 Apr 2016 13:10
11	43	An040709.d	1.	C1604016-007A 5X	A316_1UG	7 Apr 2016 13:47
12	44	An040710.d	1.	C1604016-002A	A316_1UG	7 Apr 2016 14:35
13	45	An040711.d	1.	C1604016-004A	A316_1UG	7 Apr 2016 15:14
14	46	An040712.d	1.	C1604016-006A	A316_1UG	7 Apr 2016 15:53
15	47	An040713.d	1.	C1604016-008A	A316_1UG	7 Apr 2016 16:32
16	48	An040714.d	1.	C1604021-004A	A316_1UG	7 Apr 2016 17:11
17	49	An040715.d	1.	C1604021-001A	A316_1UG	7 Apr 2016 17:50
18		An040716.d	1.	C1604021-002A	A316_1UG	7 Apr 2016 18:29
19	51	An040717.d	1.	C1604021-003A	A316_1UG	7 Apr 2016 19:08
20	52	An040718.d	1.	C1604019-003A	A316_1UG	7 Apr 2016 19:49

Injection Log

Directory: C:\HPCHEM\1\DATA

Standard Stock # A1347
 Standard Stock # A1348
 Standard Stock # 1348
 Method Ref: EPA TO-15 / Jan 1999

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
22	53	An040719.d	1.	C1604019-001A	A316_1UG	7 Apr 2016 20:28
22	54	An040720.d	1.	C1604019-002A	A316_1UG	7 Apr 2016 21:07
23	55	An040721.d	1.	ALCS1UGD-040716	A316_1UG	7 Apr 2016 21:46
24	56	An040722.d	1.	C1604013-001A	A316_1UG	7 Apr 2016 22:25
25	57	An040723.d	1.	C1604013-002A	A316_1UG	7 Apr 2016 23:04
26	58	An040724.d	1.	C1604014-001A	A316_1UG	7 Apr 2016 23:42
27	59	An040725.d	1.	C1604014-002A	A316_1UG	8 Apr 2016 00:21
28	60	An040726.d	1.	C1604016-002A 20X	A316_1UG	8 Apr 2016 00:58
29	61	An040727.d	1.	C1604016-004A 10X	A316_1UG	8 Apr 2016 01:34
30	62	An040728.d	1.	C1604016-004A 40X	A316_1UG	8 Apr 2016 02:10
31	63	An040729.d	1.	C1604016-006A 10X	A316_1UG	8 Apr 2016 02:47
32	64	An040730.d	1.	C1604016-008A 10X	A316_1UG	8 Apr 2016 03:24
33	65	An040731.d	1.	C1604021-004A 5x	A316_1UG	8 Apr 2016 04:00
34	66	An040732.d	1.	C1604021-001A 5x	A316_1UG	8 Apr 2016 04:37
35	67	An040733.d	1.	C1604021-002A 5x	A316_1UG	8 Apr 2016 05:14
36	68	An040734.d	1.	C1604021-003A 5x	A316_1UG	8 Apr 2016 05:51
37	69	An040735.d	1.	C1604019-003A 5x	A316_1UG	8 Apr 2016 06:31
38	70	An040736.d	1.	C1604019-001A 10x	A316_1UG	8 Apr 2016 07:08
39	71	An040737.d	1.	C1604019-001A 40x	A316_1UG	8 Apr 2016 07:45
40	72	An040738.d	1.	C1604019-002A 10x	A316_1UG	8 Apr 2016 08:22
41	73	An040739.d	1.	C1604019-002A 40x	A316_1UG	8 Apr 2016 08:59
42	1	An040801.d	1.	BFB1UG	A316_1UG	8 Apr 2016 12:41
43	2	An040802.d	1.	BFB1UG	A316_1UG	8 Apr 2016 13:24
44	3	An040803.d	1.	A1UG_2.0	A316_1UG	8 Apr 2016 14:42
45	4	An040804.d	1.	A1UG_1.0	A316_1UG	8 Apr 2016 15:30
46	5	An040805.d	1.	A1UG_1.0	A316_1UG	8 Apr 2016 16:12
47		An040806.d	1.	ALCS1UG-040816	A316_1UG	8 Apr 2016 16:54
48		An040807.d	1.	AMB1UG-040816	A316_1UG	8 Apr 2016 17:36
49	24	An040808.d	1.	C1604016-004A 20X	A316_1UG	8 Apr 2016 18:29
50	38	An040809.d	1.	C1604013-001A 10X	A316_1UG	8 Apr 2016 19:05
51	38	An040810.d	1.	C1604013-001A 20X	A316_1UG	8 Apr 2016 19:42
52	39	An040811.d	1.	C1604013-002A 10X	A316_1UG	8 Apr 2016 20:18
53	39	An040812.d	1.	C1604013-002A 40X	A316_1UG	8 Apr 2016 20:54
54	30	An040813.d	1.	C1604014-001A 10X	A316_1UG	8 Apr 2016 21:30
55	31	An040814.d	1.	C1604014-002A 10X	A316_1UG	8 Apr 2016 22:07
56	36	An040815.d	1.	C1604019-001A 160X	A316_1UG	8 Apr 2016 22:43
57	37	An040816.d	1.	C1604019-002A 160X	A316_1UG	8 Apr 2016 23:19
58	38	An040817.d	1.	ALCS1UGD-040816	A316_1UG	8 Apr 2016 23:58
59	44	An040818.d	1.	C1604016-003A 5X	A316_1UG	9 Apr 2016 00:35
60	1	An041101.d	1.	BFB1UG	A316_1UG	11 Apr 2016 14:40
61	2	An041102.d	1.	BFB1UG	A316_1UG	11 Apr 2016 15:21
62	3	An041103.d	1.	BFB1UG	A316_1UG	11 Apr 2016 16:09
63	4	An041104.d	1.	A1UG	A316_1UG	11 Apr 2016 16:52
64	5	An041105.d	1.	A1UG	A316_1UG	11 Apr 2016 17:39
65	6	An041106.d	1.	A1UG_1.0	A411_1UG INIT CAL	11 Apr 2016 18:31
66	7	An041107.d	1.	A1UG_0.75	A411_1UG INIT CAL	11 Apr 2016 19:08
67	8	An041108.d	1.	A1UG_0.50	A411_1UG INIT CAL	11 Apr 2016 19:46
68	9	An041109.d	1.	A1UG_0.30	A411_1UG INIT CAL	11 Apr 2016 20:23
69	10	An041110.d	1.	A1UG_0.15	A411_1UG INIT CAL	11 Apr 2016 20:59
70	11	An041111.d	1.	A1UG_0.10	A411_1UG INIT CAL	11 Apr 2016 21:35
71	12	An041112.d	1.	A1UG_0.04	A411_1UG INIT CAL	11 Apr 2016 22:11
72	13	An041113.d	1.	A1UG_1.25	A411_1UG INIT CAL	11 Apr 2016 22:51
73		An041114.d	1.	A1UG_1.50	A411_1UG INIT CAL	11 Apr 2016 23:31
74	15	An041115.d	1.	A1UG_2.0	A411_1UG INIT CAL	12 Apr 2016 00:12
75	16	An041116.d	1.	A1UG_1.0	A411_1UG INIT CAL	12 Apr 2016 00:51

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-1201	1/15/16	1/23/16	TO15 APH	A1188	1ppm	1.5	30	50	no	
A-1202	↓	↓	TO15 IUG APH	A1201	50ppb	0.9	45	1	↓	
A-1203	1/15/16	1/15/16	TO15 MIX	-	1ppm	LINDO TO15 MIX		1ppm	no	
A-1204	1/18/16	1/18/16	LCS TO15	LL	A0534 STD IS NOW LCS		1ppm	7.2		
A-1205	1/18/16	1/25/16	TO15 JS	A1174	1ppm	1.5	30	50ppb	no	
A-1206	↓	↓	LCS	A1204	↓	↓	↓	↓	↓	
A-1207	↓	↓	STD	A1203	↓	↓	45	↓	↓	
A-1208	↓	↓	TO15 FORM	A0974	11.5ppm	0.20	↓	↓	↓	
A-1209	↓	↓	SILOX	A1204 A1205	100% / 500ppb	3.0	30	↓	↓	
A-1210	↓	↓	GULF	A0276	1ppm	1.5	↓	500ppb	↓	
A-1211	↓	↓	H2S	A0265	10ppm	↓	↓	50ppb	↓	
A-1212	↓	↓	TO15 HACH	9519	1ppm	1.5	30	50ppb	↓	
A-1213	↓	↓	↓ HACH	A1212	50ppb	3.0	↓	5ppb	↓	
A-1214	↓	↓	TO15 IUG IS	A1205	↓	0.9	45	1ppb	↓	
A-1215	↓	↓	STD	A1207	↓	↓	↓	↓	↓	
A-1216	↓	↓	LCS	A1206	↓	↓	↓	↓	↓	
A-1217	1/25/16	2/1/16	TO15 IS	A1174	1ppm	1.5	30	50ppb	WD	
A-1218	↓	↓	STD	A1203	↓	↓	↓	↓	↓	
A-1219	↓	↓	LCS	A1204	↓	↓	↓	↓	↓	
A-1220	↓	↓	4PCH	9519	↓	↓	↓	↓	↓	
A-1221	↓	↓	4PCH	A1220	50ppb	3.0	30	5	↓	

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-1285	2/29/16	3/7/16	TO15 H2S	A0269	10 ppm	1.5	30	500	WD	
A-1286			TO15 146 IS	A1277	50 ppb	0.9	45	1		
A-1287			↓	A1278	↓	↓	↓	↓	↓	
A-1288			↓	A1279	↓	↓	↓	↓	↓	
A-1289	3/1/16	3/1/17	TO15 IS	FF-4969	LINDE	2100 psig		1 ppm	WD	
A-1290	3/7/16	3/14/16	TO15 IS	A1289	1 ppm	1.5	30	50	WD	
A-1291			↓	A1203	↓	↓	↓	↓	↓	
A-1292			LCS	A1204	↓	↓	↓	↓	↓	
A-1293			4PCH	9519	↓	↓	↓	↓	↓	
A-1294			4PCH	A1293	50 ppb	3.0	30	5		
A-1295			FORM	A0974	11.5 ppm	0.20	45	50		
A-1296			↓	A1088 A1089	500 ppb	3.0	30	50		
A-1297			↓	H0270	1 ppm	1.5	30	50		
A-1298			↓	H2S	10 ppm	1.5	30	500		
A-1299			TO15 146 IS	A1290	50 ppb	0.9	45	1		
A-1300			↓	A1291	↓	↓	↓	↓	↓	
A-1301			↓	A1292	↓	↓	↓	↓	↓	
A-1302	3/14/16	3/21/16	TO15 IS	A1289	1 ppm	1.5	30	50	WD	
A-1303			↓	A1203	↓	↓	↓	↓	↓	
A-1304			LCS	A1204	↓	↓	↓	↓	↓	
A-1305			↓	4PCH	9519	↓	↓	↓	↓	

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-1327	3/28/16	4/4/16	TO15	A1203	1 ppm	1.5	30	50	WD	
A-1328			LCS	A1204						
A-1329			4PCH	9519						
A-1330			4PCH	A1329	50 ppb	3.0	30	5		
A-1331			Form	A0974	11.5 ppm	0.20	45	50		
A-1332			SILUX	A1088 A1089	500 ppb	3.0	30	50		
A-1333			SULF	A0270	1 ppm	1.5	30	50		
A-1334			H ₂ S	A0270 A0271	10 ppm	1.5	30	500		
A-1335			TO15 146	A1326	50 ppb	0.9	45	1		
A-1336			5P	A1327						
A-1337			LCS	A1328						
A-1338	4/4/16	4/11/16	TO15	A1289	1 ppm	1.5	30	50	WD	
A-1339			STD	A1203						
A-1340			LCS	A1204						
A-1341			4PCH	9519						
A-1342			4PCH	A1341	50 ppb	3.0	30	5		
A-1343			Form	A0974	11.5 ppm	0.20	45	50		
A-1344			SILUX	A1088 A1089	500 ppb	3.0	30	50		
A-1345			SULF	A0270	1 ppm	1.5	30	50		
A-1346			H ₂ S	A0269	10 ppm	1.5	30	500		
A-1347			TO15 146	A1338	50 ppb	0.9	45	1		

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-1348	4/14/16	4/18/16	TD5 146 ^{STD} LC5	A1339	50 ppb	6.9	45	1	WD	
A-1349	↓	↓	↓	A1340	↓	↓	↓	↓	↓	
A-1350	4/14/16	4/18/16	TD5	A1289	1 ppm	1.5	30	50	WD	
A-1351	↓	↓	↓	A1203	↓	↓	↓	↓	↓	
A-1352	↓	↓	↓	A1204	↓	↓	↓	↓	↓	
A-1353	↓	↓	↓	9519	↓	↓	↓	↓	↓	
A-1354	↓	↓	↓	A1353	50 ppb	3.0	30	5	↓	
A-1355	↓	↓	↓	A0974	11.5 ppm	0.20	45	50	↓	
A-1356	↓	↓	↓	A1088 A1089	500 ppb	3.0	30	50	↓	
A-1357	↓	↓	↓	A0270	1 ppm	1.5	30	50	↓	
A-1358	↓	↓	↓	A0269	10 ppm	1.5	30	500	↓	
A-1359	↓	↓	↓	A1350	50 ppb	6.9	45	1	↓	
A-1360	↓	↓	↓	A1351	↓	↓	↓	↓	↓	
A-1361	↓	↓	↓	A1352	↓	↓	↓	↓	↓	
A-1362	4/18/16	4/25/16	TD15	A1289	1 ppm	1.5	30	50	WD	
A-1363	↓	↓	↓	A1203	↓	↓	↓	↓	↓	
A-1364	↓	↓	↓	A1204	↓	↓	↓	↓	↓	
A-1365	↓	↓	↓	9519	↓	↓	↓	↓	↓	
A-1366	↓	↓	↓	A1365	50 ppb	3.0	30	5	↓	
A-1367	↓	↓	↓	A0974	11.5 ppm	0.20	45	50	↓	
A-1368	↓	↓	↓	A1088 A1089	500 ppb	3.0	30	50	↓	

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

[illegible]

Cleaned by:

Form C151

Page # 159

Data File : C:\HPCHEM\1\DATA2\AN032510.D

Vial: 23

Acq On : 25 Mar 2016 5:37 pm

Operator: RJP

Sample : WAC032516C

Inst : MSD #1

Misc : A316_1UG QC Can

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: May 12 14:49:51 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed May 11 08:43:39 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	38540	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.07	114	91478	1.00	ppb	0.02
50) Chlorobenzene-d5	16.56	117	89919	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.13	95	53180	0.92	ppb	0.00
------------------------	-------	----	-------	------	-----	------

Spiked Amount	1.000	Range	70 - 130	Recovery	=	92.00%
---------------	-------	-------	----------	----------	---	--------

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\AN032510.D
Acq On : 25 Mar 2016 5:37 pm
Sample : WAC032516C
Misc : A316_1UG QC Can
MS Integration Params: RTEINT.P
Quant Time: May 13 12:01 2016

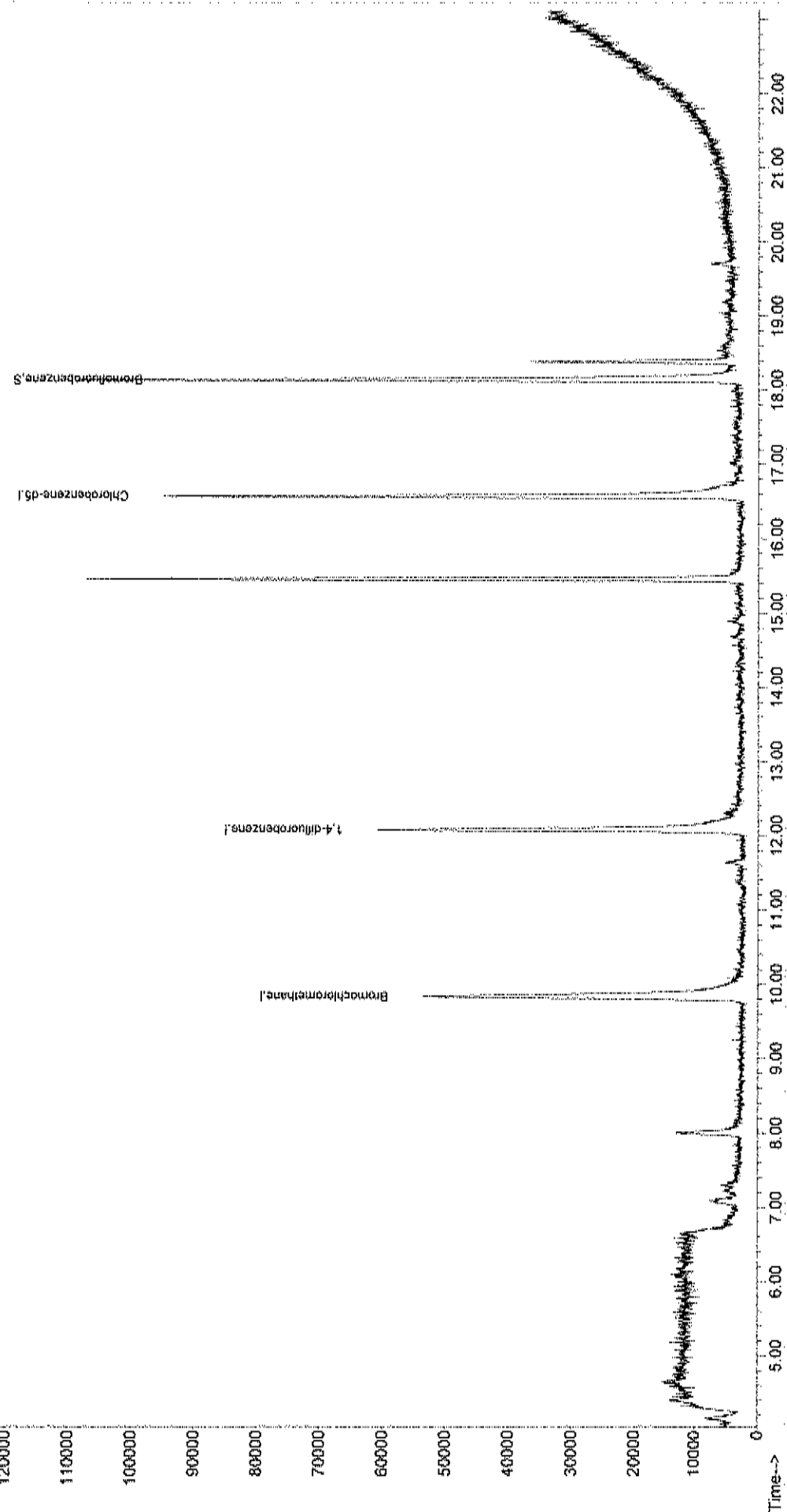
Vial: 23
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A316_1UG.RES

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 27 10:36:04 2016
Response via : Initial Calibration

Abundance
130000
120000
110000
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0

TIC: AN032510.D



Data File : C:\HPCHEM\1\DATA2\AN032511.D

Vial: 24

Acq On : 25 Mar 2016 6:16 pm

Operator: RJP

Sample : WAC032516D

Inst : MSD #1

Misc : A316_1UG QC Can

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: May 12 14:52:31 2016

Quant Results File: A316_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed May 11 08:43:39 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	38289	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.07	114	92845	1.00	ppb	0.02
50) Chlorobenzene-d5	16.56	117	87370	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.14	95	52990	0.94	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	94.00%

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\AN032511.D
Acq On : 25 Mar 2016 6:16 pm
Sample : WAC032516D
Misc : A316_1UG QC Can
MS Integration Params: RTEINT.P
Quant Time: May 12 14:52 2016

Vial: 24

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

Quant Results File: A316_1UG.RES

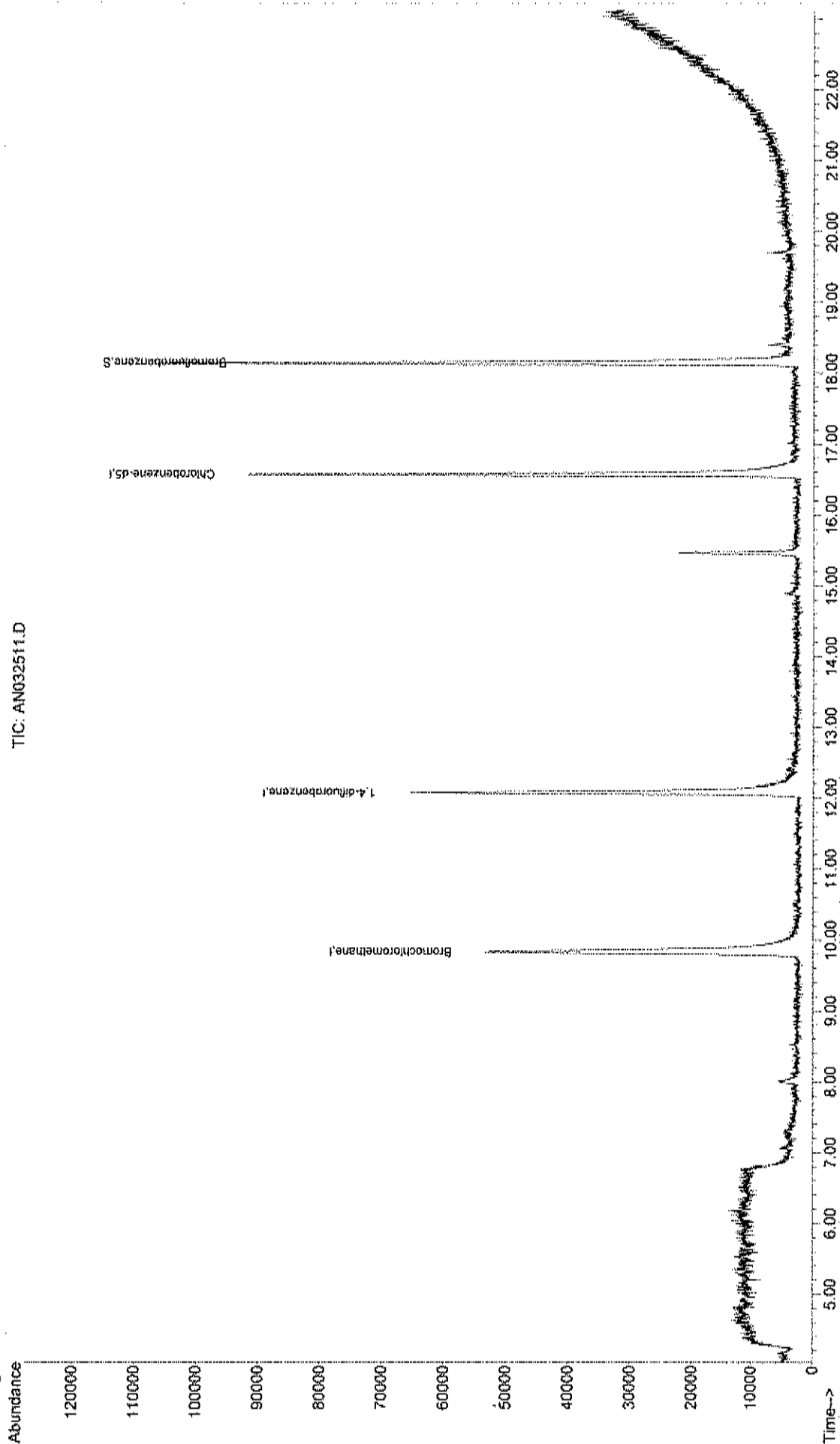
Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Wed Apr 27 10:36:04 2016

Response via : Initial Calibration

TIC: AN032511.D



TO-15 Package Review Checklist

Client: Labella Project: 690 St. Paul SDG: C1603001

		YES	NO	NA
Analytical Results	Present and Complete	☒	☐	☐
TIC's present	Present and Complete	☐	☐	☒
	Holding Times Met	☒	☐	☐

Comments: _____

Chain-of-Custody	Present and Complete	☒	☐	☐
Surrogate Recovery	Present and Complete	☒	☐	☐
	Recoveries within limits	☒	☐	☐
	Sample(s) reanalyzed	☐	☐	☐
Internal Standards Recovery	Present and Complete	☒	☐	☐
	Recoveries within limits	☒	☐	☐
	Sample(s) reanalyzed	☐	☐	☐

Comments: _____

Lab Control Sample (LCS)	Present and Complete	☒	☐	☐
	Recoveries within limits	☒	☐	☐
Lab Control Sample Dupe (LCSD)	Present and Complete	☒	☐	☐
	Recoveries within limits	☒	☐	☐
MS/MSD	Present and Complete	☐	☐	☒
	Recoveries within limits	☐	☐	☒

Comments: No ms/msd

Sample Raw Data	Present and Complete	☒	☐	☐
	Spectra present for all samples	☐	☐	☒

Comments: _____

TO-15 Package Review Checklist

Client: Labella Project: 690 St. Paul SDG: C/603001

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	☒	☐	☐
	Calibration(s) met criteria	☒	☐	☐
Continuing Calibration Summary	Present and Complete	☒	☐	☐
	Calibration(s) met criteria	☒	☐	☐
Standards Raw Data	Present and Complete	☒	☐	☐
Comments: _____				

		YES	NO	NA
Raw Quality Control Data				
Tune Criteria Report	Present and Complete	☒	☐	☐
Method Blank Data	MB Results <PQL	☒	☐	☒
	Associated results flagged "B"	☒	☐	☐
LCS sample data	Present and Complete	☒	☐	☐
LCSD sample data	Present and Complete	☒	☐	☐
MS/MSD sample data	Present and Complete	☐	☐	☒
Comments: _____				

		YES	NO	NA
Logbooks				
Injection Log	Present and Complete	☒	☐	☐
Standards Log	Present and Complete	☒	☐	☐
Can Cleaning Log	Present and Complete	☒	☐	☐
	Raw Data Present	☒	☐	☐
Calculation sheet	Present and Complete	☒	☐	☐
IDL's	Present and Complete	☒	☐	☐
Bottle Order Form	Present and Complete	☒	☐	☐
Sample Tracking Form	Present and Complete	☒	☐	☐

Additional Comments: _____

Section Supervisor: Will Dahl Date: 3/24/16

QC Supervisor: Will Dahl Date: 3/24/16

ASP CAT B DELIVERABLE PACKAGE

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CEN TEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206

Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752

NYSDOH ELAP

Certificate No. 11830

Analytical Report

Daniel Noll
LaBella Associates, P.C.
300 State Street, Suite 201
Rochester, NY 14614

Monday, March 07, 2016

Order No.: C1603001

TEL: (585) 454-6110

FAX (585) 454-3066

RE: 690 St Paul

Dear Daniel Noll:

Centek Laboratories, LLC received 2 sample(s) on 3/1/2016 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Centek Laboratories SOP TS-80

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

This report cannot be reproduced except in its entirety, without prior written authorization.

Sincerely,



William Dobbin
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, 4-PCH, sulfur derived and silicon series compounds.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:

Same day TAT = 200%

Next business day TAT by Noon = 150%

Next business day TAT by 6:00pm = 100%

Second business day TAT by 6:00pm = 75%

Third business day TAT by 6:00pm = 50%

Fourth business day TAT by 6:00pm = 35%

Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory,

direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.



Date: 24-Mar-16

CLIENT: LaBella Associates, P.C.

Project: 690 St Paul

Lab Order: C1603001

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80
Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method
TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (± 2 ", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (± 1 ", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg, ± 1 ". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

Yon Sca



CENTEK LABORATORIES, LLC

Sample Receipt Checklist

Client Name LABELLA - ROCHESTER

Date and Time Receive

3/1/2016

Work Order Number C1603001

Received by JDS

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Carrier name FedEx Ground

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐No ☐Not Present ☒

Custody seals intact on sample bottles?

Yes ☐No ☐Not Present ☒

Chain of custody present?

Yes ☒No ☐

Chain of custody signed when relinquished and received?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒Yes ☐No ☐

Water - pH acceptable upon receipt?

Yes ☐No ☒

Adjusted?

Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

**CEN TEK LABORATORIES, LLC**

Date: 24-Mar-16

CLIENT: LaBella Associates, P.C.
Project: 690 St Paul
Lab Order: C1603001

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1603001-001A	GEVA IN	245,393	2/25/2016	3/1/2016
C1603001-002A	GEVA OUT	1187,1167	2/25/2016	3/1/2016

Centek Laboratories, LLC

24-Mar-16

Lab Order: C1603001
 Client: LaBella Associates, P.C.
 Project: 690 St Paul

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1603001-001A	GEVA IN	2/25/2016	Air	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/3/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/3/2016
C1603001-002A	GEVA OUT			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/3/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			3/3/2016

**CENTEK LABORATORIES, LLC***Air Quality Testing...It's a Gas*

143 Midler Park Drive * Syracuse, NY 13206

TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER**5649**

24-Mar-16

SHIPPED TO:

Company: LaBella Associates, P.C.

Contact: Dan Noll

Address: 300 State Street, Suite 201
Rochester, NY 14614

Phone: (585) 454-6110

Quote ID: 0

Project:

PO:

Submitted By:

MadeBy: rjp

Ship Date: 2/19/2016

VIA: FedEx Ground

Due Date: 2/22/2016

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC	2

Can / Reg ID	Description
245	1L Mini-Can - 1177 VI
393	Time-Set Reg - 772 VI
1167	Time-Set Reg-0792 VI
1187	1L Mini-Can - 1261 VI

Comments: 2 1L @ 8hr WAC 021616F, 021916F

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: 18-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1603001
 Project: 690 St Paul
 Lab ID: C1603001-001A

Client Sample ID: GEVA IN
 Tag Number: 245,393
 Collection Date: 2/25/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		3/1/2016
Lab Vacuum Out	-30			"Hg		3/1/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
Trichloroethene	< 0.040	0.040		ppbV	1	3/3/2016 4:41:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/3/2016 4:41:00 AM
Surr: Bromofluorobenzene	120	70-130		%REC	1	3/3/2016 4:41:00 AM

Qualifiers: ** Reporting Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 18-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1603001
 Project: 690 St Paul
 Lab ID: C1603001-001A

Client Sample ID: GEVA IN
 Tag Number: 245,393
 Collection Date: 2/25/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2016 4:41:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	3/3/2016 4:41:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2016 4:41:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 , Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Page 1 of 2

Centek Laboratories, LLC

Date: 18-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1603001
 Project: 690 St Paul
 Lab ID: C1603001-002A

Client Sample ID: GEVA OUT
 Tag Number: 1187,1167
 Collection Date: 2/25/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-4			"Hg		3/1/2016
Lab Vacuum Out	-30			"Hg		3/1/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
Trichloroethene	< 0.040	0.040		ppbV	1	3/3/2016 5:57:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/3/2016 5:57:00 AM
Surr: Bromofluorobenzene	76.0	70-130		%REC	1	3/3/2016 5:57:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 , Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 18-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1603001
Project: 690 St Paul
Lab ID: C1603001-002A

Client Sample ID: GEVA OUT
Tag Number: 1187,1167
Collection Date: 2/25/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2016 5:57:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	3/3/2016 5:57:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2016 5:57:00 AM

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY



CENTEK LABORATORIES, LLC

Date: 18-Mar-16

QC SUMMARY REPORT SURROGATE RECOVERIES

CLIENT: LaBella Associates, P.C.

Work Order: C1603001

Project: 690 St Paul

Test No: TO-15

Matrix: A

Sample ID	BR4FBZ							
ALCS1UG-030216	115							
ALCS1UGD-030216	109							
AMBIUG-030216	73.0							
C1603001-001A	120							
C1603001-002A	76.0							

Acronym

BR4FBZ

Surrogate

= Bromofluorobenzene

QC Limits

70-130

* Surrogate recovery outside acceptance limits

1

Tune File : C:\HPCHEM\1\DATA\AN030203.D

Tune Time : 2 Mar 2016 10:45 am

Daily Calibration File : C:\HPCHEM\1\DATA\AN030203.D

	(BFB)	(IS1)	(IS2)	(IS3)
		32908	100394	77430
File	Sample	DL Surrogate Recovery %	Internal Standard Responses	
=====	=====	=====	=====	
AN030204.D	ALCS1UG-030216	115	35162	97637 71558
-----	-----	-----	-----	
AN030205.D	AMB1UG-030216	73	30128	98414 84037
-----	-----	-----	-----	
AN030224.D	ALCS1UGD-030216	109	32541	103964 83787
-----	-----	-----	-----	
AN030231.D	C1603001-001A	120	28540	85737 81064
-----	-----	-----	-----	
AN030233.D	C1603001-002A	76	28483	83353 86858
-----	-----	-----	-----	
t - fails 24hr time check * - fails criteria				

Created: Fri Mar 18 09:23:29 2016 MSD #1/

Date: 18-Mar-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
 Work Order: C1603001
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-030216	SampleType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10725					
Client ID: ZZZZZ	Batch ID: R10725	TestNo: TO-15	Analysis Date: 3/2/2016			SeqNo: 126217					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.280	0.15	1	0	128	70	130				
Chloroethane	1.070	0.15	1	0	107	70	130				
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130				
trans-1,2-Dichloroethene	0.8700	0.15	1	0	87.0	70	130				
Trichloroethene	1.260	0.040	1	0	126	70	130				
Vinyl chloride	1.060	0.040	1	0	106	70	130				

Sample ID	ALCS1UGD-030216	SampleType: LCSD	Batch ID: R10725	TestCode: 0.25CT-TCE-	Units: ppbV	TestNo: TO-15	Prep Date:	RunNo: 10725			
Client ID: ZZZZZ				Analysis Date: 3/3/2016				SeqNo: 126218			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.280	0.15	1	0	128	70	130	1.28	0	30	
Chloroethane	1.120	0.15	1	0	112	70	130	1.07	4.57	30	
cis-1,2-Dichloroethene	0.7700	0.15	1	0	77.0	70	130	0.72	6.71	30	
trans-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70	130	0.87	2.33	30	
Trichloroethene	1.220	0.040	1	0	122	70	130	1.26	3.23	30	
Vinyl chloride	1.020	0.040	1	0	102	70	130	1.06	3.85	30	

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 E Value above quantitation range
 N/D Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Date: 18-Mar-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1603001

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-030216	SampType:	MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10725				
Client ID:	ZZZZZ	Batch ID:	R10725	TestNo: TO-15		Analysis Date: 3/2/2016	SeqNo: 126216				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl chloride	< 0.040	0.040									

Qualifiers:		Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	
S	Spike Recovery outside accepted recovery limits					

Page 1 of 1

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	IDL
Propylene	0.15	0.16	0.15	0.16	0.14	0.16	0.14	0.16	0.153	0.010	98.1	0.030
Freon 12	0.15	0.18	0.17	0.17	0.17	0.18	0.17	0.17	0.173	0.005	86.8	0.015
Chloromethane	0.15	0.19	0.18	0.16	0.18	0.18	0.2	0.17	0.180	0.013	83.3	0.041
Freon 114	0.15	0.18	0.17	0.17	0.17	0.18	0.17	0.18	0.174	0.005	86.1	0.017
Vinyl Chloride	0.15	0.17	0.16	0.16	0.15	0.16	0.15	0.15	0.157	0.008	95.5	0.024
Butane	0.15	0.18	0.16	0.17	0.18	0.18	0.19	0.19	0.179	0.011	84.0	0.034
1,3-butadiene	0.15	0.21	0.2	0.2	0.22	0.17	0.18	0.23	0.201	0.021	74.5	0.066
Bromomethane	0.15	0.18	0.2	0.21	0.18	0.22	0.16	0.21	0.194	0.021	77.2	0.068
Chloroethane	0.15	0.19	0.19	0.16	0.19	0.19	0.18	0.19	0.184	0.011	81.4	0.036
Ethanol	0.15	0.16	0.16	0.18	0.17	0.19	0.18	0.19	0.176	0.013	85.4	0.040
Acrolein	0.15	0.22	0.17	0.19	0.16	0.18	0.21	0.17	0.186	0.022	80.8	0.070
Vinyl Bromide	0.15	0.17	0.15	0.16	0.16	0.17	0.17	0.17	0.164	0.008	91.3	0.025
Freon 11	0.15	0.18	0.17	0.17	0.18	0.19	0.17	0.18	0.177	0.008	84.7	0.024
Acetone	0.15	0.2	0.17	0.18	0.15	0.15	0.18	0.14	0.167	0.021	89.7	0.067
Pentane	0.15	0.18	0.17	0.18	0.16	0.17	0.2	0.16	0.174	0.014	86.1	0.044
Isopropyl alcohol	0.15	0.22	0.2	0.19	0.2	0.19	0.21	0.19	0.200	0.012	75.0	0.036
1,1-dichloroethene	0.15	0.2	0.17	0.19	0.19	0.19	0.18	0.18	0.186	0.010	80.8	0.031
Freon 113	0.15	0.17	0.16	0.18	0.18	0.18	0.17	0.17	0.173	0.008	86.8	0.024
t-Butyl alcohol	0.15	0.21	0.2	0.2	0.21	0.2	0.2	0.18	0.200	0.010	75.0	0.031
Methylene chloride	0.15	0.2	0.18	0.19	0.18	0.2	0.19	0.17	0.187	0.011	80.2	0.035
Allyl chloride	0.15	0.18	0.17	0.16	0.18	0.18	0.2	0.18	0.179	0.012	84.0	0.038
Carbon disulfide	0.15	0.2	0.17	0.19	0.19	0.2	0.18	0.19	0.189	0.011	79.5	0.034
trans-1,2-dichloroethene	0.15	0.15	0.14	0.14	0.14	0.16	0.14	0.15	0.146	0.008	102.9	0.025
methyl tert-butyl ether	0.15	0.14	0.14	0.14	0.13	0.15	0.14	0.13	0.139	0.007	108.2	0.022
1,1-dichloroethane	0.15	0.17	0.15	0.16	0.15	0.17	0.16	0.16	0.160	0.008	93.8	0.026
Vinyl acetate	0.15	0.14	0.13	0.14	0.13	0.13	0.13	0.12	0.131	0.007	114.1	0.022
Methyl Ethyl Ketone	0.15	0.17	0.17	0.16	0.16	0.15	0.13	0.12	0.151	0.020	99.1	0.061
cis-1,2-dichloroethene	0.15	0.15	0.14	0.16	0.15	0.16	0.15	0.14	0.150	0.008	100.0	0.026
Hexane	0.15	0.12	0.14	0.13	0.13	0.13	0.12	0.12	0.127	0.008	118.0	0.024
Ethyl acetate	0.15	0.16	0.17	0.14	0.15	0.14	0.16	0.13	0.150	0.014	100.0	0.044
Chloroform	0.15	0.16	0.16	0.16	0.16	0.17	0.16	0.17	0.163	0.005	92.1	0.015
Tetrahydrofuran	0.15	0.15	0.13	0.15	0.15	0.15	0.15	0.14	0.146	0.008	102.9	0.025
1,2-dichloroethane	0.15	0.16	0.15	0.16	0.16	0.17	0.16	0.17	0.161	0.007	92.9	0.022
1,1,1-trichloroethane	0.15	0.17	0.18	0.17	0.17	0.16	0.17	0.17	0.167	0.005	89.7	0.015
Cyclohexane	0.15	0.14	0.14	0.14	0.15	0.15	0.14	0.14	0.143	0.005	105.0	0.015
Carbon tetrachloride	0.15	0.13	0.15	0.15	0.15	0.15	0.15	0.16	0.149	0.009	101.0	0.028
Benzene	0.15	0.15	0.16	0.16	0.15	0.16	0.16	0.16	0.157	0.005	95.5	0.015
Methyl methacrylate	0.15	0.15	0.15	0.14	0.14	0.14	0.15	0.11	0.140	0.014	107.1	0.044
1,4-dioxane	0.15	0.18	0.18	0.19	0.18	0.15	0.17	0.12	0.167	0.024	89.7	0.076

1/8/2016

Confidential

Centek Laboratories
IDL Study1ug/M3 Detection Limit
January 2016

Method TO-15A

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	Units=ppb	IDL
2,2,4-trimethylpentane	0.15	0.15	0.15	0.15	0.16	0.14	0.16	0.15	0.151	0.007	99.1		0.022
Heptane	0.15	0.12	0.13	0.13	0.12	0.13	0.13	0.13	0.127	0.005	118.0		0.015
Trichloroethene	0.15	0.14	0.15	0.14	0.15	0.15	0.14	0.15	0.146	0.005	102.9		0.017
1,2-dichloropropane	0.15	0.16	0.17	0.17	0.16	0.17	0.16	0.16	0.164	0.005	91.3		0.017
Bromodichloromethane	0.15	0.16	0.16	0.16	0.15	0.16	0.17	0.16	0.160	0.006	93.8		0.018
cis-1,3-dichloropropene	0.15	0.13	0.13	0.14	0.14	0.13	0.13	0.13	0.133	0.005	112.9		0.015
trans-1,3-dichloropropene	0.15	0.16	0.13	0.13	0.14	0.14	0.14	0.16	0.143	0.013	105.0		0.039
1,1,2-trichloroethane	0.15	0.16	0.15	0.16	0.15	0.16	0.18	0.17	0.161	0.011	92.9		0.034
Toluene	0.15	0.14	0.14	0.14	0.13	0.16	0.14	0.15	0.143	0.010	105.0		0.030
Methyl Isobutyl Ketone	0.15	0.18	0.18	0.18	0.18	0.16	0.18	0.15	0.173	0.013	86.8		0.039
Dibromochloromethane	0.15	0.16	0.16	0.17	0.18	0.16	0.17	0.18	0.169	0.009	89.0		0.028
Methyl Butyl Ketone	0.15	0.17	0.16	0.18	0.17	0.16	0.17	0.14	0.164	0.013	91.3		0.040
1,2-dibromoethane	0.15	0.16	0.17	0.16	0.16	0.16	0.16	0.17	0.163	0.005	92.1		0.015
Tetrachloroethylene	0.15	0.16	0.17	0.16	0.16	0.16	0.17	0.17	0.164	0.005	91.3		0.017
Chlorobenzene	0.15	0.16	0.16	0.16	0.17	0.15	0.17	0.17	0.163	0.008	92.1		0.024
1,1,1,2-tetrachloroethane	0.15	0.17	0.17	0.17	0.18	0.16	0.18	0.17	0.171	0.007	87.5		0.022
Ethylbenzene	0.15	0.13	0.14	0.14	0.14	0.12	0.14	0.13	0.134	0.008	111.7		0.025
m&p-xylene	0.3	0.25	0.25	0.25	0.23	0.25	0.25	0.25	0.247	0.008	121.4		0.024
Nonane	0.15	0.11	0.11	0.11	0.11	0.1	0.1	0.11	0.107	0.005	140.0		0.015
Styrene	0.15	0.12	0.13	0.13	0.11	0.12	0.13	0.12	0.123	0.008	122.1		0.024
Bromoform	0.15	0.15	0.15	0.16	0.15	0.15	0.17	0.16	0.156	0.008	96.3		0.025
o-xylene	0.15	0.11	0.12	0.12	0.14	0.14	0.12	0.11	0.123	0.013	122.1		0.039
Cumene	0.15	0.12	0.13	0.13	0.12	0.13	0.13	0.13	0.127	0.005	118.0		0.015
Bromofluorobenzene	1	0.88	0.9	0.9	0.87	0.89	0.89	0.9	0.890	0.012	112.4		0.036
1,1,2,2-tetrachloroethane	0.15	0.16	0.16	0.17	0.16	0.17	0.17	0.16	0.164	0.005	91.3		0.017
Propylbenzene	0.15	0.13	0.12	0.13	0.13	0.11	0.13	0.11	0.123	0.010	122.1		0.030
2-Chlorotoluene	0.15	0.13	0.13	0.13	0.14	0.13	0.12	0.13	0.130	0.006	115.4		0.018
4-ethyltoluene	0.15	0.11	0.12	0.12	0.12	0.13	0.13	0.11	0.120	0.008	125.0		0.026
1,3,5-trimethylbenzene	0.15	0.12	0.13	0.14	0.12	0.13	0.13	0.13	0.129	0.007	116.7		0.022
1,2,4-trimethylbenzene	0.15	0.12	0.13	0.12	0.12	0.13	0.12	0.12	0.123	0.005	122.1		0.015
1,3-dichlorobenzene	0.15	0.14	0.14	0.14	0.13	0.14	0.13	0.14	0.137	0.005	109.4		0.015
benzyl chloride	0.15	0.13	0.16	0.13	0.15	0.13	0.15	0.16	0.144	0.014	104.0		0.044
1,4-dichlorobenzene	0.15	0.13	0.11	0.12	0.12	0.12	0.12	0.13	0.121	0.007	123.5		0.022
1,2,3-trimethylbenzene	0.15	0.12	0.11	0.12	0.12	0.12	0.11	0.11	0.116	0.005	129.6		0.017
1,2-dichlorobenzene	0.15	0.13	0.14	0.14	0.14	0.14	0.14	0.13	0.137	0.005	109.4		0.015
1,2,4-trichlorobenzene	0.15	0.1	0.11	0.1	0.11	0.11	0.12	0.1	0.107	0.008	140.0		0.024
Naphthalene	0.15	0.13	0.13	0.14	0.11	0.12	0.14	0.12	0.127	0.011	118.0		0.035
Hexachloro-1,3-butadiene	0.15	0.16	0.17	0.17	0.17	0.16	0.16	0.16	0.164	0.005	91.3		0.017

Confidential

1/8/2016

Centek Laboratories
IDL Study0.25ug/M3 Detection Limit
January 2016Method TO-15A
Units=ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	IDL
Vinyl Chloride	0.1	0.11	0.11	0.09	0.09	0.1	0.09	0.1	0.099	0.009	101.4	0.028
Carbon tetrachloride	0.1	0.1	0.11	0.08	0.09	0.09	0.09	0.09	0.093	0.010	107.7	0.030
Trichloroethene	0.1	0.1	0.1	0.07	0.08	0.08	0.08	0.08	0.084	0.011	118.6	0.036
Tetrachloroethylene	0.1	0.11	0.12	0.09	0.09	0.1	0.09	0.09	0.099	0.012	101.4	0.038
Naphthalene	0.1	0.09	0.08	0.07	0.06	0.06	0.07	0.06	0.070	0.012	142.9	0.036

Confidential

1/15/2016

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{A_x * C_{is}}{A_{is} * C_x}$$

where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 C_x = concentration of the compound being measured (ppbv)
 C_{is} = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRF_c - \text{mean RRF}_i) * 100}{\text{mean RRF}_i}$$

where: RRF_c = relative response factor from the continuing calibration
 mean RRF_i = mean relative response factor from the initial calibration

Sample Calculations

$$\text{ppbv} = \frac{A_x * I_s * D_f}{A_{is} * RRF}$$

where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 I_s = Concentration of the internal standard injected (ppbv)
 RRF = relative response factor for the compound being measured
 D_f = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: 18-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1603001
 Project: 690 St Paul
 Lab ID: C1603001-001A

Client Sample ID: GEVA IN
 Tag Number: 245,393
 Collection Date: 2/25/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		3/1/2016
Lab Vacuum Out	-30			"Hg		3/1/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
Trichloroethene	< 0.040	0.040		ppbV	1	3/3/2016 4:41:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/3/2016 4:41:00 AM
Surr: Bromofluorobenzene	120	70-130		%REC	1	3/3/2016 4:41:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 18-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1603001
Project: 690 St Paul
Lab ID: C1603001-001A

Client Sample ID: GEVA IN
Tag Number: 245,393
Collection Date: 2/25/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2016 4:41:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	3/3/2016 4:41:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2016 4:41:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Data File : C:\HPCHEM\1\DATA\AN030231.D

Vial: 31

Acq On : 3 Mar 2016 4:41 am

Operator: RJP

Sample : C1603001-001A

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 03 11:57:23 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 03 11:24:34 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.81	128	28540	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.07	114	85737	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	81064	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.14	95	66229m	1.20	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	120.00%

Target Compounds

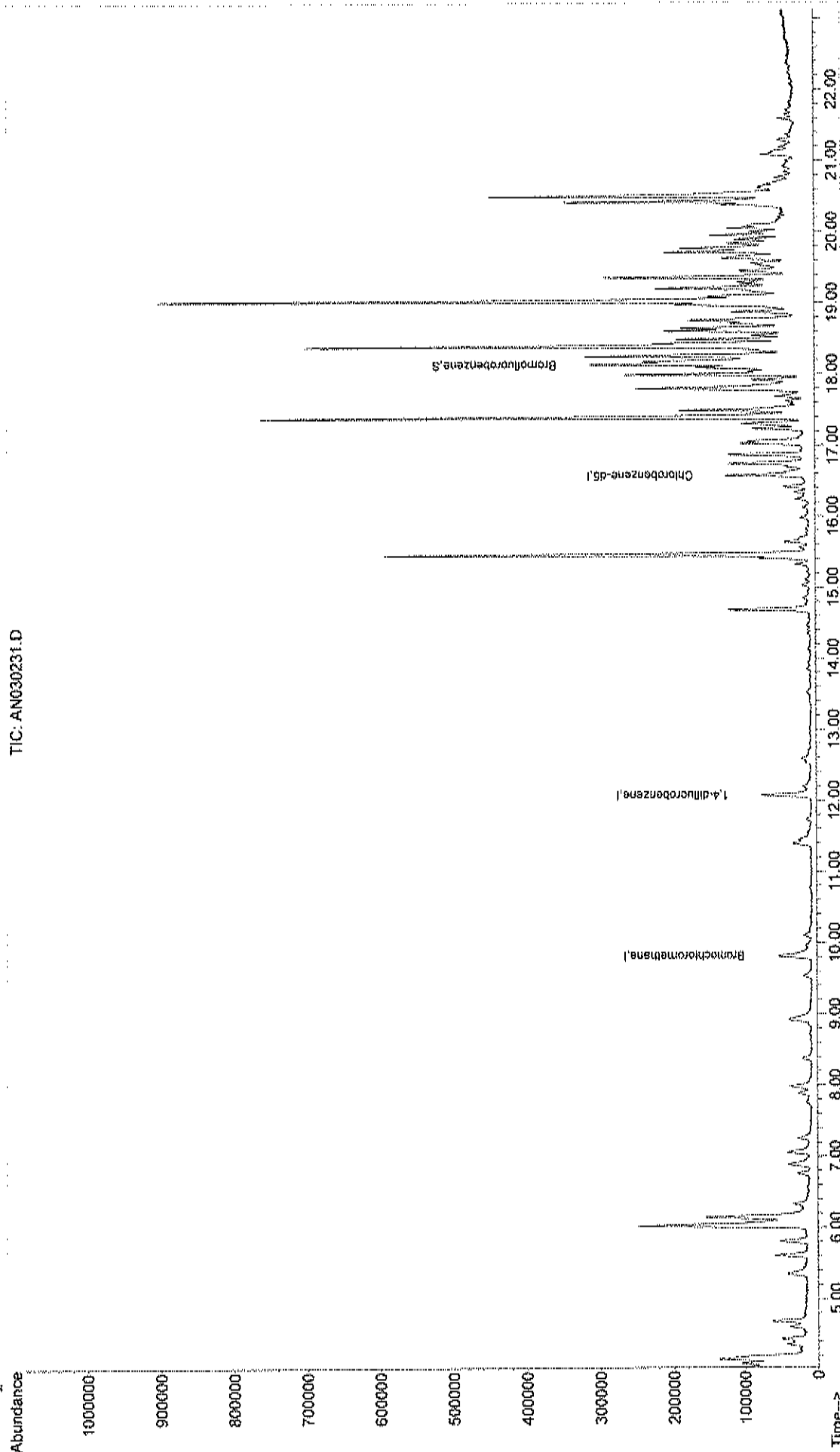
Qvalue

Data File : C:\HPCHEM\1\DATA\AN030231.D
Acq On : 3 Mar 2016 4:41 am
Sample : C1603001-001A
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 18 9:19 2016

Vial: 31
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 18 09:18:17 2016
Response via : Initial Calibration



Centek Laboratories, LLC

Date: 18-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1603001
 Project: 690 St Paul
 Lab ID: C1603001-002A

Client Sample ID: GEVA OUT
 Tag Number: 1187,1167
 Collection Date: 2/25/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-4			"Hg		3/1/2016
Lab Vacuum Out	-30			"Hg		3/1/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
Trichloroethene	< 0.040	0.040		ppbV	1	3/3/2016 5:57:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/3/2016 5:57:00 AM
Surr: Bromofluorobenzene	76.0	70-130		%REC	1	3/3/2016 5:57:00 AM

Qualifiers:	**	Reporting Limit	,	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 18-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1603001
Project: 690 St Paul
Lab ID: C1603001-002A

Client Sample ID: GEVA OUT
Tag Number: 1187,1167
Collection Date: 2/25/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2016 5:57:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	3/3/2016 5:57:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2016 5:57:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Data File : C:\HPCHEM\1\DATA\AN030233.D

Vial: 32

Acq On : 3 Mar 2016 5:57 am

Operator: RJP

Sample : C1603001-002A

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 03 11:57:25 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 03 11:24:34 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	28483	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.08	114	83353	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	86858	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	44798	0.76	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	76.00%

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA\AN030233.D
Acq On : 3 Mar 2016 5:57 am
Sample : C1603001-002A
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 18 9:20 2016

Vial: 32

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

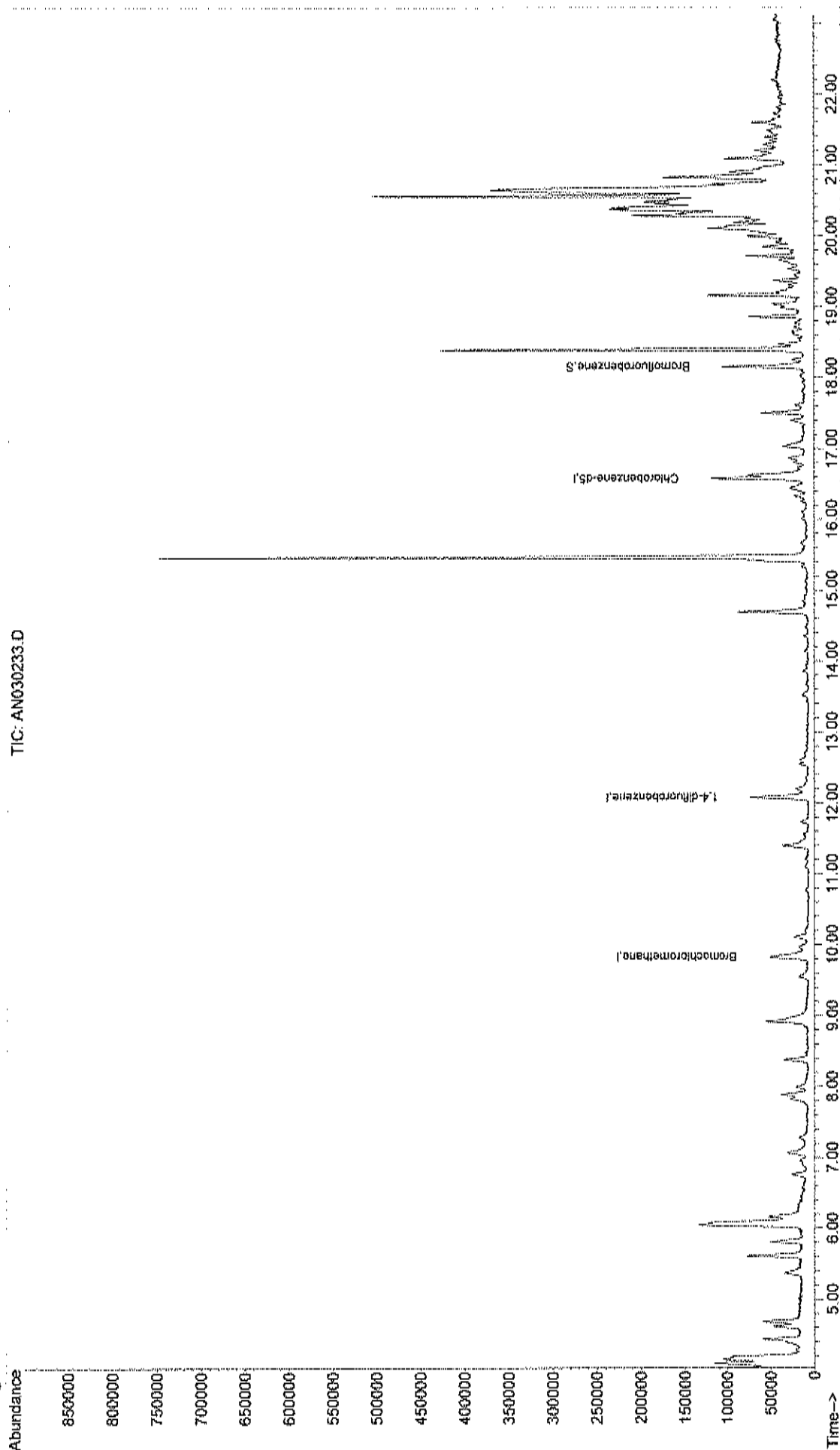
Quant Results File: A204_1UG.RES

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Fri Mar 18 09:18:17 2016

Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 03 10:59:01 2016
 Response via : Initial Calibration

Calibration Files

0.04 =AN020412.D 0.15 =AN020410.D 0.30 =AN020409.D
 0.50 =AN020408.D 0.75 =AN020407.D 1.0 =AN020406.D

Compound	0.04	0.15	0.30	0.50	0.75	1.0	Avg	%RSD
1) I Bromochloromethane	-----ISTD-----							
2) T Propylene	1.659	1.455	1.318	1.143	1.160	1.239	1.239	17.85
3) T Freon 12	4.827	4.314	4.447	4.223	4.331	4.355	4.355	4.78
4) T Chloromethane	1.749	1.488	1.344	1.105	1.358	1.318	1.318	16.76
5) T Freon 114	4.087	3.601	3.664	3.360	3.923	3.638	3.638	6.95
6) T Vinyl Chloride	1.456	1.207	1.006	0.984	0.921	1.017	1.045	16.99
7) T Butane	1.443	1.355	1.428	1.232	1.329	1.275	1.275	10.78
8) T 1,3-butadiene	1.040	0.919	0.890	0.870	0.910	0.889	0.889	8.22
9) T Bromomethane	1.456	1.237	1.320	1.074	1.132	1.193	1.193	11.33
10) T Chloroethane	0.526	0.400	0.413	0.397	0.406	0.418	0.418	10.55
11) T Ethanol	0.250	0.305	0.222	0.231	0.256	0.256	0.256	11.72
12) T Acrolein	0.279	0.390	0.336	0.310	0.293	0.310	0.310	12.03
13) T Vinyl Bromide	1.330	1.234	1.213	1.166	1.189	1.197	1.197	5.25
14) T Freon 11	4.975	4.414	4.354	4.187	4.327	4.372	4.372	5.84
15) T Acetone	0.509	0.447	0.446	0.390	0.393	0.423	0.423	9.87
16) T Pentane	0.898	0.970	0.873	0.769	0.821	0.841	0.841	8.05
17) T Isopropyl alcoh	1.388	1.495	1.156	1.101	1.120	1.220	1.220	11.71
18) T 1,1-dichloroeth	1.393	1.250	1.132	1.107	1.144	1.163	1.163	9.18
19) T Freon 113	3.089	2.834	2.824	2.639	2.720	2.761	2.761	5.58
20) t t-Butyl alcohol	2.522	2.230	1.942	1.776	1.836	2.203	2.203	15.39
21) T Methylene chlor	1.325	1.581	1.102	1.030	1.393	1.313	1.313	13.17
22) T Allyl chloride	1.422	1.733	1.144	1.035	1.667	1.494	1.494	17.97
23) T Carbon disulfid	5.174	4.325	3.342	3.951	4.061	4.098	4.098	12.55
24) T trans-1,2-dichl	2.180	2.076	2.060	1.999	1.933	2.029	2.029	3.73
25) T methyl tert-but	4.386	3.644	3.672	3.558	3.607	3.703	3.703	7.52
26) T 1,1-dichloroeth	3.090	2.824	2.831	2.594	2.737	2.780	2.780	5.24
27) T Vinyl acetate	3.517	3.471	3.149	3.321	3.104	3.306	3.306	4.30
28) T Methyl Ethyl Ke	0.640	0.625	0.672	0.630	0.625	0.649	0.649	3.56
29) T cis-1,2-dichlor	1.983	1.886	1.799	1.817	1.788	1.841	1.841	3.74
30) T Hexane	2.253	2.222	2.263	2.109	2.162	2.185	2.185	2.73
31) T Ethyl acetate	3.814	3.227	2.964	2.791	2.817	3.069	3.069	10.76
32) T Chloroform	3.573	3.257	3.272	3.174	3.182	3.241	3.241	4.43
33) T Tetrahydrofuran	1.713	1.983	1.615	1.449	1.418	1.511	1.511	7.42
34) T 1,2-dichloroeth	2.226	2.011	1.973	1.876	1.831	1.934	1.934	7.02
35) I 1,4-difluorobenzene	-----ISTD-----							
36) T 1,1,1-trichloro	0.737	0.690	0.670	0.699	0.697	0.694	0.694	2.79
37) T Cyclohexane	0.510	0.492	0.460	0.478	0.469	0.474	0.474	3.91
38) T Carbon tetrachl	0.933	0.711	0.671	0.670	0.681	0.679	0.708	12.10
39) T Benzene	0.964	0.923	0.864	0.870	0.858	0.883	0.883	4.49
40) T Methyl methacry	0.358	0.355	0.331	0.340	0.345	0.353	0.353	4.57
41) T 1,4-dioxane	0.221	0.185	0.166	0.169	0.161	0.179	0.179	10.62
42) T 2,2,4-trimethyl	1.755	1.839	1.517	1.651	1.576	1.634	1.634	6.70
43) T Heptane	0.595	0.480	0.488	0.496	0.462	0.498	0.498	8.11
44) T Trichloroethene	0.528	0.424	0.403	0.397	0.387	0.380	0.408	11.50
45) T 1,2-dichloropro	0.411	0.363	0.337	0.337	0.336	0.346	0.346	8.32
46) T Bromodichlorome	0.708	0.658	0.622	0.633	0.611	0.638	0.638	4.99
47) T cis-1,3-dichlor	0.582	0.499	0.461	0.450	0.437	0.469	0.469	10.65
48) T trans-1,3-dichl	0.499	0.460	0.434	0.417	0.415	0.428	0.428	8.20
49) T 1,1,2-trichloro	0.464	0.421	0.368	0.357	0.336	0.362	0.362	14.97
50) I Chlorobenzene-d5	-----ISTD-----							
51) T Toluene	0.672	0.630	0.617	0.655	0.645	0.669	0.669	6.14

(#) = Out of Range ### Number of calibration levels exceeded format ###
 A204_1UG.M Thu Mar 03 11:04:44 2016 MSD1

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 03 10:59:01 2016
 Response via : Initial Calibration

Calibration Files

0.04 =AN020412.D 0.15 =AN020410.D 0.30 =AN020409.D
 0.50 =AN020408.D 0.75 =AN020407.D 1.0 =AN020406.D

Compound		0.04	0.15	0.30	0.50	0.75	1.0	Avg	%RSD
52) T	Methyl Isobutyl		1.054	0.836	0.798	0.850	0.874	0.938	11.68
53) T	Dibromochlorome		0.754	0.659	0.683	0.738	0.688	0.723	6.19
54) T	Methyl Butyl Ke		1.084	0.956	0.907	0.860	0.772	0.917	10.35
55) T	1,2-dibromoetha		0.848	0.733	0.736	0.791	0.786	0.788	5.06
56) T	Tetrachloroethy		0.476	0.440	0.421	0.474	0.484	0.472	6.10
57) T	Chlorobenzene		1.085	0.986	0.983	0.965	0.939	0.958	6.61
58) T	1,1,1,2-tetrach		0.570	0.528	0.520	0.510	0.505	0.510	5.90
59) T	Ethylbenzene		1.627	1.487	1.507	1.504	1.477	1.472	5.87
60) T	m&p-xylene		1.148	1.051	1.144	1.129	1.125	1.127	3.85
61) T	Nonane		0.879	0.754	0.807	0.863	0.881	0.916	13.46
62) T	Styrene		0.800	0.754	0.818	0.851	0.866	0.869	9.27
63) T	Bromoform		0.682	0.624	0.650	0.678	0.692	0.680	4.81
64) T	o-xylene		1.260	1.200	1.315	1.276	1.312	1.298	5.63
65) T	Cumene		1.555	1.334	1.476	1.480	1.534	1.598	11.77
66) S	Bromofluorobenz	0.589	0.595	0.593	0.631	0.683	0.727	0.681	11.88
67) T	1,1,2,2-tetrach		1.155	1.009	1.065	1.136	1.104	1.163	9.20
68) T	Propylbenzene		1.640	1.721	1.725	1.924	1.761	1.894	11.89
69) T	2-Chlorotoluene		1.338	1.147	1.258	1.335	1.259	1.291	6.06
70) T	4-ethyltoluene		1.306	1.228	1.327	1.380	1.441	1.462	12.68
71) T	1,3,5-trimethyl		1.333	1.240	1.356	1.366	1.366	1.426	9.67
72) T	1,2,4-trimethyl		1.045	0.991	1.067	1.217	1.197	1.226	15.25
73) T	1,3-dichloroben		0.744	0.724	0.781	0.889	0.890	0.886	14.53
74) T	benzyl chloride		0.730	0.812	0.768	0.776	0.848	0.837	9.50
75) T	1,4-dichloroben		0.703	0.675	0.759	0.852	0.853	0.854	16.04
76) T	1,2,3-trimethyl		1.228	1.022	1.137	1.377	1.347	1.353	15.90
77) T	1,2-dichloroben		0.796	0.743	0.814	0.915	0.903	0.908	13.02
78) T	1,2,4-trichloro		0.403	0.399	0.447	0.466	0.486	0.493	19.25
79) T	Naphthalene		1.186	1.118	1.119	1.214	1.276	1.286	16.24
80) T	Hexachloro-1,3-		0.860	0.785	0.858	0.995	1.082	1.029	17.59

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020403.D
 Acq On : 4 Feb 2016 10:07 am
 Sample : A1UG_2.0
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:34:11 2016

Vial: 1
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	25725	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.08	114	109784	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	66969	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	51435	1.06	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	54355	1.82	ppb	# 100
3) Freon 12	4.20	85	214086	1.92	ppb	100
4) Chloromethane	4.40	50	57015m	1.65	ppb	
5) Freon 114	4.40	85	173667	1.72	ppb	97
6) Vinyl Chloride	4.60	62	46314	1.77	ppb	90
7) Butane	4.69	43	58706m	1.72	ppb	
8) 1,3-butadiene	4.70	39	41206	1.80	ppb	90
9) Bromomethane	5.05	94	57305	1.97	ppb	95
10) Chloroethane	5.22	64	20198	1.93	ppb	92
11) Ethanol	5.37	45	14783	2.24	ppb	90
12) Acrolein	5.94	56	15883	2.02	ppb	80
13) Vinyl Bromide	5.55	106	59264	1.95	ppb	97
14) Freon 11	5.82	101	217848	1.95	ppb	99
15) Acetone	6.05	58	20632	2.12	ppb	# 82
16) Pentane	6.09	42	41609	1.98	ppb	98
17) Isopropyl alcohol	6.16	45	58615	2.05	ppb	# 46
18) 1,1-dichloroethane	6.58	96	56386	1.92	ppb	93
19) Freon 113	6.77	101	137299	1.96	ppb	96
20) t-Butyl alcohol	6.89	59	109152	2.32	ppb	95
21) Methylene chloride	7.06	84	69901	1.96	ppb	# 82
22) Allyl chloride	7.03	41	82854	1.99	ppb	# 56
23) Carbon disulfide	7.21	76	202938	1.94	ppb	100
24) trans-1,2-dichloroethane	7.99	61	103575	2.08	ppb	94
25) methyl tert-butyl ether	8.03	73	184249	1.97	ppb	93
26) 1,1-dichloroethane	8.42	63	140177	1.99	ppb	99
27) Vinyl acetate	8.43	43	171646	2.19	ppb	99
28) Methyl Ethyl Ketone	8.95	72	35285	2.23	ppb	# 100
29) cis-1,2-dichloroethane	9.36	61	94640	2.08	ppb	96
30) Hexane	8.92	57	113064	2.03	ppb	89
31) Ethyl acetate	9.54	43	157070	2.19	ppb	96
32) Chloroform	9.97	83	163443	2.00	ppb	100
33) Tetrahydrofuran	10.18	42	72995	2.01	ppb	97
34) 1,2-dichloroethane	11.10	62	96509	2.05	ppb	89
36) 1,1,1-trichloroethane	10.78	97	151479	1.98	ppb	100
37) Cyclohexane	11.47	56	103809	2.01	ppb	93
38) Carbon tetrachloride	11.42	117	150645	2.02	ppb	97
39) Benzene	11.40	78	191327	2.03	ppb	97
40) Methyl methacrylate	12.94	41	84482	2.22	ppb	91
41) 1,4-dioxane	13.00	88	40851	2.31	ppb	97
42) 2,2,4-trimethylpentane	12.21	57	347960	2.01	ppb	95
43) Heptane	12.55	43	107397	2.12	ppb	98
44) Trichloroethene	12.70	130	84773	2.03	ppb	99
45) 1,2-dichloropropane	12.82	63	72676	1.96	ppb	99

(#) = qualifier out of range (m) = manual integration
 AN020403.D A204_1UG.M Thu Mar 03 11:05:16 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020403.D
 Acq On : 4 Feb 2016 10:07 am
 Sample : A1UG 2.0
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:34:11 2016

Vial: 1
 Operator: RJF
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) Bromodichloromethane	13.14	83	138917	2.06 ppb	99
47) cis-1,3-dichloropropene	13.91	75	99450	2.07 ppb	99
48) trans-1,3-dichloropropene	14.65	75	87931	1.92 ppb	93
49) 1,1,2-trichloroethane	14.95	97	69599	1.88 ppb	98
51) Toluene	14.70	92	99193	2.31 ppb	96
52) Methyl Isobutyl Ketone	13.85	43	143403m	2.47 ppb	
53) Dibromochloromethane	15.62	129	104629m	2.42 ppb	
54) Methyl Butyl Ketone	15.12	43	133349	2.60 ppb	96
55) 1,2-dibromoethane	15.87	107	109884	2.10 ppb	98
56) Tetrachloroethylene	15.68	164	67971	2.11 ppb	98
57) Chlorobenzene	16.63	112	121339	1.94 ppb	88
58) 1,1,1,2-tetrachloroethane	16.73	131	63884	1.90 ppb	94
59) Ethylbenzene	16.87	91	177645	1.79 ppb	97
60) m&p-xylene	17.06	91	288396	3.85 ppb	95
61) Nonane	17.40	43	149872	2.56 ppb	95
62) Styrene	17.49	104	126724	2.20 ppb	83
63) Bromoform	17.61	173	90468	1.97 ppb	100
64) o-xylene	17.51	91	165122	1.89 ppb	92
65) Cumene	18.04	105	247879	2.43 ppb	98
67) 1,1,2,2-tetrachloroethane	17.95	83	176998	2.41 ppb	97
68) Propylbenzene	18.56	91	309412m	2.47 ppb	
69) 2-Chlorotoluene	18.61	91	168440m	2.04 ppb	
70) 4-ethyltoluene	18.72	105	230180m	2.47 ppb	
71) 1,3,5-trimethylbenzene	18.78	105	215127m	2.34 ppb	
72) 1,2,4-trimethylbenzene	19.21	105	198632	2.49 ppb	96
73) 1,3-dichlorobenzene	19.51	146	143470	2.42 ppb	97
74) benzyl chloride	19.58	91	120866m	2.13 ppb	
75) 1,4-dichlorobenzene	19.64	146	141880	2.50 ppb	97
76) 1,2,3-trimethylbenzene	19.67	105	220297	2.46 ppb	94
77) 1,2-dichlorobenzene	19.96	146	144217	2.40 ppb	95
78) 1,2,4-trichlorobenzene	21.81	180	93099m	3.28 ppb	
79) Naphthalene	22.00	128	236493m	3.44 ppb	
80) Hexachloro-1,3-butadiene	22.09	225	168491	2.34 ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020403.D A204_1UG.M Thu Mar 03 11:05:17 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN020403.D
Acq On : 4 Feb 2016 10:07 am
Sample : A1UG 2.0
Misc : A204_1UG
MMS Integration Params: RTEINT.P
Quant Time: Feb 4 13:36 2016

MS Integration Params: RTEINT.P

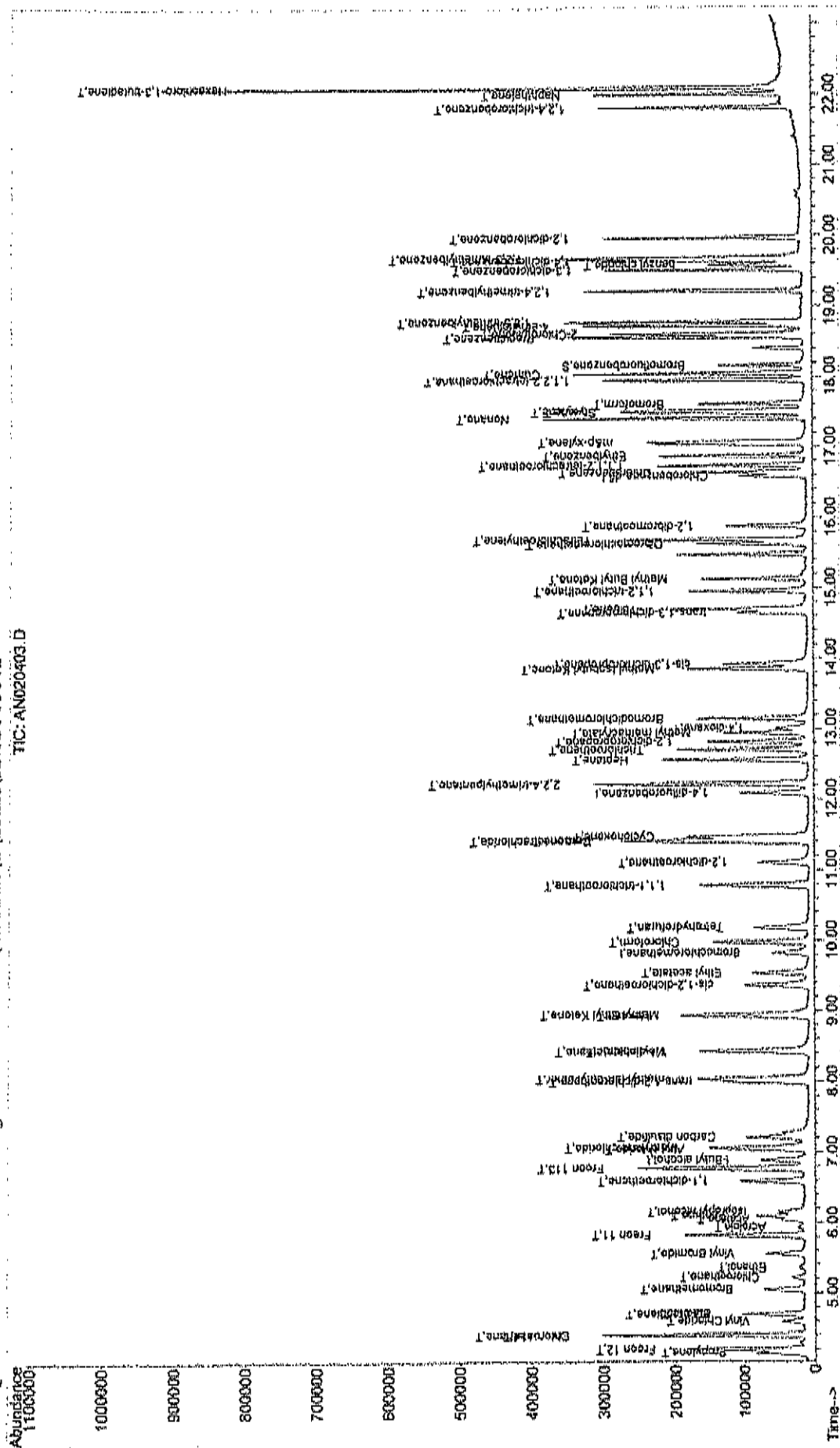
Quant Results File: A204 1UG.RES

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Method      : C:\HPCHEM\1\METHODS\A204_IUG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.F

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Abundance



AN020403.D A204 1UG.M

Thu Mar 03 11:05:18 2016

FDSD

Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020404.D
 Acq On : 4 Feb 2016 10:47 am
 Sample : A1UG_1.5
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:34:32 2016

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	25619	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.08	114	111964	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	71216	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	55453	1.08	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	108.00%

Target Compounds

Target Compounds	R.T.	Qion	Response	Conc	Units	Qvalue
2) Propylene	4.16	41	41077	1.38	ppb	# 100
3) Freon 12	4.21	85	164266	1.48	ppb	100
4) Chloromethane	4.41	50	43938	1.28	ppb	92
5) Freon 114	4.41	85	136621	1.36	ppb	96
6) Vinyl Chloride	4.60	62	36670	1.41	ppb	88
7) Butane	4.71	43	46527m	1.37	ppb	
8) 1,3-butadiene	4.70	39	32116	1.41	ppb	86
9) Bromomethane	5.06	94	43286	1.49	ppb	94
10) Chloroethane	5.22	64	15836	1.52	ppb	100
11) Ethanol	5.39	45	8629m	1.31	ppb	
12) Acrolein	5.94	56	11146m	1.42	ppb	
13) Vinyl Bromide	5.56	106	44648	1.47	ppb	97
14) Freon 11	5.83	101	164487	1.48	ppb	98
15) Acetone	6.06	58	15493	1.60	ppb	# 76
16) Pentane	6.09	42	31060	1.48	ppb	96
17) Isopropyl alcohol	6.18	45	44554	1.57	ppb	# 46
18) 1,1-dichloroethene	6.59	96	42205	1.44	ppb	92
19) Freon 113	6.77	101	103022	1.47	ppb	95
20) t-Butyl alcohol	6.90	59	99143m	2.11	ppb	
21) Methylene chloride	7.06	84	52412	1.47	ppb	# 81
22) Allyl chloride	7.04	41	62295	1.50	ppb	# 57
23) Carbon disulfide	7.21	76	154911	1.49	ppb	99
24) trans-1,2-dichloroethene	8.00	61	76817	1.55	ppb	94
25) methyl tert-butyl ether	8.05	73	136928	1.47	ppb	92
26) 1,1-dichloroethane	8.43	63	105650	1.51	ppb	100
27) Vinyl acetate	8.44	43	126890	1.63	ppb	99
28) Methyl Ethyl Ketone	8.97	72	25587	1.62	ppb	# 100
29) cis-1,2-dichloroethene	9.36	61	70974	1.56	ppb	97
30) Hexane	8.93	57	83349	1.50	ppb	92
31) Ethyl acetate	9.55	43	112948	1.58	ppb	95
32) Chloroform	9.98	83	122324	1.50	ppb	98
33) Tetrahydrofuran	10.19	42	56390	1.56	ppb	98
34) 1,2-dichloroethane	11.10	62	71300	1.52	ppb	89
36) 1,1,1-trichloroethane	10.78	97	114442	1.46	ppb	97
37) Cyclohexane	11.47	56	76514	1.45	ppb	94
38) Carbon tetrachloride	11.42	117	111702	1.47	ppb	96
39) Benzene	11.40	78	142575	1.48	ppb	97
40) Methyl methacrylate	12.94	41	60646	1.57	ppb	90
41) 1,4-dioxane	13.02	88	29570	1.64	ppb	98
42) 2,2,4-trimethylpentane	12.21	57	262348	1.48	ppb	95
43) Heptane	12.55	43	81022	1.57	ppb	99
44) Trichloroethene	12.70	130	63699	1.49	ppb	100
45) 1,2-dichloropropane	12.82	63	53821	1.42	ppb	98

(#) = qualifier out of range (m) = manual integration

AN020404.D A204_1UG.M

Thu Mar 03 11:05:20 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020404.D
 Acq On : 4 Feb 2016 10:47 am
 Sample : A1UG_1.5
 Misc : A204_1UG
 MS Integration Params: RTEINT.F
 Quant Time: Feb 04 13:34:32 2016

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	102809	1.49	ppb	100
47) cis-1,3-dichloropropene	13.92	75	72559	1.48	ppb	99
48) trans-1,3-dichloropropene	14.65	75	66433	1.42	ppb	95
49) 1,1,2-trichloroethane	14.95	97	53253	1.41	ppb	98
51) Toluene	14.70	92	73479	1.61	ppb	95
52) Methyl Isobutyl Ketone	13.85	43	106161	1.72	ppb	96
53) Dibromochloromethane	15.63	129	75486m	1.64	ppb	
54) Methyl Butyl Ketone	15.13	43	92185	1.69	ppb	96
55) 1,2-dibromoethane	15.87	107	83082	1.49	ppb	96
56) Tetrachloroethylene	15.68	164	50720	1.48	ppb	99
57) Chlorobenzene	16.63	112	94306	1.42	ppb	88
58) 1,1,1,2-tetrachloroethane	16.73	131	51392	1.44	ppb	93
59) Ethylbenzene	16.87	91	152389	1.45	ppb	98
60) m&p-xylene	17.07	91	253186	3.18	ppb	95
61) Nonane	17.40	43	112368	1.80	ppb	95
62) Styrene	17.49	104	106038	1.73	ppb	84
63) Bromoform	17.61	173	77516	1.58	ppb	98
64) o-xylene	17.51	91	152890	1.65	ppb	95
65) Cumene	18.04	105	199175	1.83	ppb	99
67) 1,1,2,2-tetrachloroethane	17.95	83	135001	1.73	ppb	99
68) Propylbenzene	18.56	91	219322m	1.64	ppb	
69) 2-Chlorotoluene	18.60	91	150436m	1.71	ppb	
70) 4-ethyltoluene	18.72	105	178826m	1.80	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	171651m	1.76	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	152618	1.80	ppb	96
73) 1,3-dichlorobenzene	19.51	146	105440	1.68	ppb	98
74) benzyl chloride	19.58	91	96195	1.59	ppb	97
75) 1,4-dichlorobenzene	19.64	146	101532	1.68	ppb	97
76) 1,2,3-trimethylbenzene	19.67	105	165179	1.73	ppb	95
77) 1,2-dichlorobenzene	19.96	146	106684	1.67	ppb	97
78) 1,2,4-trichlorobenzene	21.80	180	54304m	1.80	ppb	
79) Naphthalene	22.00	128	135513m	1.86	ppb	
80) Hexachloro-1,3-butadiene	22.09	225	126766	1.66	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020404.D A204_1UG.M Thu Mar 03 11:05:21 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN020404.D
Acq On : 4 Feb 2016 10:47 am
Sample : AUG 1.5
Misc : A204_IUG
MMS Integration Params: RTEINT.P
Quant Time: Feb 4 13:38 2016

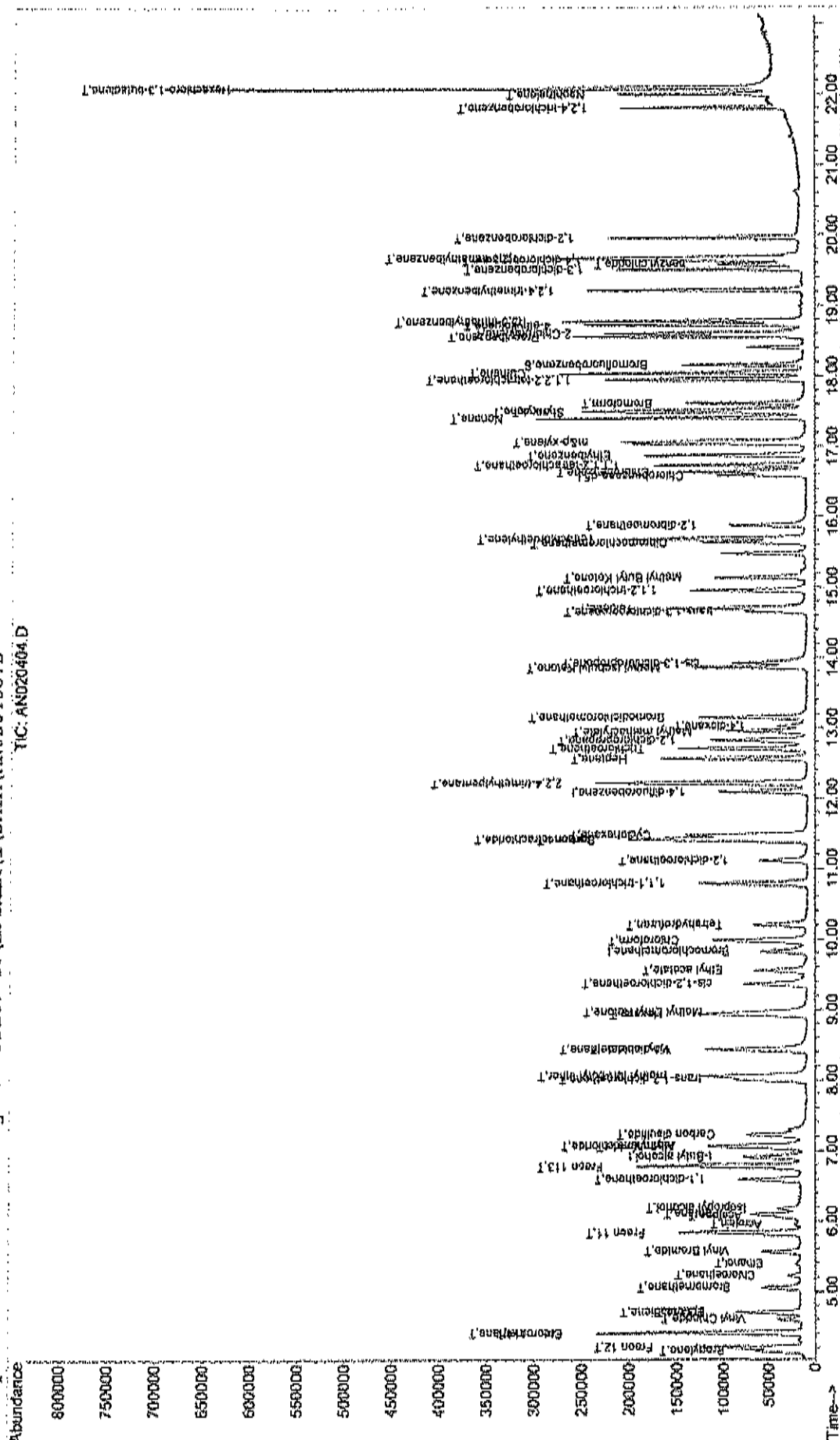
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Method      : C:\HPCHEM\1\METHODS\A204_IUG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.

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Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

TIC: AN020404.D



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MSDI

Thu May 03 11:05:22 2016

AN020404.D A204 1UG.M

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020405.D
 Acq On : 4 Feb 2016 11:26 am
 Sample : A1UG_1.25
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:34:53 2016

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020405.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	26324	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.08	114	111434	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	69981	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	53484	1.06	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	34584	1.13	ppb	# 100
3) Freon 12	4.21	85	140275	1.23	ppb	99
4) Chloromethane	4.42	50	41090m	1.16	ppb	
5) Freon 114	4.41	85	116513	1.13	ppb	96
6) Vinyl Chloride	4.61	62	31717	1.19	ppb	88
7) Butane	4.70	43	34808	1.00	ppb	95
8) 1,3-butadiene	4.71	39	27733	1.18	ppb	95
9) Bromomethane	5.05	94	35650	1.20	ppb	90
10) Chloroethane	5.23	64	13134	1.23	ppb	96
11) Ethanol	5.40	45	8836m	1.31	ppb	
12) Acrolein	5.96	56	9117m	1.13	ppb	
13) Vinyl Bromide	5.56	106	37291	1.20	ppb	95
14) Freon 11	5.83	101	138449	1.21	ppb	98
15) Acetone	6.07	58	12981	1.31	ppb	# 85
16) Pentane	6.10	42	25759	1.20	ppb	94
17) Isopropyl alcohol	6.18	45	39515	1.35	ppb	# 46
18) 1,1-dichloroethene	6.60	96	35679	1.18	ppb	95
19) Freon 113	6.78	101	86509	1.21	ppb	96
20) t-Butyl alcohol	6.91	59	85975m	1.78	ppb	
21) Methylene chloride	7.07	84	44568	1.22	ppb	# 81
22) Allyl chloride	7.05	41	56461m	1.33	ppb	
23) Carbon disulfide	7.22	76	130146	1.21	ppb	96
24) trans-1,2-dichloroethene	8.00	61	64912	1.28	ppb	95
25) methyl tert-butyl ether	8.05	73	118944	1.25	ppb	92
26) 1,1-dichloroethane	8.42	63	88586	1.23	ppb	97
27) Vinyl acetate	8.44	43	106949	1.34	ppb	99
28) Methyl Ethyl Ketone	8.97	72	21293	1.31	ppb	# 100
29) cis-1,2-dichloroethene	9.36	61	58105	1.25	ppb	94
30) Hexane	8.93	57	69360	1.22	ppb	93
31) Ethyl acetate	9.56	43	97081	1.32	ppb	95
32) Chloroform	9.98	83	102331	1.22	ppb	98
33) Tetrahydrofuran	10.20	42	46768	1.26	ppb	98
34) 1,2-dichloroethane	11.10	62	59902	1.25	ppb	90
36) 1,1,1-trichloroethane	10.78	97	96188	1.24	ppb	98
37) Cyclohexane	11.47	56	63939	1.22	ppb	94
38) Carbon tetrachloride	11.41	117	93690	1.24	ppb	97
39) Benzene	11.40	78	120193	1.25	ppb	98
40) Methyl methacrylate	12.94	41	49277	1.28	ppb	90
41) 1,4-dioxane	13.02	88	23753	1.32	ppb	99
42) 2,2,4-trimethylpentane	12.22	57	220839	1.26	ppb	95
43) Heptane	12.55	43	68809	1.34	ppb	98
44) Trichloroethene	12.70	130	54359	1.28	ppb	98
45) 1,2-dichloropropane	12.82	63	46292	1.23	ppb	98

(#) = qualifier out of range (m) = manual integration

AN020405.D A204_1UG.M

Thu Mar 03 11:05:24 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020405.D
 Acq On : 4 Feb 2016 11:26 am
 Sample : A1UG_1.25
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:34:53 2016

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020405.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.15	83	87483	1.28	ppb	99
47) cis-1,3-dichloropropene	13.92	75	61393	1.26	ppb	98
48) trans-1,3-dichloropropene	14.65	75	56502	1.21	ppb	92
49) 1,1,2-trichloroethane	14.95	97	44187	1.17	ppb	96
51) Toluene	14.70	92	61709	1.38	ppb	96
52) Methyl Isobutyl Ketone	13.86	43	90019	1.49	ppb	96
53) Dibromochloromethane	15.62	129	67440m	1.49	ppb	
54) Methyl Butyl Ketone	15.13	43	78702	1.47	ppb	95
55) 1,2-dibromoethane	15.87	107	70954	1.30	ppb	97
56) Tetrachloroethylene	15.68	164	43712	1.30	ppb	99
57) Chlorobenzene	16.63	112	80187	1.23	ppb	86
58) 1,1,1,2-tetrachloroethane	16.73	131	43046	1.23	ppb	94
59) Ethylbenzene	16.87	91	124572	1.20	ppb	98
60) m&p-xylene	17.07	91	201992	2.58	ppb	96
61) Nonane	17.40	43	84929	1.39	ppb	96
62) Styrene	17.48	104	80992	1.35	ppb	85
63) Bromoform	17.61	173	62564	1.30	ppb	98
64) o-xylene	17.51	91	118694	1.30	ppb	95
65) Cumene	18.04	105	147980	1.39	ppb	99
67) 1,1,2,2-tetrachloroethane	17.95	83	109204	1.42	ppb	98
68) Propylbenzene	18.56	91	176331m	1.35	ppb	
69) 2-Chlorotoluene	18.60	91	118791m	1.34	ppb	
70) 4-ethyltoluene	18.72	105	141894m	1.45	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	134551m	1.40	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	120559	1.45	ppb	91
73) 1,3-dichlorobenzene	19.51	146	87962	1.42	ppb	96
74) benzyl chloride	19.58	91	83998	1.42	ppb	99
75) 1,4-dichlorobenzene	19.64	146	85809	1.45	ppb	96
76) 1,2,3-trimethylbenzene	19.67	105	133254	1.42	ppb	96
77) 1,2-dichlorobenzene	19.96	146	89087	1.42	ppb	97
78) 1,2,4-trichlorobenzene	21.81	180	47115m	1.59	ppb	
79) Naphthalene	22.00	128	117672m	1.64	ppb	
80) Hexachloro-1,3-butadiene	22.08	225	105269	1.40	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020405.D A204_1UG.M Thu Mar 03 11:05:25 2016 MSD1

Data File : C:\HPCHEM\1\DATA\ANQ20405.D
Acq On : 4 Feb 2016 11:26 am
Sample : A1UG 1.25
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 4 13:58 2016

MS Integration Params: KFEINT.P

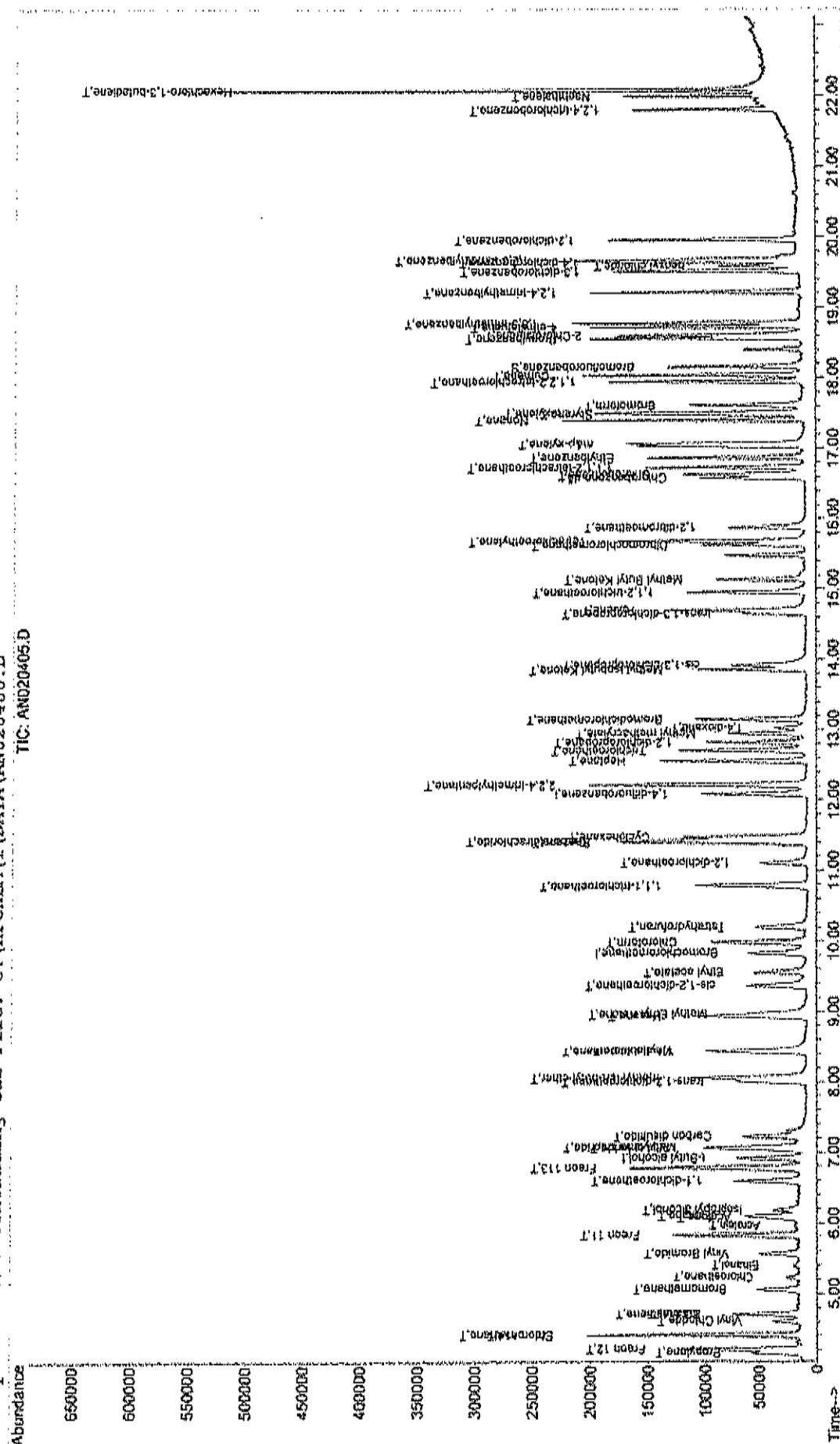
Quant Time: Feb 4 13:58 2016

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Method      : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.1

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TIC: AMD20405.D



Page 3

ESD

Thu Mar 03 11:05:26 2016

AN0204CS.D A204 1UG.M

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020406.D
 Acq On : 4 Feb 2016 12:05 pm
 Sample : A1UG_1.0
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:33:52 2016

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	25913	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.09	114	112188	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	75689	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	55017	1.01	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.16	41	30053	1.00	ppb	# 100
3) Freon 12	4.21	85	112233	1.00	ppb	99
4) Chloromethane	4.41	50	35183	1.01	ppb	95
5) Freon 114	4.41	85	101648	1.00	ppb	92
6) Vinyl Chloride	4.60	62	26348	1.00	ppb	91
7) Butane	4.70	43	34440	1.00	ppb	# 88
8) 1,3-butadiene	4.71	39	23582	1.02	ppb	95
9) Bromomethane	5.05	94	29345	1.00	ppb	90
10) Chloroethane	5.23	64	10515	1.00	ppb	94
11) Ethanol	5.40	45	6639	1.00	ppb	76
12) Acrolein	5.97	56	7595m β	0.96	ppb	
13) Vinyl Bromide	5.57	106	30802	1.00	ppb	99
14) Freon 11	5.83	101	112138	1.00	ppb	98
15) Acetone	6.07	58	10173	1.04	ppb	# 89
16) Pentane	6.10	42	21263	1.00	ppb	96
17) Isopropyl alcohol	6.18	45	29029	1.01	ppb	# 46
18) 1,1-dichloroethene	6.59	96	29648	1.00	ppb	92
19) Freon 113	6.78	101	70489	1.00	ppb	97
20) t-Butyl alcohol	6.91	59	47567	1.00	ppb	# 91
21) Methylene chloride	7.07	84	36088	1.00	ppb	# 83
22) Allyl chloride	7.05	41	43209m β	1.03	ppb	
23) Carbon disulfide	7.21	76	105221	1.00	ppb	98
24) trans-1,2-dichloroethene	8.00	61	50102	1.00	ppb	91
25) methyl tert-butyl ether	8.05	73	93479	0.99	ppb	89
26) 1,1-dichloroethane	8.43	63	70920	1.00	ppb	99
27) Vinyl acetate	8.44	43	80424	1.02	ppb	99
28) Methyl Ethyl Ketone	8.98	72	16206	1.02	ppb	# 100
29) cis-1,2-dichloroethene	9.37	61	46323	1.01	ppb	96
30) Hexane	8.93	57	56016	1.00	ppb	91
31) Ethyl acetate	9.56	43	72985	1.01	ppb	93
32) Chloroform	9.98	83	82448	1.00	ppb	99
33) Tetrahydrofuran	10.20	42	36744	1.00	ppb	96
34) 1,2-dichloroethane	11.10	62	47453	1.00	ppb	89
36) 1,1,1-trichloroethane	10.78	97	78158	1.00	ppb	98
37) Cyclohexane	11.47	56	52629	1.00	ppb	93
38) Carbon tetrachloride	11.42	117	76208	1.00	ppb	99
39) Benzene	11.40	78	96276	1.00	ppb	98
40) Methyl methacrylate	12.95	41	38699	1.00	ppb	91
41) 1,4-dioxane	13.03	88	18085	1.00	ppb	95
42) 2,2,4-trimethylpentane	12.21	57	176835	1.00	ppb	95
43) Heptane	12.55	43	51824	1.00	ppb	97
44) Trichloroethene	12.70	130	42641	1.00	ppb	100
45) 1,2-dichloropropane	12.82	62	37728	1.00	ppb	98

(#) = qualifier out of range (m) = manual integration

AN020406.D A204_1UG.M

Thu Mar 03 11:05:28 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020406.D
 Acq On : 4 Feb 2016 12:05 pm
 Sample : A1UG_1.0
 Misc : A204_1UG

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 13:33:52 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	68586	0.99	ppb	99
47) cis-1,3-dichloropropene	13.92	75	49040	1.00	ppb	98
48) trans-1,3-dichloropropene	14.65	75	46601	0.99	ppb	94
49) 1,1,2-trichloroethane	14.95	97	37716	0.99	ppb	97
51) Toluene	14.70	92	48809	1.01	ppb	91
52) Methyl Isobutyl Ketone	13.86	43	66177	1.01	ppb	96
53) Dibromochloromethane	15.62	129	52048m	1.06	ppb	
54) Methyl Butyl Ketone	15.14	43	58459	1.01	ppb	95
55) 1,2-dibromoethane	15.88	107	59489	1.01	ppb	98
56) Tetrachloroethylene	15.68	164	36612	1.01	ppb	95
57) Chlorobenzene	16.63	112	71051	1.01	ppb	90
58) 1,1,1,2-tetrachloroethane	16.73	131	38194	1.01	ppb	# 91
59) Ethylbenzene	16.87	91	111762	1.00	ppb	99
60) m&p-xylene	17.06	91	170289	2.01	ppb	95
61) Nonane	17.40	43	66712	1.01	ppb	93
62) Styrene	17.49	104	65537	1.01	ppb	85
63) Bromoform	17.61	173	52343	1.01	ppb	99
64) o-xylene	17.51	91	99274	1.01	ppb	93
65) Cumene	18.04	105	116116	1.01	ppb	99
67) 1,1,2,2-tetrachloroethane	17.95	83	83523	1.01	ppb	98
68) Propylbenzene	18.56	91	133269m	0.94	ppb	
69) 2-Chlorotoluene	18.60	91	95281m	1.02	ppb	
70) 4-ethyltoluene	18.72	108	109087m	1.03	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	103365m	1.00	ppb	
72) 1,2,4-trimethylbenzene	19.22	105	90632	1.01	ppb	93
73) 1,3-dichlorobenzene	19.51	146	67332	1.01	ppb	96
74) benzyl chloride	19.58	91	64219	1.00	ppb	99
75) 1,4-dichlorobenzene	19.64	146	64539	1.01	ppb	99
76) 1,2,3-trimethylbenzene	19.67	105	101954	1.01	ppb	92
77) 1,2-dichlorobenzene	19.96	146	68342	1.01	ppb	97
78) 1,2,4-trichlorobenzene	21.80	180	36792	1.15	ppb	97
79) Naphthalene	22.00	128	96563	1.24	ppb	95
80) Hexachloro-1,3-butadiene	22.08	225	81923	1.01	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020406.D A204_1UG.M Thu Mar 03 11:05:29 2016 MSD1

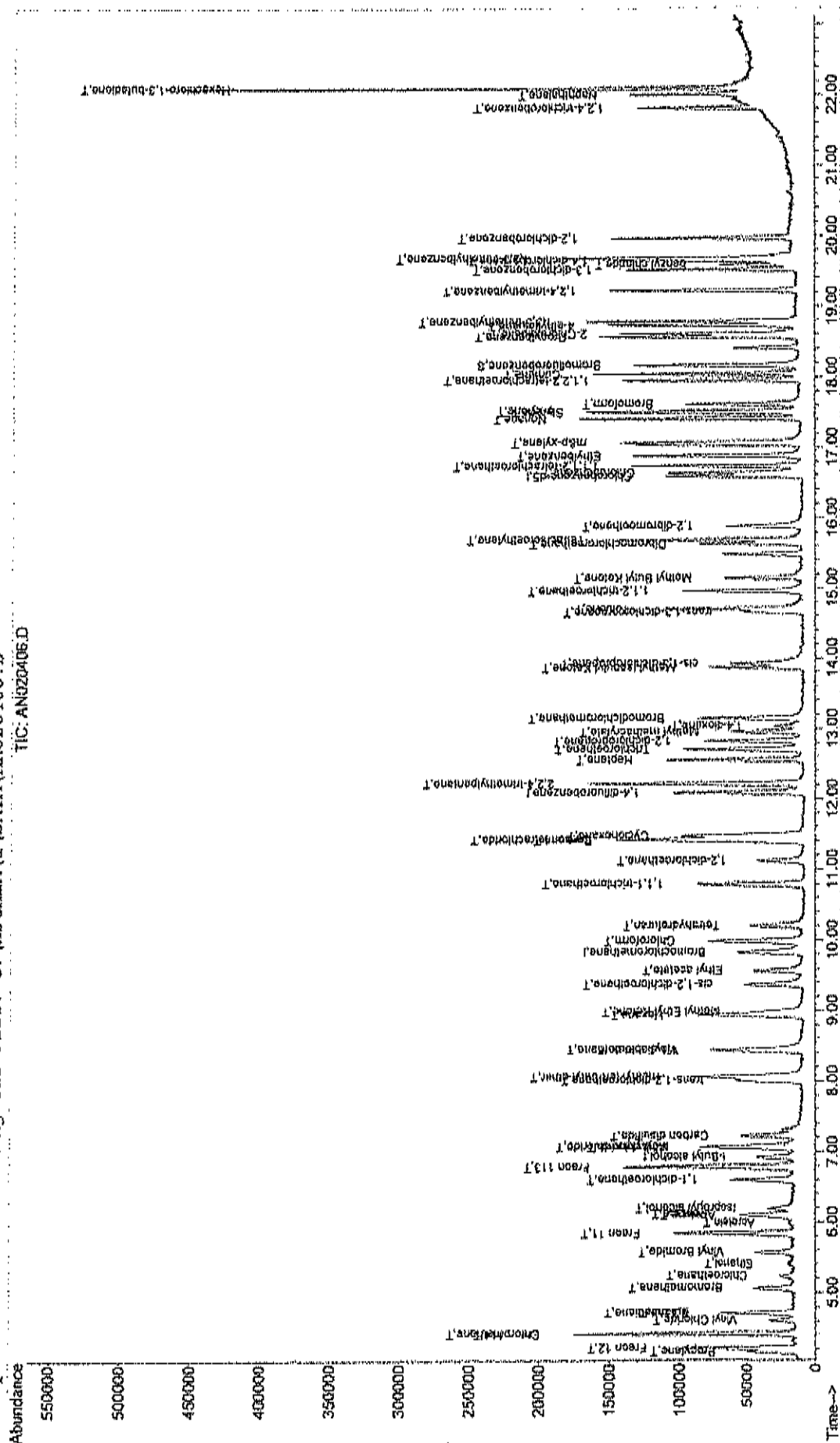
Data File : C:\HPCHEM\1\DATA\AN020406.D
Acq On : 4 Feb 2016 12:05 pm
Sample : A1UG 1.0
Misc : A204_1UG
MMS Integration Params: RTEINT.P
Quant Time: Feb 4 13:59 2016

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Method      : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.F

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TIC: AN320406.D



AN020406.D A204 1UG.M

THU Mar 03 11:05:30 2016

MSDI

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020407.D
 Acq On : 4 Feb 2016 12:43 pm
 Sample : A1UG_0.75
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:35:11 2016

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	26982	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.08	114	114242	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	80035	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	54689	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	23136	0.74	ppb	# 100
3) Freon 12	4.21	85	85456	0.73	ppb	99
4) Chloromethane	4.41	50	22359	0.62	ppb	92
5) Freon 114	4.40	85	68001	0.64	ppb	96
6) Vinyl Chloride	4.60	62	18631	0.68	ppb	90
7) Butane	4.70	43	24926m	0.70	ppb	
8) 1,3-butadiene	4.71	39	17608	0.73	ppb	88
9) Bromomethane	5.05	94	21726	0.71	ppb	87
10) Chloroethane	5.22	64	8028m	0.73	ppb	
11) Ethanol	5.38	45	4680m	0.68	ppb	
12) Acrolein	5.96	56	6272m	0.76	ppb	
13) Vinyl Bromide	5.56	106	23589	0.74	ppb	95
14) Freon 11	5.82	101	84729	0.72	ppb	99
15) Acetone	6.06	58	7890	0.77	ppb	# 91
16) Pentane	6.09	42	15565	0.71	ppb	88
17) Isopropyl alcohol	6.17	45	22288	0.74	ppb	# 46
18) 1,1-dichloroethene	6.59	96	22401	0.73	ppb	90
19) Freon 113	6.77	101	53414	0.73	ppb	96
20) t-Butyl alcohol	6.90	59	35943	0.73	ppb	# 91
21) Methylene chloride	7.07	84	20841m	0.56	ppb	
22) Allyl chloride	7.04	41	20945m	0.48	ppb	
23) Carbon disulfide	7.22	76	79949	0.73	ppb	96
24) trans-1,2-dichloroethene	8.00	61	40462	0.78	ppb	94
25) methyl tert-butyl ether	8.05	73	71996	0.74	ppb	88
26) 1,1-dichloroethane	8.42	63	52496	0.71	ppb	96
27) Vinyl acetate	8.44	43	67210	0.82	ppb	98
28) Methyl Ethyl Ketone	8.97	72	12754	0.77	ppb	# 100
29) cis-1,2-dichloroethene	9.36	61	36772	0.77	ppb	95
30) Hexane	8.92	57	42670	0.73	ppb	95
31) Ethyl acetate	9.55	43	56480	0.75	ppb	92
32) Chloroform	9.98	83	64222	0.75	ppb	99
33) Tetrahydrofuran	10.19	42	29320	0.77	ppb	98
34) 1,2-dichloroethane	11.10	62	37962	0.77	ppb	88
36) 1,1,1-trichloroethane	10.78	97	59852	0.75	ppb	98
37) Cyclohexane	11.47	56	40954	0.76	ppb	92
38) Carbon tetrachloride	11.42	117	58308	0.75	ppb	99
39) Benzene	11.39	78	74517	0.76	ppb	98
40) Methyl methacrylate	12.95	41	29160	0.74	ppb	91
41) 1,4-dioxane	13.02	88	14453	0.78	ppb	100
42) 2,2,4-trimethylpentane	12.21	57	141487	0.78	ppb	95
43) Heptane	12.55	43	42536	0.81	ppb	98
44) Trichloroethene	12.70	130	33147	0.76	ppb	99
45) 1,2-dichloropropane	12.82	63	28861	0.75	ppb	100

(#) = qualifier out of range (m) = manual integration

AN020407.D A204_1UG.M

Thu Mar 03 11:05:32 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020407.D

Vial: 5

Acq On : 4 Feb 2016 12:43 pm

Operator: RJP

Sample : A1UG_0.75

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 13:35:11 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 04 13:31:26 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	54228	0.77	ppb	98
47) cis-1,3-dichloropropene	13.92	75	38568	0.77	ppb	99
48) trans-1,3-dichloropropene	14.65	75	35739	0.75	ppb	93
49) 1,1,2-trichloroethane	14.95	97	30575	0.79	ppb	99
51) Toluene	14.70	92	39343	0.77	ppb	96
52) Methyl Isobutyl Ketone	13.86	43	51046m	0.74	ppb	
53) Dibromochloromethane	15.62	129	44291m	0.86	ppb	
54) Methyl Butyl Ketone	15.13	43	51651	0.84	ppb	94
55) 1,2-dibromoethane	15.87	107	47510	0.76	ppb	95
56) Tetrachloroethylene	15.68	164	28430	0.74	ppb	98
57) Chlorobenzene	16.63	112	57897	0.78	ppb	91
58) 1,1,1,2-tetrachloroethane	16.73	131	30601	0.76	ppb	93
59) Ethylbenzene	16.87	91	90267	0.76	ppb	96
60) m&p-xylene	17.07	91	135493	1.51	ppb	95
61) Nonane	17.40	43	51775	0.74	ppb	94
62) Styrene	17.48	104	51058	0.74	ppb	86
63) Bromoform	17.61	173	40693	0.74	ppb	98
64) o-xylene	17.51	91	76617	0.73	ppb	92
65) Cumene	18.04	105	88854	0.73	ppb	98
67) 1,1,2,2-tetrachloroethane	17.95	83	68207	0.78	ppb	98
68) Propylbenzene	18.56	91	115515m	0.77	ppb	
69) 2-Chlorotoluene	18.60	91	80119m	0.81	ppb	
70) 4-ethyltoluene	18.72	105	82858m	0.74	ppb	
71) 1,3,5-trimethylbenzene	18.77	105	81985m	0.75	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	73062	0.77	ppb	93
73) 1,3-dichlorobenzene	19.51	146	53345	0.75	ppb	98
74) benzyl chloride	19.58	91	46554	0.69	ppb	98
75) 1,4-dichlorobenzene	19.64	146	51126	0.75	ppb	96
76) 1,2,3-trimethylbenzene	19.67	105	82651	0.77	ppb	96
77) 1,2-dichlorobenzene	19.95	146	54927	0.77	ppb	96
78) 1,2,4-trichlorobenzene	21.81	180	27970m	0.82	ppb	
79) Naphthalene	22.00	128	72844m	0.89	ppb	
80) Hexachloro-1,3-butadiene	22.08	225	59734	0.69	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020407.D A204_1UG.M Thu Mar 03 11:05:33 2016 MSD1

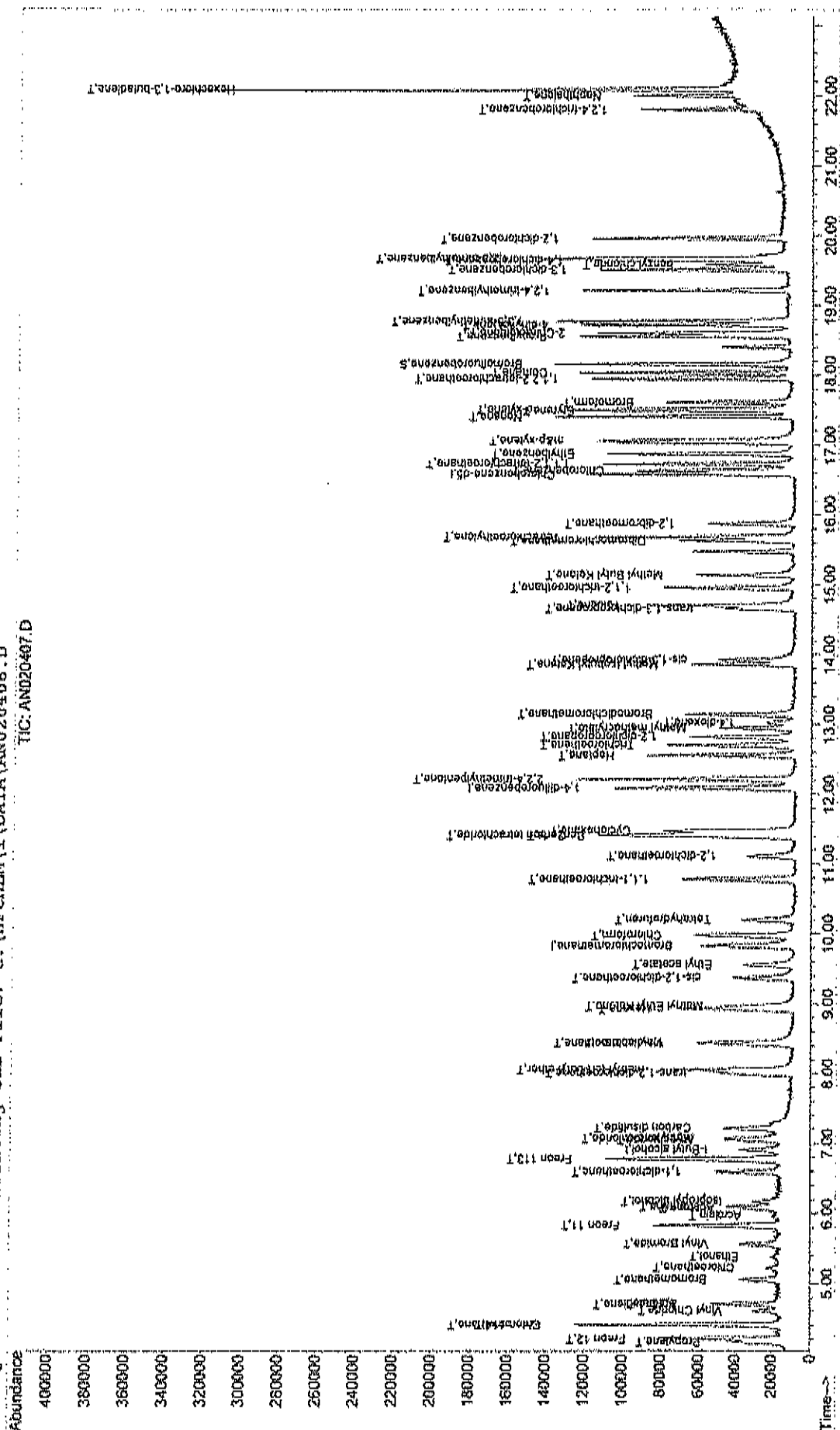
Data File : C:\HPCHEM\1\DATA\AN020407.D
Acq On : 4 Feb 2016 12:43 pm
Sample : A1UG 0.75
Misc : A204_1UG
MMS Integration Params: RTEINT.P
Quant Time: Feb 4 14:00 2016

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Method      : C:\HPCHEM\1\METHODS\A204_LUG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

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FILE: AND20407.D



AN020407.D A204 1UG.M

Thu Mar 03 11:05:34 2016

MSD1

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020408.D
 Acq On : 4 Feb 2016 1:21 pm
 Sample : A1UG_0.50
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 14:01:05 2016

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	25590	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.09	114	115016	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	89341	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	56360	0.87	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	87.00%	

Target Compounds

Target Compounds	R.T.	Qion	Response	Conc	Units	Qvalue
2) Propylene	4.16	41	16867	0.57	ppb	# 100
3) Freon 12	4.21	85	56902	0.51	ppb	100
4) Chloromethane	4.41	50	17198	0.50	ppb	94
5) Freon 114	4.41	85	46881	0.47	ppb	95
6) Vinyl Chloride	4.60	62	12585	0.48	ppb	93
7) Butane	4.70	43	18272	0.54	ppb	91
8) 1,3-butadiene	4.71	39	11386	0.50	ppb	79
9) Bromomethane	5.06	94	16884	0.58	ppb	97
10) Chloroethane	5.22	64	5282	0.51	ppb	# 77
11) Ethanol	5.40	45	2846m	0.43	ppb	
12) Acrolein	5.98	56	4295m	0.55	ppb	
13) Vinyl Bromide	5.56	106	15526	0.51	ppb	96
14) Freon 11	5.82	101	55711	0.50	ppb	96
15) Acetone	6.08	58	5704	0.59	ppb	# 90
16) Pentane	6.11	42	11169	0.53	ppb	85
17) Isopropyl alcohol	6.19	45	14795	0.52	ppb	# 46
18) 1,1-dichloroethene	6.59	96	14486	0.49	ppb	91
19) Freon 113	6.77	101	36135	0.52	ppb	97
20) t-Butyl alcohol	6.92	59	24854	0.53	ppb	# 71
21) Methylene chloride	7.07	84	14101m	0.40	ppb	
22) Allyl chloride	7.05	41	14642m	0.35	ppb	
23) Carbon disulfide	7.22	76	42762	0.41	ppb	95
24) trans-1,2-dichloroethene	8.00	61	26352	0.53	ppb	93
25) methyl tert-butyl ether	8.06	73	46980	0.51	ppb	88
26) 1,1-dichloroethane	8.43	63	36223	0.52	ppb	96
27) Vinyl acetate	8.45	43	40294	0.52	ppb	99
28) Methyl Ethyl Ketone	8.98	72	8603	0.55	ppb	# 100
29) cis-1,2-dichloroethene	9.37	61	23013	0.51	ppb	91
30) Hexane	8.93	57	28953	0.52	ppb	92
31) Ethyl acetate	9.57	43	37927	0.53	ppb	90
32) Chloroform	9.98	83	41863	0.51	ppb	96
33) Tetrahydrofuran	10.20	42	20664	0.57	ppb	97
34) 1,2-dichloroethane	11.12	62	25248	0.54	ppb	88
36) 1,1,1-trichloroethane	10.78	97	38539	0.48	ppb	99
37) Cyclohexane	11.47	56	26426	0.49	ppb	95
38) Carbon tetrachloride	11.42	117	38535	0.49	ppb	98
39) Benzene	11.40	78	49706	0.50	ppb	98
40) Methyl methacrylate	12.95	41	19009	0.48	ppb	# 84
41) 1,4-dioxane	13.03	88	9544	0.51	ppb	92
42) 2,2,4-trimethylpentane	12.21	57	87245	0.48	ppb	95
43) Heptane	12.56	43	28059	0.53	ppb	98
44) Trichloroethene	12.71	130	22834	0.52	ppb	99
45) 1,2-dichloropropane	12.82	63	19360	0.50	ppb	97

(#) = qualifier out of range (m) = manual integration

AN020408.D A204_1UG.M

Thu Mar 03 11:05:36 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020408.D
 Acq On : 4 Feb 2016 1:21 pm
 Sample : A1UG_0.50
 Misc : A204_1UG

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 14:01:05 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	35760	0.51	ppb	99
47) cis-1,3-dichloropropene	13.92	75	26513	0.53	ppb	98
48) trans-1,3-dichloropropene	14.66	75	24971	0.52	ppb	91
49) 1,1,2-trichloroethane	14.96	97	21154	0.54	ppb	94
51) Toluene	14.70	92	27545	0.48	ppb	99
52) Methyl Isobutyl Ketone	13.86	43	35639	0.46	ppb	96
53) Dibromochloromethane	15.63	129	30515m	0.53	ppb	
54) Methyl Butyl Ketone	15.14	43	40532	0.59	ppb	93
55) 1,2-dibromoethane	15.88	107	32869	0.47	ppb	96
56) Tetrachloroethylene	15.69	164	18804	0.44	ppb	96
57) Chlorobenzene	16.64	112	43896	0.53	ppb	92
58) 1,1,1,2-tetrachloroethane	16.73	131	23231	0.52	ppb	# 89
59) Ethylbenzene	16.87	91	67340	0.51	ppb	99
60) m&p-xylene	17.07	91	102219	1.02	ppb	93
61) Nonane	17.40	43	36032	0.46	ppb	97
62) Styrene	17.49	104	36554	0.48	ppb	84
63) Bromoform	17.61	173	29050	0.47	ppb	99
64) o-xylene	17.51	91	58725	0.50	ppb	92
65) Cumene	18.04	105	65952	0.48	ppb	97
67) 1,1,2,2-tetrachloroethane	17.94	83	47567	0.49	ppb	99
68) Propylbenzene	18.56	91	77066m	0.46	ppb	
69) 2-Chlorotoluene	18.60	91	56175m	0.51	ppb	
70) 4-ethyltoluene	18.72	105	59287m	0.48	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	60555m	0.49	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	47652	0.45	ppb	92
73) 1,3-dichlorobenzene	19.51	146	34902	0.44	ppb	97
74) benzyl chloride	19.59	91	34304m	0.45	ppb	
75) 1,4-dichlorobenzene	19.65	146	33917	0.45	ppb	97
76) 1,2,3-trimethylbenzene	19.67	105	50791	0.42	ppb	90
77) 1,2-dichlorobenzene	19.96	146	36352	0.45	ppb	94
78) 1,2,4-trichlorobenzene	21.81	180	19954m	0.53	ppb	
79) Naphthalene	22.00	128	49995m	0.55	ppb	
80) Hexachloro-1,3-butadiene	22.09	225	38311	0.40	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020408.D A204_1UG.M Thu Mar 03 11:05:37 2016 MSD1

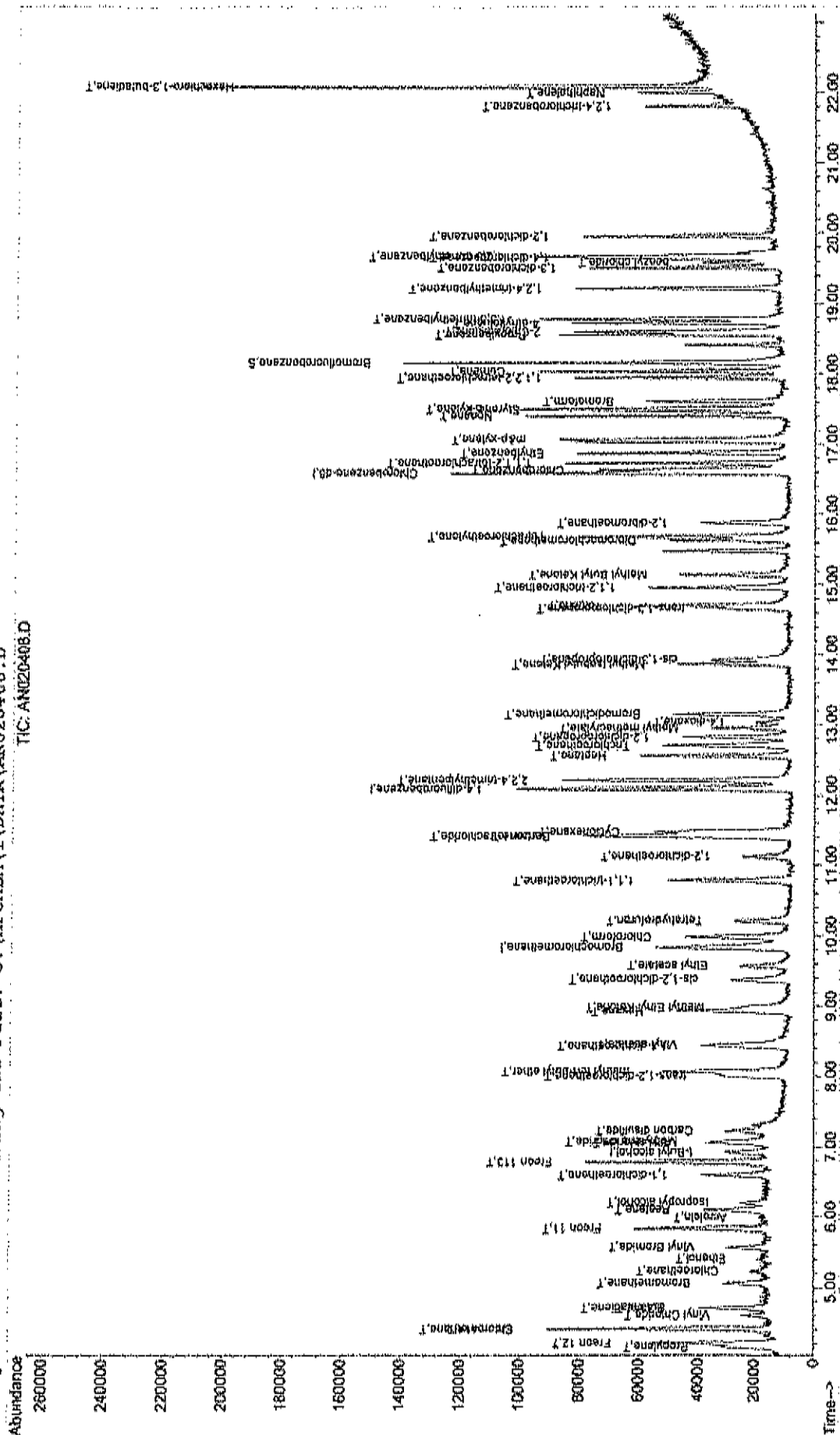
Data File : C:\HECHEM\1\DATA\RN020408.D
Acq On : 4 Feb 2016 1:21 pm
Sample : A1UG 0.50
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 4 14:02 2016

```

Method      : C:\HPCHEM\1\METHODS\A204_1UG.M (PTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.P

```

TIC: AN020408.D



3. ਚੋਖਾ

MSD1

Thu Mar 03 11:05:38 2016

AN020408.D A204 1UG.M

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020409.D
 Acq On : 4 Feb 2016 1:58 pm
 Sample : A1UG_0.30
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 14:47:07 2016

Vial: 7
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	25831	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.09	114	111491	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	94152	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	55803	0.82	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.16	41	11277	0.38	ppb	# 100
3) Freon 12	4.21	85	33432	0.30	ppb	98
4) Chloromethane	4.41	50	11528	0.33	ppb	89
5) Freon 114	4.41	85	27908	0.27	ppb	99
6) Vinyl Chloride	4.61	62	7797	0.30	ppb	95
7) Butane	4.70	43	10499	0.31	ppb	96
8) 1,3-butadiene	4.71	39	7119	0.31	ppb	91
9) Bromomethane	5.05	94	9587	0.33	ppb	94
10) Chloroethane	5.23	64	3097	0.29	ppb	# 34
11) Ethanol	5.40	45	2362	0.36	ppb	# 81
12) Acrolein	5.97	56	3020m	0.38	ppb	
13) Vinyl Bromide	5.57	106	9562	0.31	ppb	100
14) Freon 11	5.82	101	34208	0.31	ppb	99
15) Acetone	6.08	58	3461m	0.35	ppb	
16) Pentane	6.10	42	7520	0.36	ppb	94
17) Isopropyl alcohol	6.19	45	11589	0.40	ppb	# 46
18) 1,1-dichloroethene	6.59	96	9684	0.33	ppb	# 86
19) Freon 113	6.78	101	21959	0.31	ppb	97
20) t-Butyl alcohol	6.92	59	17280	0.37	ppb	# 71
21) Methylene chloride	7.07	84	12255	0.34	ppb	# 80
22) Allyl chloride	7.05	41	13429	0.32	ppb	93
23) Carbon disulfide	7.22	76	33516	0.32	ppb	94
24) trans-1,2-dichloroethene	8.01	61	16086	0.32	ppb	90
25) methyl tert-butyl ether	8.06	73	28239	0.30	ppb	84
26) 1,1-dichloroethane	8.43	63	21882	0.31	ppb	100
27) Vinyl acetate	8.46	43	26898	0.34	ppb	96
28) Methyl Ethyl Ketone	9.00	72	4847	0.30	ppb	# 100
29) cis-1,2-dichloroethene	9.38	61	14618	0.32	ppb	94
30) Hexane	8.93	57	17221	0.31	ppb	95
31) Ethyl acetate	9.56	43	25006	0.35	ppb	94
32) Chloroform	9.98	83	25239	0.31	ppb	98
33) Tetrahydrofuran	10.20	42	12267	0.34	ppb	95
34) 1,2-dichloroethane	11.13	62	15584	0.33	ppb	85
36) 1,1,1-trichloroethane	10.78	97	23086	0.30	ppb	97
37) Cyclohexane	11.47	56	16461	0.31	ppb	91
38) Carbon tetrachloride	11.42	117	22432	0.30	ppb	97
39) Benzene	11.41	78	30880	0.32	ppb	98
40) Methyl methacrylate	12.96	41	11859	0.31	ppb	89
41) 1,4-dioxane	13.04	88	6188	0.34	ppb	93
42) 2,2,4-trimethylpentane	12.21	57	61496	0.35	ppb	91
43) Heptane	12.56	43	16068	0.31	ppb	98
44) Trichloroethene	12.71	130	13470	0.32	ppb	99
45) 1,2-dichloropropane	12.82	63	12133	0.32	ppb	95

(#) = qualifier out of range (m) = manual integration

AN020409.D A204_1UG.M

Thu Mar 03 11:05:40 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020409.D
 Acq On : 4 Feb 2016 1:58 pm
 Sample : A1UG_0.30
 Misc : A204_1UG

Vial: 7
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 14:47:07 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 04 13:31:26 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.15	83	22008	0.32	ppb	98
47) cis-1,3-dichloropropene	13.92	75	16685	0.34	ppb	98
48) trans-1,3-dichloropropene	14.65	75	15383	0.33	ppb	93
49) 1,1,2-trichloroethane	14.95	97	14079	0.37	ppb	99
51) Toluene	14.71	92	17801	0.30	ppb	98
52) Methyl Isobutyl Ketone	13.86	43	23620	0.29	ppb	96
53) Dibromochloromethane	15.63	129	18626m	0.31	ppb	
54) Methyl Butyl Ketone	15.15	43	26991	0.37	ppb	93
55) 1,2-dibromoethane	15.88	107	20700	0.28	ppb	93
56) Tetrachloroethylene	15.68	164	12434	0.27	ppb	97
57) Chlorobenzene	16.64	112	27846	0.32	ppb	92
58) 1,1,1,2-tetrachloroethane	16.73	131	14918	0.32	ppb	# 89
59) Ethylbenzene	16.88	91	42011	0.30	ppb	100
60) m&p-xylene	17.07	91	59383	0.56	ppb	91
61) Nonane	17.40	43	21294	0.26	ppb	93
62) Styrene	17.49	104	21284	0.26	ppb	89
63) Bromoform	17.62	173	17630	0.27	ppb	100
64) o-xylene	17.51	91	33905	0.28	ppb	92
65) Cumene	18.04	105	37685	0.26	ppb	96
67) 1,1,2,2-tetrachloroethane	17.95	83	28507	0.28	ppb	97
68) Propylbenzene	18.56	91	48609m	0.28	ppb	
69) 2-Chlorotoluene	18.60	91	32411m	0.28	ppb	
70) 4-ethyltoluene	18.72	105	34678m	0.26	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	35033m	0.27	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	27978	0.25	ppb	92
73) 1,3-dichlorobenzene	19.51	146	20454	0.25	ppb	97
74) benzyl chloride	19.58	91	22937m	0.29	ppb	
75) 1,4-dichlorobenzene	19.64	146	19059	0.24	ppb	94
76) 1,2,3-trimethylbenzene	19.67	105	28865	0.23	ppb	94
77) 1,2-dichlorobenzene	19.96	146	20973	0.25	ppb	97
78) 1,2,4-trichlorobenzene	21.81	180	11260m	0.28	ppb	
79) Naphthalene	22.00	128	31577m	0.33	ppb	
80) Hexachloro-1,3-butadiene	22.08	225	22178	0.22	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020409.D A204_1UG.M Thu Mar 03 11:05:41 2016 MSD1

Data File : C:\NPCHEM\1\DATA\AN020409.D
Acq On : 4 Feb 2016 1:58 pm
Sample : A1UG 0.30
Misc : A204_1UG
MMS Integration Params: RTEINT.P
Quant Time: Feb 4 14:48 2016

Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

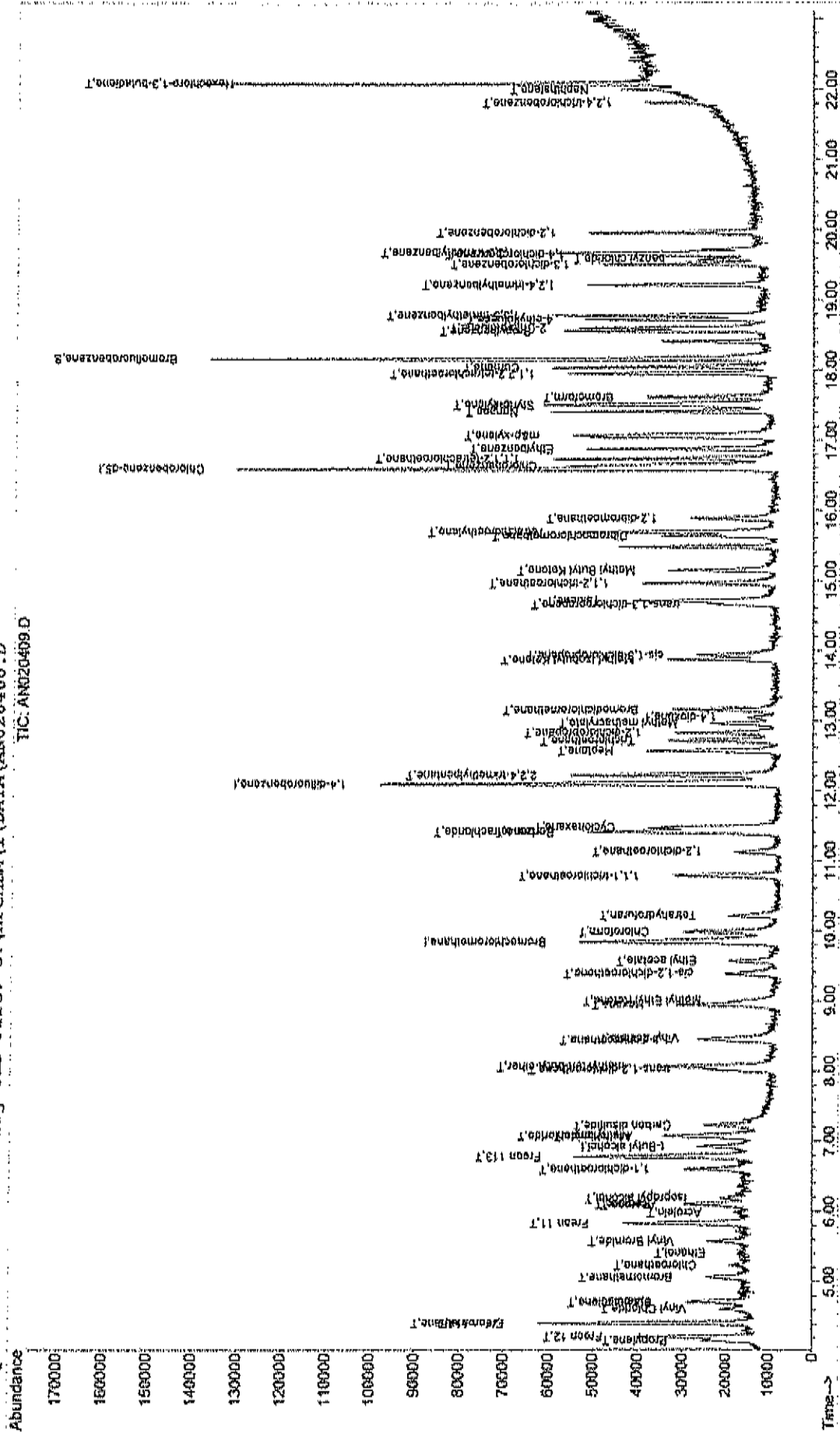
Quant Results File: A204 1UG.RES

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Method      : C:\HPCHEM\1\METHODS\A204_IUG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.

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TIC: AM020409.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020410.D
 Acq On : 4 Feb 2016 2:34 pm
 Sample : A1UG 0.15
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 15:08:08 2016

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	24804	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.09	114	109192	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	95402	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	56765m	0.82	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.16	41	6172	0.21	ppb	# 100
3) Freon 12	4.21	85	17959	0.17	ppb	100
4) Chloromethane	4.41	50	6507	0.20	ppb	89
5) Freon 114	4.41	85	15207	0.16	ppb	96
6) Vinyl Chloride	4.61	62	4489	0.18	ppb	95
7) Butane	4.70	43	5370m	0.16	ppb	
8) 1,3-butadiene	4.71	39	3871m	0.18	ppb	
9) Bromomethane	5.06	94	5417	0.19	ppb	96
10) Chloroethane	5.22	64	1956	0.19	ppb	# 60
11) Ethanol	5.41	45	930m	0.15	ppb	
12) Acrolein	5.98	56	1037m	0.14	ppb	
13) Vinyl Bromide	5.57	106	4948	0.17	ppb	94
14) Freon 11	5.83	101	18510	0.17	ppb	97
15) Acetone	6.10	58	1894m	0.20	ppb	
16) Pentane	6.09	42	3342	0.16	ppb	# 43
17) Isopropyl alcohol	6.19	45	5165	0.19	ppb	# 46
18) 1,1-dichloroethene	6.59	96	5184	0.18	ppb	# 83
19) Freon 113	6.77	101	11494	0.17	ppb	96
20) t-Butyl alcohol	6.94	59	9383	0.21	ppb	# 32
21) Methylene chloride	7.07	84	4928	0.14	ppb	94
22) Allyl chloride	7.05	41	5292m	0.13	ppb	
23) Carbon disulfide	7.22	76	19251	0.19	ppb	81
24) trans-1,2-dichloroethene	8.00	61	8110	0.17	ppb	90
25) methyl tert-butyl ether	8.07	73	16317	0.18	ppb	76
26) 1,1-dichloroethane	8.43	63	11497	0.17	ppb	96
27) Vinyl acetate	8.47	43	13085	0.17	ppb	88
28) Methyl Ethyl Ketone	9.01	72	2382	0.16	ppb	# 100
29) cis-1,2-dichloroethene	9.40	61	7379	0.17	ppb	91
30) Hexane	8.94	57	8383	0.16	ppb	93
31) Ethyl acetate	9.58	43	14191	0.20	ppb	89
32) Chloroform	9.98	83	13293	0.17	ppb	98
33) Tetrahydrofuran	10.22	42	6374	0.18	ppb	98
34) 1,2-dichloroethane	11.13	62	8281	0.18	ppb	87
36) 1,1,1-trichloroethane	10.78	97	12068	0.16	ppb	98
37) Cyclohexane	11.48	56	8346	0.16	ppb	88
38) Carbon tetrachloride	11.43	117	11645	0.16	ppb	96
39) Benzene	11.40	78	15787	0.17	ppb	97
40) Methyl methacrylate	12.96	41	5860	0.16	ppb	# 77
41) 1,4-dioxane	13.05	88	3623	0.21	ppb	96
42) 2,2,4-trimethylpentane	12.21	57	28749	0.17	ppb	97
43) Heptane	12.56	43	9743	0.19	ppb	94
44) Trichloroethene	12.71	130	6943	0.17	ppb	96
45) 1,2-dichloropropane	12.82	63	6726	0.18	ppb	97

(#) = qualifier out of range (m) = manual integration

AN020410.D A204_1UG.M

Thu Mar 03 11:05:44 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020410.D
 Acq On : 4 Feb 2016 2:34 pm
 Sample : A1UG_0.15
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 15:08:08 2016

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.15	83	11597	0.17	ppb	100
47) cis-1,3-dichloropropene	13.94	75	9531	0.20	ppb	97
48) trans-1,3-dichloropropene	14.67	75	8168	0.18	ppb	92
49) 1,1,2-trichloroethane	14.97	97	7392	0.21	ppb	99
51) Toluene	14.71	92	9611	0.16	ppb	# 84
52) Methyl Isobutyl Ketone	13.87	43	15078	0.18	ppb	88
53) Dibromochloromethane	15.63	129	10784m	0.17	ppb	
54) Methyl Butyl Ketone	15.15	43	15519	0.21	ppb	92
55) 1,2-dibromoethane	15.89	107	12142	0.16	ppb	99
56) Tetrachloroethylene	15.68	164	6818	0.15	ppb	96
57) Chlorobenzene	16.64	112	15532	0.17	ppb	97
58) 1,1,1,2-tetrachloroethane	16.74	131	8163	0.17	ppb	# 84
59) Ethylbenzene	16.88	91	23290	0.16	ppb	100
60) m&p-xylene	17.07	91	32846	0.31	ppb	92
61) Nonane	17.41	43	12585	0.15	ppb	93
62) Styrene	17.49	104	11451	0.14	ppb	94
63) Bromoform	17.62	173	9755	0.15	ppb	96
64) o-xylene	17.51	91	18030	0.14	ppb	88
65) Cumene	18.05	108	22256	0.15	ppb	97
67) 1,1,2,2-tetrachloroethane	17.95	83	16526	0.16	ppb	97
68) Propylbenzene	18.56	91	23468m	0.13	ppb	
69) 2-Chlorotoluene	18.61	91	19149m	0.16	ppb	
70) 4-ethyltoluene	18.73	105	18694m	0.14	ppb	
71) 1,3,5-trimethylbenzene	18.77	105	19077m	0.15	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	14954	0.13	ppb	91
73) 1,3-dichlorobenzene	19.52	146	10644	0.13	ppb	94
74) benzyl chloride	19.59	91	10444	0.13	ppb	95
75) 1,4-dichlorobenzene	19.65	146	10064	0.12	ppb	97
76) 1,2,3-trimethylbenzene	19.67	105	17577	0.14	ppb	98
77) 1,2-dichlorobenzene	19.96	146	11391	0.13	ppb	94
78) 1,2,4-trichlorobenzene	21.81	180	5773m	0.14	ppb	
79) Naphthalene	22.00	128	16967m	0.17	ppb	
80) Hexachloro-1,3-butadiene	22.09	225	12302m	0.12	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020410.D A204_1UG.M Thu Mar 03 11:05:45 2016 MSD1

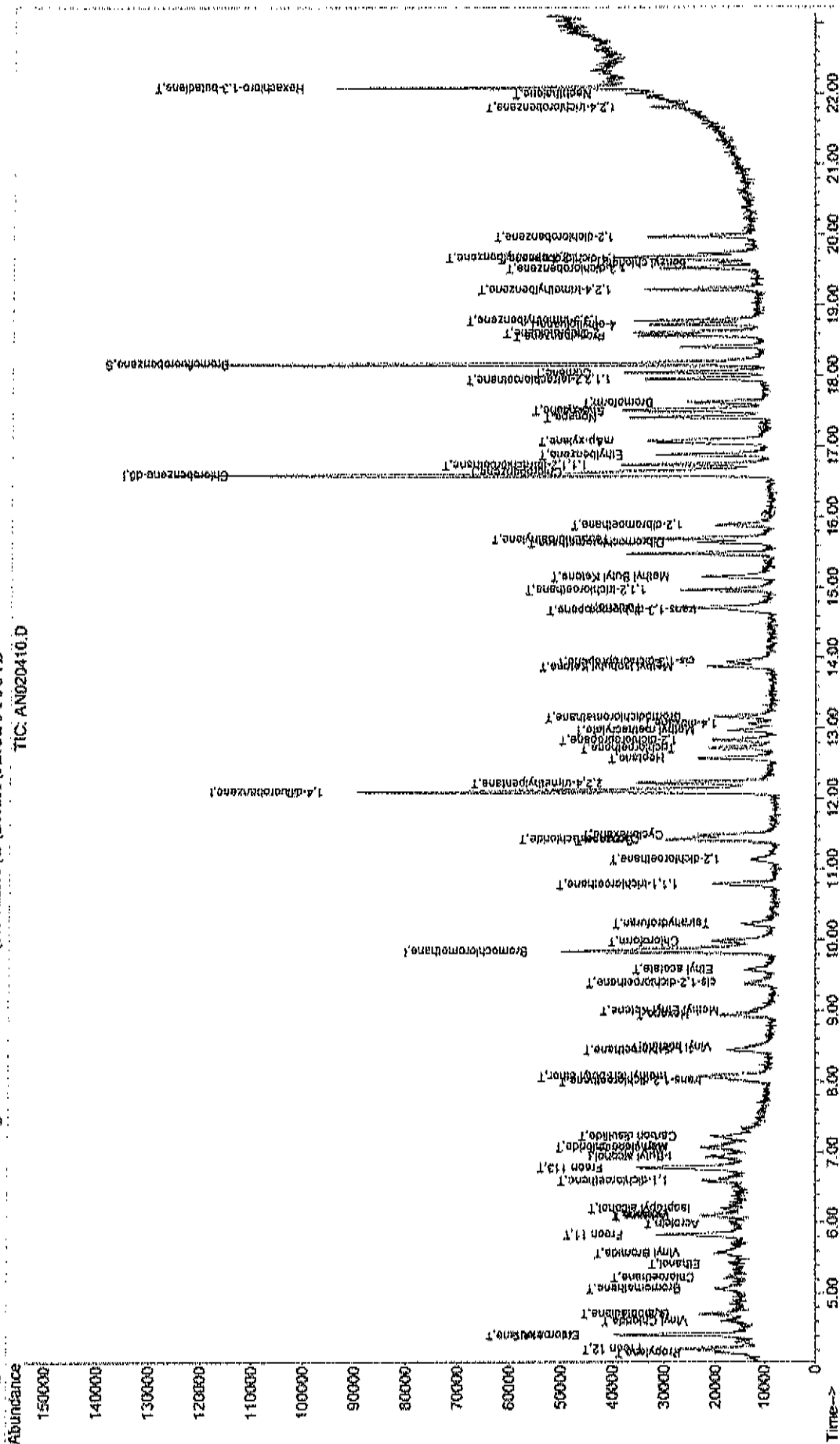
Data File : C:\HPCHEM\1\DATA\AN020410.D
Acq On : 4 Feb 2016 2:34 pm
Sample : A1UG 0.15
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 4 15:11 2016

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Method      : C:\HPCHEM\1\METHODS\A264_1UG.M (RTB Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.

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Incidence



AND20410.D A204 1UG.M

THU Mar 03 11:05:46 2016

MSD1

Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020412.D

Vial: 10

Acq On : 4 Feb 2016 3:48 pm

Operator: RJP

Sample : A1UG_0.04

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 16:14:07 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 04 13:31:26 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.84	128	24642	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.10	114	110671	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	92583	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	54524	0.82	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%

Target Compounds

					Qvalue
6) Vinyl Chloride	4.60	62	1435	0.06	ppb 86
38) Carbon tetrachloride	11.43	117	4131m / ¹	0.05	ppb
44) Trichloroethene	12.73	130	2337	0.06	ppb 97

K:\MSDCHEM\DATA\AN020412.D

VIAL REVIEW

Data File : C:\MSDCHEM\1\DATA\AN020412.D

Acq On : 4 Feb 2016 3:48 pm

Sample : A1UG 0.04

Misc : A204_1UG

MS Integration Params: RTEINT.P

Quant Time: Feb 4 16:15 2016

Quant Results File: A204_1UG.RES

Method : C:\MSDCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

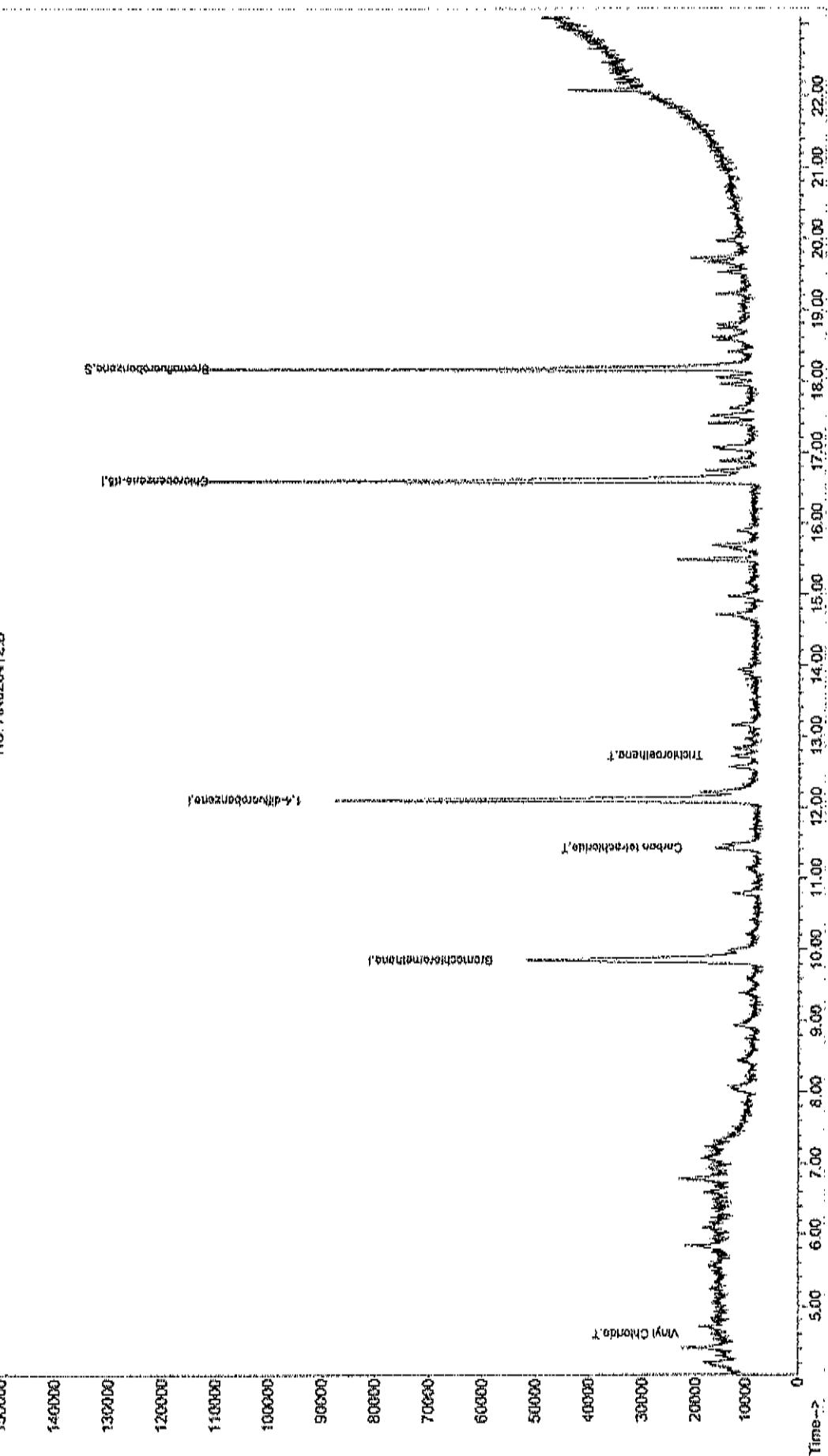
Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 03 10:59:01 2016

Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\AN020406.D

Abundance

TIC: AN020412.D



AN020412.D A204_1UG.M

Thu Mar 03 11:06:07 2016

MSD1

Page 2

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AN030203.D

Vial: 3

Acq On : 2 Mar 2016 10:45 am

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Fri Mar 18 09:18:17 2016

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min

Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	127	0.00
2 T	Propylene	1.239	0.986	20.4	108	0.00
3 T	Freon 12	4.355	4.618	-6.0	135	0.00
4 T	Chloromethane	1.318	1.071	18.7	100	0.00
5 T	Freon 114	3.638	4.171	-14.7	135	0.00
6 T	Vinyl Chloride	1.045	1.002	4.1	125	0.00
7 T	Butane	1.275	1.084	15.0	104	0.00
8 T	1,3-butadiene	0.889	0.845	4.9	118	0.00
9 T	Bromomethane	1.193	1.426	-19.5	160#	0.00
10 T	Chloroethane	0.418	0.459	-9.8	144	0.00
11 T	Ethanol	0.256	0.305	-19.1	151#	0.00
12 T	Acrolein	0.310	0.277	10.6	120	0.00
13 T	Vinyl Bromide	1.197	1.421	-18.7	152#	0.00
14 T	Freon 11	4.372	5.016	-14.7	147	0.00
15 T	Acetone	0.423	0.414	2.1	134	0.00
16 T	Pentane	0.841	0.774	8.0	120	0.00
17 T	Isopropyl alcohol	1.220	0.941	22.9	107	0.00
18 T	1,1-dichloroethene	1.163	1.482	-27.4	164#	0.00
19 T	Freon 113	2.761	3.478	-26.0	162#	0.00
20 t	t-Butyl alcohol	2.203	1.870	15.1	129	0.00
21 T	Methylene chloride	1.313	1.498	-14.1	137	0.00
22 T	Allyl chloride	1.494	1.251	16.3	95	0.00
23 T	Carbon disulfide	4.098	4.143	-1.1	130	0.00
24 T	trans-1,2-dichloroethene	2.029	1.861	8.3	122	0.00
25 T	methyl tert-butyl ether	3.703	2.646	28.5	93	0.00
26 T	1,1-dichloroethane	2.780	2.666	4.1	124	0.00
27 T	Vinyl acetate	3.306	2.762	16.5	113	0.00
28 T	Methyl Ethyl Ketone	0.649	0.524	19.3	106	0.00
29 T	cis-1,2-dichloroethene	1.841	1.339	27.3	95	0.00
30 T	Hexane	2.185	1.565	28.4	92	0.00
31 T	Ethyl acetate	3.069	2.369	22.8	107	0.00
32 T	Chloroform	3.241	3.174	2.1	127	0.00
33 T	Tetrahydrofuran	1.511	1.167	22.8	105	0.00
34 T	1,2-dichloroethane	1.934	1.547	20.0	107	0.00
35 I	1,4-difluorobenzene	1.000	1.000	0.0	89	0.00
36 T	1,1,1-trichloroethane	0.694	0.880	-26.8	113	0.00
37 T	Cyclohexane	0.474	0.445	6.1	85	0.00
38 T	Carbon tetrachloride	0.708	0.923	-30.4#	122	0.00
39 T	Benzene	0.883	1.024	-16.0	107	0.00
40 T	Methyl methacrylate	0.353	0.272	22.9	71	0.00
41 T	1,4-dioxane	0.179	0.143	20.1	79	0.00
42 T	2,2,4-trimethylpentane	1.634	1.733	-6.1	98	0.00
43 T	Heptane	0.498	0.403	19.1	78	0.00
44 T	Trichloroethene	0.408	0.483	-18.4	114	0.00
45 T	1,2-dichloropropane	0.346	0.419	-21.1	111	0.00
46 T	Bromodichloromethane	0.638	0.776	-21.6	114	0.00
47 T	cis-1,3-dichloropropene	0.469	0.516	-10.0	106	0.00
48 T	trans-1,3-dichloropropene	0.428	0.447	-4.4	96	0.00
49 T	1,1,2-trichloroethane	0.362	0.426	-17.7	113	0.00

(#) = Out of Range

AN030203.D A204_1UG.M

Fri Mar 18 09:22:52 2016

MSD1

Page 1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AN030203.D

Vial: 3

Acq On : 2 Mar 2016 10:45 am

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Fri Mar 18 09:18:17 2016

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min

Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51 T	Toluene	0.669	0.578	13.6	92	0.00
52 T	Methyl Isobutyl Ketone	0.938	0.674	28.1	79	0.00
53 T	Dibromochloromethane	0.723	0.900	-24.5	134	0.00
54 T	Methyl Butyl Ketone	0.917	0.656	28.5	87	0.00
55 T	1,2-dibromoethane	0.788	0.918	-16.5	120	0.00
56 T	Tetrachloroethylene	0.472	0.538	-14.0	114	0.00
57 T	Chlorobenzene	0.958	1.012	-5.6	110	0.00
58 T	1,1,1,2-tetrachloroethane	0.510	0.671	-31.6#	136	0.00
59 T	Ethylbenzene	1.472	1.312	10.9	91	0.00
60 T	m&p-xylene	1.127	1.106	1.9	101	0.00
61 T	Nonane	0.916	0.717	21.7	83	0.00
62 T	Styrene	0.869	0.884	-1.7	104	0.00
63 T	Bromoform	0.680	0.835	-22.8	123	0.00
64 T	o-xylene	1.298	1.601	-23.3	125	0.00
65 T	Cumene	1.598	1.405	12.1	94	0.00
66 S	Bromofluorobenzene	0.681	0.720	-5.7	101	0.00
67 T	1,1,2,2-tetrachloroethane	1.163	1.367	-17.5	127	0.00
68 T	Propylbenzene	1.894	1.565	17.4	91	0.00
69 T	2-Chlorotoluene	1.291	1.461	-13.2	119	0.00
70 T	4-ethyltoluene	1.462	1.249	14.6	89	0.00
71 T	1,3,5-trimethylbenzene	1.426	1.388	2.7	104	0.00
72 T	1,2,4-trimethylbenzene	1.226	0.945	22.9	81	0.00
73 T	1,3-dichlorobenzene	0.886	0.911	-2.8	105	0.00
74 T	benzyl chloride	0.837	0.918	-9.7	111	0.00
75 T	1,4-dichlorobenzene	0.854	0.852	0.2	102	0.00
76 T	1,2,3-trimethylbenzene	1.353	1.196	11.6	91	0.00
77 T	1,2-dichlorobenzene	0.908	1.027	-13.1	116	0.00
78 T	1,2,4-trichlorobenzene	0.493	0.410	16.8	86	0.00
79 T	Naphthalene	1.286	0.913	29.0	73	0.00
80 T	Hexachloro-1,3-butadiene	1.029	1.081	-5.1	102	0.00

Data File : C:\HPCHEM\1\DATA\AN030203.D

Vial: 3

Acq On : 2 Mar 2016 10:45 am

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 02 11:10:45 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	32908	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.08	114	100394	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	77430	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	55758	1.06	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%

Target Compounds

						Qvalue
2) Propylene	4.15	41	32443	0.80	ppb	# 100
3) Freon 12	4.20	85	151973	1.06	ppb	100
4) Chloromethane	4.40	50	35238	0.81	ppb	98
5) Freon 114	4.40	85	137244	1.15	ppb	92
6) Vinyl Chloride	4.60	62	32970	0.96	ppb	94
7) Butane	4.70	43	35678	0.85	ppb	98
8) 1,3-butadiene	4.70	39	27792	0.95	ppb	94
9) Bromomethane	5.05	94	46941	1.20	ppb	92
10) Chloroethane	5.22	64	15113	1.10	ppb	98
11) Ethanol	5.38	45	10035	1.19	ppb	# 60
12) Acrolein	5.97	56	9103	0.89	ppb	93
13) Vinyl Bromide	5.57	106	46758	1.19	ppb	95
14) Freon 11	5.82	101	165069	1.15	ppb	98
15) Acetone	6.07	58	13611	0.98	ppb	# 66
16) Pentane	6.09	42	25472	0.92	ppb	97
17) Isopropyl alcohol	6.18	45	30958	0.77	ppb	# 46
18) 1,1-dichloroethene	6.58	96	48756	1.27	ppb	96
19) Freon 113	6.77	101	114438m	1.26	ppb	
20) t-Butyl alcohol	6.92	59	61546	0.85	ppb	# 69
21) Methylene chloride	7.07	84	49287	1.14	ppb	92
22) Allyl chloride	7.04	41	41176m	0.84	ppb	
23) Carbon disulfide	7.22	76	136331	1.01	ppb	97
24) trans-1,2-dichloroethene	8.01	61	61230m	0.92	ppb	
25) methyl tert-butyl ether	8.06	73	87059m	0.71	ppb	
26) 1,1-dichloroethane	8.43	63	87738	0.96	ppb	99
27) Vinyl acetate	8.44	43	90877m	0.84	ppb	
28) Methyl Ethyl Ketone	8.97	72	17244	0.81	ppb	# 100
29) cis-1,2-dichloroethene	9.36	61	44053	0.73	ppb	87
30) Hexane	8.93	57	51494m	0.72	ppb	
31) Ethyl acetate	9.56	43	77944m	0.77	ppb	
32) Chloroform	9.97	83	104465	0.98	ppb	98
33) Tetrahydrofuran	10.21	42	38413m	0.77	ppb	
34) 1,2-dichloroethane	11.10	62	50912	0.80	ppb	88
36) 1,1,1-trichloroethane	10.78	97	88328m	1.27	ppb	
37) Cyclohexane	11.47	56	44655	0.94	ppb	92
38) Carbon tetrachloride	11.42	117	92679m	1.30	ppb	
39) Benzene	11.39	78	102811	1.16	ppb	95
40) Methyl methacrylate	12.94	41	27309	0.77	ppb	# 73
41) 1,4-dioxane	13.04	88	14369	0.80	ppb	90
42) 2,2,4-trimethylpentane	12.21	57	173966	1.06	ppb	94
43) Heptane	12.56	43	40474	0.81	ppb	92
44) Trichloroethene	12.70	130	48473	1.18	ppb	98
45) 1,2-dichloropropane	12.82	63	42047	1.21	ppb	98

(#)= qualifier out of range (m) = manual integration

AN030203.D A204_1UG.M

Fri Mar 18 09:22:57 2016

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AN030203.D

Vial: 3

Acq On : 2 Mar 2016 10:45 am

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 02 11:10:45 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

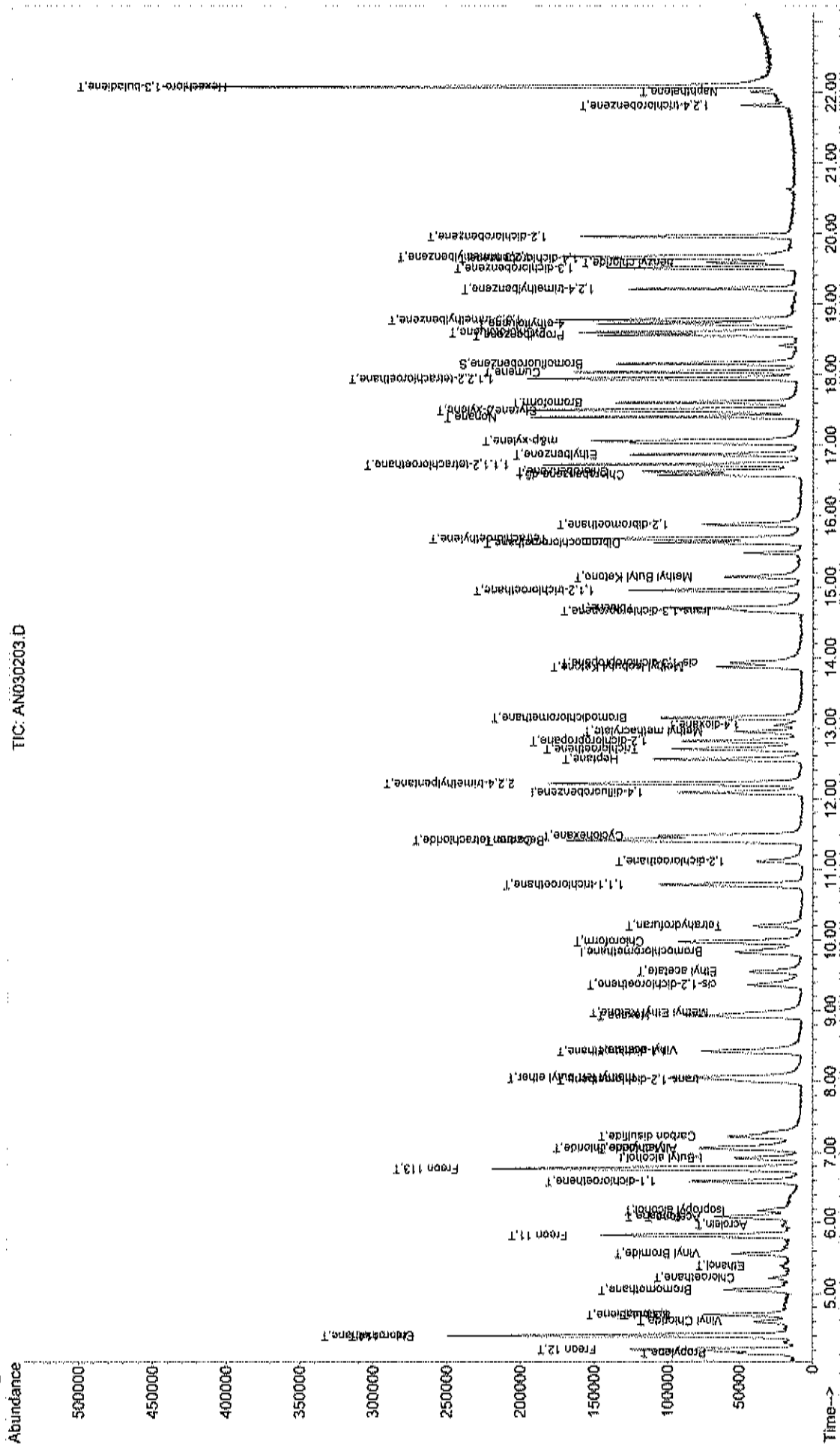
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	77945m	1.22	ppb	
47) cis-1,3-dichloropropene	13.93	75	51802	1.10	ppb	99
48) trans-1,3-dichloropropene	14.66	75	44828	1.04	ppb	94
49) 1,1,2-trichloroethane	14.95	97	42799m	1.18	ppb	
51) Toluene	14.70	92	44730	0.86	ppb	96
52) Methyl Isobutyl Ketone	13.86	43	52207m	0.72	ppb	
53) Dibromochloromethane	15.62	129	69651m	1.24	ppb	
54) Methyl Butyl Ketone	15.14	43	50803	0.72	ppb	93
55) 1,2-dibromoethane	15.88	107	71092	1.17	ppb	97
56) Tetrachloroethylene	15.68	164	41639	1.14	ppb	98
57) Chlorobenzene	16.63	112	78323	1.06	ppb	90
58) 1,1,1,2-tetrachloroethane	16.73	131	51940m	1.31	ppb	
59) Ethylbenzene	16.87	91	101567	0.89	ppb	98
60) m&p-xylene	17.06	91	171287	1.96	ppb	92
61) Nonane	17.40	43	55518	0.78	ppb	97
62) Styrene	17.49	104	68478	1.02	ppb	85
63) Bromoform	17.61	173	64629m	1.23	ppb	
64) o-xylene	17.51	91	123934	1.23	ppb	94
65) Cumene	18.04	105	108815	0.88	ppb	98
67) 1,1,2,2-tetrachloroethane	17.95	83	105875m	1.18	ppb	
68) Propylbenzene	18.56	91	121208m	0.83	ppb	
69) 2-Chlorotoluene	18.60	91	113123m	1.13	ppb	
70) 4-ethyltoluene	18.72	105	96715m	0.85	ppb	
71) 1,3,5-trimethylbenzene	18.77	105	107511m	0.97	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	73166	0.77	ppb	93
73) 1,3-dichlorobenzene	19.51	146	70535m	1.03	ppb	
74) benzyl chloride	19.58	91	71097	1.10	ppb	98
75) 1,4-dichlorobenzene	19.64	146	65986	1.00	ppb	95
76) 1,2,3-trimethylbenzene	19.68	105	92622	0.88	ppb	97
77) 1,2-dichlorobenzene	19.96	146	79507	1.13	ppb	94
78) 1,2,4-trichlorobenzene	21.81	180	31745m	0.83	ppb	
79) Naphthalene	22.00	128	70656m	0.71	ppb	
80) Hexachloro-1,3-butadiene	22.09	225	83691	1.05	ppb	99

Data File : C:\HPCHEM\1\DATA\AN030203.D
Acq On : 2 Mar 2016 10:45 am
Sample : A1UG 1.0
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 2 12:47 2016

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 18 09:18:17 2016
Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AN020401.D

Acq On : 4 Feb 2016 8:43 am

Sample : BFB1UG

Misc : A131_1UG

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

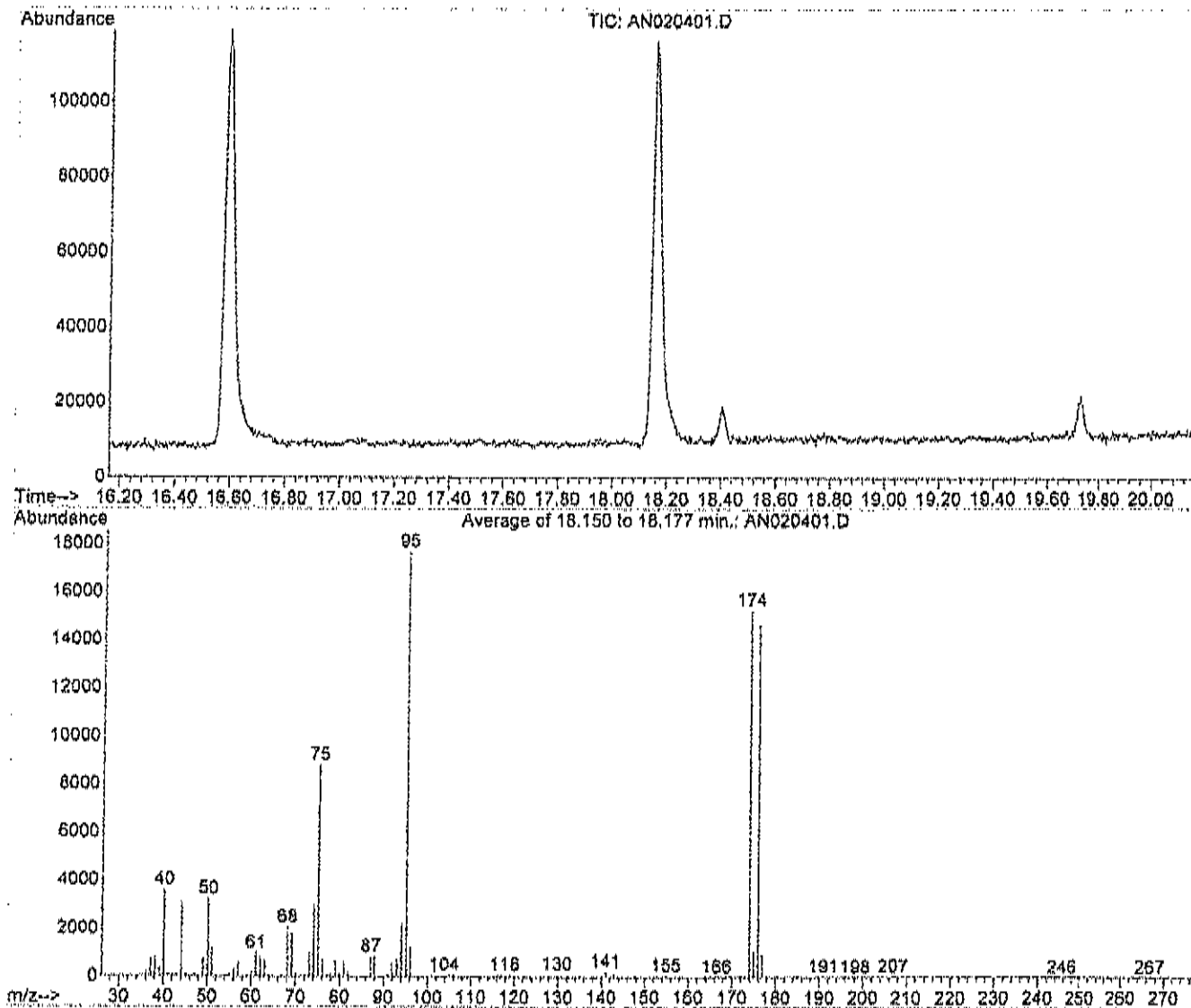
Title : TO-15 VOA Standards for 5 point calibration

Vial: 11

Operator: RJP

Inst : MSD #1

Multiplr: 1.00



Spectrum Information: Average of 18.150 to 18.177 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.3	3242	PASS
75	95	30	66	49.8	8816	PASS
95	95	100	100	100.0	17690	PASS
96	95	5	9	7.0	1235	PASS
173	174	0.00	2	0.4	55	PASS
174	95	50	120	86.3	15262	PASS
175	174	4	9	7.3	1107	PASS
176	174	95	101	96.2	14681	PASS
177	176	5	9	6.4	936	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AN030201.D

Vial: 1

Acq On : 2 Mar 2016 9:08 am

Operator: RJP

Sample : BFB1UG

Inst : MSD #1

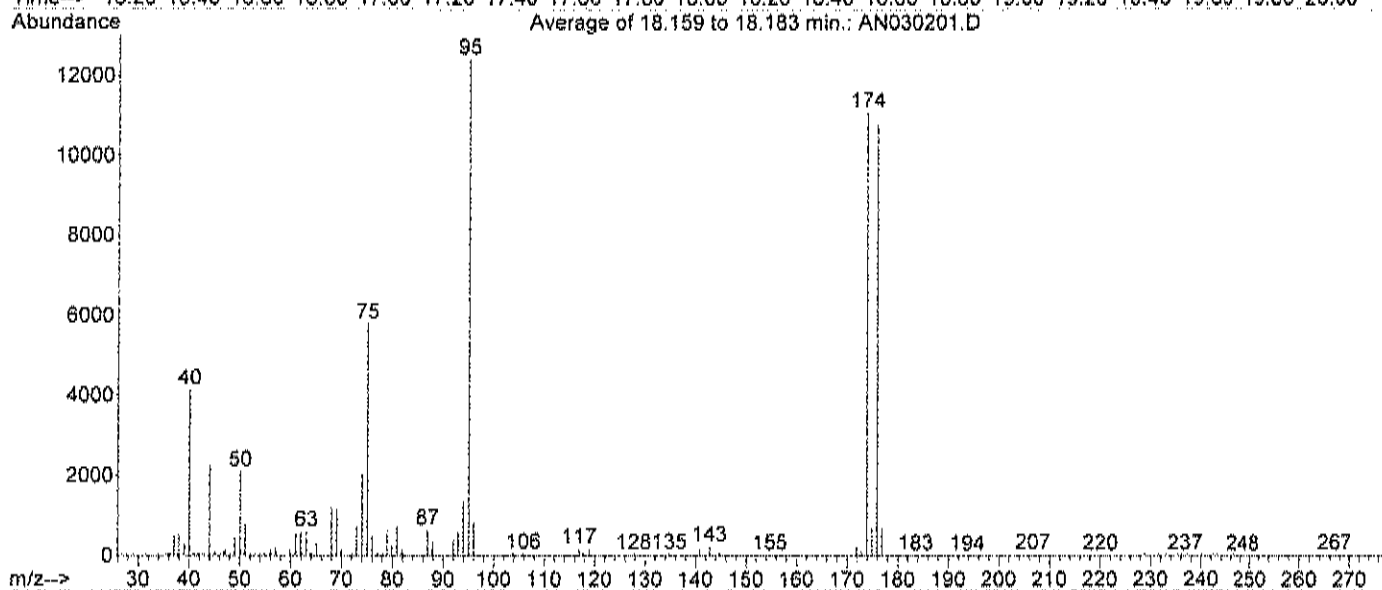
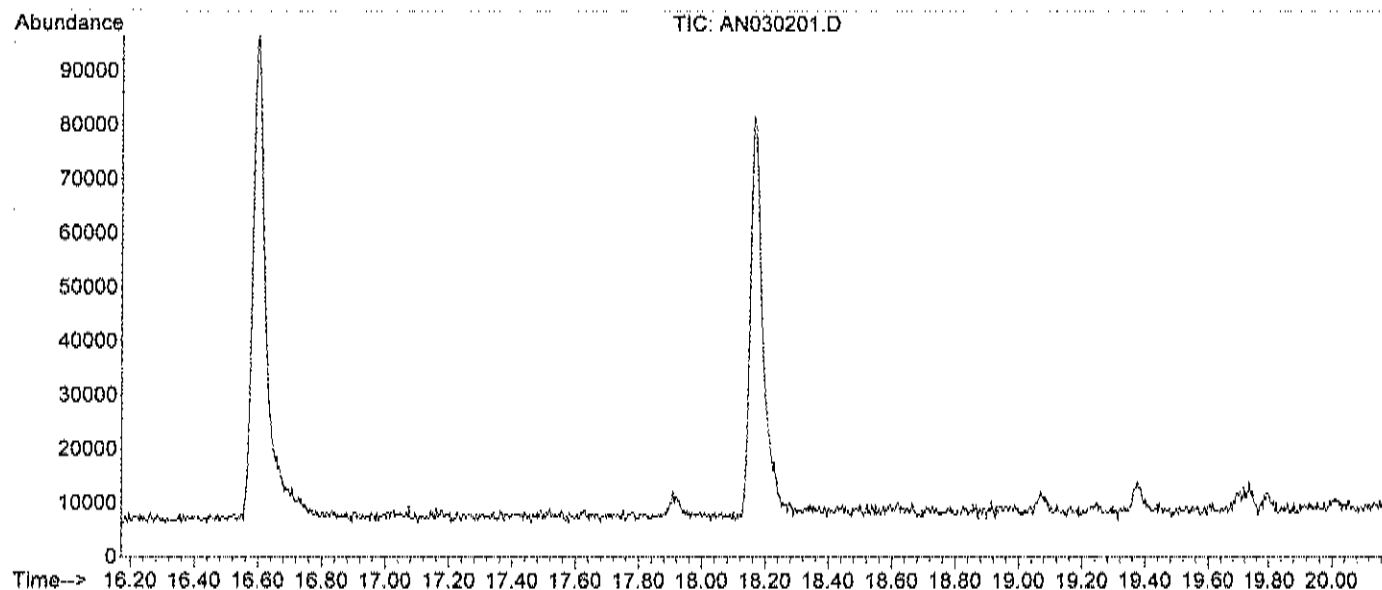
Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 18.159 to 18.183 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.0	2106	PASS
75	95	30	66	46.7	5795	PASS
95	95	100	100	100.0	12403	PASS
96	95	5	9	6.7	828	PASS
173	174	0.00	2	1.3	145	PASS
174	95	50	120	89.3	11076	PASS
175	174	4	9	6.5	721	PASS
176	174	95	101	97.2	10764	PASS
177	176	5	9	6.7	719	PASS

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA



Date: 18-Mar-16

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
Work Order: C1603001
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-030216	SampleType:	MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10725						
Client ID:	ZZZZZ	Batch ID:	R10725	TestNo: TO-15		Analysis Date: 3/2/2016	SeqNo: 126216						
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		< 0.15		0.15									
Chloroethane		< 0.15		0.15									
cis-1,2-Dichloroethene		< 0.15		0.15									
trans-1,2-Dichloroethene		< 0.15		0.15									
Trichloroethene		< 0.040		0.040									
Vinyl chloride		< 0.040		0.040									

Qualifiers:

	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Data File : C:\HPCHEM\1\DATA\AN030205.D
Acq On : 2 Mar 2016 12:06 pm
Sample : AMB1UG-030216
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 04 14:04:59 2016

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 09:50:16 2016
Response via : Initial Calibration
DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.87	128	30128	1.00	ppb	0.05
35) 1,4-difluorobenzene	12.11	114	98414	1.00	ppb	0.02
50) Chlorobenzene-d5	16.60	117	84037	1.00	ppb	0.01

System Monitoring Compounds

66) Bromofluorobenzene	18.17	95	41634m	0.73	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	73.00%

Target Compounds

Qvalue

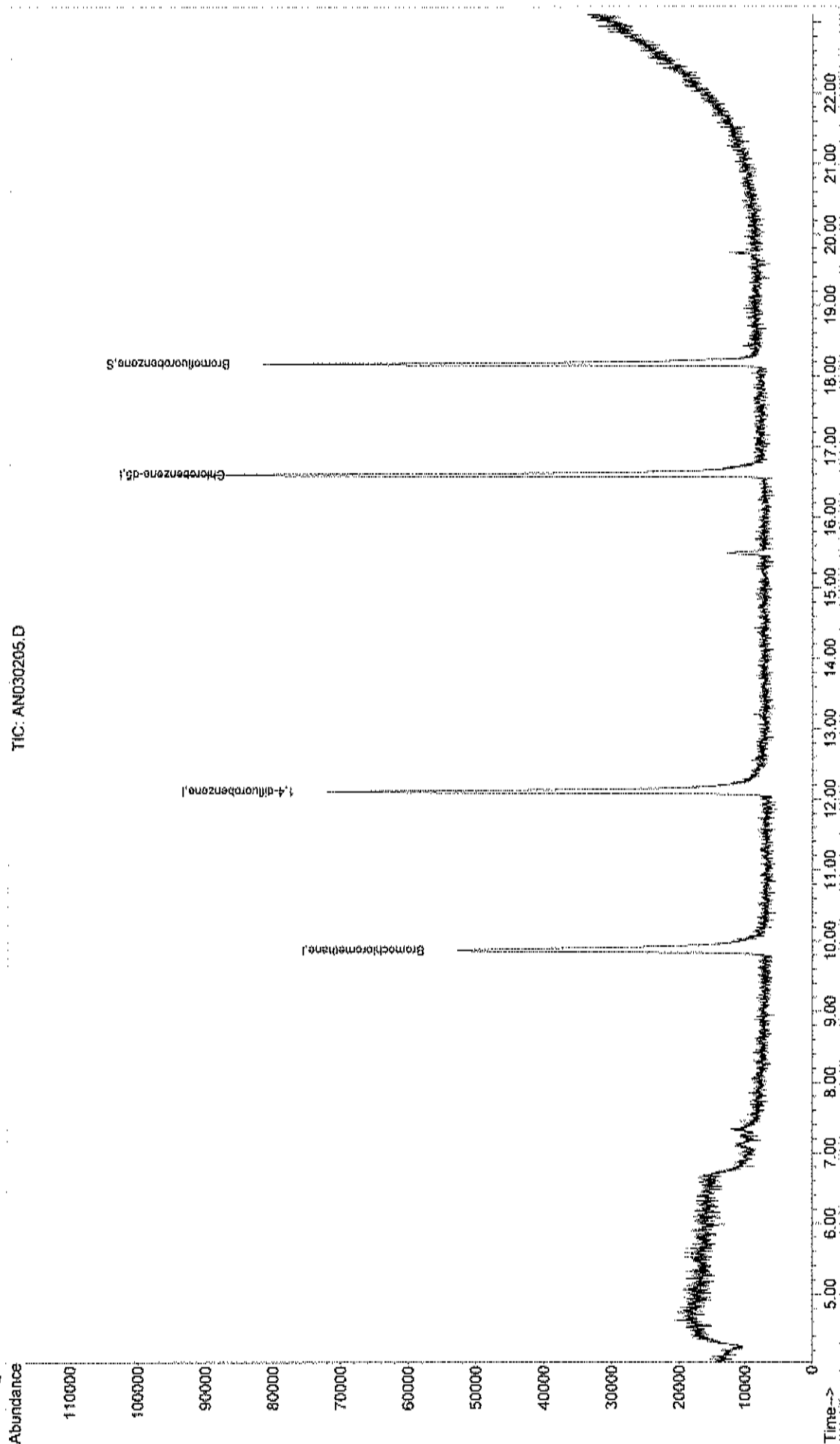
Data File : C:\HPCHEM\1\DATA\AN030205.D
Acq On : 2 Mar 2016 12:06 pm
Sample : AMB1UG-030216
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 4 15:05 2016

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 18 09:18:17 2016
Response via : Initial Calibration

TIC: AN030205.D



Date: 18-Mar-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
 Work Order: C1603001
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-030216	SampleType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10725					
Client ID:	ZZZZZ	Batch ID: R10725	TestNo: TO-15		Analysis Date: 3/2/2016	SeqNo: 126217					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.280	0.15	1	0	128	70	130				
Chloroethane	1.070	0.15	1	0	107	70	130				
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130				
trans-1,2-Dichloroethene	0.8700	0.15	1	0	87.0	70	130				
Trichloroethene	1.260	0.040	1	0	126	70	130				
Vinyl chloride	1.060	0.040	1	0	106	70	130				

Sample ID	ALCS1UGD-030216	SampleType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10725					
Client ID:	ZZZZZ	Batch ID: R10725	TestNo: TO-15		Analysis Date: 3/3/2016	SeqNo: 126218					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.280	0.15	1	0	128	70	130	1.28	0	30	
Chloroethane	1.120	0.15	1	0	112	70	130	1.07	4.57	30	
cis-1,2-Dichloroethene	0.7700	0.15	1	0	77.0	70	130	0.72	6.71	30	
trans-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70	130	0.87	2.33	30	
Trichloroethene	1.220	0.040	1	0	122	70	130	1.26	3.23	30	
Vinyl chloride	1.020	0.040	1	0	102	70	130	1.06	3.85	30	

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\AN030204.D

Vial: 4

Acq On : 2 Mar 2016 11:30 am

Operator: RJP

Sample : ALCS1UG-030216

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 02 12:18:31 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.83	128	35162m	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.09	114	97637	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	71558	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	55904	1.15	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	115.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	35727	0.82	ppb	# 100
3) Freon 12	4.20	85	165593	1.08	ppb	99
4) Chloromethane	4.41	50	47668	1.03	ppb	93
5) Freon 114	4.41	85	154246	1.21	ppb	92
6) Vinyl Chloride	4.60	62	38921	1.06	ppb	90
7) Butane	4.70	43	44710	1.00	ppb	97
8) 1,3-butadiene	4.71	39	31093	1.00	ppb	97
9) Bromomethane	5.05	94	51216	1.22	ppb	91
10) Chloroethane	5.22	64	15692	1.07	ppb	95
11) Ethanol	5.41	45	9388m	1.04	ppb	
12) Acrolein	5.99	56	7994	0.73	ppb	# 11
13) Vinyl Bromide	5.57	106	49012	1.16	ppb	94
14) Freon 11	5.83	101	185351	1.21	ppb	98
15) Acetone	6.09	58	14125	0.95	ppb	# 62
16) Pentane	6.09	42	26881	0.91	ppb	97
17) Isopropyl alcohol	6.20	45	35301	0.82	ppb	# 46
18) 1,1-dichloroethene	6.59	96	52229	1.28	ppb	89
19) Freon 113	6.78	101	139730	1.44	ppb	91
20) t-Butyl alcohol	6.95	59	61937	0.80	ppb	# 76
21) Methylene chloride	7.08	84	49334	1.07	ppb	92
22) Allyl chloride	7.05	41	58575	1.12	ppb	91
23) Carbon disulfide	7.23	76	138849	0.96	ppb	97
24) trans-1,2-dichloroethene	8.01	61	62402m	0.87	ppb	
25) methyl tert-butyl ether	8.07	73	92758m	0.71	ppb	
26) 1,1-dichloroethane	8.43	63	89290	0.91	ppb	99
27) Vinyl acetate	8.47	43	67694m	0.58	ppb	
28) Methyl Ethyl Ketone	8.98	72	18000	0.79	ppb	# 100
29) cis-1,2-dichloroethene	9.38	61	46538m	0.72	ppb	
30) Hexane	8.93	57	54250m	0.71	ppb	
31) Ethyl acetate	9.57	43	85500m	0.79	ppb	
32) Chloroform	9.98	83	108320	0.95	ppb	99
33) Tetrahydrofuran	10.21	42	39338m	0.74	ppb	
34) 1,2-dichloroethane	11.11	62	49368	0.73	ppb	89
36) 1,1,1-trichloroethane	10.78	97	86606m	1.28	ppb	
37) Cyclohexane	11.47	56	45406	0.98	ppb	90
38) Carbon tetrachloride	11.42	117	112051	1.62	ppb	98
39) Benzene	11.39	78	106413	1.23	ppb	93
40) Methyl methacrylate	12.95	41	32857	0.95	ppb	# 78
41) 1,4-dioxane	13.05	88	17098	0.98	ppb	93
42) 2,2,4-trimethylpentane	12.22	57	180460	1.13	ppb	94
43) Heptane	12.56	43	42609	0.88	ppb	92
44) Trichloroethene	12.70	130	50349	1.26	ppb	98
45) 1,2-dichloropropane	12.82	63	37902m	1.12	ppb	

(#)= qualifier out of range (m) = manual integration

AN030204.D A204_1UG.M

Fri Mar 18 09:21:41 2016

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AN030204.D

Vial: 4

Acq On : 2 Mar 2016 11:30 am

Operator: RJP

Sample : ALCS1UG-030216

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 02 12:18:31 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	98001	1.57	ppb	100
47) cis-1,3-dichloropropene	13.93	75	52977	1.16	ppb	97
48) trans-1,3-dichloropropene	14.66	75	43514	1.04	ppb	93
49) 1,1,2-trichloroethane	14.95	97	44110m	1.25	ppb	
51) Toluene	14.71	92	46438	0.97	ppb	94
52) Methyl Isobutyl Ketone	13.87	43	52783	0.79	ppb	96
53) Dibromochloromethane	15.63	129	70090m	1.36	ppb	
54) Methyl Butyl Ketone	15.15	43	38550m	0.59	ppb	
55) 1,2-dibromoethane	15.88	107	69736	1.24	ppb	97
56) Tetrachloroethylene	15.68	164	42507	1.26	ppb	99
57) Chlorobenzene	16.63	112	73372	1.07	ppb	87
58) 1,1,1,2-tetrachloroethane	16.73	131	52930	1.45	ppb	92
59) Ethylbenzene	16.87	91	94767	0.90	ppb	97
60) m&p-xylene	17.07	91	163117	2.02	ppb	94
61) Nonane	17.41	43	58140	0.89	ppb	96
62) Styrene	17.49	104	69407	1.12	ppb	84
63) Bromoform	17.61	173	81706	1.68	ppb	98
64) o-xylene	17.51	91	117778	1.27	ppb	93
65) Cumene	18.04	105	106444	0.93	ppb	97
67) 1,1,2,2-tetrachloroethane	17.95	83	121187	1.46	ppb	98
68) Propylbenzene	18.56	91	122229m	0.90	ppb	
69) 2-Chlorotoluene	18.60	91	104460m	1.13	ppb	
70) 4-ethyltoluene	18.72	105	108009m	1.03	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	116113m	1.14	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	82828	0.94	ppb	94
73) 1,3-dichlorobenzene	19.51	146	76373	1.20	ppb	96
74) benzyl chloride	19.59	91	73891	1.23	ppb	98
75) 1,4-dichlorobenzene	19.65	146	70484	1.15	ppb	95
76) 1,2,3-trimethylbenzene	19.68	105	97703	1.01	ppb	95
77) 1,2-dichlorobenzene	19.96	146	83241	1.28	ppb	95
78) 1,2,4-trichlorobenzene	21.81	180	32900m	0.93	ppb	
79) Naphthalene	22.00	128	69352m	0.75	ppb	
80) Hexachloro-1,3-butadiene	22.08	225	86086	1.17	ppb	96

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN030204.D A204_1UG.M Fri Mar 18 09:21:42 2016 MSD1

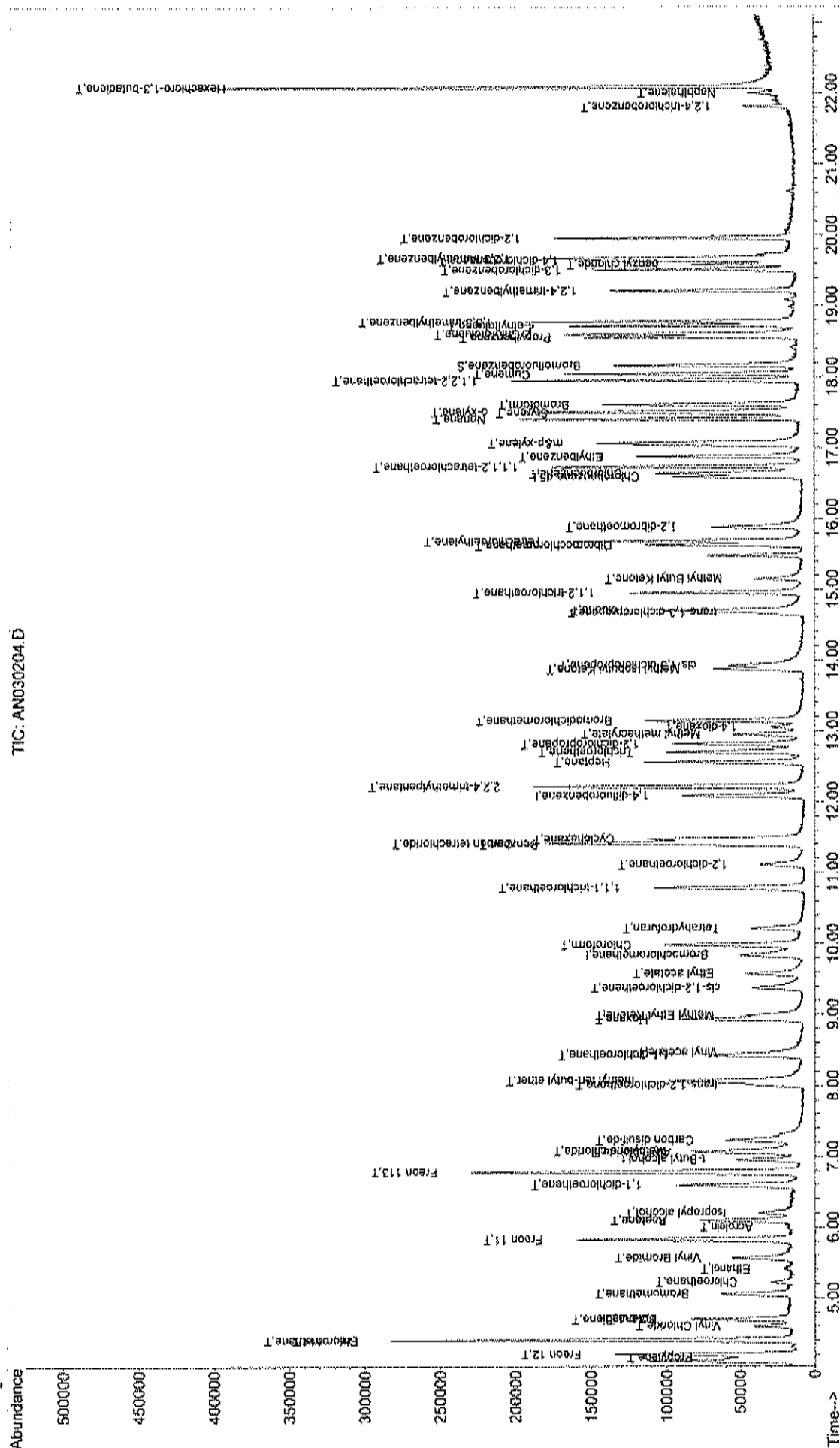
Quantitation Report {QT Reviewed}

Data File : C:\HPCHEM\1\DATA\AN030204.D
Acq On : 2 Mar 2016 11:30 am
Sample : ALCSiUG-030216
Misc : A204_LUG
MS Integration Params: RTEINT.P
Quant Time: Mar 4 15:04 2016

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A204 1UG.RES

```
Method      : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 18 09:18:17 2016
Response via : Initial Calibration
```

TIC: AN030204.D



Data File : C:\HPCHEM\1\DATA\AN030224.D

Vial: 24

Acq On : 3 Mar 2016 12:18 am

Operator: RJP

Sample : ALCS1UGD-030216

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 03 11:56:55 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 03 11:24:34 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	32541	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.07	114	103964	1.00	ppb	0.00
50) Chlorobenzene-d5	16.57	117	83787	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	62140	1.09	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	109.00%

Target Compounds

						Qvalue
2) Propylene	4.15	41	34628	0.86	ppb	# 100
3) Freon 12	4.19	85	164391	1.16	ppb	100
4) Chloromethane	4.39	50	39242	0.92	ppb	94
5) Freon 114	4.39	85	139261	1.18	ppb	87
6) Vinyl Chloride	4.59	62	34658	1.02	ppb	92
7) Butane	4.69	43	39386	0.95	ppb	95
8) 1,3-butadiene	4.69	39	28686	0.99	ppb	87
9) Bromomethane	5.04	94	50587	1.30	ppb	93
10) Chloroethane	5.21	64	15302	1.12	ppb	98
11) Ethanol	5.37	45	8643	1.04	ppb	# 78
12) Acrolein	5.96	56	9170	0.91	ppb	# 5
13) Vinyl Bromide	5.55	106	50035	1.28	ppb	98
14) Freon 11	5.81	101	180419	1.27	ppb	98
15) Acetone	6.05	58	14667	1.07	ppb	# 57
16) Pentane	6.08	42	25548	0.93	ppb	96
17) Isopropyl alcohol	6.16	45	36534	0.92	ppb	# 46
18) 1,1-dichloroethene	6.57	96	48365	1.28	ppb	99
19) Freon 113	6.76	101	135734	1.51	ppb	91
20) t-Butyl alcohol	6.90	59	67393	0.94	ppb	# 69
21) Methylene chloride	7.05	84	51068	1.19	ppb	90
22) Allyl chloride	7.02	41	37400	0.77	ppb	82
23) Carbon disulfide	7.20	76	141026	1.06	ppb	98
24) trans-1,2-dichloroethene	7.99	61	56298	0.85	ppb	89
25) methyl tert-butyl ether	8.03	73	90953	0.75	ppb	82
26) 1,1-dichloroethane	8.41	63	91261	1.01	ppb	99
27) Vinyl acetate	8.43	43	56562	0.53	ppb	97
28) Methyl Ethyl Ketone	8.96	72	21228	1.01	ppb	# 100
29) cis-1,2-dichloroethene	9.35	61	46095	0.77	ppb	89
30) Hexane	8.92	57	49604	0.70	ppb	91
31) Ethyl acetate	9.53	43	76678	0.77	ppb	91
32) Chloroform	9.96	83	107048	1.02	ppb	98
33) Tetrahydrofuran	10.18	42	30509	0.62	ppb	96
34) 1,2-dichloroethane	11.10	62	53952	0.86	ppb	89
36) 1,1,1-trichloroethane	10.76	97	93895	1.30	ppb	100
37) Cyclohexane	11.46	56	44958	0.91	ppb	93
38) Carbon tetrachloride	11.40	117	110610	1.50	ppb	100
39) Benzene	11.38	78	107580	1.17	ppb	96
40) Methyl methacrylate	12.93	41	31893	0.87	ppb	# 73
41) 1,4-dioxane	13.02	88	21473	1.15	ppb	93
42) 2,2,4-trimethylpentane	12.20	57	172286	1.01	ppb	94
43) Heptane	12.54	43	39530	0.76	ppb	86
44) Trichloroethene	12.69	130	51819	1.22	ppb	98
45) 1,2-dichloropropane	12.80	63	44371	1.23	ppb	98

(#)= qualifier out of range (m) = manual integration

AN030224.D A204_1UG.M

Fri Mar 18 09:21:48 2016

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AN030224.D

Vial: 24

Acq On : 3 Mar 2016 12:18 am

Operator: RJP

Sample : ALCS1UGD-030216

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 03 11:56:55 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 03 11:24:34 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.13	83	98622	1.49	ppb	99
47) cis-1,3-dichloropropene	13.91	75	56784	1.16	ppb	98
48) trans-1,3-dichloropropene	14.65	75	45946	1.03	ppb	93
49) 1,1,2-trichloroethane	14.94	97	52509	1.39	ppb	98
51) Toluene	14.69	92	47630	0.85	ppb	94
52) Methyl Isobutyl Ketone	13.85	43	84370	1.07	ppb	96
53) Dibromochloromethane	15.62	129	124735	2.06	ppb	# 63
54) Methyl Butyl Ketone	15.13	43	78524	1.02	ppb	94
55) 1,2-dibromoethane	15.86	107	74304	1.13	ppb	97
56) Tetrachloroethylene	15.67	164	44958	1.14	ppb	97
57) Chlorobenzene	16.62	112	82347	1.03	ppb	87
58) 1,1,1,2-tetrachloroethane	16.72	131	60574	1.42	ppb	92
59) Ethylbenzene	16.86	91	110016	0.89	ppb	96
60) m&p-xylene	17.05	91	195724	2.07	ppb	95
61) Nonane	17.40	43	66419	0.87	ppb	97
62) Styrene	17.47	104	77867	1.07	ppb	84
63) Bromoform	17.60	173	88233	1.55	ppb	100
64) o-xylene	17.50	91	140829	1.29	ppb	91
65) Cumene	18.03	105	120815	0.90	ppb	96
67) 1,1,2,2-tetrachloroethane	17.93	83	131050	1.35	ppb	98
68) Propylbenzene	18.55	91	273735	1.73	ppb	# 78
69) 2-Chlorotoluene	18.55	91	290363	2.68	ppb	73
70) 4-ethyltoluene	18.77	105	254758	2.08	ppb	# 100
71) 1,3,5-trimethylbenzene	18.77	105	254863	2.13	ppb	# 100
72) 1,2,4-trimethylbenzene	19.21	105	90676	0.88	ppb	93
73) 1,3-dichlorobenzene	19.50	146	81295	1.09	ppb	# 73
74) benzyl chloride	19.57	91	78330	1.12	ppb	98
75) 1,4-dichlorobenzene	19.63	146	73744	1.03	ppb	96
76) 1,2,3-trimethylbenzene	19.67	105	109663	0.97	ppb	95
77) 1,2-dichlorobenzene	19.95	146	90411	1.19	ppb	96
78) 1,2,4-trichlorobenzene	21.80	180	14596	0.35	ppb	93
79) Naphthalene	22.00	128	32399	0.30	ppb	# 84
80) Hexachloro-1,3-butadiene	22.08	225	80689	0.94	ppb	97

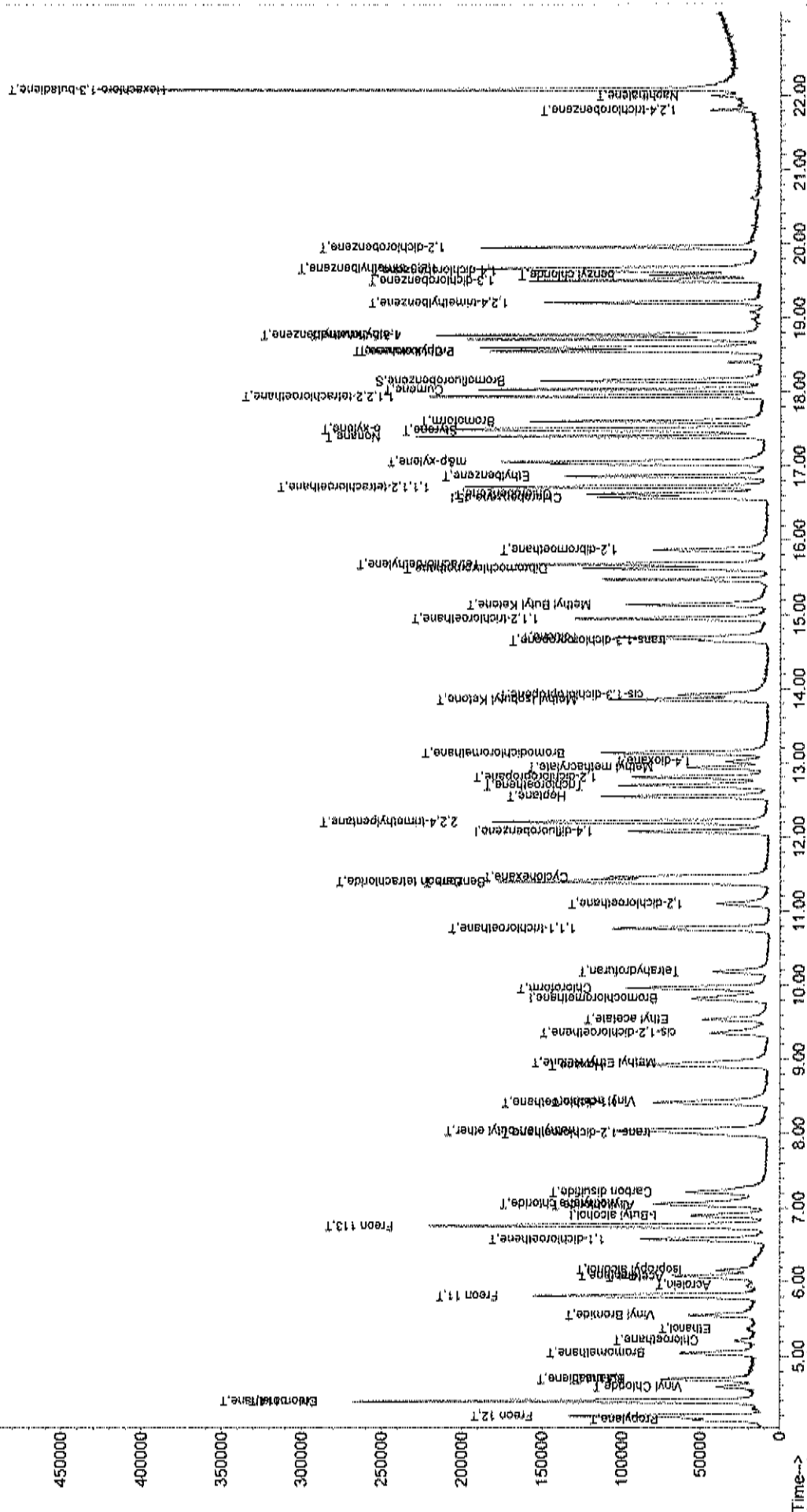
 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN030224.D A204_1UG.M Fri Mar 18 09:21:49 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN030224.D
Acq On : 3 Mar 2016 12:18 am
Sample : ALCS1UGD-030216
Misc : A204_1UG
MMS Integration Params: RTEINT.P
Quant Time: Mar 3 12:56 2016

```
Method      : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 18 09:18:17 2016
Response via : Initial Calibration
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TIC: AN030224.D



AN030224.D A204 1UG.M Fri Mar 18 09:21:50 2016

MSDI

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Injection Log

Instrument # 1
 Internal Standard Stock # A1286
 Standard Stock # A1287
 LCS Stock # A1288
 Method Ref: EPA TO-15 / Jan. 1999

Directory: C:\HPCHEM\1\DATA

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
	15	An030101.d	1.	BFB1UG	A204_1UG	1 Mar 2016 08:52
	16	An030102.d	1.	A1UG	A204_1UG	1 Mar 2016 09:34
	17	An030103.d	1.	A1UG_1.0	A204_1UG	1 Mar 2016 10:13
	18	An030104.d	1.	ALCS1UG-030116	A204_1UG	1 Mar 2016 10:52
	1	An030105.d	1.	AMB1UG-030116	A204_1UG	1 Mar 2016 13:24
	2	An030106.d	1.	C1602076-001A 10X	A204_1UG	1 Mar 2016 14:00
	3	An030107.d	1.	C1602076-006A 10X	A204_1UG	1 Mar 2016 14:37
	4	An030108.d	1.	C1602076-006A 40X	A204_1UG	1 Mar 2016 15:13
	5	An030109.d	1.	C1602076-007A 10X	A204_1UG	1 Mar 2016 15:50
0	6	An030110.d	1.	C1602076-007A 40X	A204_1UG	1 Mar 2016 16:26
1	7	An030111.d	1.	C1602076-009A 10X	A204_1UG	1 Mar 2016 17:04
2	8	An030112.d	1.	C1602076-009A 40X	A204_1UG	1 Mar 2016 17:40
3	9	An030113.d	1.	C1602076-011A 9X	A204_1UG	1 Mar 2016 18:19
4	10	An030114.d	1.	C1602076-011A 90X	A204_1UG	1 Mar 2016 18:56
5	11	An030115.d	1.	C1602076-015A 10X	A204_1UG	1 Mar 2016 19:32
3	12	An030116.d	1.	C1602076-017A 10X	A204_1UG	1 Mar 2016 20:09
7	13	An030117.d	1.	C1602076-021A 10X	A204_1UG	1 Mar 2016 20:45
9	14	An030118.d	1.	C1602076-021A 40X	A204_1UG	1 Mar 2016 21:21
9	15	An030119.d	1.	C1602076-023A 10X	A204_1UG	1 Mar 2016 21:58
0	16	An030120.d	1.	C1602076-023A 40X	A204_1UG	1 Mar 2016 22:34
1	17	An030121.d	1.	C1602076-024A 10X	A204_1UG	1 Mar 2016 23:10
2	18	An030122.d	1.	C1602076-024A 40X	A204_1UG	1 Mar 2016 23:46
3	19	An030123.d	1.	ALCS1UGD-030116	A204_1UG	2 Mar 2016 00:25
4	20	An030124.d	1.	C1602076-002A 10X	A204_1UG	2 Mar 2016 01:02
5	21	An030125.d	1.	C1602076-002A 20X	A204_1UG	2 Mar 2016 01:38
3	22	An030126.d	1.	C1602076-003A 9X	A204_1UG	2 Mar 2016 02:17
7	23	An030127.d	1.	C1602076-003A 90X	A204_1UG	2 Mar 2016 02:53
3	23	An030128.d	1.	C1602076-004A 9X	A204_1UG	2 Mar 2016 03:32
9	24	An030129.d	1.	C1602076-004A 90X	A204_1UG	2 Mar 2016 04:09
0	25	An030130.d	1.	C1602076-005A 9X	A204_1UG	2 Mar 2016 04:47
1	26	An030131.d	1.	C1602076-005A 90X	A204_1UG	2 Mar 2016 05:24
2	27	An030132.d	1.	C1602076-008A 10X	A204_1UG	2 Mar 2016 06:00
3	28	An030133.d	1.	C1602076-008A 40X	A204_1UG	2 Mar 2016 06:38
4	29	An030134.d	1.	C1602076-010A 10X	A204_1UG	2 Mar 2016 07:14
5	30	An030135.d	1.	C1602076-010A 40X	A204_1UG	2 Mar 2016 07:50
3	31	An030136.d	1.	C1602076-012A 10X	A204_1UG	2 Mar 2016 08:27
7		An030137.d	1.	No MS or GC data present		
3	1	An030201.d	1.	BFB1UG	A204_1UG	2 Mar 2016 09:08
9	2	An030202.d	1.	A1UG	A204_1UG	2 Mar 2016 10:06
0	3	An030203.d	1.	A1UG_1.0	A204_1UG	2 Mar 2016 10:45
1	4	An030204.d	1.	ALCS1UG-030216	A204_1UG	2 Mar 2016 11:30
2	5	An030205.d	1.	AMB1UG-030216	A204_1UG	2 Mar 2016 12:06
3	6	An030206.d	1.	C1602076-012A 40X	A204_1UG	2 Mar 2016 12:43
4	7	An030207.d	1.	C1602076	A204_1UG -004A 270X	2 Mar 2016 13:19
5	8	An030208.d	1.	C1602076	A204_1UG -005A 270X	2 Mar 2016 13:56
6	9	An030209.d	1.	C1602076-004A 540X	A204_1UG	2 Mar 2016 15:01
7	10	An030210.d	1.	C1602076-005A 540X	A204_1UG	2 Mar 2016 15:38
8	11	An030211.d	1.	C1602076-013A 10X	A204_1UG	2 Mar 2016 16:16
9	12	An030212.d	1.	C1602076-013A 40X	A204_1UG	2 Mar 2016 16:53
0	13	An030213.d	1.	C1602076-014A 9X	A204_1UG	2 Mar 2016 17:32
1	14	An030214.d	1.	C1602076-014A 90X	A204_1UG	2 Mar 2016 18:09
2	15	An030215.d	1.	C1602076	A204_1UG -014A 180X	2 Mar 2016 18:45
3	16	An030216.d	1.	C1602076-018A 10X	A204_1UG	2 Mar 2016 19:22
4	17	An030217.d	1.	C1602076-018A 40X	A204_1UG	2 Mar 2016 19:58
5	18	An030218.d	1.	C1602076-019A 10X	A204_1UG	2 Mar 2016 20:34

Injection Log

Instrument # 1
 Internal Standard Stock # A1286
 Standard Stock # A1287
 LCS Stock # A1288
 Method Ref: EPA TO-15 / Jan. 1999

Directory: C:\HPCHEM\1\DATA

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
6	19	An030219.d	1.	C1602076-019A 40X	A204_1UG	2 Mar 2016 21:11
7	20	An030220.d	1.	C1602076-020A 10X	A204_1UG	2 Mar 2016 21:47
8	21	An030221.d	1.	C1602076-020A 40X	A204_1UG	2 Mar 2016 22:24
9	22	An030222.d	1.	C1602076-022A 10X	A204_1UG	2 Mar 2016 23:02
10	23	An030223.d	1.	C1602076-022A 40X	A204_1UG	2 Mar 2016 23:39
11	24	An030224.d	1.	ALCS1UGD-030216	A204_1UG	3 Mar 2016 00:18
12	25	An030225.d	1.	C1602077-001A	A204_1UG	3 Mar 2016 00:57
13	26	An030226.d	1.	C1602077	A204_1UG -002A 10X	3 Mar 2016 01:34
14	27	An030227.d	1.	C1602077-003A 10X	A204_1UG	3 Mar 2016 02:10
15	28	An030228.d	1.	C1603006-001A 10X	A204_1UG	3 Mar 2016 02:47
16	29	An030229.d	1.	C1603006-002A	A204_1UG	3 Mar 2016 03:26
17	30	An030230.d	1.	C1603006-003A 10X	A204_1UG	3 Mar 2016 04:02
18	31	An030231.d	1.	C1603001-001A	A204_1UG	3 Mar 2016 04:41
19	32	An030232.d	1.	C1603001-001A 10X	A204_1UG	3 Mar 2016 05:18
20	32	An030233.d	1.	C1603001-002A	A204_1UG	3 Mar 2016 05:57
21	33	An030234.d	1.	C1603001-002A 10X	A204_1UG	3 Mar 2016 06:34
22	35	An030235.d	1.	C1602077-002A	A204_1UG	3 Mar 2016 07:13
23	36	An030236.d	1.	C1602077-003A	A204_1UG	3 Mar 2016 07:52
24	37	An030237.d	1.	C1603006-001A	A204_1UG	3 Mar 2016 08:31
25	38	An030238.d	1.	C1603006-003A	A204_1UG	3 Mar 2016 09:10
26		An030239.d	1.	No MS or GC data present		
27	2	An030301.d	1.	BFB1UG	A204_1UG	3 Mar 2016 11:59
28	3	An030302.d	1.	A1UG_1.0	A204_1UG	3 Mar 2016 12:50
29	4	An030303.d	1.	ALCS1UG-030316	A204_1UG	3 Mar 2016 13:39
30	5	An030304.d	1.	AMB1UG-030316	A204_1UG	3 Mar 2016 14:15
31	6	An030305.d	1.	C1602077	A204_1UG -002A 270X	3 Mar 2016 14:57
32	7	An030306.d	1.	C1603006-002A 10X	A204_1UG	3 Mar 2016 15:34
33	8	An030307.d	1.	C1602073-001A 40X	A204_1UG	3 Mar 2016 16:17
34	9	An030308.d	1.	C1602073-002A 540X	A204_1UG	3 Mar 2016 16:53
35	10	An030309.d	1.	C1602073-003A 40X	A204_1UG	3 Mar 2016 17:30
36		An030310.d	1.	No MS or GC data present		
37	11	An030311.d	1.	BFB1UG	A303_1UG	3 Mar 2016 20:41
38	12	An030312.d	1.	BFB1UG	A303_1UG	3 Mar 2016 22:09
39	1	An030313.d	1.	A1UG	A303_1UG	3 Mar 2016 22:53
40	2	An030314.d	1.	A1UG	A303_1UG	3 Mar 2016 23:31
41	3	An030315.d	1.	A1UG_2.0	A303_1UG	4 Mar 2016 00:12
42	4	An030316.d	1.	A1UG_1.50	A303_1UG	4 Mar 2016 00:52
43	5	An030317.d	1.	A1UG_1.25	A303_1UG	4 Mar 2016 01:32
44	6	An030318.d	1.	A1UG_1.0	A303_1UG	4 Mar 2016 02:10
45	7	An030319.d	1.	A1UG_0.75	A303_1UG	4 Mar 2016 02:48
46	8	An030320.d	1.	A1UG_0.50	A303_1UG	4 Mar 2016 03:26
47	9	An030321.d	1.	A1UG_0.30	A303_1UG	4 Mar 2016 04:02
48	10	An030322.d	1.	A1UG_0.15	A303_1UG	4 Mar 2016 04:39
49	11	An030323.d	1.	A1UG_0.10	A303_1UG	4 Mar 2016 05:15
50	12	An030324.d	1.	A1UG_0.04	A303_1UG	4 Mar 2016 08:24
51	13	An030325.d	1.		A303_1UG	4 Mar 2016 06:28
52	14	An030326.d	1.		A303_1UG	4 Mar 2016 07:04
53	12	An030401.d	1.	BFB1UG	A303_1UG	4 Mar 2016 09:28
54	13	An030402.d	1.	A1UG	A303_1UG	4 Mar 2016 10:07
55	14	An030403.d	1.	A1UG_1.0	A303_1UG	4 Mar 2016 10:59
56	15	An030404.d	1.	ALCS1UG-030416	A303_1UG	4 Mar 2016 11:38
57	16	An030405.d	1.	AMB1UG-030416	A303_1UG	4 Mar 2016 12:15
58	17	An030406.d	1.	C1603010-001A 10X	A303_1UG	4 Mar 2016 13:03
59	18	An030407.d	1.	C1603010-001A	A303_1UG	4 Mar 2016 13:42
60	19	An030408.d	1.	C1603010-001A 90X	A303_1UG	4 Mar 2016 14:19

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-1155	12/17/15	12/24/15	TO15 106 IS	A1150	1 ppm 50ppm	0.1	45	1 ppm	MD	
A-1160			STD	A1151						
A-1161			LCS	A1152						
A-1162	12/24/15	12/31/15	TO15 IS	A0547	12200 1 ppm	1.5	30	50ppm	MD	
A-1163			STD	A0534	50ppm					
A-1164			LCS	A0548	11.5ppm					
A-1165			4PCH	9515	50ppm					
A-1166			4PCH	A1165	1 ppm 50ppm	3.0	45 30	5		
A-1167			FORN50	A0574	11.5ppm	0.20	45	50		
A-1168			6110X	5584	500ppm	3.0	30			
A-1169			GULF	A0270	1 ppm	1.5				
A-1170			H2S	A0269	16ppm			500		
A-1171			TO15 106 IS	A1162	50ppm	0.9	45			
A-1172			STD	A1163						
A-1173			LCS	A1164						
A-1174	12/19/15	12/18/16	TO15 IS	FF-11200	LINDE		2200 psia	1 ppm	MD	
A-1175	1/4/16	1/11/16	TO15 IS	A1174	1 ppm	1.5	30	50ppm	MD	
A-1176			STD	A0534						
A-1177			LCS	A0548						
A-1178			4PCH	9515						
A-1179			4PCH	A1178	50ppm	3.0		5		

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GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by		
A-1201	1/15/16	1/23/16	TO15 APH	A1188	1ppm	1.5	30	50	m			
A-1202	↓	↓	TO15106 APH	A1201	50ppm	0.9	45	1	↓			
A-1203	1/15/16	1/15/17	TO15 MIX	-	1ppm	LINDE TO15 MIX		1ppm	m			
A-1204	1/18/16	1/18/17	LCS TO15	11	A0534 STD IS NOW LCS						2.2	
A-1205	1/18/16	1/25/16	TO15 IS	A1174	1ppm	1.5	30	50ppb	m			
A-1206	↓	↓	LCS	A1204	↓	↓	↓	↓	↓			
A-1207	↓	↓	STD	A1203	↓	↓	↓	↓	↓			
A-1208	↓	↓	TO15 FORM	A0974	11.5ppm	0.20	45	↓	↓			
A-1209	↓	↓	3ILOX	A0974 A0974	11.5ppm / 50ppm	3.0	30	↓	↓			
A-1210	↓	↓	GULF	A0276	1ppm	1.5	↓	500ppm	↓			
A-1211	↓	↓	H2S	A0265	10ppm	↓	↓	50ppm	↓			
A-1212	↓	↓	TO15 4PCH	9519	1ppm	1.5	30	50ppm	↓			
A-1213	↓	↓	↓ 4PCH5	A1212	50ppm	3.0	↓	5ppm	↓			
A-1214	↓	↓	TO15106 IS	A1205	↓	0.9	45	1ppm	↓			
A-1215	↓	↓	↓ STD	A1207	↓	↓	↓	↓	↓			
A-1216	↓	↓	↓ LCS	A1206	↓	↓	↓	↓	↓			
A-1217	1/25/16	2/1/16	TO15 IS	A1174	1ppm	1.5	30	50ppb	WTD			
A-1218	↓	↓	STD	A1203	↓	↓	↓	↓	↓			
A-1219	↓	↓	LCS	A1204	↓	↓	↓	↓	↓			
A-1220	↓	↓	4PCH	9519	↓	↓	↓	↓	↓			
A-1221	↓	↓	↓ 4PCH5	A1220	50ppm	3.0	30	5	↓			

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-1264	2/15/16	2/22/16	TO15 146 LCS	A1255	50 ppb	0.9	45	1	WD	
A-1265	2/22/16	2/29/16	TO15 IS	A1174	1 ppm	1.5	30	50	WD	
A-1266			STD	A1203						
A-1267			LCS	A1204						
A-1268			4PC4	9519						
A-1269			4PC4S	A1268	50 ppb	3.0	30	5		
A-1270			FORM	A0974	115 ppm	0.20	45	50		
A-1271			SIL4X	A1088 A1089	500 ppb	3.0	30	50		
A-1272			SOLF	A0270	1 ppm	1.5	30	50		
A-1273			H2S	A0269	10 ppm	1.5	30	500		
A-1274			TO15 146 IS	A1265	50 ppb	0.9	45	1		
A-1275			STD	A1266						
A-1276			LCS	A1267						
A-1277	2/29/16	3/7/16	TO15	A1174	1 ppm	1.5	30	50	WD	
A-1278			STD	A1203						
A-1279			LCS	A1204						
A-1280			4PC4	9519						
A-1281			4PC4S	A1280	50 ppb	3.0	30	5		
A-1282			FORM	A0974	115 ppm	0.20	45	50		
A-1283			SIL4X	A1088 A1089	500 ppb	3.0	30	50		
A-1284			SOLF	A0270	1 ppm	1.5	30	50		

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Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psig)	Final Conc (ppb)	Prep by	Chkd by
A-1285	2/24/16	3/7/16	TO15 H2S	A0269	10 ppm	1.5	30	500	WD	
A-1286			TO15 146 IS	A1277	50 ppb	0.9	45	1		
A-1287			↓	A1278	↓	↓	↓	↓	↓	
A-1288			↓	A1279	↓	↓	↓	↓	↓	
A-1289	3/1/16	3/1/17	TO15 IS	FF-4969	LINDE		2100 psig	1 ppm	WD	
A-1290	3/7/16	3/14/16	TO15 IS	A1289	1 ppm	1.5	30	50	WD	
A-1291			↓	A1203	↓	↓	↓	↓	↓	
A-1292			LCS	A1204	↓	↓	↓	↓	↓	
A-1293			4PCH	9519	↓	↓	↓	↓	↓	
A-1294			4PCH	A1293	50 ppb	3.0	30	5		
A-1295			FORM	A0974	11.5 ppm	0.20	45	50		
A-1296			SILOX	A1088 A1089	500 ppb	3.0	30	50		
A-1297			SO4	A0270	1 ppm	1.5	30	50		
A-1298			↓	A0269	10 ppm	1.5	30	500		
A-1299			TO15 146 IS	A1290	50 ppb	0.9	45	1		
A-1300			↓	A1291	↓	↓	↓	↓	↓	
A-1301			↓	A1292	↓	↓	↓	↓	↓	
A-1302	3/14/16	3/21/16	TO15 IS	A1289	1 ppm	1.5	30	50	WD	
A-1303			↓	A1203	↓	↓	↓	↓	↓	
A-1304			LCS	A1204	↓	↓	↓	↓	↓	
A-1305			↓	9519	↓	↓	↓	↓	↓	

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

Instrument: Entech 3100

[illegible]

Cleaned by:

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Form C151

Page # 101

Cleaned by: 25A

Form C151

Page # 139

Data File : C:\HPCHEM\1\DATA2\AN021621.D

Vial: 6

Acq On : 16 Feb 2016 10:37 pm

Operator: RJP

Sample : WAC021616F

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 17 07:09:37 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.84	128	28562	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.08	114	79540	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	73870	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	35078m	0.70	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	70.00%

Target Compounds

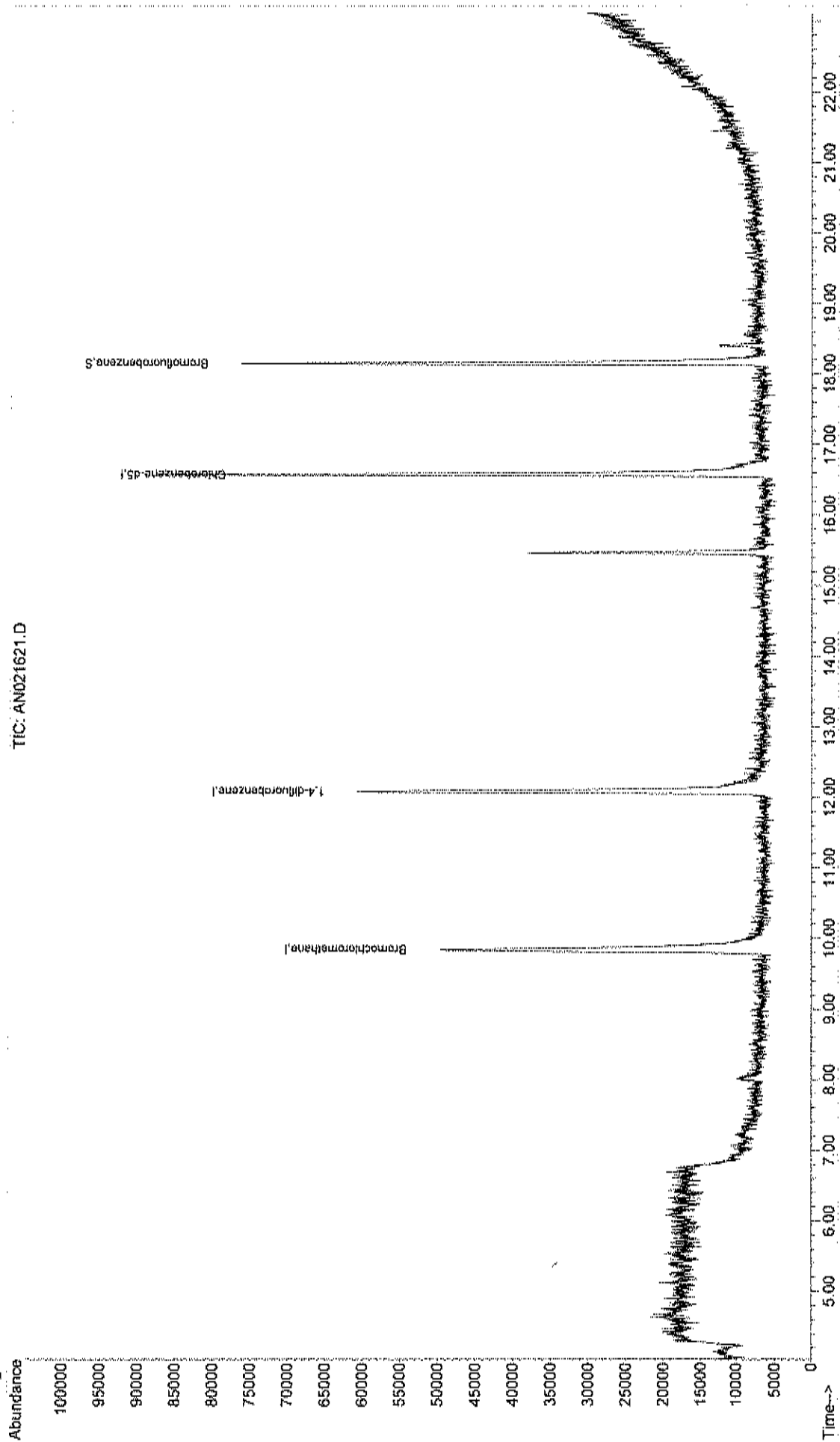
Qvalue

Data File : C:\HPCHEM\1\DATA2\AN021621.D
Acq On : 16 Feb 2016 10:37 pm
Sample : WAC021616F
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 17 17:28 2016

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 17 10:24:27 2016
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AN021911.D

Vial: 6

Acq On : 19 Feb 2016 3:36 pm

Operator: RJP

Sample : WAC021916F

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 22 07:55:02 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.87	128	30090	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.10	114	93261	1.00	ppb	0.01
50) Chlorobenzene-d5	16.59	117	83480	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	40440m	0.71	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	71.00%

Target Compounds

Qvalue

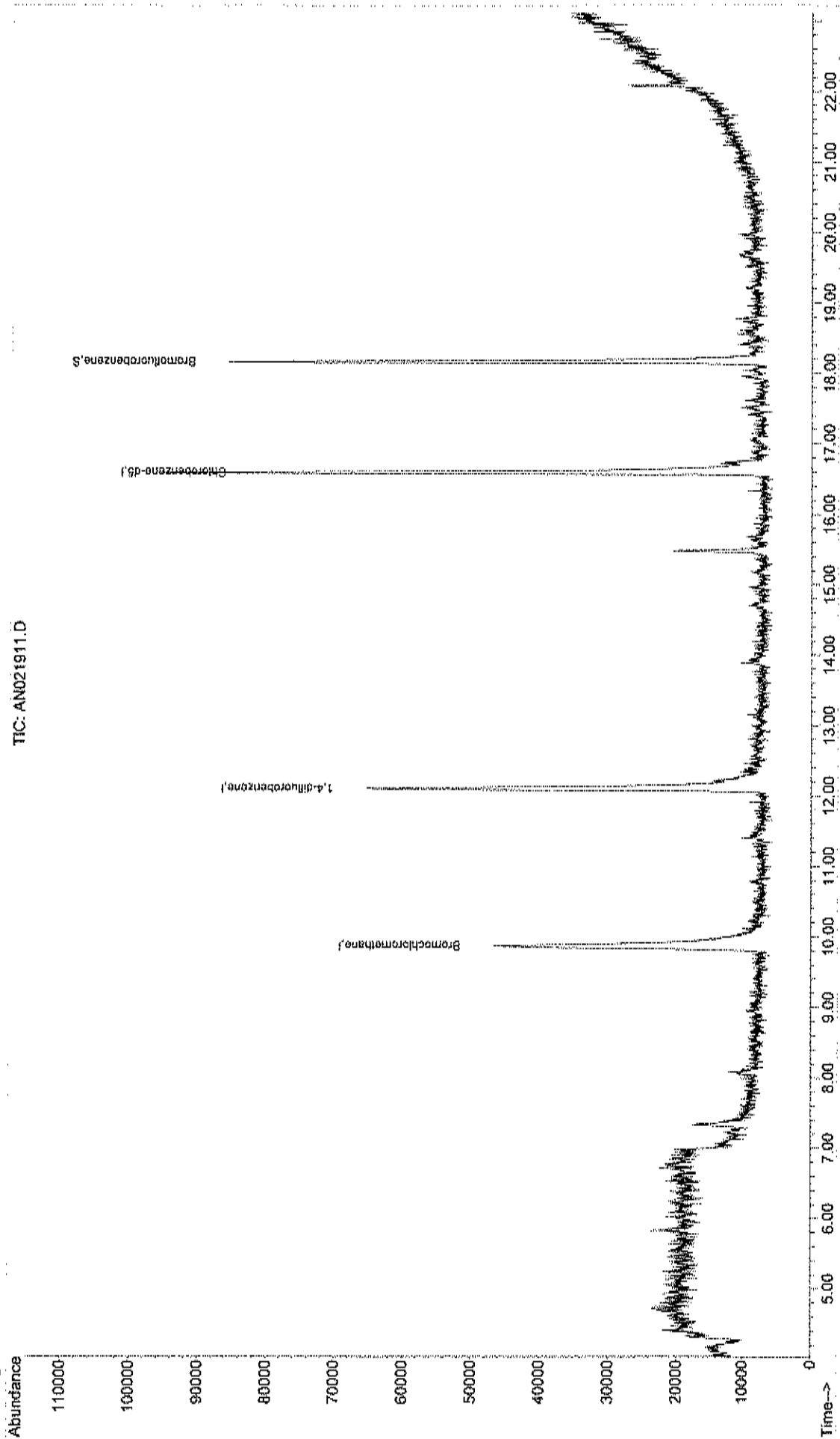
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AN021911.D
Acq On : 19 Feb 2016 3:36 pm
Sample : WAC021916F
Misc : A204 1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 22 9:02 2016

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

Method : C:\HPCHEM\1\METHODS\A316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 17 10:24:27 2016
Response via : Initial Calibration



Centek Laboratories, LLC

Date: 14-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1603001
Project: 690 St Paul
Lab ID: C1603001-001A

Client Sample ID: GEVA IN
Tag Number: 245,393
Collection Date: 2/25/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		3/1/2016
Lab Vacuum Out	-30			"Hg		3/1/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 4:41:00 AM
Trichloroethene	< 0.040	0.040		ppbV	1	3/3/2016 4:41:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/3/2016 4:41:00 AM
Surr: Bromofluorobenzene	120	70-130		%REC	1	3/3/2016 4:41:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 14-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1603001
Project: 690 St Paul
Lab ID: C1603001-002A

Client Sample ID: GEVA OUT
Tag Number: 1187,1167
Collection Date: 2/25/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-4			"Hg		3/1/2016
Lab Vacuum Out	-30			"Hg		3/1/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/3/2016 5:57:00 AM
Trichloroethene	< 0.040	0.040		ppbV	1	3/3/2016 5:57:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/3/2016 5:57:00 AM
Surr: Bromofluorobenzene	76.0	70-130		%REC	1	3/3/2016 5:57:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 14-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1603001
Project: 690 St Paul
Lab ID: C1603001-001A

Client Sample ID: GEVA IN
Tag Number: 245,393
Collection Date: 2/25/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2016 4:41:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	3/3/2016 4:41:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2016 4:41:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 14-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1603001
Project: 690 St Paul
Lab ID: C1603001-002A

Client Sample ID: GEVA OUT
Tag Number: 1187,1167
Collection Date: 2/25/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2016 5:57:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	3/3/2016 5:57:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2016 5:57:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

DATA USABILITY SUMMARY REPORT

for

LaBella Associates, P.C.

300 State Street

Rochester, NY 14614

690 ST PAUL SITE

SDG: C1603001

Sampled 2/25/2016

TO-15 AIR SAMPLES

GEVA IN (C1603001-01)

GEVA OUT (C1603001-02)

DATA ASSESSMENT

A TO-15 data package containing analytical results for two air samples was received from LaBella Associates, P.C. on 25May17. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the 690 St. Paul Site, were identified by Chain of Custody documents and traceable through the work of Centek Laboratories, LLC, the laboratory contracted for analysis. The analyses were performed using US EPA Method TO-15 and addressed measurements of six volatile organic compounds. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-31, Rev. #4, October 2006, Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15) was used as a technical reference.

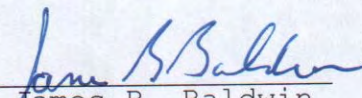
The results reported from GEVA OUT have been qualified as estimations due to a low surrogate standard recovery.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Reported concentrations that are felt to provide a usable estimation of the conditions at the time of sampling have been flagged "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL, Inc.

Date: 31 May 17

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the date of sampling. TO-15 samples must be analyzed within 14 days of collection.

This sample delivery group contained two air samples that were collected in 1-liter SUMMA canisters on 25Feb16. The canisters were shipped back to the laboratory, via FedEx-Ground, on 26Feb16 and were received on 01Mar16. Although the sample canisters were received intact, custody seals were not present on the packaging.

Canister vacuum readings were recorded in the laboratory prior to shipment, in the field prior to and following sampling, and in the laboratory at the time of receipt.

SAMPLE	PRIOR TO SHIPMENT ("Hg)	PRIOR TO SAMPLING ("Hg)	POST SAMPLING ("Hg)	LAB RECEIPT ("Hg)
GEVA IN	-30	-30	-2.5	-2
GEVA OUT	-30	-26.5	-2	-4

The final vacuum readings recorded for both samples were slightly outside of the ASP limits of -5 ± 1 "Hg. These slight deviations do not necessitate data qualifications because vacuum was maintained in both of these canisters.

The vacuum readings taken following sample collection and in the laboratory indicate that the integrity of both canisters was maintained during this period. The discrepancies between field and laboratory measurements are assumed to reflect the quality of the vacuum gauges on the canisters.

Although the sample regulators were set to collect eight-hour samples, sampling was terminated after 7 hours and 40 minutes based on the canister vacuum readings.

The analysis of this pair of samples was completed on 03Mar16, satisfying the ASP holding time limitation.

CANISTER CERTIFICATION

The canisters used for this project were pressure tested at 30 psig for 24 hours. Each canister demonstrated a change of ≤ 0.5 psig over this period.

The canisters were cleaned in two batches. A blank analysis of a clean canister from each batch was free of targeted analyte contamination above the reporting limit.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Trip Blanks monitor sampling activities, sample transport, and storage. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank was analyzed with this group of samples. This blank demonstrated acceptable chromatography and was free of targeted analyte contamination.

MS TUNING

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

BFB ion abundance criteria was reported from standards run before the initial instrument calibration and prior to the analysis of program samples on 03Mar16. Both of these checks satisfied the ASP acceptance criteria.

CALIBRATION

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration standards verify instrument stability.

The initial instrument calibration was performed on 04Feb16. Standards of 0.04, 0.15, 0.30, 0.50, 0.75, 1.0, 1.25, 1.50 and 2.0 ppbV were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

A continuing calibration check standard was analyzed on 02Mar16, prior to the 24-hour period of instrument operation that included samples from this program. When compared to the initial calibration, an acceptable level of instrument stability was demonstrated by each targeted analyte.

SURROGATES

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Although surrogate summary sheets were properly prepared, an incorrect acceptance criteria was applied. When compared to the ASP requirements, a low recovery of 76% was reported for the bromofluorobenzene addition to GEVA OUT. The results reported from this sample have been qualified as estimations based on this indication of negative bias.

INTERNAL STANDARDS

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than 40%. When compared to the preceding calibration check, retention times may not vary by more than 10 seconds.

The laboratory recorded the response of each internal standard addition to this group of samples, and the response obtained from the preceding CCV standard. Although the control limits based on the response of the CCV were not reported, they were calculated by this reviewer. When compared to these limits, acceptable performance was reported for the internal standard additions to each program sample.

Internal standard retention times were not addressed. The ASP retention time acceptance criteria was calculated by this reviewer. The retention times produced by each program sample satisfied these requirements.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

Although a sample from this project was not selected for matrix spiking, a pair of spiked blanks (LCS/LCD) was analyzed with this delivery group. The recoveries reported for this spiked blank pair demonstrated acceptable levels of measurement precision and accuracy.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

A duplicate sample was not included in this delivery group. It is noted, however, that the previously addressed spiked blanks demonstrated an acceptable level of measurement precision.

REPORTED ANALYTES

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples.

SUMMARY OF QUALIFIED DATA

690 ST PAUL SITE

SAMPLED FEBRUARY 2016

SURROGATE

GEVA IN (C1603001-01)
GEVA OUT (C1603001-02)

ALL UJ

Centek Laboratories, LLC

Date: 18-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1603001
 Project: 690 St Paul
 Lab ID: C1603001-001A

Client Sample ID: GEVA IN
 Tag Number: 245,393
 Collection Date: 2/25/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2016 4:41:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 4:41:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	3/3/2016 4:41:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2016 4:41:00 AM

11/11

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits		

Page 1 of 2

Centek Laboratories, LLC

Date: 18-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1603001
 Project: 690 St Paul
 Lab ID: C1603001-002A

Client Sample ID: GEVA OUT
 Tag Number: 1187,1167
 Collection Date: 2/25/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/3/2016 5:57:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/3/2016 5:57:00 AM
Trichloroethene	< 0.21	0.21		ug/m3	1	3/3/2016 5:57:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/3/2016 5:57:00 AM

Handwritten initials: JMS

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Page 2 of 2

Date: 18-Mar-16



CENTEK LABORATORIES, LLC

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: LaBella Associates, P.C.

Work Order: C1603001

Project: 690 St Paul

Test No: TO-15

Matrix: A

Sample ID	BR4FBZ							
ALCSIUG-030216	115							
ALCSIUGD-030216	109							
AMBIUG-030216	73.0							
C1603001-001A	120							
C1603001-002A	76.0							

Acronym	Surrogate	QC Limits
BR4FBZ	= Bromofluorobenzene	70-130 80-120

* Surrogate recovery outside acceptance limits

1

Centek Laboratories, LLC

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AN030203.D

Tune Time : 2 Mar 2016 10:45 am

Daily Calibration File : C:\HPCHEM\1\DATA\AN030203.D

		(BFB)	46071 (IS1) 32908 19745	140552 (IS2) 100394 60236	108402 (IS3) 77430 46458
File	Sample	DL Surrogate Recovery %	Internal Standard Responses		
AN030204.D	ALCS1UG-030216	115	35162 ✓	97637 ✓	71558 ✓
AN030205.D	AMB1UG-030216	73	30128	98414	84037
AN030224.D	ALCS1UGD-030216	109	32541	103964	83787
AN030231.D	C1603001-001A	120	28540	85737	81064
AN030233.D	C1603001-002A	76	28483	83353	86858

t - fails 24hr time check * - fails criteria

Created: Fri Mar 18 09:23:29 2016 MSD #1/

CCV time 9.83 12.08 16.58
 C1603001-1 9.83 12.08 16.58
 C1603001-2 9.81 12.07 16.58

Date: 18-Mar-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1603001

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-030216	SampleType: LCS	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10725					
Client ID:	ZZZZZ	Batch ID: R10725	TestNo: TO-15		Analysis Date: 3/2/2016	SeqNo: 126217					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.280	0.15	1	0	128	70	130				

Sample ID		ALCS1UGD-030216		SampType: LCSD		TestCode: 0.25CT-TCE-		Units: ppbV		Prep Date:		RunNo: 10725	
Client ID:		ZZZZZ		Batch ID: R10725		TestNo: TO-15				Analysis Date: 3/3/2016		SeqNo: 126218	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
1,1-Dichloroethene	1.280	0.15	1	0	128	70	130	1.28	0	30			
Chloroethane	1.120	0.15	1	0	112	70	130	1.07	4.57	30			
cis-1,2-Dichloroethene	0.7700	0.15	1	0	77.0	70	130	0.72	6.71	30			
trans-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70	130	0.87	2.33	30			
Trichloroethene	1.220	0.040	1	0	122	70	130	1.26	3.23	30			
Vinyl chloride	1.020	0.040	1	0	102	70	130	1.06	3.85	30			

Qualifiers: J Results reported are not blank corrected E Value above quantitation range H Holding times for preparation or analysis exceeded
 S Analyte detected at or below quantitation limits ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

Page 1 of 1

Date: 18-Mar-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1603001

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-030216	Sample Type:	MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10725				
Client ID:	ZZZZZ	Batch ID:	R10725	TestNo: TO-15		Analysis Date: 3/2/2016	SeqNo: 125216				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Quat
1,1-Dichloroethene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl chloride	< 0.040	0.040									

Qualifiers:

J Results reported are not blank corrected
S Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits

E Values above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Page 1 of 1

DATA USABILITY SUMMARY REPORT

for

LaBella Associates, P.C.

300 State Street

Rochester, NY 14614

690 ST PAUL SITE

SDG: C1602050

Sampled 2/17/2016

TO-15 AIR SAMPLES

ROOF	(C1602050-01)
RM-134	(C1602050-02)
RM-117	(C1602050-03)
RM-117DUP	(C1602050-04)
RM-117MS/MSD	(C1602050-05)
RM-107	(C1602050-06)
RM-112	(C1602050-07)
ELEVATOR	(C1602050-08)

DATA ASSESSMENT

A TO-15 data package containing analytical results for one ambient and seven indoor air samples was received from LaBella Associates, P.C. on 23Mar16. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the 690 St. Paul Site, were identified by Chain of Custody documents and traceable through the work of Centek Laboratories, LLC, the laboratory contracted for analysis. The analyses were performed using US EPA Method TO-15 and addressed measurements of sixty-three volatile organic compounds. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-31, Rev. #4, October 2006, Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15) was used as a technical reference.

The results reported from the ROOF sample have been qualified as estimations because the sampling equipment did not function properly.

The acetone, methylene chloride and methyl ethyl ketone concentrations found in this delivery group have been qualified as estimations because they may represent laboratory artifacts.

The 1,2,4-trimethylbenzene, carbon tetrachloride, Freon 11, Freon 113, Freon 12, isopropyl alcohol, methyl ethyl ketone and toluene results from this project have been qualified as estimations due to high spiked sample recoveries.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Reported concentrations that are felt to provide a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL, Inc.

Date: 25 MAR 16

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the date of sampling. TO-15 samples must be analyzed within 14 days of collection.

This sample delivery group contained five indoor air samples, a field duplicate of RM-117, one sample of ambient air, and a third RM-117 sample for the preparation of an MS/MSD pair. With the exception of RM-117MS/MSD, which was collected in a 1.4 liter SUMMA canister, the samples were collected in 1-liter canisters. Sampling was completed on 17Feb16. The canisters were shipped back to the laboratory, via UPS, on 18Feb16 and were received on 19Feb16. Although the sample canisters were received intact, custody seals were not present on the packaging.

Canister vacuum readings were recorded in the laboratory prior to shipment, in the field prior to and following sampling, and in the laboratory at the time of receipt.

SAMPLE	PRIOR TO SHIPMENT ("Hg)	PRIOR TO SAMPLING ("Hg)	POST SAMPLING ("Hg)	LAB RECEIPT ("Hg)
ROOF	-30	-30	-10	-10
RM-134	-30	-30	-2	-2
RM-117	-30	-28	-2	-2
RM-117DUP	-30	-28	-2	-2
RM-117MS/MSD	-30	-30	-2	-2
RM-107	-30	-30	-5	-5
RM-112	-30	-30	-3	-3
ELEVATOR	-30	-30	-7	-7

The final vacuum readings recorded for every sample except ROOF were slightly outside of the ASP limits of -5 ± 1 "Hg. These slight deviations do not necessitate data qualifications because vacuum was maintained in each of these canisters.

The vacuum readings taken following sample collection and in the laboratory indicate that the canister and regulator used to collect the ROOF sample did not function properly. However, the laboratory was able to obtain a sufficient sample volume from this canister to perform the required analyses. These results have been qualified as estimations due to the problems encountered during sample collection. The results obtained from the ROOF sample should only be considered significant if consistent with site history.

Although the sample regulators were set to collect six-hour samples, the sampling of RM-117, RM-117DUP, RM-117MS/MSD, RM-112 and the ELEVATOR was terminated after between 4.25 and 5.75 hours based on the canister vacuum readings.

The analysis of this group of samples was completed on 23Feb16 and 24Feb16, satisfying the ASP holding time limitation.

CANISTER CERTIFICATION

The canisters used for this project were pressure tested at 30 psig for 24 hours. Each canister demonstrated a change ≤ 0.5 psig over this period.

The canisters were cleaned in four batches. A blank analysis of a clean canister from each batch was free of targeted analyte contamination above the reporting limit.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Trip Blanks monitor sampling activities, sample transport, and storage. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank was analyzed with this group of samples. This blank demonstrated acceptable chromatography and was free of targeted analyte contamination.

Although not found in the method blank, acetone, methylene chloride (METH CL) and methyl ethyl ketone (MEK) were detected throughout this group of samples. These concentrations have been qualified as estimations because acetone, methylene chloride and methyl ethyl ketone are frequently present as laboratory artifacts. They could not be removed from sample reports because they were not found in the associated method blank.

MS TUNING

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

BFB ion abundance criteria was reported from standards run before the initial instrument calibration and prior to the analysis of program samples on 23Feb16. Both of these checks satisfied the ASP acceptance criteria.

CALIBRATION

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration standards verify instrument stability.

The initial instrument calibration was performed on 04Feb16. Standards of 0.04, 0.15, 0.30, 0.50, 0.75, 1.0, 1.25, 1.50 and 2.0 ppbV were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

A continuing calibration check standard was analyzed on 23Feb16, prior to the 24-hour period of instrument operation that included samples from this program. When compared to the initial calibration, an acceptable level of instrument stability was demonstrated by each targeted analyte.

SURROGATES

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Although surrogate summary sheets were properly prepared, an incorrect acceptance criteria was applied. However, when compared to the ASP requirements, acceptable surrogate recoveries were reported from the initial analysis and a 1:5 dilution of each program sample.

INTERNAL STANDARDS

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than 40%. When compared to the preceding calibration check, retention times may not vary by more than 10 seconds.

The laboratory recorded the response of each internal standard addition to this group of samples, and the response obtained from the preceding CCV standard. Although the control limits based on the response of the CCV were not reported, they were calculated by this reviewer. When compared to these limits, acceptable performance was reported for the internal standard additions to each program sample.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

RM-117MS/MSD was provided for the preparation of MS/MSD samples. Two volumes of RM-117MS/MSD were spiked with each analyte targeted by this program. The recoveries reported for these additions included high results for 1,2,4-trimethylbenzene (138%), carbon tetrachloride (137%), Freon 11 (151%,141%), Freon 113 (139%,148%), Freon 12 (150%,145%), isopropyl alcohol (239%,210%), methyl ethyl ketone (140%), toluene (184%,186%) and propylene (143%,148%). The 1,2,4-trimethylbenzene, carbon tetrachloride, Freon 11, Freon 113, Freon 12, isopropyl alcohol, methyl ethyl ketone and toluene results from this project have been qualified as estimations based on these indications of

positive bias. The positive bias indicated by the high recoveries of propylene warrant no concern because propylene was not detected in this group of samples.

A pair of spiked blanks (LCS/LCSD) was also analyzed with this group of samples. This LCS/LCSD pair produced acceptable recoveries of each targeted analyte.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

A Field duplicate of RM-117 were included in this delivery group. The concentrations of every analyte found in this pair of samples differed by less than 20% when both measurements exceeded five times the laboratory's reporting limit. The program acceptance criteria was satisfied.

REPORTED ANALYTES

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples.

690 ST PAUL SITE

SAMPLED FEBRUARY 2016

SUMMARY OF QUALIFIED DATA

	HANDLING	BLANK ACETONE	BLANK METH CL	BLANK MEK	SPIKES MS/MSD*
ROOF	ALL J/UJ	16J	1.3J	1.5J	ALL J
RM-134	(C1602050-01)	14J	1.6J	1.7J	ALL J
RM-117	(C1602050-02)	12J	1.4J	1.6J	ALL J
RM-117DUP	(C1602050-03)	12J	1.4J	1.4J	ALL J
RM-117MS/MSD	(C1602050-04)	14J	1.6J	1.5J	ALL J
RM-107	(C1602050-05)	14J	1.7J	1.9J	ALL J
RM-112	(C1602050-06)	14J	1.8J	1.7J	ALL J
ELEVATOR	(C1602050-07)	17J	1.8J	2.5J	ALL J
	(C1602050-08)				

MS/MSD* = 1,2,4-trimethylbenzene, carbon tetrachloride, Freon 11, Freon 113, Freon 12, isopropyl alcohol, methyl ethyl ketone, toluene

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-001A

Client Sample ID: Roof
 Tag Number: 350,265
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 8:54:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 8:54:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 8:54:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 8:54:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 8:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 8:54:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 8:54:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 8:54:00 PM
2,2,4-Trimethylpentane	< 0.70	0.70		ug/m3	1	2/23/2016 8:54:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 8:54:00 PM
Acetone -	16 J	3.6		ug/m3	5	2/24/2016 2:40:00 AM
Allyl chloride	< 0.47 J	0.47		ug/m3	1	2/23/2016 8:54:00 PM
Benzene -	1.1 J	0.48		ug/m3	1	2/23/2016 8:54:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 8:54:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 8:54:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 8:54:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 8:54:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 8:54:00 PM
Carbon tetrachloride -	0.94 J	0.25		ug/m3	1	2/23/2016 8:54:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 8:54:00 PM
Chloromethane	< 0.40	0.40		ug/m3	1	2/23/2016 8:54:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	2/23/2016 8:54:00 PM
Chloromethane -	0.95 J	0.31		ug/m3	1	2/23/2016 8:54:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 8:54:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 8:54:00 PM
Cyclohexane -	1.1 J	0.52		ug/m3	1	2/23/2016 8:54:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 8:54:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/23/2016 8:54:00 PM
Freon 11 -	2.0 J	0.84		ug/m3	1	2/23/2016 8:54:00 PM
Freon 113 -	1.0 J	1.1	J	ug/m3	1	2/23/2016 8:54:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 8:54:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: CI602050
Project: 690 St Paul
Lab ID: CI602050-001A

Client Sample ID: Roof
Tag Number: 350.265
Collection Date: 2/17/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12 -	3.2 J	0.74		ug/m3	1	2/23/2016 8:54:00 PM
Heptane -	0.61 J	0.61		ug/m3	1	2/23/2016 8:54:00 PM
Hexachloro-1,3-butadiene	< 1.6 J	1.6		ug/m3	1	2/23/2016 8:54:00 PM
Hexane -	3.3 J	0.53		ug/m3	1	2/23/2016 8:54:00 PM
Isopropyl alcohol -	3.0 J	0.37		ug/m3	1	2/23/2016 8:54:00 PM
m&p-Xylene -	0.87 J	1.3 J		ug/m3	1	2/23/2016 8:54:00 PM
Methyl Butyl Ketone	< 1.2 J	1.2		ug/m3	1	2/23/2016 8:54:00 PM
Methyl Ethyl Ketone -	1.5 J	0.88		ug/m3	1	2/23/2016 8:54:00 PM
Methyl Isobutyl Ketone	< 1.2 J	1.2		ug/m3	1	2/23/2016 8:54:00 PM
Methyl tert-butyl ether	< 0.54 J	0.54		ug/m3	1	2/23/2016 8:54:00 PM
Methylene chloride -	1.3 J	0.52		ug/m3	1	2/23/2016 8:54:00 PM
o-Xylene -	0.43 J	0.65 J		ug/m3	1	2/23/2016 8:54:00 PM
Propylene	< 0.26 J	0.26		ug/m3	1	2/23/2016 8:54:00 PM
Styrene	< 0.64 J	0.64		ug/m3	1	2/23/2016 8:54:00 PM
Tetrachloroethylene	< 1.0 J	1.0		ug/m3	1	2/23/2016 8:54:00 PM
Tetrahydrofuran	< 0.44 J	0.44		ug/m3	1	2/23/2016 8:54:00 PM
Toluene -	3.5 J	0.57		ug/m3	1	2/23/2016 8:54:00 PM
trans-1,2-Dichloroethene	< 0.59 J	0.59		ug/m3	1	2/23/2016 8:54:00 PM
trans-1,3-Dichloropropene	< 0.68 J	0.68		ug/m3	1	2/23/2016 8:54:00 PM
Trichloroethene	< 0.21 J	0.21		ug/m3	1	2/23/2016 8:54:00 PM
Vinyl acetate	< 0.53 J	0.53		ug/m3	1	2/23/2016 8:54:00 PM
Vinyl Bromide	< 0.66 J	0.66		ug/m3	1	2/23/2016 8:54:00 PM
Vinyl chloride	< 0.10 J	0.10		ug/m3	1	2/23/2016 8:54:00 PM

AK

Qualifiers: ** Reporting Limit
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Non-routine analyte, Quantitation estimated.
S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
E Value above quantitation range
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-002A

Client Sample ID: Rm 134
 Tag Number: 222,267
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 9:33:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 9:33:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 9:33:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 9:33:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 9:33:00 PM
1,2,4-Trimethylbenzene	0.79 J	0.74		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 9:33:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 9:33:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 9:33:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 9:33:00 PM
2,2,4-trimethylpentane	1.2	0.70		ug/m3	1	2/23/2016 9:33:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 9:33:00 PM
Acetone	14 J	3.6		ug/m3	6	2/24/2016 3:17:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 9:33:00 PM
Benzene	1.3	0.48		ug/m3	1	2/23/2016 9:33:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 9:33:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM
Bromoform	< 1.8	1.6		ug/m3	1	2/23/2016 9:33:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 9:33:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 9:33:00 PM
Carbon tetrachloride	0.88 J	0.25		ug/m3	1	2/23/2016 9:33:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 9:33:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 9:33:00 PM
Chloroform	1.2	0.73		ug/m3	1	2/23/2016 9:33:00 PM
Chloromethane	1.1	0.31		ug/m3	1	2/23/2016 9:33:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 9:33:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 9:33:00 PM
Cyclohexane	0.69	0.62		ug/m3	1	2/23/2016 9:33:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 9:33:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
Ethylbenzene	0.56	0.65	J	ug/m3	1	2/23/2016 9:33:00 PM
Freon 11	2.0 J	0.84		ug/m3	1	2/23/2016 9:33:00 PM
Freon 113	0.92 J	1.1	J	ug/m3	1	2/23/2016 9:33:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

- Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1602050
Project: 690 St Paul
Lab ID: C1602050-002A

Client Sample ID: Rm 134
Tag Number: 222,267
Collection Date: 2/17/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12 -	3.1 J	0.74		ug/m3	1	2/23/2016 9:33:00 PM
Heptane -	0.98	0.61		ug/m3	1	2/23/2016 9:33:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.0		ug/m3	1	2/23/2016 9:33:00 PM
Hexane -	2.6	0.63		ug/m3	1	2/23/2016 9:33:00 PM
Isopropyl alcohol -	4.9 J	0.37		ug/m3	1	2/23/2016 9:33:00 PM
m&p-Xylene -	2.3	1.3		ug/m3	1	2/23/2016 9:33:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 9:33:00 PM
Methyl Ethyl Ketone -	1.7 J	0.88		ug/m3	1	2/23/2016 9:33:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 9:33:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 9:33:00 PM
Methylene chloride -	1.6 J	0.52		ug/m3	1	2/23/2016 9:33:00 PM
o-Xylene -	0.82	0.65		ug/m3	1	2/23/2016 9:33:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 9:33:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 9:33:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 9:33:00 PM
Toluene -	3.5 J	0.57		ug/m3	1	2/23/2016 9:33:00 PM
trans-1,2-Dichloroethene	< 0.59	0.69		ug/m3	1	2/23/2016 9:33:00 PM
trans-1,3-Dichloropropene	< 0.69	0.68		ug/m3	1	2/23/2016 9:33:00 PM
Trichloroethene -	0.32	0.21		ug/m3	1	2/23/2016 9:33:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 9:33:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 9:33:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 9:33:00 PM

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Qualifiers: ** Reporting Limit
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
E Value above quantitation range
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1602050
Project: 690 St Paul
Lab ID: C1602050-003A

Client Sample ID: Rm 117
Tag Number: 561,146
Collection Date: 2/17/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:12:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:12:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:12:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:12:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 10:12:00 PM
1,2,4-Trimethylbenzene -	0.54 J	0.74	J	ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 10:12:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 10:12:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 10:12:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 10:12:00 PM
2,2,4-trimethylpentane -	9.8	3.5		ug/m3	5	2/24/2016 3:53:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 10:12:00 PM
Acetone -	12 J	3.6		ug/m3	5	2/24/2016 3:53:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 10:12:00 PM
Benzene -	3.9	0.48		ug/m3	1	2/23/2016 10:12:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 10:12:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 10:12:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 10:12:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 10:12:00 PM
Carbon tetrachloride -	0.82 J	0.25		ug/m3	1	2/23/2016 10:12:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 10:12:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 10:12:00 PM
Chloroform -	1.3	0.73		ug/m3	1	2/23/2016 10:12:00 PM
Chloromethane -	1.3	0.31		ug/m3	1	2/23/2016 10:12:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:12:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:12:00 PM
Cyclohexane -	1.5	0.52		ug/m3	1	2/23/2016 10:12:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 10:12:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
Ethylbenzene -	0.48	0.65	J	ug/m3	1	2/23/2016 10:12:00 PM
Freon 11 -	2.0 J	0.84		ug/m3	1	2/23/2016 10:12:00 PM
Freon 113 -	1.0 J	1.1	J	ug/m3	1	2/23/2016 10:12:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM

Qualifiers: ** Reporting Limit
B Analyte detected in the associated Method Blank
E Holding times for preparation or analysis exceeded
JN Non-routine analyte, Quantitation estimated.
S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
E Value above quantitation range
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1602050
Project: 690 St Paul
Lab ID: C1602050-003A

Client Sample ID: Rm 117
Tag Number: 561,146
Collection Date: 2/17/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12 -	3.3 J	0.74		ug/m3	1	2/23/2016 10:12:00 PM
Heptane -	2.3	0.61		ug/m3	1	2/23/2016 10:12:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 10:12:00 PM
Hexane -	3.0	0.53		ug/m3	1	2/23/2016 10:12:00 PM
Isopropyl alcohol -	5.0 J	0.37		ug/m3	1	2/23/2016 10:12:00 PM
m&p-Xylene -	1.0	1.3 J		ug/m3	1	2/23/2016 10:12:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:12:00 PM
Methyl Ethyl Ketone -	1.6 J	0.88		ug/m3	1	2/23/2016 10:12:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:12:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 10:12:00 PM
Methylene chloride -	1.4 J	0.52		ug/m3	1	2/23/2016 10:12:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	2/23/2016 10:12:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 10:12:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 10:12:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 10:12:00 PM
Toluene -	3.4 J	0.57		ug/m3	1	2/23/2016 10:12:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:12:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:12:00 PM
Trichloroethene -	0.43	0.21		ug/m3	1	2/23/2016 10:12:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 10:12:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 10:12:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 10:12:00 PM

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Qualifiers:	** Reporting Limit	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1602050
Project: 690 St Paul
Lab ID: C1602050-004A

Client Sample ID: Rm 117 Dup
Tag Number: 347,146
Collection Date: 2/17/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:51:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:51:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:51:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:51:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 10:51:00 PM
1,2,4-Trimethylbenzene	0.59 J	0.74	J	ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 10:51:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 10:51:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 10:51:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 10:51:00 PM
2,2,4-trimethylpentane	0.51	0.70	J	ug/m3	1	2/23/2016 10:51:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 10:51:00 PM
Acetone	12 J	3.6		ug/m3	5	2/24/2016 4:30:00 AM
Amyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 10:51:00 PM
Benzene	1.1	0.48		ug/m3	1	2/23/2016 10:51:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 10:51:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 10:51:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 10:51:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 10:51:00 PM
Carbon tetrachloride	0.82 J	0.25		ug/m3	1	2/23/2016 10:51:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 10:51:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 10:51:00 PM
Chloroform	1.2	0.73		ug/m3	1	2/23/2016 10:51:00 PM
Chloromethane	1.2	0.31		ug/m3	1	2/23/2016 10:51:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:51:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:51:00 PM
Cyclohexane	1.9	0.52		ug/m3	1	2/23/2016 10:51:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 10:51:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/23/2016 10:51:00 PM
Freon 11	2.0 J	0.84		ug/m3	1	2/23/2016 10:51:00 PM
Freon 113	0.92 J	1.1	J	ug/m3	1	2/23/2016 10:51:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM

Qualifiers: ** Reporting Limit
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
E Value above quantitation range
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-004A

Client Sample ID: Rm 117 Dup
 Tag Number: 347,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12 -	3.2 J	0.74		ug/m3	1	2/23/2016 10:51:00 PM
Heptane -	0.70	0.61		ug/m3	1	2/23/2016 10:51:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 10:51:00 PM
Hexane -	2.0	0.53		ug/m3	1	2/23/2016 10:51:00 PM
Isopropyl alcohol -	5.2 J	0.37		ug/m3	1	2/23/2016 10:51:00 PM
m&p-Xylene -	1.1	1.3 J		ug/m3	1	2/23/2016 10:51:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:51:00 PM
Methyl Ethyl Ketone -	1.4 J	0.88		ug/m3	1	2/23/2016 10:51:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:51:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 10:51:00 PM
Methylene chloride -	1.4 J	0.52		ug/m3	1	2/23/2016 10:51:00 PM
o-Xylene -	0.69	0.65		ug/m3	1	2/23/2016 10:51:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 10:51:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 10:51:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 10:51:00 PM
Toluene -	3.1 J	0.57		ug/m3	1	2/23/2016 10:51:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:51:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:51:00 PM
Trichloroethene -	0.43	0.21		ug/m3	1	2/23/2016 10:51:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 10:51:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 10:51:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 10:51:00 PM

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Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 F Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-005A

Client Sample ID: Rm 117 Ms/MSD
 Tag Number: 1208,1165
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 6:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 6:50:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 6:50:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 6:50:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 6:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 6:50:00 PM
1,2,4-Trimethylbenzene	0.54 J	0.74	J	ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 6:50:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 6:50:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 6:50:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 6:50:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/23/2016 6:50:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 6:50:00 PM
Acetone	14 J	3.6		ug/m3	5	2/24/2016 2:00:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 6:50:00 PM
Benzene	1.2	0.48		ug/m3	1	2/23/2016 6:50:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 6:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 6:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 6:50:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 6:50:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 6:50:00 PM
Carbon tetrachloride	0.88 J	0.25		ug/m3	1	2/23/2016 6:50:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 6:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 6:50:00 PM
Chloroform	1.2	0.73		ug/m3	1	2/23/2016 6:50:00 PM
Chloromethane	1.2	0.31		ug/m3	1	2/23/2016 6:50:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 6:50:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 6:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	2/23/2016 6:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 6:50:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/23/2016 6:50:00 PM
Freon 11	2.0 J	0.84		ug/m3	1	2/23/2016 6:50:00 PM
Freon 113	1.0 J	1.1	J	ug/m3	1	2/23/2016 6:50:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 6:50:00 PM

Qualifiers:	** Reporting Limit	- Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	± Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected at or below quantitation limits
ND	Non-routine analyte, Quantitation estimated.	ND Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBolla Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-005A

Client Sample ID: Rm 117 Ms/MSD
 Tag Number: 1208,1165
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12 -	3.2 J	0.74		ug/m3	1	2/23/2016 6:50:00 PM
Heptane -	0.94	0.61		ug/m3	1	2/23/2016 6:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 6:50:00 PM
Hexane -	1.9	0.53		ug/m3	1	2/23/2016 6:50:00 PM
Isopropyl alcohol -	4.2 J	0.37		ug/m3	1	2/23/2016 6:50:00 PM
m&p-Xylene -	1.0	1.3 J		ug/m3	1	2/23/2016 6:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 6:50:00 PM
Methyl Ethyl Ketone -	1.5 J	0.68		ug/m3	1	2/23/2016 6:50:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 6:50:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 6:50:00 PM
Methylene chloride -	1.6 J	0.52		ug/m3	1	2/23/2016 6:50:00 PM
o-Xylene -	0.48	0.65 J		ug/m3	1	2/23/2016 6:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 6:50:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 6:50:00 PM
Tetrachloroethylene -	0.75	1.0 J		ug/m3	1	2/23/2016 6:50:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 6:50:00 PM
Toluene -	3.0 J	0.57		ug/m3	1	2/23/2016 6:50:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 6:50:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 6:50:00 PM
Trichloroethene -	0.43	0.21		ug/m3	1	2/23/2016 6:50:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 6:50:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 6:50:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 6:50:00 PM

Qualifiers:	** Reporting Limit	- Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected at or below quantitation limits
IN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-006A

Client Sample ID: Rm 107
 Tag Number: 190,349
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	*Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 11:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 11:30:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 11:30:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 11:30:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 11:30:00 PM
1,2,4-Trimethylbenzene -	1.1 J	0.74		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 11:30:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 11:30:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 11:30:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 11:30:00 PM
2,2,4-trimethylpentane -	3.9	0.70		ug/m3	1	2/23/2016 11:30:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 11:30:00 PM
Acetone -	14 J	3.6		ug/m3	5	2/24/2016 5:07:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 11:30:00 PM
Benzene -	1.5	0.48		ug/m3	1	2/23/2016 11:30:00 PM
Benzyl chloride	< 0.66	0.66		ug/m3	1	2/23/2016 11:30:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 11:30:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 11:30:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 11:30:00 PM
Carbon tetrachloride -	0.82 J	0.25		ug/m3	1	2/23/2016 11:30:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 11:30:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 11:30:00 PM
Chloroform -	2.3	0.73		ug/m3	1	2/23/2016 11:30:00 PM
Chloromethane -	1.4	0.31		ug/m3	1	2/23/2016 11:30:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 11:30:00 PM
cis-1,3-Dichloropropane	< 0.68	0.68		ug/m3	1	2/23/2016 11:30:00 PM
Cyclohexane -	0.96	0.52		ug/m3	1	2/23/2016 11:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 11:30:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
Ethylbenzene -	0.65	0.65		ug/m3	1	2/23/2016 11:30:00 PM
Freon 11 -	2.1 J	0.84		ug/m3	1	2/23/2016 11:30:00 PM
Freon 113 -	1.0 J	1.1	J	ug/m3	1	2/23/2016 11:30:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 14 Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1602050
Project: 690 St Paul
Lab ID: C1602050-006A

Client Sample ID: Rm 107
Tag Number: 190,349
Collection Date: 2/17/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12 -	3.3 J	0.74		ug/m3	1	2/23/2016 11:30:00 PM
Heptane -	3.0	0.61		ug/m3	1	2/23/2016 11:30:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 11:30:00 PM
Hexane -	3.0	0.53		ug/m3	1	2/23/2016 11:30:00 PM
Isopropyl alcohol -	6.8 J	1.8		ug/m3	5	2/24/2016 5:07:00 AM
m&p-Xylene -	1.7	1.3		ug/m3	1	2/23/2016 11:30:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 11:30:00 PM
Methyl Ethyl Ketone -	1.9 J	0.88		ug/m3	1	2/23/2016 11:30:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 11:30:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 11:30:00 PM
Methylene chloride -	1.7 J	0.52		ug/m3	1	2/23/2016 11:30:00 PM
o-Xylene -	0.74	0.65		ug/m3	1	2/23/2016 11:30:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 11:30:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 11:30:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 11:30:00 PM
Toluene -	4.7 J	0.57		ug/m3	1	2/23/2016 11:30:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 11:30:00 PM
trans-1,3-Dichloropropene	< 0.66	0.66		ug/m3	1	2/23/2016 11:30:00 PM
Trichloroethene -	0.81	0.21		ug/m3	1	2/23/2016 11:30:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 11:30:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 11:30:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 11:30:00 PM

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Qualifiers: ** Reporting Limit
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

- Results reported are not blank corrected
E Value above quantitation range
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-007A

Client Sample ID: Rm 112
 Tag Number: 568,249
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:08:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:08:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:08:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:08:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:08:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/24/2016 12:08:00 AM
1,2,4-Trimethylbenzene -	1.0 J	0.74		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/24/2016 12:08:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/24/2016 12:08:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/24/2016 12:08:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/24/2016 12:08:00 AM
2,2,4-trimethylpentane -	0.66	0.70 J		ug/m3	1	2/24/2016 12:08:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/24/2016 12:08:00 AM
Acetone -	14 J	3.6		ug/m3	5	2/24/2016 5:44:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/24/2016 12:08:00 AM
Benzene -	1.4	0.48		ug/m3	1	2/24/2016 12:08:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/24/2016 12:08:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:08:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/24/2016 12:08:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/24/2016 12:08:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/24/2016 12:08:00 AM
Carbon tetrachloride -	0.82 J	0.25		ug/m3	1	2/24/2016 12:08:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/24/2016 12:08:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/24/2016 12:08:00 AM
Chloroform -	2.2	0.73		ug/m3	1	2/24/2016 12:08:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	2/24/2016 12:08:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:08:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:08:00 AM
Cyclohexane -	0.59	0.52		ug/m3	1	2/24/2016 12:08:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/24/2016 12:08:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
Ethylbenzene -	0.56	0.65 J		ug/m3	1	2/24/2016 12:08:00 AM
Freon 11 -	2.0 J	0.84		ug/m3	1	2/24/2016 12:08:00 AM
Freon 113 -	0.92 J	1.1 J		ug/m3	1	2/24/2016 12:08:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/24/2016 12:08:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-D07A

Client Sample ID: Rm 112
 Tag Number: 568,249
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12 -	3.2 J	0.74		ug/m3	1	2/24/2016 12:08:00 AM
Heptane -	2.5	0.61		ug/m3	1	2/24/2016 12:08:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/24/2016 12:08:00 AM
Hexane -	2.8	0.53		ug/m3	1	2/24/2016 12:08:00 AM
Isopropyl alcohol -	5.2 J	0.37		ug/m3	1	2/24/2016 12:08:00 AM
m&p-Xylene -	1.7	1.3		ug/m3	1	2/24/2016 12:08:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:08:00 AM
Methyl Ethyl Ketone -	1.7 J	0.88		ug/m3	1	2/24/2016 12:08:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:08:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/24/2016 12:08:00 AM
Methylene chloride -	1.6 J	0.52		ug/m3	1	2/24/2016 12:08:00 AM
o-Xylene -	0.74	0.65		ug/m3	1	2/24/2016 12:08:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/24/2016 12:08:00 AM
Styrene	< 0.64	0.64		ug/m3	1	2/24/2016 12:08:00 AM
Tetrachloroethylene -	1.1	1.0		ug/m3	1	2/24/2016 12:08:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/24/2016 12:08:00 AM
Toluene -	4.4 J	0.57		ug/m3	1	2/24/2016 12:08:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:08:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:08:00 AM
Trichloroethene -	1.2	0.21		ug/m3	1	2/24/2016 12:08:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/24/2016 12:08:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/24/2016 12:08:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/24/2016 12:08:00 AM

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Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-008A

Client Sample ID: Elevator
 Tag Number: 241,1168
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:47:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:47:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:47:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:47:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/24/2016 12:47:00 AM
1,2,4-Trimethylbenzene --	6.4 J	0.74		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/24/2016 12:47:00 AM
1,3,5-Trimethylbenzene --	1.8	0.74		ug/m3	1	2/24/2016 12:47:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/24/2016 12:47:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/24/2016 12:47:00 AM
2,2,4-Trimethylpentane --	1.5	0.70		ug/m3	1	2/24/2016 12:47:00 AM
4-ethyltoluene	1.4	0.74		ug/m3	1	2/24/2016 12:47:00 AM
Acetone --	17 J	3.6		ug/m3	5	2/24/2016 6:20:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/24/2016 12:47:00 AM
Benzene --	2.7	0.49		ug/m3	1	2/24/2016 12:47:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/24/2016 12:47:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/24/2016 12:47:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/24/2016 12:47:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/24/2016 12:47:00 AM
Carbon tetrachloride --	0.82 J	0.25		ug/m3	1	2/24/2016 12:47:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/24/2016 12:47:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/24/2016 12:47:00 AM
Chloroform --	6.1	0.73		ug/m3	1	2/24/2016 12:47:00 AM
Chloromethane --	1.1	0.31		ug/m3	1	2/24/2016 12:47:00 AM
cis-1,2-Dichloroethane --	1.3	0.59		ug/m3	1	2/24/2016 12:47:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:47:00 AM
Cyclohexane --	1.1	0.62		ug/m3	1	2/24/2016 12:47:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/24/2016 12:47:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
Ethylbenzene --	1.8	0.65		ug/m3	1	2/24/2016 12:47:00 AM
Freon 11 --	2.0 J	0.84		ug/m3	1	2/24/2016 12:47:00 AM
Freon 113 --	0.92 J	1.1	J	ug/m3	1	2/24/2016 12:47:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 N Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1602050
Project: 690 St Paul
Lab ID: C1602050-008A

Client Sample ID: Elevator
Tag Number: 241,1168
Collection Date: 2/17/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12 -	3.2 J	0.74		ug/m3	1	2/24/2016 12:47:00 AM
Heptane -	1.8	0.61		ug/m3	1	2/24/2016 12:47:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/24/2016 12:47:00 AM
Hexane -	5.0	0.53		ug/m3	1	2/24/2016 12:47:00 AM
Isopropyl alcohol -	4.3 J	0.37		ug/m3	1	2/24/2016 12:47:00 AM
m&p-Xylene -	6.7	1.3		ug/m3	1	2/24/2016 12:47:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:47:00 AM
Methyl Ethyl Ketone -	2.5 J	0.88		ug/m3	1	2/24/2016 12:47:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:47:00 AM
Methyl teri-butyl ether	< 0.54	0.54		ug/m3	1	2/24/2016 12:47:00 AM
Methylene chloride -	1.8 J	0.52		ug/m3	1	2/24/2016 12:47:00 AM
o-Xylene -	2.6	0.85		ug/m3	1	2/24/2016 12:47:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/24/2016 12:47:00 AM
Styrene	< 0.64	0.64		ug/m3	1	2/24/2016 12:47:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM
Tetrahydrofuran -	3.0	0.44		ug/m3	1	2/24/2016 12:47:00 AM
Toluene -	7.9 J	2.8		ug/m3	5	2/24/2016 6:20:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:47:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:47:00 AM
Trichloroethene -	3.6	0.21		ug/m3	1	2/24/2016 12:47:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/24/2016 12:47:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/24/2016 12:47:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/24/2016 12:47:00 AM

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Qualifiers: ** Reporting Limit
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Non-routine analyte. Quantitation estimated.
S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
E Value above quantitation range
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit

QC SUMMARY REPORT

SURROGATE RECOVERIES

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

Test No: TO-15

Matrix: A

Sample ID	BR4FRZ
AICSIUG-022316	101
AICSIUGD-022316	107
AMBIUG-022316	72.0
C1602050-001A	87.0
C1602050-002A	92.0
C1602050-003A	93.0
C1602050-004A	86.0
C1602050-005A	91.0
C1602050-005A MS	107
C1602050-005A MSD	107
C1602050-006A	97.0
C1602050-007A	93.0
C1602050-008A	117

Acronym	Surrogate	QC Limits
BR4FBZ	= Bromofluorobenzene	70-130 80-120

* Surrogate recovery outside acceptance limits

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AN022303.D

Tune Time : 23 Feb 2016 10:53 am

Daily Calibration File : C:\HPCHEM\1\DATA\AN022303.D

(BFB)

(IS1)
35133(IS2)
123693(IS3)
87251

File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AN022304.D	ALCS1UG-022316	101		35037 ✓	122496 ✓	98923 ✓
AN022305.D	AMB1UG-022316	72		30279	107011	98861
AN022315.D	C1602050-005A	91		28598	95423	84862
AN022316.D	C1602050-005A MS	107		34064	117917	81431
AN022317.D	C1602050-005A MSD	107		36181	127862	88413
AN022318.D	C1602050-001A	87		29517	99994	87518
AN022319.D	C1602050-002A	92		30379	103994	88174
AN022320.D	C1602050-003A	93		28648	101376	80703
AN022321.D	C1602050-004A	86		28857	96312	83054
AN022322.D	C1602050-006A	97		28013	101801	83077
AN022323.D	C1602050-007A	93		29732	103253	83346
AN022324.D	C1602050-008A	117		29649	104381	82375
AN022325.D	ALCS1UGD-022316	107		35760	121491	89481
AN022326.D	C1602050-005A 5x	79		25301	82709	79377
AN022327.D	C1602050-001A 5x	75		24766	81168	78831
AN022328.D	C1602050-002A 5x	75		26439	83118	77617
AN022329.D	C1602050-003A 5x	75		25302	81555	77582
AN022330.D	C1602050-004A 5x	73		25797	80453	77334
AN022331.D	C1602050-006A 5x	76		25521	81538	77438
AN022332.D	C1602050-007A 5x	76		26130	82797	77954
AN022333.D	C1602050-008A 5x	83		25846	83470	77526

t - fails 24hr time check * - fails criteria

Created: Thu Mar 03 11:19:11 2016 MSD #1/

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
Work Order: C1602050
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-022316	Sample Type:	LCS	Batch ID:	R10690	TestCode:	0.25CT-TCE-	Units:	ppbv	TestNo:	TO-15	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result																			
1,1,1-Trichloroethane		1.130				0.15		1	0						113	70	130				
1,1,2,2-Tetrachloroethane		1.060				0.15		1	0						106	70	130				
1,1,2-Trichloroethane		1.210				0.15		1	0						121	70	130				
1,1-Dichloroethane		0.9000				0.15		1	0						90.0	70	130				
1,1-Dichloroethene		1.110				0.15		1	0						111	70	130				
1,2,4-Trichlorobenzene		0.7400				0.15		1	0						74.6	70	130				
1,2,4-Trimethylbenzene		0.7900				0.15		1	0						79.0	70	130				
1,2-Dibromoethane		0.9900				0.15		1	0						99.0	70	130				
1,2-Dichlorobenzene		0.9600				0.15		1	0						96.0	70	130				
1,2-Dichloroethane		0.8100				0.15		1	0						81.0	70	130				
1,2-Dichloropropane		1.080				0.15		1	0						108	70	130				
1,3,5-Trimethylbenzene		0.9100				0.15		1	0						91.0	70	130				
1,3-butadiene		1.020				0.15		1	0						102	70	130				
1,3-Dichlorobenzene		0.9600				0.15		1	0						96.0	70	130				
1,4-Dichlorobenzene		0.9200				0.15		1	0						92.0	70	130				
1,4-Dioxane		1.020				0.30		1	0						102	70	130				
2,2,4-trimethylpentane		0.9200				0.15		1	0						92.0	70	130				
4-ethyltoluene		0.9300				0.15		1	0						93.0	70	130				
Acetone		0.9600				0.30		1	0						96.0	70	130				
Allyl chloride		0.7700				0.15		1	0						77.0	70	130				
Benzene		1.060				0.15		1	0						106	70	130				
Benzyl chloride		1.030				0.15		1	0						103	70	130				
Bromodichloromethane		1.280				0.15		1	0						128	70	130				
Bromoform		1.220				0.15		1	0						122	70	130				
Bromomethane		1.200				0.15		1	0						120	70	130				

Qualifiers:
 J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-022316	Sample Type	LCS	Batch ID	R10690	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690		
Client ID:	ZZZZZ					TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125799		
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9500	0.15	1	0	95.0	70	130				
Carbon tetrachloride	1.270	0.040	1	0	127	70	130				
Chlorobenzene	0.9900	0.15	1	0	99.0	70	130				
Chloroethane	1.110	0.15	1	0	111	70	130				
Chloroform	0.9300	0.15	1	0	93.0	70	130				
Chloromethane	0.8200	0.15	1	0	82.0	70	130				
cis-1,2-Dichloroethene	0.7500	0.15	1	0	75.0	70	130				
cis-1,3-Dichloropropene	1.110	0.15	1	0	111	70	130				
Cyclohexane	0.8600	0.15	1	0	86.0	70	130				
Dibromochloromethane	1.150	0.15	1	0	115	70	130				
Ethyl acetate	0.7400	0.25	1	0	74.0	70	130				
Ethylbenzene	0.8900	0.15	1	0	89.0	70	130				
Freon 11	1.200	0.15	1	0	120	70	130				
Freon 113	1.190	0.15	1	0	119	70	130				
Freon 114	1.050	0.15	1	0	105	70	130				
Freon 12	0.9800	0.15	1	0	98.0	70	130				
Heptane	0.7700	0.15	1	0	77.0	70	130				
Hexachloro-1,3-butadiene	0.8700	0.15	1	0	87.0	70	130				
Hexane	0.7100	0.15	1	0	71.0	70	130				
Isopropyl alcohol	0.8300	0.16	1	0	83.0	70	130				
m&p-Xylene	1.920	0.30	2	0	96.0	70	130				
Methyl Butyl Ketone	0.8300	0.30	1	0	83.0	70	130				
Methyl Ethyl Ketone	0.8900	0.30	1	0	89.0	70	130				
Methyl Isobutyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl tert-butyl ether	0.7800	0.15	1	0	78.0	70	130				
Methylethyl chloride	1.050	0.15	1	0	105	70	130				
o-Xylene	1.160	0.15	1	0	116	70	130				
Propylene	0.7600	0.15	1	0	76.0	70	130				
Styrene	0.9300	0.15	1	0	93.0	70	130				
Tetrachloroethylene	1.020	0.15	1	0	102	70	130				
Tetrahydrofuran	0.7700	0.15	1	0	77.0	70	130				

Qualifiers: J Analyte detected at or below quantification limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantification range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCSTUG-022316	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10690					
Client ID:	ZZZZZ	Batch ID: R10690	TestNo: TC-15		Analysis Date: 2/23/2016	SeqNo: 125799					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	0.8900	0.15	1	0	83.0	70	130				
trans-1,2-Dichloroethane	0.7600	0.15	1	0	76.0	70	130				
trans-1,3-Dichloropropene	1.000	0.15	1	0	100	70	130				
Trichloroethene	1.090	0.040	1	0	109	70	130				
Vinyl acetate	0.6800	0.15	1	0	68.0	70	130				
Vinyl Bromide	1.150	0.15	1	0	115	70	130				
Vinyl chloride	0.9700	0.040	1	0	97.0	70	130				

Sample ID	ALCS1UGD-022316	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10690					
Client ID:	ZZZZZ	Batch ID: R10690	TestNo: TQ-15		Analysis Date: 2/24/2016	SeqNo: 125800					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	1.130	0.15	1	0	113	70	130	1.13	0	30	
1,1,2,2-Tetrachloroethane	1.150	0.15	1	0	115	70	130	1.06	8.14	30	
1,1,2-Trichloroethane	1.140	0.15	1	0	114	70	130	1.21	5.96	30	
1,1-Dichloroethane	0.9200	0.15	1	0	92.0	70	130	0.9	2.20	30	
1,1-Dichloroethene	1.210	0.15	1	0	121	70	130	1.11	8.62	30	
1,2,4-Trichlorobenzene	0.7500	0.15	1	0	75.0	70	130	0.74	1.34	30	
1,2,4-Trimethylbenzene	0.9600	0.15	1	0	96.0	70	130	0.79	8.48	30	
1,2-Dibromoethane	1.020	0.15	1	0	102	70	130	0.99	2.99	30	
1,2-Dichlorobenzene	1.010	0.15	1	0	101	70	130	0.96	5.08	30	
1,2-Dichloroethane	0.7900	0.15	1	0	79.0	70	130	0.81	2.50	30	
1,2-Dichloropropane	1.100	0.15	1	0	110	70	130	1.08	1.83	30	
1,3,5-Trimethylbenzene	1.040	0.15	1	0	104	70	130	0.91	13.3	30	
1,3-butadiene	0.8300	0.15	1	0	83.0	70	130	1.02	20.5	30	
1,3-Dichlorobenzene	1.020	0.15	1	0	102	70	130	0.95	6.06	30	
1,4-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130	0.92	3.21	30	
1,4-Dioxane	0.9700	0.30	1	0	97.0	70	130	1.02	6.03	30	
2,2,4-Trimethylpentane	0.9700	0.15	1	0	97.0	70	130	0.92	5.29	30	
4-ethyltoluene	0.9800	0.15	1	0	98.0	70	130	0.93	5.24	30	

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-022316	SampleType	LCSD	TestCode: 0.25CT-TCE-	Units: ppbv	Prop Date:	RunNo. 10690				
Client ID: ZZZZZ	Batch ID: R10690	Yes/No: TD-15		Analysis Date: 2/24/2016			SeqNo: 125800				
Analyte	Result	POL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Acetone	0.9700	0.30	1	0	97.0	70	130	0.96	1.04	30	
Allyl chloride	0.8000	0.15	1	0	80.0	70	130	0.77	3.82	30	
Benzene	1.070	0.15	1	0	107	70	130	1.06	0.939	30	
Benzyl chloride	1.060	0.15	1	0	106	70	130	1.03	2.87	30	
Bromodichloromethane	1.260	0.15	1	0	126	70	130	1.28	1.57	30	
Bromoforn	1.210	0.15	1	0	121	70	130	1.22	0.823	30	
Bromomethane	1.220	0.15	1	0	122	70	130	1.2	1.65	30	
Carbon disulfide	0.9400	0.15	1	0	94.0	70	130	0.95	1.06	30	
Carbon tetrachloride	1.280	0.040	1	0	128	70	130	1.27	0.784	30	
Chlorobenzene	0.9800	0.15	1	0	98.0	70	130	0.99	1.02	30	
Chloroethane	1.030	0.15	1	0	103	70	130	1.11	7.48	30	
Chloroform	0.9200	0.15	1	0	92.0	70	130	0.93	1.06	30	
Chloromethane	0.8400	0.15	1	0	84.0	70	130	0.82	2.41	30	
cis-1,2-Dichloroethene	0.7500	0.15	1	0	75.0	70	130	0.75	0	30	
cis-1,3-Dichloropropene	1.070	0.15	1	0	107	70	130	1.11	3.67	30	
Cyclohexane	0.9000	0.15	1	0	90.0	70	130	0.86	4.55	30	
Dibromochloromethane	1.210	0.15	1	0	121	70	130	1.15	5.08	30	
Ethyl acetate	0.7800	0.25	1	0	78.0	70	130	0.74	5.26	30	
Ethylbenzene	0.8500	0.15	1	0	85.0	70	130	0.89	3.43	30	
Freon 11	1.210	0.15	1	0	121	70	130	1.2	0.830	30	
Freon 113	1.210	0.15	1	0	121	70	130	1.19	1.67	30	
Freon 114	1.080	0.15	1	0	109	70	130	1.05	3.74	30	
Freon 12	1.020	0.15	1	0	102	70	130	0.98	4.00	30	
Heptane	0.8200	0.15	1	0	82.0	70	130	0.77	6.29	30	
Hexachloro-1,3-butadiene	0.9100	0.15	1	0	91.0	70	130	0.87	4.49	30	
Hexane	0.7100	0.15	1	0	71.0	70	130	0.71	0	30	
Isopropyl alcohol	0.8700	0.15	1	0	87.0	70	130	0.83	4.71	30	
m&p-Xylene	1.930	0.30	2	0	96.5	70	130	1.92	0.519	30	
Methyl Butyl Ketone	0.9400	0.30	1	0	94.0	70	130	0.83	12.4	30	
Methyl Ethyl Ketone	0.9400	0.30	1	0	94.0	70	130	0.89	5.46	30	
Methyl Isobutyl Ketone	1.000	0.30	1	0	100	70	130	0.91	9.42	30	

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-022316	Sample Type	LCSD	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10690				
Client ID:	ZZZZZ	Batch ID:	R10690	TestNo: TO-15		Analysis Date: 2/24/2016	SeqNo: 125800				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.7600	0.15	1	0	76.0	70	130	0.78	2.60	30	
Methylene chloride	1.070	0.15	1	0	107	70	130	1.05	1.89	30	
o-Xylene	1.130	0.15	1	0	113	70	130	1.16	2.62	30	
Propylene	0.8200	0.15	1	0	82.0	70	130	0.76	7.59	30	
Styrene	0.9800	0.15	1	0	98.0	70	130	0.93	5.24	30	
Tetrachloroethylene	1.070	0.15	1	0	107	70	130	1.02	4.78	30	
Tetrahydrofuran	0.7300	0.15	1	0	73.0	70	130	0.77	5.33	30	
Toluene	0.9100	0.15	1	0	91.0	70	130	0.89	2.22	30	
trans-1,2-Dichloroethane	0.8000	0.15	1	0	80.0	70	130	0.76	5.13	30	
trans-1,3-Dichloropropene	0.9800	0.15	1	0	98.0	70	130	1	2.02	30	
Trichloroethene	1.080	0.040	1	0	108	70	130	1.09	0.922	30	
Vinyl acetate	0.6700	0.15	1	0	67.0	70	130	0.68	1.48	30	8
Vinyl Bromide	1.200	0.15	1	0	120	70	130	1.15	4.26	30	
Vinyl chloride	0.9900	0.040	1	0	99.0	70	130	0.97	2.04	30	

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits



CENTEK LABORATORIES, LLC

Date: 03-Mar-16

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMBIUG-022316	Sample Type: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID: ZZZZZ		Batch ID: R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125788					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15 ✓	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-Trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analytic detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMBIUG-022316	Sample Type: MBLK	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10690					
Client ID: ZZZZZ		Batch ID: R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125798					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m,p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers: J Results reported are not blank corrected
S Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-022316	SampleType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10680					
Client ID: ZZZZZ		Batch ID: R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125798					
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	SPQLimit	Qual
Toluene	< 0.15	✓	0.15								
trans-1,2-Dichloroethene	< 0.15		0.15								
trans-1,3-Dichloropropene	< 0.15		0.15								
Trichloroethene	< 0.040		0.040								
Vinyl acetate	< 0.15		0.15								
Vinyl Bromide	< 0.15		0.15								
Vinyl chloride	< 0.040		0.040								

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

FI Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Date: 03-Mar-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	C1602050-005A MS	Sample Type: MS	Batch ID: R10890	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690				
Client ID:	Rm 117 Ms/MSD			TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125812				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.130	0.15	1	0	113	70	130				
1,1,2,2-Tetrachloroethane	1.280	0.15	1	0	128	70	130				
1,1,2-Trichloroethane	0.9900	0.15	1	0	99.0	70	130				
1,1-Dichloroethane	0.9100	0.15	1	0	91.0	70	130				
1,1-Dichloroethane	1.120	0.15	1	0	112	70	130				
1,2,4-Trichlorobenzene	0.9100	0.15	1	0	91.0	70	130				
1,2,4-Trimethylbenzene	1.380	0.15	1	0	138	70	130				
1,2-Dibromofluorene	0.9400	0.15	1	0	94.0	70	130				
1,2-Dichlorobenzene	1.290	0.15	1	0	129	70	130				
1,2-Dichloroethane	0.7200	0.15	1	0	72.0	70	130				
1,2-Dichloropropane	0.9800	0.15	1	0	98.0	70	130				
1,3,5-Trimethylbenzene	1.260	0.15	1	0	126	70	130				
1,3-butadiene	1.190	0.15	1	0	119	70	130				
1,3-Dichlorobenzene	1.210	0.15	1	0	121	70	130				
1,4-Dichlorobenzene	1.150	0.15	1	0	115	70	130				
1,4-Dioxane	0.9700	0.30	1	0	97.0	70	130				
2,2,4-trimethylpentane	0.9500	0.15	1	0	95.0	70	130				
4-ethyltoluene	1.130	0.15	1	0	113	70	130				
Acetone	5.170	0.30	1	5.7	-53.0	70	130				
Allyl chloride	0.8400	0.15	1	0	84.0	70	130				
Benzene	1.200	0.15	1	0	120	70	130				
Benzyl chloride	1.100	0.15	1	0	110	70	130				
Bromodichloromethane	1.150	0.15	1	0	115	70	130				
Bromoform	1.090	0.15	1	0	109	70	130				
Bromomethane	1.190	0.15	1	0	119	70	130				

Qualifiers: J Results reported are not blank corrected
S Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID C1602050-005A MS		SampleType: MS	TestCode: 0.25CT-TCE-		Units: ppbv	Prep Date:		RunNo: 10890	
Client ID: Rm 117 Msi/MSD		Batch ID: R10690	TestNo: TO-15			Analysis Date: 2/23/2016		SeqNo: 125812	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit
Carbon disulfide	0.9800	0.15	1	0	98.0	70	130		
Carbon tetrachloride	1.370	0.040	1	0	137	70	130		S
Chlorobenzene	0.8400	0.15	1	0	84.0	70	130		
Chloroethane	1.180	0.15	1	0	118	70	130		
Chloroform	1.120	0.15	1	0	112	70	130		
Chloromethane	1.280	0.15	1	0	128	70	130		
cis-1,2-Dichloroethene	0.7600	0.15	1	0	76.0	70	130		
cis-1,3-Dichloropropene	0.9300	0.15	1	0	93.0	70	130		
Cyclohexane	1.210	0.15	1	0	121	70	130		
Dibromochloromethane	1.120	0.15	1	0	112	70	130		
Ethyl acetate	0.7200	0.25	1	0	72.0	70	130		
Ethylbenzene	0.7700	0.15	1	0	77.0	70	130		
Freon 11	1.510	0.15	1	0	151	70	130		S
Freon 113	1.480	0.15	1	0	148	70	130		S
Freon 114	1.190	0.15	1	0	119	70	130		
Freon 12	1.500	0.15	1	0	150	70	130		S
Heptane	0.8600	0.15	1	0	86.0	70	130		
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	70	130		
Hexane	1.300	0.15	1	0	130	70	130		S
Isopropyl alcohol	2.390	0.15	1	0	239	70	130		
m&p-Xylene	1.760	0.30	2	0	88.0	70	130		
Methyl Butyl Ketone	1.030	0.30	1	0	103	70	130		
Methyl Ethyl Ketone	1.400	0.30	1	0	140	70	130		S
Methyl Isobutyl Ketone	1.140	0.30	1	0	114	70	130		
Methyl tert-butyl ether	0.7000	0.15	1	0	70.0	70	130		
Methylene chloride	1.330	0.15	1	0	133	70	130		S
o-Xylene	1.030	0.15	1	0	103	70	130		
Propylene	1.430	0.15	1	0	143	70	130		S
Styrene	0.8800	0.15	1	0	88.0	70	130		
Tetrachloroethylene	1.140	0.15	1	0	114	70	130		
Tetrahydrofuran	0.7000	0.15	1	0	70.0	70	130		

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantification limits
 S Spike Recovery outside accepted recovery limits

Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Page 2 of 3

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	C1602050-005A.MS	SampType: MS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID:	Rm 117 MS/MSD	Batch ID: R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125812					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual

Toluene	1.840	0.15	1	0	184	70	130				S
trans-1,2-Dichloroethene	0.9300	0.15	1	0	93.0	70	130				
trans-1,3-Dichloropropene	0.8500	0.15	1	0	85.0	70	130				
Trichloroethene	1.050	0.040	1	0	105	70	130				
Vinyl acetate	0.7600	0.15	1	0	70.0	70	130				
Vinyl Bromide	1.180	0.15	1	0	118	70	130				
Vinyl chloride	1.060	0.040	1	0	106	70	130				
Surr: Bromofluorobenzene	1.070	0	1	0	107	70	130				

Sample ID	C1602050-005A MS	SampType: MSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID:	Rm 117 Ms/MSD	Batch ID: R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125813					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	1.060	0.15	1	0	106	70	130	1.13	6.39	30	
1,1,2,2-Tetrachloroethane	1.160	0.15	1	0	116	70	130	1.28	9.84	30	
1,1,2,2-Trichloroethane	1.000	0.15	1	0	100	70	130	0.99	1.01	30	
1,1-Dichloroethane	0.9100	0.15	1	0	91.0	70	130	0.91	0	30	
1,1-Dichloroethane	1.220	0.15	1	0	122	70	130	1.12	8.55	30	
1,2,4-Trichlorobenzene	0.7900	0.15	1	0	79.0	70	130	0.91	14.1	30	
1,2,4-Trimethylbenzene	1.270	0.15	1	0	127	70	130	1.38	8.30	30	
1,2-Dibromoothane	0.9300	0.15	1	0	93.0	70	130	0.94	1.07	30	
1,2-Dichlorobenzene	1.190	0.15	1	0	119	70	130	1.29	8.06	30	
1,2-Dichloroethane	0.7700	0.15	1	0	77.0	70	130	0.72	6.71	30	
1,2-Dichloropropane	0.9900	0.15	1	0	99.0	70	130	0.98	1.02	30	
1,3,5-Trimethylbenzene	1.170	0.15	1	0	117	70	130	1.26	7.41	30	
1,3-butadiene	1.120	0.15	1	0	112	70	130	1.19	6.06	30	
1,3-Dichlorobenzene	1.120	0.15	1	0	112	70	130	1.21	7.73	30	
1,4-Dichlorobenzene	1.040	0.15	1	0	104	70	130	1.15	10.0	30	
1,4-Dioxane	0.8800	0.30	1	0	88.0	70	130	0.97	9.73	30	
2,2,4-Trimethylpentane	0.9400	0.15	1	0	94.0	70	130	0.95	1.06	30	

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1602030

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	C1602050-005A MS	MSD	Sample Type	MSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690			
Client ID:	Rm 147 MS/MSD	Batch ID: R10690			TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125813			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPOLimit	Qual
4-ethyltoluene	1.150	0.15	1	0	115	70	130	1.13	1.75	30	
Acetone	5.160	0.30	1	5.7	-54.0	70	130	5.17	0.194	30	S
Allyl chloride	0.8700	0.15	1	0	87.0	70	130	0.84	3.51	30	
Benzene	1.350	0.15	1	0	135	70	130	1.2	11.8	30	S
Benzyl chloride	1.030	0.15	1	0	103	70	130	1.1	6.57	30	
Bromodichloromethane	1.120	0.15	1	0	112	70	130	1.15	2.64	30	
Bromoform	1.100	0.15	1	0	110	70	130	1.09	0.913	30	
Bromomethane	1.220	0.15	1	0	122	70	130	1.19	2.49	30	
Carbon disulfide	0.9500	0.15	1	0	95.0	70	130	0.98	2.06	30	
Carbon tetrachloride	1.320	0.040	1	0	132	70	130	1.37	3.72	30	S
Chlorobenzene	0.8600	0.15	1	0	86.0	70	130	0.84	2.35	30	
Chloroethane	1.120	0.15	1	0	112	70	130	1.18	5.22	30	
Chloroform	1.110	0.15	1	0	111	70	130	1.12	0.897	30	
Chloromethane	1.200	0.15	1	0	120	70	130	1.26	4.88	30	
cis-1,2-Dichloroethane	0.8100	0.15	1	0	81.0	70	130	0.76	6.37	30	
cis-1,3-Dichloropropene	0.9400	0.15	1	0	94.0	70	130	0.93	1.07	30	
Cyclohexane	1.160	0.15	1	0	116	70	130	1.21	4.22	30	
Dibromochloromethane	1.200	0.15	1	0	120	70	130	1.12	6.90	30	
Ethyl acetate	0.7700	0.25	1	0	77.0	70	130	0.72	6.71	30	
Ethylbenzene	0.8000	0.15	1	0	80.0	70	130	0.77	3.82	30	
Freon 11	1.410	0.15	1	0	141	70	130	1.51	6.85	30	S
Freon 113	1.390	0.15	1	0	139	70	130	1.48	6.27	30	S
Freon 114	1.040	0.15	1	0	104	70	130	1.19	13.5	30	
Freon 12	1.450	0.15	1	0	145	70	130	1.5	3.39	30	S
Heptane	0.9400	0.15	1	0	94.0	70	130	0.88	6.59	30	
Hexachlore-1,3-butadiene	1.020	0.15	1	0	102	70	130	1.08	5.71	30	
Hexane	1.340	0.15	1	0	134	70	130	1.3	3.03	30	S
Isopropyl alcohol	2.100	0.15	1	0	210	70	130	2.39	12.9	30	
m&p-Xylene	1.800	0.30	2	0	90.0	70	130	1.78	2.25	30	
Methyl Butyl Ketone	0.9300	0.30	1	0	93.0	70	130	1.03	10.2	30	
Methyl Ethyl Ketone	1.310	0.30	1	0	131	70	130	1.4	6.64	30	S

Qualifiers:

Results reported are not blank corrected

J Analyte detected at or below quantitation limits

S Spike Recovery outside accepted recovery limits

E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID C1602050-005A MS		SampType: MSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID: Rm 117 MsMSD		Batch ID: R10680	TestNo: TO-15	Analysis Date: 2/23/2016	SeqNo: 125813						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPQLimit	Qual
Methyl Isobutyl Ketone	1.020	0.30	1	0	102	70	130	1.14	11.1	30	
Methyl tert-butyl ether	0.7000	0.15	1	0	70.0	70	130	0.7	0	30	
Methylene chloride	1.340	0.15	1	0	134	70	130	1.33	0.749	30	S
o-Xylene	1.000	0.15	1	0	100	70	130	1.03	2.96	30	
Propylene	1.480	0.15	1	0	148	70	130	1.43	3.44	30	S
Styrene	0.8600	0.15	1	0	86.0	70	130	0.88	2.30	30	
Tetrachloroethylene	1.140	0.15	1	0	114	70	130	1.14	0	30	
Tetrahydrofuran	0.7700	0.15	1	0	77.0	70	130	0.7	9.52	30	
Toluene	1.860	0.15	1	0	186	70	130	1.84	1.08	30	S
Trans-1,2-Dichloroethene	0.8700	0.15	1	0	87.0	70	130	0.83	6.67	30	
Trans-1,3-Dichloropropene	0.8400	0.15	1	0	84.0	70	130	0.85	1.18	30	
Trichloroethene	1.050	0.040	1	0	105	70	130	1.05	0	30	
Vinyl acetate	0.7800	0.15	1	0	78.0	70	130	0.7	10.8	30	
Vinyl Bromide	1.150	0.15	1	0	115	70	130	1.18	2.58	30	
Vinyl chloride	0.9500	0.040	1	0	95.0	70	130	1.06	10.9	30	
Surr: Bromofluorobenzene	1.070	0	1	0	107	70	130	0	0	30	

Qualifiers:	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

EFD

Data File : C:\HPCHEM\1\DATA\AN020401.D

Vial: 11

Acq On : 4 Feb 2016 8:43 am

Operator: RJP

Sample : BFB1UG

Inst : MSD #1

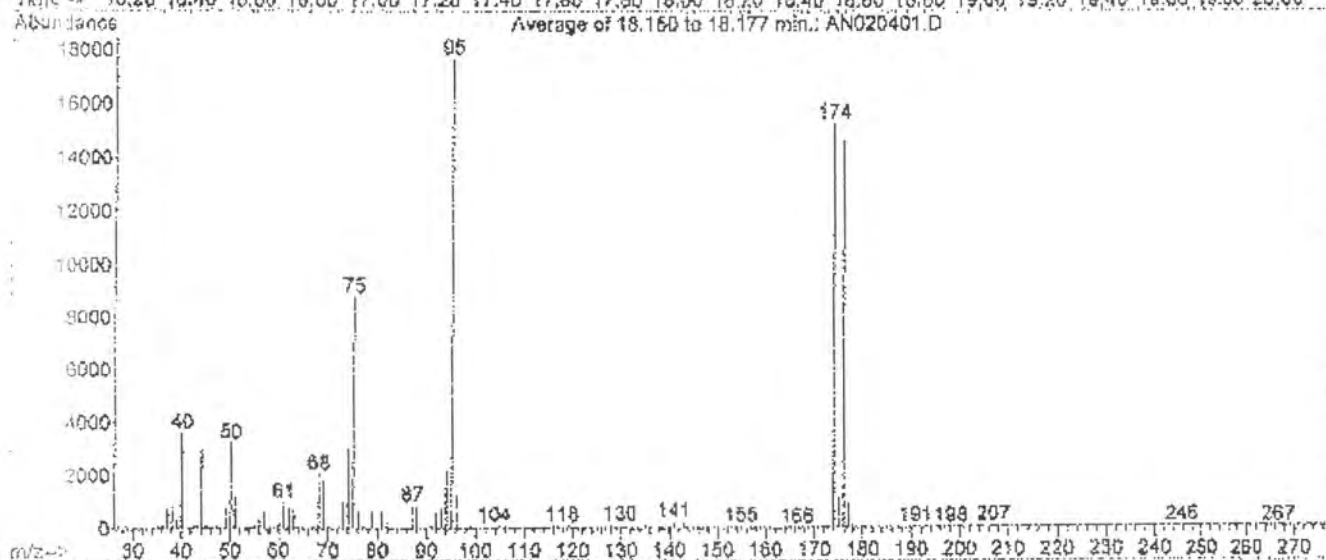
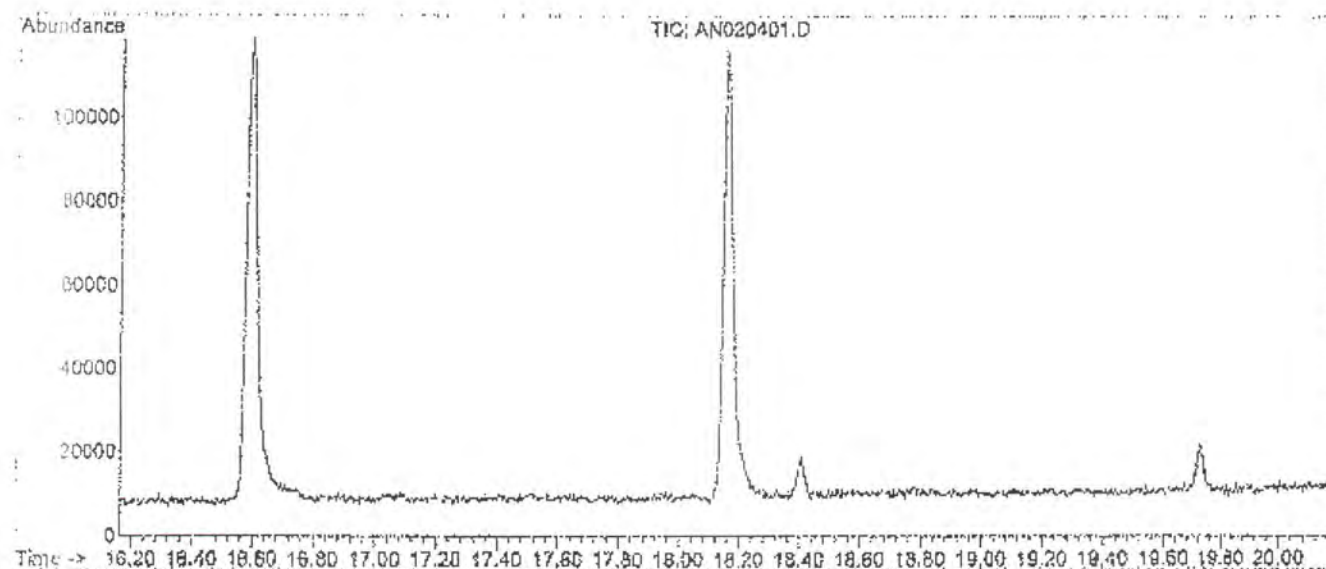
Misc : A131_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TC-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 18.150 to 18.177 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.3 ✓	3242	PASS
75	95	30	66	49.8 ✓	8816	PASS
95	95	100	100	100.0 ✓	17690	PASS
96	95	5	9	7.0 ✓	1235	PASS
173	174	0.00	2	0.4 ✓	55	PASS
174	95	50	120	85.3 ✓	15252	PASS
175	174	4	9	7.3 ✓	1107	PASS
176	174	95	101	96.2 ✓	14681	PASS
177	176	5	9	6.4 ✓	936	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AN022302.D

Vial: 2

Acq On : 23 Feb 2016 10:11 am

Operator: RJP

Sample : BFB1UG

Inst : MSD #1

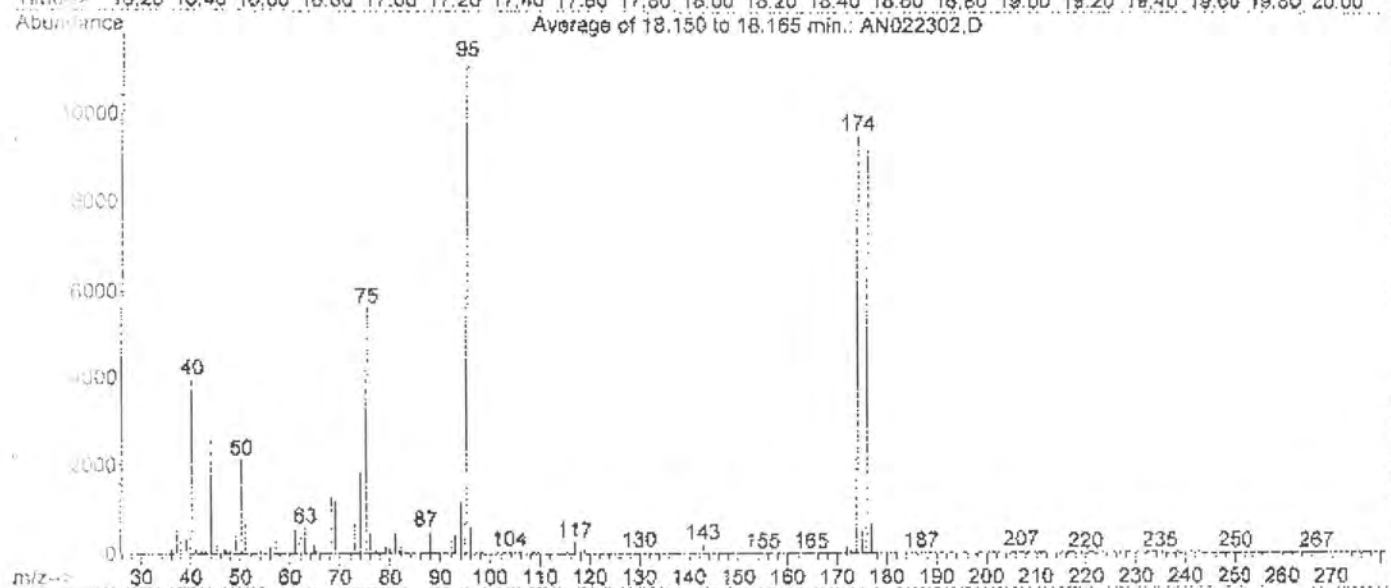
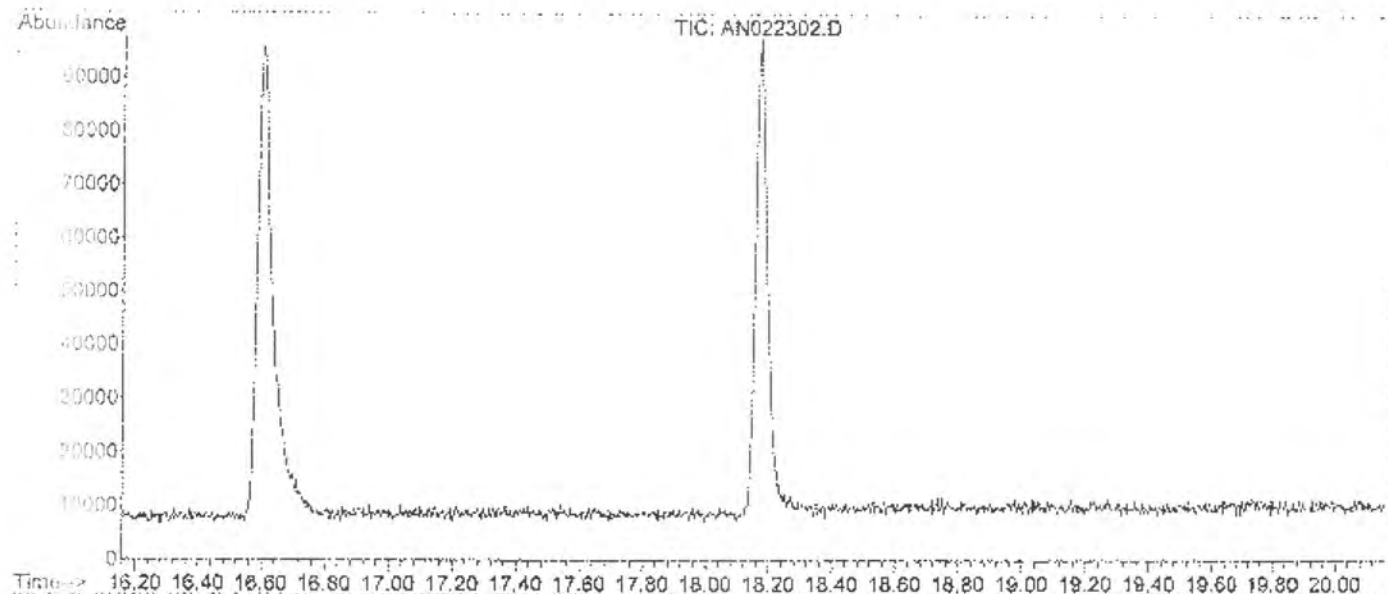
Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 18.150 to 18.165 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.0	2126	PASS
75	95	30	66	50.4	5630	PASS
95	95	100	100	100.0	11181	PASS
174	95	5	9	5.4	608	PASS
174	174	0.00	2	0.8	79	PASS
175	95	50	120	85.3	9539	PASS
175	174	4	9	5.1	490	PASS
176	174	95	101	96.7	9221	PASS
177	176	5	9	7.3	669	PASS

TO-15 Package Review Checklist

Client: LaBella Project: 690 St. Paul SDG: C/602050

		YES	NO	NA
Analytical Results	Present and Complete	✓	—	—
TIC's present	Present and Complete	✓	—	—
	Holding Times Met	✓	—	—

Comments: _____

Chain-of-Custody	Present and Complete			
Surrogate Recovery	Present and Complete			
	Recoveries within limits			
	Sample(s) reanalyzed			
Internal Standards Recovery	Present and Complete			
	Recoveries within limits			
	Sample(s) reanalyzed			

Comments: _____

Lab Control Sample (LCS)	Present and Complete Recoveries within limits	<u>✓</u>	<u> </u>	<u> </u>
Lab Control Sample Dupe (LCSD)	Present and Complete Recoveries within limits	<u>✓</u>	<u> </u>	<u> </u>
MS/MSD	Present and Complete Recoveries within limits	<u>✓</u>	<u> </u>	<u> </u>

Comments: * SEE CASE NARRATIVE

Sample Raw Data	Present and Complete	☒	☐	☐
	Spectra present for all samples	☒	☐	☐

Comments: _____

TO-15 Package Review Checklist

Client: La Bella Project: 690 St. Paul SDG: C1602050

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	☒	☐	☐
	Calibration(s) met criteria	☒	☐	☐
Continuing Calibration Summary	Present and Complete	☒	☐	☐
	Calibration(s) met criteria	☒	☐	☐
Standards Raw Data	Present and Complete	☒	☐	☐

Comments: _____

		YES	NO	NA
Raw Quality Control Data				
Tune Criteria Report	Present and Complete	☒	☐	☐
Method Blank Data	MB Results <PQL	☒	☐	☐
	Associated results flagged "B"	☐	☐	☒
LCS sample data	Present and Complete	☒	☐	☐
LCSD sample data	Present and Complete	☒	☐	☐
MS/MSD sample data	Present and Complete	☐	☐	☒

Comments: _____

		YES	NO	NA
Logbooks				
Injection Log	Present and Complete	☒	☐	☐
Standards Log	Present and Complete	☒	☐	☐
Can Cleaning Log	Present and Complete	☒	☐	☐
	Raw Data Present	☒	☐	☐
Calculation sheet	Present and Complete	☒	☐	☐
IDL's	Present and Complete	☒	☐	☐
Bottle Order Form	Present and Complete	☒	☐	☐
Sample Tracking Form	Present and Complete	☒	☐	☐

Additional Comments: * SEE CASE NARRATIVE

Section Supervisor: Walt Dahl Date: 3/9/16

QC Supervisor: Walt Dahl Date: 3/9/16



CEN TEK LABORATORIES, LLC

143 Midler Park Drive • Syracuse, NY 13206

Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752

NYSDOH ELAP

Certificate No. 11830

Analytical Report

Daniel Noll
LaBella Associates, P.C.
300 State Street, Suite 201
Rochester, NY 14614

Friday, February 26, 2016
Order No.: C1602050

TEL: (585) 454-6110
FAX (585) 454-3066
RE: 690 St Paul

Dear Daniel Noll:

Centek Laboratories, LLC received 8 sample(s) on 2/19/2016 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Centek Laboratories SOP TS-80

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

This report cannot be reproduced except in its entirety, without prior written authorization.

Sincerely,



William Dobbin
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, 4-PCH, sulfur derived and silicon series compounds.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:

Same day TAT = 200%

Next business day TAT by Noon = 150%

Next business day TAT by 6:00pm = 100%

Second business day TAT by 6:00pm = 75%

Third business day TAT by 6:00pm = 50%

Fourth business day TAT by 6:00pm = 35%

Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

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direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE

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CENTEK LABORATORIES, LLC

Date: 09-Mar-16

CLIENT: LaBella Associates, P.C.

Project: 690 St Paul

Lab Order: C1602050

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (± 2 ", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (± 1 ", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg, ± 1 ". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

See Corrective Action: [3331] No sample collected

See Corrective Action: [3333] MS/MSD did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 19-Feb-16
Initiated By: Janice Scala

Corrective Action Report ID: 3331
Department: LOGIN

Corrective Action Description

CAR Summary: No sample collected

Description of Nonconformance: No sample was collected for Geuva out canister.
Root/Cause(s):

Description of Corrective Action w/Proposed C.A.: Contacted Dan Noll about the discrepancy and he requested that both Geuva in & out samples had to be sampled at the same time and remove both samples from being analyzed.

Performed By: Russell Pellegrino

Completion Date: 20-Feb-16

Client Notification

Client Notification Required: Yes Notified By: Russell Pellegrino

Comment: No sample was collected for Geuva out canister.

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: Dan will resample both locations over again and resubmitt samples.

Approval and Closure

Technical Director /
Deputy Tech. Dir.:



William Dobbin

Close Date: 20-Feb-16

QA Officer Approval:



Nick Scala

QA Date: 20-Feb-16

Last Updated BY russ

Updated: 09-Mar-2016 11:18 AM

Reported: 09-Mar-2016 11:18 A

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 23-Feb-16

Corrective Action Report ID: 3333

Initiated By: Russell Pellegrino

Department: MSVOA

Corrective Action Description

CAR Summary: MS/MSD did not meet criteria.

Description of Nonconformance Root/Cause(s): MS/MSD did not meet criteria for a few compounds for samples C1602050-005A MS/MSD. Based on the chromatographic evidence this is most likely due to servere matrix interference.

Description of Corrective Action w/Proposed C.A.: Since MS/MSD show similar results at this time no further corrective action taken. All other QC meets criteria. The samples show many hits in the matrix which will interfere with spike results. All sets of data submitted

Performed By: Russell Pellegrino

Completion Date: 24-Feb-16

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: Monitor all quality control for sample matrix interference. At this time no further corrective action taken. All sets of data submitted.

Approval and Closure

Technical Director /
Deputy Tech. Dir.:

Close Date: 25-Feb-16

William Dobbin

QA Officer Approval:



QA Date: 25-Feb-16

Nick Scala

Last Updated BY russ

Updated: 09-Mar-2016 11:20 AM

Reported: 09-Mar-2016 11:20 A

**CEN TEK LABORATORIES, LLC**

Date: 09-Mar-16

CLIENT: LaBella Associates, P.C.

Project: 690 St Paul

Lab Order: C1602050

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1602050-001A	Roof	350,265	2/17/2016	2/19/2016
C1602050-002A	Rm 134	222,267	2/17/2016	2/19/2016
C1602050-003A	Rm 117	561,146	2/17/2016	2/19/2016
C1602050-004A	Rm 117 Dup	347,146	2/17/2016	2/19/2016
C1602050-005A	Rm 117 Ms/MSD	1208,1165	2/17/2016	2/19/2016
C1602050-006A	Rm 107	190,349	2/17/2016	2/19/2016
C1602050-007A	Rm 112	568,249	2/17/2016	2/19/2016

CLIENT: LaBella Associates, P.C.
Project: 690 St Paul
Lab Order: C1602050

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1602050-008A	Elevator	241,1168	2/17/2016	2/19/2016



CENTEK LABORATORIES, LLC

Sample Receipt Checklist

Client Name LABELLA - ROCHESTER

Date and Time Receive

2/19/2016

Work Order Number C1602050

Received by JDS

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Carrier name FedEx Ground

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Water - VOA vials have zero headspace? Yes ☒ No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☐ No ☒

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Centek Laboratories, LLC

09-Mar-16

Lab Order: C1602050

Client: LaBella Associates, P.C.

Project: 690 St Paul

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1602050-001A	Roof	2/17/2016	Air	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/24/2016
C1602050-002A	Rm 134			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/23/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/23/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/24/2016
C1602050-003A	Rm 117			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/23/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/24/2016
C1602050-004A	Rm 117 Dap			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/24/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/23/2016
C1602050-005A	Rm 117 Ms/MSD			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/24/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/23/2016
C1602050-006A	Rm 107			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/23/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/24/2016
C1602050-007A	Rm 112			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/24/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/24/2016
C1602050-008A	Elevator			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/24/2016
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			2/24/2016

**CEN TEK LABORATORIES, LLC***Air Quality Testing...It's a Gas*

143 Midler Park Drive * Syracuse, NY 13206
 TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER**5614**

09-Mar-16

SHIPPED TO:

Company: LaBella Associates, P.C.
 Contact: Michael Pelychaty
 Address: 300 State Street, Suite 201
 Rochester, NY 14614
 Phone: (585) 454-6110
 Quote ID: 0
 Project:
 PO:

Submitted By:

MadeBy: NM

Ship Date: 2/8/2016

VIA: FedEx Ground

Due Date: 2/9/2016

Bottle Code	Bottle Type	TEST(s)	QTY
MC1400CC	1.4L Mini-Can	1ug/M3 by Method TO15	1
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	10

Can / Reg ID	Description
95	1L Mini-Can - 1087 VI
146	Time-Set Reg - 641 VI
190	1L Mini-Can - 1145 VI
222	1L Mini-Can - 1184 VI
241	1L Mini-Can - 1173 VI
249	Time-Set Reg - 687 VI
265	Time-Set Reg - 703 VI
267	Time-Set Reg - 705 VI
292	Time-Set Reg - 715 VI
296	Time-Set Reg - 719 VI
342	Time-Set Reg - 739 VI
347	1L Mini-Can - 1269 VI
350	1L Mini-Can - 1272 VI
561	1L Mini-Can - 130 VI
562	1L Mini-Can - 132 VI
568	1L Mini-Can - 140 VI
1160	Time-Set Reg-0673 VI
1165	Time-Set Reg-0678 VI
1168	Time-Set Reg-0793 VI
1208	1.4L Mini-Can - 1375 VI
1289	1 L Mini-Can - VI

Comments: (2) 1L @ 8hrs, (8) 1L @ 6hrs (W/ dupe), (1) MS/MSD @ 6hrs WAC 121515D-E, 020316 A-F

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-001A

Client Sample ID: Roof
 Tag Number: 350,265
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-10			"Hg		Analyst: 2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			FLD			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 8:54:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Acetone	6.8	1.5		ppbV	5	2/24/2016 2:40:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Benzene	0.34	0.15		ppbV	1	2/23/2016 8:54:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Carbon tetrachloride	0.15	0.040		ppbV	1	2/23/2016 8:54:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Chloroform	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Chloromethane	0.46	0.15		ppbV	1	2/23/2016 8:54:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Cyclohexane	0.33	0.15		ppbV	1	2/23/2016 8:54:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 8:54:00 PM

Qualifiers:	**	Reporting Limit		Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank		E Value above quantitation range
	H	Holding times for preparation or analysis exceeded		J Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.		ND Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: Roof

Lab Order: C1602050

Tag Number: 350,265

Project: 690 St Paul

Collection Date: 2/17/2016

Lab ID: C1602050-001A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Freon 11	0.35	0.15		ppbV	1	2/23/2016 8:54:00 PM
Freon 113	0.13	0.15	J	ppbV	1	2/23/2016 8:54:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Freon 12	0.65	0.15		ppbV	1	2/23/2016 8:54:00 PM
Heptane	0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Hexane	0.93	0.15		ppbV	1	2/23/2016 8:54:00 PM
Isopropyl alcohol	1.2	0.15		ppbV	1	2/23/2016 8:54:00 PM
m&p-Xylene	0.20	0.30	J	ppbV	1	2/23/2016 8:54:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 8:54:00 PM
Methyl Ethyl Ketone	0.52	0.30		ppbV	1	2/23/2016 8:54:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 8:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Methylene chloride	0.38	0.15		ppbV	1	2/23/2016 8:54:00 PM
o-Xylene	0.10	0.15	J	ppbV	1	2/23/2016 8:54:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Toluene	0.92	0.15		ppbV	1	2/23/2016 8:54:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	2/23/2016 8:54:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 8:54:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	2/23/2016 8:54:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: Roof

Lab Order: C1602050

Tag Number: 350,265

Project: 690 St Paul

Collection Date: 2/17/2016

Lab ID: C1602050-001A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 8:54:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 8:54:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 8:54:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 8:54:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 8:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 8:54:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 8:54:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 8:54:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/23/2016 8:54:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 8:54:00 PM
Acetone	16	3.6		ug/m3	5	2/24/2016 2:40:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 8:54:00 PM
Benzene	1.1	0.48		ug/m3	1	2/23/2016 8:54:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 8:54:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 8:54:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 8:54:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 8:54:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 8:54:00 PM
Carbon tetrachloride	0.94	0.25		ug/m3	1	2/23/2016 8:54:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 8:54:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 8:54:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	2/23/2016 8:54:00 PM
Chloromethane	0.95	0.31		ug/m3	1	2/23/2016 8:54:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 8:54:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 8:54:00 PM
Cyclohexane	1.1	0.52		ug/m3	1	2/23/2016 8:54:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 8:54:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/23/2016 8:54:00 PM
Freon 11	2.0	0.84		ug/m3	1	2/23/2016 8:54:00 PM
Freon 113	1.0	1.1	J	ug/m3	1	2/23/2016 8:54:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 8:54:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-001A

Client Sample ID: Roof
 Tag Number: 350,265
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
Freon 12	3.2	0.74		ug/m3	1	2/23/2016 8:54:00 PM
Heptane	0.61	0.61		ug/m3	1	2/23/2016 8:54:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 8:54:00 PM
Hexane	3.3	0.53		ug/m3	1	2/23/2016 8:54:00 PM
Isopropyl alcohol	3.0	0.37		ug/m3	1	2/23/2016 8:54:00 PM
m&p-Xylene	0.87	1.3	J	ug/m3	1	2/23/2016 8:54:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 8:54:00 PM
Methyl Ethyl Ketone	1.5	0.88		ug/m3	1	2/23/2016 8:54:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 8:54:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 8:54:00 PM
Methylene chloride	1.3	0.52		ug/m3	1	2/23/2016 8:54:00 PM
o-Xylene	0.43	0.65	J	ug/m3	1	2/23/2016 8:54:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 8:54:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 8:54:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 8:54:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 8:54:00 PM
Toluene	3.5	0.57		ug/m3	1	2/23/2016 8:54:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 8:54:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 8:54:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	2/23/2016 8:54:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 8:54:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 8:54:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 8:54:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-002A

Client Sample ID: Rm 134
 Tag Number: 222,267
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-2			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			FLD			Analyst:
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2,4-Trimethylbenzene	0.16	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 9:33:00 PM
2,2,4-trimethylpentane	0.25	0.15		ppbV	1	2/23/2016 9:33:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Acetone	6.0	1.5		ppbV	5	2/24/2016 3:17:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Benzene	0.41	0.15		ppbV	1	2/23/2016 9:33:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Carbon tetrachloride	0.14	0.040		ppbV	1	2/23/2016 9:33:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Chloroform	0.24	0.15		ppbV	1	2/23/2016 9:33:00 PM
Chloromethane	0.55	0.15		ppbV	1	2/23/2016 9:33:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Cyclohexane	0.20	0.15		ppbV	1	2/23/2016 9:33:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 9:33:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 134

Lab Order: C1602050

Tag Number: 222,267

Project: 690 St Paul

Collection Date: 2/17/2016

Lab ID: C1602050-002A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
Ethylbenzene	0.13	0.15	J	ppbV	1	2/23/2016 9:33:00 PM
Freon 11	0.35	0.15		ppbV	1	2/23/2016 9:33:00 PM
Freon 113	0.12	0.15	J	ppbV	1	2/23/2016 9:33:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Freon 12	0.63	0.15		ppbV	1	2/23/2016 9:33:00 PM
Heptane	0.24	0.15		ppbV	1	2/23/2016 9:33:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Hexane	0.73	0.15		ppbV	1	2/23/2016 9:33:00 PM
Isopropyl alcohol	2.0	0.15		ppbV	1	2/23/2016 9:33:00 PM
m&p-Xylene	0.54	0.30		ppbV	1	2/23/2016 9:33:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 9:33:00 PM
Methyl Ethyl Ketone	0.58	0.30		ppbV	1	2/23/2016 9:33:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 9:33:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Methylene chloride	0.47	0.15		ppbV	1	2/23/2016 9:33:00 PM
o-Xylene	0.19	0.15		ppbV	1	2/23/2016 9:33:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Toluene	0.94	0.15		ppbV	1	2/23/2016 9:33:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Trichloroethene	0.060	0.040		ppbV	1	2/23/2016 9:33:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 9:33:00 PM
Surr: Bromofluorobenzene	92.0	70-130		%REC	1	2/23/2016 9:33:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-002A

Client Sample ID: Rm 134
 Tag Number: 222,267
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 9:33:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 9:33:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 9:33:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 9:33:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 9:33:00 PM
1,2,4-Trimethylbenzene	0.79	0.74		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 9:33:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 9:33:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 9:33:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 9:33:00 PM
2,2,4-trimethylpentane	1.2	0.70		ug/m3	1	2/23/2016 9:33:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 9:33:00 PM
Acetone	14	3.6		ug/m3	5	2/24/2016 3:17:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 9:33:00 PM
Benzene	1.3	0.48		ug/m3	1	2/23/2016 9:33:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 9:33:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 9:33:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 9:33:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 9:33:00 PM
Carbon tetrachloride	0.88	0.25		ug/m3	1	2/23/2016 9:33:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 9:33:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 9:33:00 PM
Chloroform	1.2	0.73		ug/m3	1	2/23/2016 9:33:00 PM
Chloromethane	1.1	0.31		ug/m3	1	2/23/2016 9:33:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 9:33:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 9:33:00 PM
Cyclohexane	0.69	0.52		ug/m3	1	2/23/2016 9:33:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 9:33:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
Ethylbenzene	0.56	0.65	J	ug/m3	1	2/23/2016 9:33:00 PM
Freon 11	2.0	0.84		ug/m3	1	2/23/2016 9:33:00 PM
Freon 113	0.92	1.1	J	ug/m3	1	2/23/2016 9:33:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-002A

Client Sample ID: Rm 134
 Tag Number: 222,267
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15		Analyst: RJP	
Freon 12	3.1	0.74		ug/m3	1	2/23/2016 9:33:00 PM
Heptane	0.98	0.61		ug/m3	1	2/23/2016 9:33:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 9:33:00 PM
Hexane	2.6	0.53		ug/m3	1	2/23/2016 9:33:00 PM
Isopropyl alcohol	4.9	0.37		ug/m3	1	2/23/2016 9:33:00 PM
m&p-Xylene	2.3	1.3		ug/m3	1	2/23/2016 9:33:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 9:33:00 PM
Methyl Ethyl Ketone	1.7	0.88		ug/m3	1	2/23/2016 9:33:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 9:33:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 9:33:00 PM
Methylene chloride	1.6	0.52		ug/m3	1	2/23/2016 9:33:00 PM
o-Xylene	0.82	0.65		ug/m3	1	2/23/2016 9:33:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 9:33:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 9:33:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 9:33:00 PM
Toluene	3.5	0.57		ug/m3	1	2/23/2016 9:33:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 9:33:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 9:33:00 PM
Trichloroethene	0.32	0.21		ug/m3	1	2/23/2016 9:33:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 9:33:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 9:33:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 9:33:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-003A

Client Sample ID: Rm 117
 Tag Number: 561,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
				FLD		Analyst:
Lab Vacuum In	-2			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
				TO-15		Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	2/23/2016 10:12:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 10:12:00 PM
2,2,4-trimethylpentane	2.1	0.75		ppbV	5	2/24/2016 3:53:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Acetone	5.0	1.5		ppbV	5	2/24/2016 3:53:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Benzene	1.2	0.15		ppbV	1	2/23/2016 10:12:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Carbon tetrachloride	0.13	0.040		ppbV	1	2/23/2016 10:12:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Chloroform	0.26	0.15		ppbV	1	2/23/2016 10:12:00 PM
Chloromethane	0.62	0.15		ppbV	1	2/23/2016 10:12:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Cyclohexane	0.44	0.15		ppbV	1	2/23/2016 10:12:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 10:12:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-003A

Client Sample ID: Rm 117
 Tag Number: 561,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	0.11	0.15	J	ppbV	1	2/23/2016 10:12:00 PM
Freon 11	0.36	0.15		ppbV	1	2/23/2016 10:12:00 PM
Freon 113	0.13	0.15	J	ppbV	1	2/23/2016 10:12:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Freon 12	0.66	0.15		ppbV	1	2/23/2016 10:12:00 PM
Heptane	0.55	0.15		ppbV	1	2/23/2016 10:12:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Hexane	0.86	0.15		ppbV	1	2/23/2016 10:12:00 PM
Isopropyl alcohol	2.0	0.15		ppbV	1	2/23/2016 10:12:00 PM
m&p-Xylene	0.23	0.30	J	ppbV	1	2/23/2016 10:12:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 10:12:00 PM
Methyl Ethyl Ketone	0.53	0.30		ppbV	1	2/23/2016 10:12:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 10:12:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Methylene chloride	0.39	0.15		ppbV	1	2/23/2016 10:12:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Toluene	0.89	0.15		ppbV	1	2/23/2016 10:12:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Trichloroethene	0.080	0.040		ppbV	1	2/23/2016 10:12:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 10:12:00 PM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	2/23/2016 10:12:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-003A

Client Sample ID: Rm 117
 Tag Number: 561,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:12:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:12:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:12:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:12:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 10:12:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 10:12:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 10:12:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 10:12:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 10:12:00 PM
2,2,4-trimethylpentane	9.8	3.5		ug/m3	5	2/24/2016 3:53:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 10:12:00 PM
Acetone	12	3.6		ug/m3	5	2/24/2016 3:53:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 10:12:00 PM
Benzene	3.9	0.48		ug/m3	1	2/23/2016 10:12:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 10:12:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 10:12:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 10:12:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 10:12:00 PM
Carbon tetrachloride	0.82	0.25		ug/m3	1	2/23/2016 10:12:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 10:12:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 10:12:00 PM
Chloroform	1.3	0.73		ug/m3	1	2/23/2016 10:12:00 PM
Chloromethane	1.3	0.31		ug/m3	1	2/23/2016 10:12:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:12:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:12:00 PM
Cyclohexane	1.5	0.52		ug/m3	1	2/23/2016 10:12:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 10:12:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
Ethylbenzene	0.48	0.65	J	ug/m3	1	2/23/2016 10:12:00 PM
Freon 11	2.0	0.84		ug/m3	1	2/23/2016 10:12:00 PM
Freon 113	1.0	1.1	J	ug/m3	1	2/23/2016 10:12:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-003A

Client Sample ID: Rm 117
 Tag Number: 561,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	3.3	0.74		ug/m3	1	2/23/2016 10:12:00 PM
Heptane	2.3	0.61		ug/m3	1	2/23/2016 10:12:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 10:12:00 PM
Hexane	3.0	0.53		ug/m3	1	2/23/2016 10:12:00 PM
Isopropyl alcohol	5.0	0.37		ug/m3	1	2/23/2016 10:12:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	2/23/2016 10:12:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:12:00 PM
Methyl Ethyl Ketone	1.6	0.88		ug/m3	1	2/23/2016 10:12:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:12:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 10:12:00 PM
Methylene chloride	1.4	0.52		ug/m3	1	2/23/2016 10:12:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	2/23/2016 10:12:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 10:12:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 10:12:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 10:12:00 PM
Toluene	3.4	0.57		ug/m3	1	2/23/2016 10:12:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:12:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:12:00 PM
Trichloroethene	0.43	0.21		ug/m3	1	2/23/2016 10:12:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 10:12:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 10:12:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 10:12:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 , Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Page 6 of 16

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-004A

Client Sample ID: Rm 117 Dup
 Tag Number: 347,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-2			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	2/23/2016 10:51:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 10:51:00 PM
2,2,4-trimethylpentane	0.11	0.15	J	ppbV	1	2/23/2016 10:51:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Acetone	5.2	1.5		ppbV	5	2/24/2016 4:30:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Benzene	0.35	0.15		ppbV	1	2/23/2016 10:51:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Carbon tetrachloride	0.13	0.040		ppbV	1	2/23/2016 10:51:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Chloroform	0.24	0.15		ppbV	1	2/23/2016 10:51:00 PM
Chloromethane	0.58	0.15		ppbV	1	2/23/2016 10:51:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Cyclohexane	0.54	0.15		ppbV	1	2/23/2016 10:51:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 10:51:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-004A

Client Sample ID: Rm 117 Dup
 Tag Number: 347,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Freon 11	0.36	0.15		ppbV	1	2/23/2016 10:51:00 PM
Freon 113	0.12	0.15	J	ppbV	1	2/23/2016 10:51:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Freon 12	0.65	0.15		ppbV	1	2/23/2016 10:51:00 PM
Heptane	0.17	0.15		ppbV	1	2/23/2016 10:51:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Hexane	0.56	0.15		ppbV	1	2/23/2016 10:51:00 PM
Isopropyl alcohol	2.1	0.15		ppbV	1	2/23/2016 10:51:00 PM
m&p-Xylene	0.25	0.30	J	ppbV	1	2/23/2016 10:51:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 10:51:00 PM
Methyl Ethyl Ketone	0.46	0.30		ppbV	1	2/23/2016 10:51:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 10:51:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Methylene chloride	0.41	0.15		ppbV	1	2/23/2016 10:51:00 PM
o-Xylene	0.16	0.15		ppbV	1	2/23/2016 10:51:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Toluene	0.83	0.15		ppbV	1	2/23/2016 10:51:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Trichloroethene	0.080	0.040		ppbV	1	2/23/2016 10:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 10:51:00 PM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	2/23/2016 10:51:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-004A

Client Sample ID: Rm 117 Dup
 Tag Number: 347,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:51:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:51:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:51:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:51:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 10:51:00 PM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 10:51:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 10:51:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 10:51:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 10:51:00 PM
2,2,4-trimethylpentane	0.51	0.70	J	ug/m3	1	2/23/2016 10:51:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 10:51:00 PM
Acetone	12	3.6		ug/m3	5	2/24/2016 4:30:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 10:51:00 PM
Benzene	1.1	0.48		ug/m3	1	2/23/2016 10:51:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 10:51:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 10:51:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 10:51:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 10:51:00 PM
Carbon tetrachloride	0.82	0.25		ug/m3	1	2/23/2016 10:51:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 10:51:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 10:51:00 PM
Chloroform	1.2	0.73		ug/m3	1	2/23/2016 10:51:00 PM
Chloromethane	1.2	0.31		ug/m3	1	2/23/2016 10:51:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:51:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:51:00 PM
Cyclohexane	1.9	0.52		ug/m3	1	2/23/2016 10:51:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 10:51:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/23/2016 10:51:00 PM
Freon 11	2.0	0.84		ug/m3	1	2/23/2016 10:51:00 PM
Freon 113	0.92	1.1	J	ug/m3	1	2/23/2016 10:51:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated,
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 117 Dup

Lab Order: C1602050

Tag Number: 347,146

Project: 690 St Paul

Collection Date: 2/17/2016

Lab ID: C1602050-004A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	3.2	0.74		ug/m3	1	2/23/2016 10:51:00 PM
Heptane	0.70	0.61		ug/m3	1	2/23/2016 10:51:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 10:51:00 PM
Hexane	2.0	0.53		ug/m3	1	2/23/2016 10:51:00 PM
Isopropyl alcohol	5.2	0.37		ug/m3	1	2/23/2016 10:51:00 PM
m&p-Xylene	1.1	1.3	J	ug/m3	1	2/23/2016 10:51:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:51:00 PM
Methyl Ethyl Ketone	1.4	0.88		ug/m3	1	2/23/2016 10:51:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:51:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 10:51:00 PM
Methylene chloride	1.4	0.52		ug/m3	1	2/23/2016 10:51:00 PM
o-Xylene	0.69	0.65		ug/m3	1	2/23/2016 10:51:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 10:51:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 10:51:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 10:51:00 PM
Toluene	3.1	0.57		ug/m3	1	2/23/2016 10:51:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:51:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:51:00 PM
Trichloroethene	0.43	0.21		ug/m3	1	2/23/2016 10:51:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 10:51:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 10:51:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 10:51:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-005A

Client Sample ID: Rm 117 Ms/MSD
 Tag Number: 1208,1165
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-2			"Hg		Analyst: 2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			FLD			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	2/23/2016 6:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 6:50:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Acetone	5.7	1.5		ppbV	5	2/24/2016 2:03:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Benzene	0.37	0.15		ppbV	1	2/23/2016 6:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Carbon tetrachloride	0.14	0.040		ppbV	1	2/23/2016 6:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Chloroform	0.25	0.15		ppbV	1	2/23/2016 6:50:00 PM
Chloromethane	0.58	0.15		ppbV	1	2/23/2016 6:50:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 6:50:00 PM

Qualifiers:	**	Reporting Limit		Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-005A

Client Sample ID: Rm 117 Ms/MSD
 Tag Number: 1208,1165
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Freon 11	0.36	0.15		ppbV	1	2/23/2016 6:50:00 PM
Freon 113	0.13	0.15	J	ppbV	1	2/23/2016 6:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Freon 12	0.65	0.15		ppbV	1	2/23/2016 6:50:00 PM
Heptane	0.23	0.15		ppbV	1	2/23/2016 6:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Hexane	0.55	0.15		ppbV	1	2/23/2016 6:50:00 PM
Isopropyl alcohol	1.7	0.15		ppbV	1	2/23/2016 6:50:00 PM
m&p-Xylene	0.24	0.30	J	ppbV	1	2/23/2016 6:50:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 6:50:00 PM
Methyl Ethyl Ketone	0.51	0.30		ppbV	1	2/23/2016 6:50:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 6:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Methylene chloride	0.46	0.15		ppbV	1	2/23/2016 6:50:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	2/23/2016 6:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Tetrachloroethylene	0.11	0.15	J	ppbV	1	2/23/2016 6:50:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Toluene	0.80	0.15		ppbV	1	2/23/2016 6:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Trichloroethene	0.080	0.040		ppbV	1	2/23/2016 6:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 6:50:00 PM
Surr: Bromofluorobenzene	91.0	70-130		%REC	1	2/23/2016 6:50:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

, Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-005A

Client Sample ID: Rm 117 Ms/MSD
 Tag Number: 1208,1165
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 6:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 6:50:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 6:50:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 6:50:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 6:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 6:50:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 6:50:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 6:50:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 6:50:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 6:50:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/23/2016 6:50:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 6:50:00 PM
Acetone	14	3.6		ug/m3	5	2/24/2016 2:03:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 6:50:00 PM
Benzene	1.2	0.48		ug/m3	1	2/23/2016 6:50:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 6:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 6:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 6:50:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 6:50:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 6:50:00 PM
Carbon tetrachloride	0.88	0.25		ug/m3	1	2/23/2016 6:50:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 6:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 6:50:00 PM
Chloroform	1.2	0.73		ug/m3	1	2/23/2016 6:50:00 PM
Chloromethane	1.2	0.31		ug/m3	1	2/23/2016 6:50:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 6:50:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 6:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	2/23/2016 6:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 6:50:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/23/2016 6:50:00 PM
Freon 11	2.0	0.84		ug/m3	1	2/23/2016 6:50:00 PM
Freon 113	1.0	1.1	J	ug/m3	1	2/23/2016 6:50:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 6:50:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-005A

Client Sample ID: Rm 117 Ms/MSD
 Tag Number: 1208,1165
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15		Analyst: RJP	
Freon 12	3.2	0.74		ug/m3	1	2/23/2016 6:50:00 PM
Heptane	0.94	0.61		ug/m3	1	2/23/2016 6:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 6:50:00 PM
Hexane	1.9	0.53		ug/m3	1	2/23/2016 6:50:00 PM
Isopropyl alcohol	4.2	0.37		ug/m3	1	2/23/2016 6:50:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	2/23/2016 6:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 6:50:00 PM
Methyl Ethyl Ketone	1.5	0.88		ug/m3	1	2/23/2016 6:50:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 6:50:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 6:50:00 PM
Methylene chloride	1.6	0.52		ug/m3	1	2/23/2016 6:50:00 PM
o-Xylene	0.48	0.65	J	ug/m3	1	2/23/2016 6:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 6:50:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 6:50:00 PM
Tetrachloroethylene	0.75	1.0	J	ug/m3	1	2/23/2016 6:50:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 6:50:00 PM
Toluene	3.0	0.57		ug/m3	1	2/23/2016 6:50:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 6:50:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 6:50:00 PM
Trichloroethene	0.43	0.21		ug/m3	1	2/23/2016 6:50:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 6:50:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 6:50:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 6:50:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-006A

Client Sample ID: Rm 107
 Tag Number: 190,349
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-5			"Hg		Analyst: 2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			FLD			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2,4-Trimethylbenzene	0.23	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 11:30:00 PM
2,2,4-trimethylpentane	0.83	0.15		ppbV	1	2/23/2016 11:30:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Acetone	5.9	1.5		ppbV	5	2/24/2016 5:07:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Benzene	0.48	0.15		ppbV	1	2/23/2016 11:30:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Carbon tetrachloride	0.13	0.040		ppbV	1	2/23/2016 11:30:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Chloroform	0.47	0.15		ppbV	1	2/23/2016 11:30:00 PM
Chloromethane	0.69	0.15		ppbV	1	2/23/2016 11:30:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Cyclohexane	0.28	0.15		ppbV	1	2/23/2016 11:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 11:30:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-006A

Client Sample ID: Rm 107
 Tag Number: 190,349
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
Ethylbenzene	0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Freon 11	0.38	0.15		ppbV	1	2/23/2016 11:30:00 PM
Freon 113	0.13	0.15	J	ppbV	1	2/23/2016 11:30:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Freon 12	0.67	0.15		ppbV	1	2/23/2016 11:30:00 PM
Heptane	0.73	0.15		ppbV	1	2/23/2016 11:30:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Hexane	0.84	0.15		ppbV	1	2/23/2016 11:30:00 PM
Isopropyl alcohol	2.8	0.75		ppbV	5	2/24/2016 5:07:00 AM
m&p-Xylene	0.40	0.30		ppbV	1	2/23/2016 11:30:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 11:30:00 PM
Methyl Ethyl Ketone	0.64	0.30		ppbV	1	2/23/2016 11:30:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 11:30:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Methylene chloride	0.49	0.15		ppbV	1	2/23/2016 11:30:00 PM
o-Xylene	0.17	0.15		ppbV	1	2/23/2016 11:30:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Toluene	1.2	0.15		ppbV	1	2/23/2016 11:30:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Trichloroethene	0.15	0.040		ppbV	1	2/23/2016 11:30:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 11:30:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	2/23/2016 11:30:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Date: 03-Mar-16

Centek Laboratories, LLC

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-006A

Client Sample ID: Rm 107
 Tag Number: 190,349
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 11:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 11:30:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 11:30:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 11:30:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 11:30:00 PM
1,2,4-Trimethylbenzene	1.1	0.74		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 11:30:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 11:30:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 11:30:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 11:30:00 PM
2,2,4-trimethylpentane	3.9	0.70		ug/m3	1	2/23/2016 11:30:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 11:30:00 PM
Acetone	14	3.6		ug/m3	5	2/24/2016 5:07:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 11:30:00 PM
Benzene	1.5	0.48		ug/m3	1	2/23/2016 11:30:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 11:30:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 11:30:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 11:30:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 11:30:00 PM
Carbon tetrachloride	0.82	0.25		ug/m3	1	2/23/2016 11:30:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 11:30:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 11:30:00 PM
Chloroform	2.3	0.73		ug/m3	1	2/23/2016 11:30:00 PM
Chloromethane	1.4	0.31		ug/m3	1	2/23/2016 11:30:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 11:30:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 11:30:00 PM
Cyclohexane	0.96	0.52		ug/m3	1	2/23/2016 11:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 11:30:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
Ethylbenzene	0.65	0.65		ug/m3	1	2/23/2016 11:30:00 PM
Freon 11	2.1	0.84		ug/m3	1	2/23/2016 11:30:00 PM
Freon 113	1.0	1.1	J	ug/m3	1	2/23/2016 11:30:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Date: 03-Mar-16

Centek Laboratories, LLC

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-006A

Client Sample ID: Rm 107
 Tag Number: 190,349
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15	Analyst: RJP	
Freon 12	3.3	0.74		ug/m3	1	2/23/2016 11:30:00 PM
Heptane	3.0	0.61		ug/m3	1	2/23/2016 11:30:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 11:30:00 PM
Hexane	3.0	0.53		ug/m3	1	2/23/2016 11:30:00 PM
Isopropyl alcohol	6.8	1.8		ug/m3	5	2/24/2016 5:07:00 AM
m&p-Xylene	1.7	1.3		ug/m3	1	2/23/2016 11:30:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 11:30:00 PM
Methyl Ethyl Ketone	1.9	0.88		ug/m3	1	2/23/2016 11:30:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 11:30:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 11:30:00 PM
Methylene chloride	1.7	0.52		ug/m3	1	2/23/2016 11:30:00 PM
o-Xylene	0.74	0.65		ug/m3	1	2/23/2016 11:30:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 11:30:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 11:30:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 11:30:00 PM
Toluene	4.7	0.57		ug/m3	1	2/23/2016 11:30:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 11:30:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 11:30:00 PM
Trichloroethene	0.81	0.21		ug/m3	1	2/23/2016 11:30:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 11:30:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 11:30:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 11:30:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-007A

Client Sample ID: Rm 112
 Tag Number: 568,249
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2,4-Trimethylbenzene	0.21	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/24/2016 12:08:00 AM
2,2,4-trimethylpentane	0.12	0.15	J	ppbV	1	2/24/2016 12:08:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Acetone	6.0	1.5		ppbV	5	2/24/2016 5:44:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Benzene	0.43	0.15		ppbV	1	2/24/2016 12:08:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Bromoform	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Carbon tetrachloride	0.13	0.040		ppbV	1	2/24/2016 12:08:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Chloroform	0.46	0.15		ppbV	1	2/24/2016 12:08:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Cyclohexane	0.17	0.15		ppbV	1	2/24/2016 12:08:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/24/2016 12:08:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-007A

Client Sample ID: Rm 112
 Tag Number: 568,249
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
Ethylbenzene	0.13	0.15	J	ppbV	1	2/24/2016 12:08:00 AM
Freon 11	0.35	0.15		ppbV	1	2/24/2016 12:08:00 AM
Freon 113	0.12	0.15	J	ppbV	1	2/24/2016 12:08:00 AM
Freon 114	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Freon 12	0.65	0.15		ppbV	1	2/24/2016 12:08:00 AM
Heptane	0.61	0.15		ppbV	1	2/24/2016 12:08:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Hexane	0.80	0.15		ppbV	1	2/24/2016 12:08:00 AM
Isopropyl alcohol	2.1	0.15		ppbV	1	2/24/2016 12:08:00 AM
m&p-Xylene	0.39	0.30		ppbV	1	2/24/2016 12:08:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/24/2016 12:08:00 AM
Methyl Ethyl Ketone	0.56	0.30		ppbV	1	2/24/2016 12:08:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/24/2016 12:08:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Methylene chloride	0.47	0.15		ppbV	1	2/24/2016 12:08:00 AM
o-Xylene	0.17	0.15		ppbV	1	2/24/2016 12:08:00 AM
Propylene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Styrene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Tetrachloroethylene	0.16	0.15		ppbV	1	2/24/2016 12:08:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Toluene	1.2	0.15		ppbV	1	2/24/2016 12:08:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Trichloroethene	0.22	0.040		ppbV	1	2/24/2016 12:08:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/24/2016 12:08:00 AM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	2/24/2016 12:08:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

, Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Date: 03-Mar-16

Centek Laboratories, LLC

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-007A

Client Sample ID: Rm 112
 Tag Number: 568,249
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
				TO-15		Analyst: RJP
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:08:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:08:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:08:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:08:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:08:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/24/2016 12:08:00 AM
1,2,4-Trimethylbenzene	1.0	0.74		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/24/2016 12:08:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/24/2016 12:08:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/24/2016 12:08:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/24/2016 12:08:00 AM
2,2,4-trimethylpentane	0.56	0.70	J	ug/m3	1	2/24/2016 12:08:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/24/2016 12:08:00 AM
Acetone	14	3.6		ug/m3	5	2/24/2016 5:44:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/24/2016 12:08:00 AM
Benzene	1.4	0.48		ug/m3	1	2/24/2016 12:08:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/24/2016 12:08:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:08:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/24/2016 12:08:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/24/2016 12:08:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/24/2016 12:08:00 AM
Carbon tetrachloride	0.82	0.25		ug/m3	1	2/24/2016 12:08:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/24/2016 12:08:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/24/2016 12:08:00 AM
Chloroform	2.2	0.73		ug/m3	1	2/24/2016 12:08:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	2/24/2016 12:08:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:08:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:08:00 AM
Cyclohexane	0.59	0.52		ug/m3	1	2/24/2016 12:08:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/24/2016 12:08:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
Ethylbenzene	0.56	0.65	J	ug/m3	1	2/24/2016 12:08:00 AM
Freon 11	2.0	0.84		ug/m3	1	2/24/2016 12:08:00 AM
Freon 113	0.92	1.1	J	ug/m3	1	2/24/2016 12:08:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/24/2016 12:08:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Date: 03-Mar-16

Centek Laboratories, LLC

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-007A

Client Sample ID: Rm 112
 Tag Number: 568,249
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	3.2	0.74		ug/m3	1	2/24/2016 12:08:00 AM
Heptane	2.5	0.61		ug/m3	1	2/24/2016 12:08:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/24/2016 12:08:00 AM
Hexane	2.8	0.53		ug/m3	1	2/24/2016 12:08:00 AM
Isopropyl alcohol	5.2	0.37		ug/m3	1	2/24/2016 12:08:00 AM
m&p-Xylene	1.7	1.3		ug/m3	1	2/24/2016 12:08:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:08:00 AM
Methyl Ethyl Ketone	1.7	0.88		ug/m3	1	2/24/2016 12:08:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:08:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/24/2016 12:08:00 AM
Methylene chloride	1.6	0.52		ug/m3	1	2/24/2016 12:08:00 AM
o-Xylene	0.74	0.65		ug/m3	1	2/24/2016 12:08:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/24/2016 12:08:00 AM
Styrene	< 0.64	0.64		ug/m3	1	2/24/2016 12:08:00 AM
Tetrachloroethylene	1.1	1.0		ug/m3	1	2/24/2016 12:08:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/24/2016 12:08:00 AM
Toluene	4.4	0.57		ug/m3	1	2/24/2016 12:08:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:08:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:08:00 AM
Trichloroethene	1.2	0.21		ug/m3	1	2/24/2016 12:08:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/24/2016 12:08:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/24/2016 12:08:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/24/2016 12:08:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-008A

Client Sample ID: Elevator
 Tag Number: 241,1168
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-7			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2,4-Trimethylbenzene	1.3	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,3,5-Trimethylbenzene	0.37	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/24/2016 12:47:00 AM
2,2,4-trimethylpentane	0.33	0.15		ppbV	1	2/24/2016 12:47:00 AM
4-ethyltoluene	0.29	0.15		ppbV	1	2/24/2016 12:47:00 AM
Acetone	7.1	1.5		ppbV	5	2/24/2016 6:20:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Benzene	0.85	0.15		ppbV	1	2/24/2016 12:47:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Bromoform	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Carbon tetrachloride	0.13	0.040		ppbV	1	2/24/2016 12:47:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Chloroform	1.2	0.15		ppbV	1	2/24/2016 12:47:00 AM
Chloromethane	0.53	0.15		ppbV	1	2/24/2016 12:47:00 AM
cis-1,2-Dichloroethene	0.33	0.15		ppbV	1	2/24/2016 12:47:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Cyclohexane	0.33	0.15		ppbV	1	2/24/2016 12:47:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/24/2016 12:47:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-008A

Client Sample ID: Elevator
 Tag Number: 241,1168
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	0.41	0.15		ppbV	1	2/24/2016 12:47:00 AM
Freon 11	0.36	0.15		ppbV	1	2/24/2016 12:47:00 AM
Freon 113	0.12	0.15	J	ppbV	1	2/24/2016 12:47:00 AM
Freon 114	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Freon 12	0.64	0.15		ppbV	1	2/24/2016 12:47:00 AM
Heptane	0.44	0.15		ppbV	1	2/24/2016 12:47:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Hexane	1.4	0.15		ppbV	1	2/24/2016 12:47:00 AM
Isopropyl alcohol	1.8	0.15		ppbV	1	2/24/2016 12:47:00 AM
m&p-Xylene	1.6	0.30		ppbV	1	2/24/2016 12:47:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/24/2016 12:47:00 AM
Methyl Ethyl Ketone	0.84	0.30		ppbV	1	2/24/2016 12:47:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/24/2016 12:47:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Methylene chloride	0.51	0.15		ppbV	1	2/24/2016 12:47:00 AM
o-Xylene	0.61	0.15		ppbV	1	2/24/2016 12:47:00 AM
Propylene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Styrene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Tetrahydrofuran	1.0	0.15		ppbV	1	2/24/2016 12:47:00 AM
Toluene	2.1	0.75		ppbV	5	2/24/2016 6:20:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Trichloroethene	0.67	0.040		ppbV	1	2/24/2016 12:47:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/24/2016 12:47:00 AM
Surr: Bromofluorobenzene	117	70-130		%REC	1	2/24/2016 12:47:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Date: 03-Mar-16

Centek Laboratories, LLC

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-008A

Client Sample ID: Elevator
 Tag Number: 241,1168
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:47:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:47:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:47:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:47:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/24/2016 12:47:00 AM
1,2,4-Trimethylbenzene	6.4	0.74		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/24/2016 12:47:00 AM
1,3,5-Trimethylbenzene	1.8	0.74		ug/m3	1	2/24/2016 12:47:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/24/2016 12:47:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/24/2016 12:47:00 AM
2,2,4-trimethylpentane	1.5	0.70		ug/m3	1	2/24/2016 12:47:00 AM
4-ethyltoluene	1.4	0.74		ug/m3	1	2/24/2016 12:47:00 AM
Acetone	17	3.6		ug/m3	5	2/24/2016 6:20:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/24/2016 12:47:00 AM
Benzene	2.7	0.48		ug/m3	1	2/24/2016 12:47:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/24/2016 12:47:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/24/2016 12:47:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/24/2016 12:47:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/24/2016 12:47:00 AM
Carbon tetrachloride	0.82	0.25		ug/m3	1	2/24/2016 12:47:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/24/2016 12:47:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/24/2016 12:47:00 AM
Chloroform	6.1	0.73		ug/m3	1	2/24/2016 12:47:00 AM
Chloromethane	1.1	0.31		ug/m3	1	2/24/2016 12:47:00 AM
cis-1,2-Dichloroethene	1.3	0.59		ug/m3	1	2/24/2016 12:47:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:47:00 AM
Cyclohexane	1.1	0.52		ug/m3	1	2/24/2016 12:47:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/24/2016 12:47:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
Ethylbenzene	1.8	0.65		ug/m3	1	2/24/2016 12:47:00 AM
Freon 11	2.0	0.84		ug/m3	1	2/24/2016 12:47:00 AM
Freon 113	0.92	1.1	J	ug/m3	1	2/24/2016 12:47:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-008A

Client Sample ID: Elevator
 Tag Number: 241,1168
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	3.2	0.74		ug/m3	1	2/24/2016 12:47:00 AM
Heptane	1.8	0.61		ug/m3	1	2/24/2016 12:47:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/24/2016 12:47:00 AM
Hexane	5.0	0.53		ug/m3	1	2/24/2016 12:47:00 AM
Isopropyl alcohol	4.3	0.37		ug/m3	1	2/24/2016 12:47:00 AM
m&p-Xylene	6.7	1.3		ug/m3	1	2/24/2016 12:47:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:47:00 AM
Methyl Ethyl Ketone	2.5	0.88		ug/m3	1	2/24/2016 12:47:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:47:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/24/2016 12:47:00 AM
Methylene chloride	1.8	0.52		ug/m3	1	2/24/2016 12:47:00 AM
o-Xylene	2.6	0.65		ug/m3	1	2/24/2016 12:47:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/24/2016 12:47:00 AM
Styrene	< 0.64	0.64		ug/m3	1	2/24/2016 12:47:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM
Tetrahydrofuran	3.0	0.44		ug/m3	1	2/24/2016 12:47:00 AM
Toluene	7.9	2.8		ug/m3	5	2/24/2016 6:20:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:47:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:47:00 AM
Trichloroethene	3.6	0.21		ug/m3	1	2/24/2016 12:47:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/24/2016 12:47:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/24/2016 12:47:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/24/2016 12:47:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 03-Mar-16



CENTEK LABORATORIES, LLC

QC SUMMARY REPORT SURROGATE RECOVERIES

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

Test No: TO-15

Matrix: A

Sample ID	BR4FBZ								
ALCSIUG-022316	101								
ALCSIUGD-022316	107								
AMBIUG-022316	72.0								
C1602050-001A	87.0								
C1602050-002A	92.0								
C1602050-003A	93.0								
C1602050-004A	86.0								
C1602050-005A	91.0								
C1602050-005A MS	107								
C1602050-005A MSD	107								
C1602050-006A	97.0								
C1602050-007A	93.0								
C1602050-008A	117								

Acronym	Surrogate	QC Limits
BR4FBZ	= Bromofluorobenzene	70-130

* Surrogate recovery outside acceptance limits

1

Tune File : C:\HPCHEM\1\DATA\AN022303.D
Tune Time : 23 Feb 2016 10:53 am

Daily Calibration File : C:\HPCHEM\1\DATA\AN022303.D

		(BFB)	(IS1) 35133	(IS2) 123693	(IS3) 87251
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses	
AN022304.D	ALCS1UG-022316	101		35037	122496 98923
AN022305.D	AMB1UG-022316	72		30279	107011 98861
AN022315.D	C1602050-005A	91		28598	95423 84862
AN022316.D	C1602050-005A MS	107		34064	117917 81431
AN022317.D	C1602050-005A MSD	107		36181	127862 88413
AN022318.D	C1602050-001A	87		29517	99994 87518
AN022319.D	C1602050-002A	92		30379	103994 88174
AN022320.D	C1602050-003A	93		28648	101376 80703
AN022321.D	C1602050-004A	86		28857	96312 83054
AN022322.D	C1602050-006A	97		28013	101801 83077
AN022323.D	C1602050-007A	93		29732	103253 83346
AN022324.D	C1602050-008A	117		29649	104381 82375
AN022325.D	ALCS1UGD-022316	107		35760	121491 89481
AN022326.D	C1602050-005A	5x 79		25301	82709 79377
AN022327.D	C1602050-001A	5x 75		24766	81168 78831
AN022328.D	C1602050-002A	5x 75		26439	83118 77617
AN022329.D	C1602050-003A	5x 75		25302	81555 77582
AN022330.D	C1602050-004A	5x 73		25797	80453 77334
AN022331.D	C1602050-006A	5x 76		25521	81538 77438
AN022332.D	C1602050-007A	5x 76		26130	82797 77954
AN022333.D	C1602050-008A	5x 83		25846	83470 77526

t - fails 24hr time check * - fails criteria

Created: Thu Mar 03 11:19:11 2016 MSD #1/

Date: 03-Mar-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-022316	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID: ZZZZZ	Batch ID: R10690	TestNo: TO-15			Analysis Date: 2/23/2016	SeqNo: 125799					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.130	0.15	1	0	113	70	130				
1,1,2,2-Tetrachloroethane	1.060	0.15	1	0	106	70	130				
1,1,2-Trichloroethane	1.210	0.15	1	0	121	70	130				
1,1-Dichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1-Dichloroethene	1.110	0.15	1	0	111	70	130				
1,2,4-Trichlorobenzene	0.7400	0.15	1	0	74.0	70	130				
1,2,4-Trimethylbenzene	0.7900	0.15	1	0	79.0	70	130				
1,2-Dibromoethane	0.9900	0.15	1	0	99.0	70	130				
1,2-Dichlorobenzene	0.9600	0.15	1	0	96.0	70	130				
1,2-Dichloroethane	0.8100	0.15	1	0	81.0	70	130				
1,2-Dichloropropane	1.080	0.15	1	0	108	70	130				
1,3,5-Trimethylbenzene	0.9100	0.15	1	0	91.0	70	130				
1,3-butadiene	1.020	0.15	1	0	102	70	130				
1,3-Dichlorobenzene	0.9600	0.15	1	0	96.0	70	130				
1,4-Dichlorobenzene	0.9200	0.15	1	0	92.0	70	130				
1,4-Dioxane	1.020	0.30	1	0	102	70	130				
2,2,4-trimethylpentane	0.9200	0.15	1	0	92.0	70	130				
4-ethyltoluene	0.9300	0.15	1	0	93.0	70	130				
Acetone	0.9600	0.30	1	0	96.0	70	130				
Allyl chloride	0.7700	0.15	1	0	77.0	70	130				
Benzene	1.060	0.15	1	0	106	70	130				
Benzyl chloride	1.030	0.15	1	0	103	70	130				
Bromodichloromethane	1.280	0.15	1	0	128	70	130				
Bromoform	1.220	0.15	1	0	122	70	130				
Bromomethane	1.200	0.15	1	0	120	70	130				

Qualifiers: Results reported are not blank corrected

J Analyte detected at or below quantitation limits

S Spike Recovery outside accepted recovery limits

E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

Page 1 of 5

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-022316	Sample Type	LCS	Batch ID	R10690	TestCode	0.25CT-TCE-	Units	ppbV	Prep Date	Analysis Date	2/23/2016	RunNo	10690
Client ID	ZZZZZ					TestNo	TO-15						SeqNo	125799
Analyte		Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual		
Carbon disulfide		0.9500	0.15	1	0	95.0	70	130						
Carbon tetrachloride		1.270	0.040	1	0	127	70	130						
Chlorobenzene		0.9900	0.15	1	0	99.0	70	130						
Chloroethane		1.110	0.15	1	0	111	70	130						
Chloroform		0.9300	0.15	1	0	93.0	70	130						
Chloromethane		0.8200	0.15	1	0	82.0	70	130						
cis-1,2-Dichloroethene		0.7500	0.15	1	0	75.0	70	130						
cis-1,3-Dichloropropene		1.110	0.15	1	0	111	70	130						
Cyclohexane		0.8600	0.15	1	0	86.0	70	130						
Dibromochloromethane		1.150	0.15	1	0	115	70	130						
Ethyl acetate		0.7400	0.25	1	0	74.0	70	130						
Ethylbenzene		0.8900	0.15	1	0	89.0	70	130						
Freon 11		1.200	0.15	1	0	120	70	130						
Freon 113		1.190	0.15	1	0	119	70	130						
Freon 114		1.050	0.15	1	0	105	70	130						
Freon 12		0.9800	0.15	1	0	98.0	70	130						
Heptane		0.7700	0.15	1	0	77.0	70	130						
Hexachloro-1,3-butadiene		0.8700	0.15	1	0	87.0	70	130						
Hexane		0.7100	0.15	1	0	71.0	70	130						
Isopropyl alcohol		0.8300	0.15	1	0	83.0	70	130						
m&p-Xylene		1.920	0.30	2	0	96.0	70	130						
Methyl Butyl Ketone		0.8300	0.30	1	0	83.0	70	130						
Methyl Ethyl Ketone		0.8900	0.30	1	0	89.0	70	130						
Methyl Isobutyl Ketone		0.9100	0.30	1	0	91.0	70	130						
Methyl tert-butyl ether		0.7800	0.15	1	0	78.0	70	130						
Methylene chloride		1.050	0.15	1	0	105	70	130						
o-Xylene		1.160	0.15	1	0	116	70	130						
Propylene		0.7600	0.15	1	0	76.0	70	130						
Styrene		0.9300	0.15	1	0	93.0	70	130						
Tetrachloroethylene		1.020	0.15	1	0	102	70	130						
Tetrahydrofuran		0.7700	0.15	1	0	77.0	70	130						

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 R Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1602050
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-022316	Sample Type:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbv	Prep Date:		RunNo:	10690
Client ID:	ZZZZZ	Batch ID:	R10690	TestNo:	TO-15			Analysis Date:	2/23/2016	SeqNo:	125799
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.8900	0.15	1	0	89.0	70	130				
trans-1,2-Dichloroethene	0.7600	0.15	1	0	76.0	70	130				
trans-1,3-Dichloropropene	1.000	0.15	1	0	100	70	130				
Trichloroethene	1.090	0.040	1	0	109	70	130				
Vinyl acetate	0.6800	0.15	1	0	68.0	70	130				S
Vinyl Bromide	1.150	0.15	1	0	115	70	130				
Vinyl chloride	0.9700	0.040	1	0	97.0	70	130				

Sample ID	ALCS1UGD-022316	Sample Type:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbv	Prep Date:		RunNo:	10690
Client ID:	ZZZZZ	Batch ID:	R10690	TestNo:	TO-15			Analysis Date:	2/24/2016	SeqNo:	125800
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.130	0.15	1	0	113	70	130	1.13	0	30	
1,1,2,2-Tetrachloroethane	1.150	0.15	1	0	115	70	130	1.06	8.14	30	
1,1,2-Trichloroethane	1.140	0.15	1	0	114	70	130	1.21	5.96	30	
1,1-Dichloroethane	0.9200	0.15	1	0	92.0	70	130	0.9	2.20	30	
1,1-Dichloroethene	1.210	0.15	1	0	121	70	130	1.11	8.62	30	
1,2,4-Trichlorobenzene	0.7500	0.15	1	0	75.0	70	130	0.74	1.34	30	
1,2,4-Trimethylbenzene	0.8800	0.15	1	0	86.0	70	130	0.79	8.48	30	
1,2-Dibromoethane	1.020	0.15	1	0	102	70	130	0.99	2.99	30	
1,2-Dichlorobenzene	1.010	0.15	1	0	101	70	130	0.96	5.08	30	
1,2-Dichloroethane	0.7900	0.15	1	0	79.0	70	130	0.81	2.50	30	
1,2-Dichloropropane	1.100	0.15	1	0	110	70	130	1.08	1.83	30	
1,3,5-Trimethylbenzene	1.040	0.15	1	0	104	70	130	0.91	13.3	30	
1,3-butadiene	0.8300	0.15	1	0	83.0	70	130	1.02	20.5	30	
1,3-Dichlorobenzene	1.020	0.15	1	0	102	70	130	0.96	6.06	30	
1,4-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130	0.92	3.21	30	
1,4-Dioxane	0.9700	0.30	1	0	97.0	70	130	1.02	5.03	30	
2,2,4-trimethylpentane	0.9700	0.15	1	0	97.0	70	130	0.92	5.29	30	
4-ethyltoluene	0.9800	0.15	1	0	98.0	70	130	0.93	5.24	30	

Qualifiers: J Results reported are not blank corrected
S Analyte detected at or below quantitation limits
R Spike Recovery outside accepted recovery limits
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-022316	Sample Type: LCSD	Batch ID: R10690	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690				
Client ID: ZZZZZ				TestNo: TO-15		Analysis Date: 2/24/2016	SeqNo: 125800				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.9700	0.30	1	0	97.0	70	130	0.96	1.04	30	
Allyl chloride	0.8000	0.15	1	0	80.0	70	130	0.77	3.82	30	
Benzene	1.070	0.15	1	0	107	70	130	1.06	0.939	30	
Benzyl chloride	1.060	0.15	1	0	106	70	130	1.03	2.87	30	
Bromodichloromethane	1.260	0.15	1	0	126	70	130	1.28	1.57	30	
Bromoform	1.210	0.15	1	0	121	70	130	1.22	0.823	30	
Bromomethane	1.220	0.15	1	0	122	70	130	1.2	1.65	30	
Carbon disulfide	0.9400	0.15	1	0	94.0	70	130	0.95	1.06	30	
Carbon tetrachloride	1.280	0.040	1	0	128	70	130	1.27	0.784	30	
Chlorobenzene	0.9800	0.15	1	0	98.0	70	130	0.99	1.02	30	
Chloroethane	1.030	0.15	1	0	103	70	130	1.11	7.48	30	
Chloroform	0.9200	0.15	1	0	92.0	70	130	0.93	1.08	30	
Chloromethane	0.8400	0.15	1	0	84.0	70	130	0.82	2.41	30	
cis-1,2-Dichloroethene	0.7500	0.15	1	0	75.0	70	130	0.75	0	30	
cis-1,3-Dichloropropene	1.070	0.15	1	0	107	70	130	1.11	3.67	30	
Cyclohexane	0.9000	0.15	1	0	90.0	70	130	0.86	4.55	30	
Dibromochloromethane	1.210	0.15	1	0	121	70	130	1.15	5.08	30	
Ethyl acetate	0.7800	0.25	1	0	78.0	70	130	0.74	5.26	30	
Ethylbenzene	0.8600	0.15	1	0	86.0	70	130	0.89	3.43	30	
Freon 11	1.210	0.15	1	0	121	70	130	1.2	0.830	30	
Freon 113	1.210	0.15	1	0	121	70	130	1.19	1.67	30	
Freon 114	1.090	0.15	1	0	109	70	130	1.05	3.74	30	
Freon 12	1.020	0.15	1	0	102	70	130	0.98	4.00	30	
Heptane	0.8200	0.15	1	0	82.0	70	130	0.77	6.29	30	
Hexachloro-1,3-butadiene	0.9100	0.15	1	0	91.0	70	130	0.87	4.49	30	
Hexane	0.7100	0.15	1	0	71.0	70	130	0.71	0	30	
Isopropyl alcohol	0.8700	0.15	1	0	87.0	70	130	0.83	4.71	30	
m&p-Xylene	1.930	0.30	2	0	96.5	70	130	1.92	0.519	30	
Methyl Butyl Ketone	0.9400	0.30	1	0	94.0	70	130	0.83	12.4	30	
Methyl Ethyl Ketone	0.9400	0.30	1	0	94.0	70	130	0.89	5.46	30	
Methyl Isobutyl Ketone	1.000	0.30	1	0	100	70	130	0.91	9.42	30	

Qualifiers: J Results reported are not blank corrected E Value above quantitation range H Holding times for preparation or analysis exceeded
 S Analyte detected at or below quantitation limits ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1602050
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-022316	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690	
Client ID: ZZZZ	Batch ID: R10690	TestNo: TO-15	%REC	LowLimit	HighLimit	SeqNo: 125800	
Analyte	Result	PQL	SPK value	SPK Ref Val	RPD Ref Val	RPDLimit	Qual
Methyl tert-butyl ether	0.7600	0.15	1	0	0.78	2.60	30
Methylene chloride	1.070	0.15	1	0	1.05	1.89	30
o-Xylene	1.130	0.15	1	0	1.16	2.62	30
Propylene	0.8200	0.15	1	0	0.76	7.59	30
Styrene	0.9800	0.15	1	0	0.93	5.24	30
Tetrachloroethylene	1.070	0.15	1	0	1.02	4.78	30
Tetrahydrofuran	0.7300	0.15	1	0	0.77	5.33	30
Toluene	0.9100	0.15	1	0	0.89	2.22	30
trans-1,2-Dichloroethene	0.8000	0.15	1	0	0.76	5.13	30
trans-1,3-Dichloropropene	0.9800	0.15	1	0	1	2.02	30
Trichloroethene	1.080	0.040	1	0	1.09	0.922	30
Vinyl acetate	0.6700	0.15	1	0	0.68	1.48	30 S
Vinyl Bromide	1.200	0.15	1	0	1.15	4.26	30
Vinyl chloride	0.9900	0.040	1	0	0.97	2.04	30

Qualifiers:

J Results reported are not blank corrected

S Analyte detected at or below quantitation limits

S Spike Recovery outside accepted recovery limits

E Value above quantitation range

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits



Date: 03-Mar-16

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-022316	Samp Type:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	10690		
Client ID:	ZZZZZ	Batch ID:	R10690	TestNo:	TO-15			Analysis Date:	2/23/2016	SeqNo:	125798		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	< 0.15	0.15											
1,1,2,2-Tetrachloroethane	< 0.15	0.15											
1,1,2-Trichloroethane	< 0.15	0.15											
1,1-Dichloroethane	< 0.15	0.15											
1,1-Dichloroethene	< 0.15	0.15											
1,2,4-Trichlorobenzene	< 0.15	0.15											
1,2,4-Trimethylbenzene	< 0.15	0.15											
1,2-Dibromoethane	< 0.15	0.15											
1,2-Dichlorobenzene	< 0.15	0.15											
1,2-Dichloroethane	< 0.15	0.15											
1,2-Dichloropropane	< 0.15	0.15											
1,3,5-Trimethylbenzene	< 0.15	0.15											
1,3-butadiene	< 0.15	0.15											
1,3-Dichlorobenzene	< 0.15	0.15											
1,4-Dichlorobenzene	< 0.15	0.15											
1,4-Dioxane	< 0.30	0.30											
2,2,4-trimethylpentane	< 0.15	0.15											
4-ethyltoluene	< 0.15	0.15											
Acetone	< 0.30	0.30											
Allyl chloride	< 0.15	0.15											
Benzene	< 0.15	0.15											
Benzyl chloride	< 0.15	0.15											
Bromodichloromethane	< 0.15	0.15											
Bromoform	< 0.15	0.15											
Bromomethane	< 0.15	0.15											

Qualifiers: - Results reported are not blank corrected
J Analytic detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-022316	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690						
Client ID: ZZZZ		Batch ID: R10690	TestNo: T0-15		Analysis Date: 2/23/2016	SeqNo: 125798						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide		< 0.15	0.15									
Carbon tetrachloride		< 0.040	0.040									
Chlorobenzene		< 0.15	0.15									
Chloroethane		< 0.15	0.15									
Chloroform		< 0.15	0.15									
Chloromethane		< 0.15	0.15									
cis-1,2-Dichloroethene		< 0.15	0.15									
cis-1,3-Dichloropropene		< 0.15	0.15									
Cyclohexane		< 0.15	0.15									
Dibromochloromethane		< 0.15	0.15									
Ethyl acetate		< 0.25	0.25									
Ethylbenzene		< 0.15	0.15									
Freon 11		< 0.15	0.15									
Freon 113		< 0.15	0.15									
Freon 114		< 0.15	0.15									
Freon 12		< 0.15	0.15									
Heptane		< 0.15	0.15									
Hexachloro-1,3-butadiene		< 0.15	0.15									
Hexane		< 0.15	0.15									
Isopropyl alcohol		< 0.15	0.15									
m&p-Xylene		< 0.30	0.30									
Methyl Butyl Ketone		< 0.30	0.30									
Methyl Ethyl Ketone		< 0.30	0.30									
Methyl Isobutyl Ketone		< 0.30	0.30									
Methyl tert-butyl ether		< 0.15	0.15									
Methylene chloride		< 0.15	0.15									
o-Xylene		< 0.15	0.15									
Propylene		< 0.15	0.15									
Styrene		< 0.15	0.15									
Tetrachloroethylene		< 0.15	0.15									
Tetrahydrofuran		< 0.15	0.15									

Qualifiers:	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: LaBella Associates, P.C.
Work Order: C1602050
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-022316	SampleType	MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690						
Client ID:	ZZZZZ	Batch ID:	R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125798						
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		< 0.15		0.15									
trans-1,2-Dichloroethene		< 0.15		0.15									
trans-1,3-Dichloropropene		< 0.15		0.15									
Trichloroethene		< 0.040		0.040									
Vinyl acetate		< 0.15		0.15									
Vinyl Bromide		< 0.15		0.15									
Vinyl chloride		< 0.040		0.040									

Qualifiers:

	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Date: 03-Mar-16



ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	C1602050-005A MS	MS	SampType:	MS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690			
Client ID:	Rm 117 Ms/MSD	Batch ID: R10690			TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125812			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.130	0.15	1	0	113	70	130				
1,1,2,2-Tetrachloroethane	1.280	0.15	1	0	128	70	130				
1,1,2-Trichloroethane	0.9900	0.15	1	0	99.0	70	130				
1,1-Dichloroethane	0.9100	0.15	1	0	91.0	70	130				
1,1-Dichloroethene	1.120	0.15	1	0	112	70	130				
1,2,4-Trichlorobenzene	0.9100	0.15	1	0	91.0	70	130				
1,2,4-Trimethylbenzene	1.380	0.15	1	0	138	70	130				
1,2-Dibromoethane	0.9400	0.15	1	0	94.0	70	130				
1,2-Dichlorobenzene	1.290	0.15	1	0	129	70	130				
1,2-Dichloroethane	0.7200	0.15	1	0	72.0	70	130				
1,2-Dichloropropane	0.9800	0.15	1	0	98.0	70	130				
1,3,5-Trimethylbenzene	1.260	0.15	1	0	126	70	130				
1,3-butadiene	1.190	0.15	1	0	119	70	130				
1,3-Dichlorobenzene	1.210	0.15	1	0	121	70	130				
1,4-Dichlorobenzene	1.150	0.15	1	0	115	70	130				
1,4-Dioxane	0.9700	0.30	1	0	97.0	70	130				
2,2,4-trimethylpentane	0.9500	0.15	1	0	95.0	70	130				
4-ethyltoluene	1.130	0.15	1	0	113	70	130				
Acetone	5.170	0.30	1	5.7	-53.0	70	130				
Allyl chloride	0.8400	0.15	1	0	84.0	70	130				
Benzene	1.200	0.15	1	0	120	70	130				
Benzyl chloride	1.100	0.15	1	0	110	70	130				
Bromodichloromethane	1.150	0.15	1	0	115	70	130				
Bromoform	1.090	0.15	1	0	109	70	130				
Bromomethane	1.190	0.15	1	0	119	70	130				

Qualifiers: J Results reported are not blank corrected
S Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	C1602050-005A MS	SampType: MS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID:	Rm 117 Ms/MSD	Batch ID: R10690	TestNo: TO-15	Analysis Date: 2/23/2016	SeqNo: 125812						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9800	0.15	1	0	98.0	70	130				S
Carbon tetrachloride	1.370	0.040	1	0	137	70	130				
Chlorobenzene	0.8400	0.15	1	0	84.0	70	130				
Chloroethane	1.180	0.15	1	0	118	70	130				
Chloroform	1.120	0.15	1	0	112	70	130				
Chloromethane	1.260	0.15	1	0	126	70	130				
cis-1,2-Dichloroethene	0.7600	0.15	1	0	76.0	70	130				
cis-1,3-Dichloropropene	0.9300	0.15	1	0	93.0	70	130				
Cyclohexane	1.210	0.15	1	0	121	70	130				
Dibromochloromethane	1.120	0.15	1	0	112	70	130				
Ethyl acetate	0.7200	0.25	1	0	72.0	70	130				
Ethylbenzene	0.7700	0.15	1	0	77.0	70	130				
Freon 11	1.510	0.15	1	0	151	70	130				S
Freon 113	1.480	0.15	1	0	148	70	130				S
Freon 114	1.190	0.15	1	0	119	70	130				
Freon 12	1.500	0.15	1	0	150	70	130				S
Heptane	0.8800	0.15	1	0	88.0	70	130				
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	70	130				
Hexane	1.300	0.15	1	0	130	70	130				S
Isopropyl alcohol	2.390	0.15	1	0	239	70	130				
m&p-Xylene	1.760	0.30	2	0	88.0	70	130				
Methyl Butyl Ketone	1.030	0.30	1	0	103	70	130				S
Methyl Ethyl Ketone	1.400	0.30	1	0	140	70	130				
Methyl Isobutyl Ketone	1.140	0.30	1	0	114	70	130				
Methyl tert-butyl ether	0.7000	0.15	1	0	70.0	70	130				S
Methylene chloride	1.330	0.15	1	0	133	70	130				
o-Xylene	1.030	0.15	1	0	103	70	130				
Propylene	1.430	0.15	1	0	143	70	130				S
Styrene	0.8800	0.15	1	0	88.0	70	130				
Tetrachloroethylene	1.140	0.15	1	0	114	70	130				
Tetrahydrofuran	0.7000	0.15	1	0	70.0	70	130				

Qualifiers: - Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID C1602050-005A MS		SampType: MS	TestCode: 0.25CT-TCE-		Units: ppbV	Prep Date:		RunNo: 10690			
Client ID: Rm 117 Ms/MSD		Batch ID: R10690	TestNo: TO-15			Analysis Date: 2/23/2016		SeqNo: 125812			
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.840	0.15	1	0	184	70	130				S
trans-1,2-Dichloroethene	0.9300	0.15	1	0	93.0	70	130				
trans-1,3-Dichloropropene	0.8500	0.15	1	0	85.0	70	130				
Trichloroethene	1.050	0.040	1	0	105	70	130				
Vinyl acetate	0.7000	0.15	1	0	70.0	70	130				
Vinyl Bromide	1.180	0.15	1	0	118	70	130				
Vinyl chloride	1.060	0.040	1	0	106	70	130				
Surr: Bromofluorobenzene	1.070	0	1	0	107	70	130				

Sample ID	C1602050-005A MS	SampType: MSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID:	Rm 117 Ms/MSD	Batch ID: R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125813					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.060	0.15	1	0	106	70	130	1.13	6.39	30	
1,1,2,2-Tetrachloroethane	1.160	0.15	1	0	116	70	130	1.28	9.84	30	
1,1,2-Trichloroethane	1.000	0.15	1	0	100	70	130	0.99	1.01	30	
1,1-Dichloroethane	0.9100	0.15	1	0	91.0	70	130	0.91	0	30	
1,1-Dichloroethane	1.220	0.15	1	0	122	70	130	1.12	8.55	30	
1,2,4-Trichlorobenzene	0.7900	0.15	1	0	79.0	70	130	0.91	14.1	30	
1,2,4-Trimethylbenzene	1.270	0.15	1	0	127	70	130	1.38	8.30	30	
1,2-Dibromoethane	0.9300	0.15	1	0	93.0	70	130	0.94	1.07	30	
1,2-Dichlorobenzene	1.190	0.15	1	0	119	70	130	1.29	8.06	30	
1,2-Dichloroethane	0.7700	0.15	1	0	77.0	70	130	0.72	6.71	30	
1,2-Dichloropropane	0.9900	0.15	1	0	99.0	70	130	0.98	1.02	30	
1,3,5-Trimethylbenzene	1.170	0.15	1	0	117	70	130	1.26	7.41	30	
1,3-butadiene	1.120	0.15	1	0	112	70	130	1.19	6.06	30	
1,3-Dichlorobenzene	1.120	0.15	1	0	112	70	130	1.21	7.73	30	
1,4-Dichlorobenzene	1.040	0.15	1	0	104	70	130	1.15	10.0	30	
1,4-Dioxane	0.8800	0.30	1	0	88.0	70	130	0.97	9.73	30	
2,2,4-Trimethylpentane	0.9400	0.15	1	0	94.0	70	130	0.95	1.06	30	

Qualifiers: Results reported are not blank corrected
 J Analyte detected at or below quantitation limits
 S Spike Recovery outside accepted recovery limits
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 HI Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1602050
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID C1602050-005A MS		MSD	SampType:		TestCode: 0.25CT-TCE-		Units: ppbV	Prep Date:		RunNo: 10690	
Client ID: Rm 117 Ms/MSD		Batch ID: R10690			TestNo: TO-15		Analysis Date: 2/23/2016		SeqNo: 125813		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	1.150	0.15	1	0	115	70	130	1.13	1.75	30	
Acetone	5.160	0.30	1	5.7	-54.0	70	130	5.17	0.194	30	S
Allyl chloride	0.8700	0.15	1	0	87.0	70	130	0.84	3.51	30	
Benzene	1.350	0.15	1	0	135	70	130	1.2	11.8	30	S
Benzyl chloride	1.030	0.15	1	0	103	70	130	1.1	6.57	30	
Bromodichloromethane	1.120	0.15	1	0	112	70	130	1.15	2.64	30	
Bromoform	1.100	0.15	1	0	110	70	130	1.09	0.913	30	
Bromomethane	1.220	0.15	1	0	122	70	130	1.19	2.49	30	
Carbon disulfide	0.9600	0.15	1	0	96.0	70	130	0.98	2.06	30	
Carbon tetrachloride	1.320	0.040	1	0	132	70	130	1.37	3.72	30	S
Chlorobenzene	0.8600	0.15	1	0	86.0	70	130	0.84	2.35	30	
Chloroethane	1.120	0.15	1	0	112	70	130	1.18	5.22	30	
Chloroform	1.110	0.15	1	0	111	70	130	1.12	0.897	30	
Chloromethane	1.200	0.15	1	0	120	70	130	1.26	4.88	30	
cis-1,2-Dichloroethane	0.8100	0.15	1	0	81.0	70	130	0.76	6.37	30	
cis-1,3-Dichloropropene	0.9400	0.15	1	0	94.0	70	130	0.93	1.07	30	
Cyclohexane	1.160	0.15	1	0	116	70	130	1.21	4.22	30	
Dibromochloromethane	1.200	0.15	1	0	120	70	130	1.12	6.90	30	
Ethyl acetate	0.7700	0.25	1	0	77.0	70	130	0.72	6.71	30	
Ethylbenzene	0.8000	0.15	1	0	80.0	70	130	0.77	3.82	30	
Freon 11	1.410	0.15	1	0	141	70	130	1.51	6.85	30	S
Freon 113	1.390	0.15	1	0	139	70	130	1.48	6.27	30	S
Freon 114	1.040	0.15	1	0	104	70	130	1.19	13.5	30	
Freon 12	1.450	0.15	1	0	145	70	130	1.5	3.39	30	S
Heptane	0.9400	0.15	1	0	94.0	70	130	0.88	6.59	30	
Hexachloro-1,3-butadiene	1.020	0.15	1	0	102	70	130	1.08	5.71	30	
Hexane	1.340	0.15	1	0	134	70	130	1.3	3.03	30	S
Isopropyl alcohol	2.100	0.15	1	0	210	70	130	2.39	12.9	30	S
m&p-Xylene	1.800	0.30	2	0	90.0	70	130	1.76	2.25	30	
Methyl Butyl Ketone	0.9300	0.30	1	0	93.0	70	130	1.03	10.2	30	
Methyl Ethyl Ketone	1.310	0.30	1	0	131	70	130	1.4	6.64	30	S

Qualifiers: . Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1602050
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	C1602050-005A MS	SampType: MSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID:	Rm 117 Ms/MSD	Batch ID: R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125813					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Quat
Methyl Isobutyl Ketone	1.020	0.30	1	0	102	70	130	1.14	11.1	30	
Methyl tert-butyl ether	0.7000	0.15	1	0	70.0	70	130	0.7	0	30	
Methylene chloride	1.340	0.15	1	0	134	70	130	1.33	0.749	30	S
o-Xylene	1.000	0.15	1	0	100	70	130	1.03	2.96	30	
Propylene	1.480	0.15	1	0	148	70	130	1.43	3.44	30	S
Styrene	0.8600	0.15	1	0	86.0	70	130	0.88	2.30	30	
Tetrachloroethylene	1.140	0.15	1	0	114	70	130	1.14	0	30	
Tetrahydrofuran	0.7700	0.15	1	0	77.0	70	130	0.7	9.52	30	
Toluene	1.860	0.15	1	0	186	70	130	1.84	1.08	30	S
trans-1,2-Dichloroethene	0.8700	0.15	1	0	87.0	70	130	0.93	6.67	30	
trans-1,3-Dichloropropene	0.8400	0.15	1	0	84.0	70	130	0.85	1.18	30	
Trichloroethene	1.050	0.040	1	0	105	70	130	1.05	0	30	
Vinyl acetate	0.7800	0.15	1	0	78.0	70	130	0.7	10.8	30	
Vinyl Bromide	1.150	0.15	1	0	115	70	130	1.18	2.58	30	
Vinyl chloride	0.9500	0.040	1	0	95.0	70	130	1.06	10.9	30	
Surr: Bromofluorobenzene	1.070	0	1	0	107	70	130	0	0	30	

Qualifiers: - Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	IDL
Propylene	0.15	0.16	0.15	0.16	0.14	0.16	0.14	0.16	0.153	0.010	98.1	0.030
Freon 12	0.15	0.18	0.17	0.17	0.17	0.18	0.17	0.17	0.173	0.005	86.8	0.015
Chloromethane	0.15	0.19	0.18	0.16	0.18	0.18	0.2	0.17	0.180	0.013	83.3	0.041
Freon 114	0.15	0.18	0.17	0.17	0.17	0.18	0.17	0.18	0.174	0.005	86.1	0.017
Vinyl Chloride	0.15	0.17	0.16	0.16	0.15	0.16	0.15	0.15	0.157	0.008	95.5	0.024
Butane	0.15	0.18	0.16	0.17	0.18	0.18	0.19	0.19	0.179	0.011	84.0	0.034
1,3-butadiene	0.15	0.21	0.2	0.2	0.22	0.17	0.18	0.23	0.201	0.021	74.5	0.066
Bromomethane	0.15	0.18	0.2	0.21	0.18	0.22	0.16	0.21	0.194	0.021	77.2	0.068
Chloroethane	0.15	0.19	0.19	0.16	0.19	0.19	0.18	0.19	0.184	0.011	81.4	0.036
Ethanol	0.15	0.16	0.16	0.18	0.17	0.19	0.18	0.19	0.176	0.013	85.4	0.040
Acrolein	0.15	0.22	0.17	0.19	0.16	0.18	0.21	0.17	0.186	0.022	80.8	0.070
Vinyl Bromide	0.15	0.17	0.15	0.16	0.16	0.17	0.17	0.17	0.164	0.008	91.3	0.025
Freon 11	0.15	0.18	0.17	0.17	0.18	0.19	0.17	0.18	0.177	0.008	84.7	0.024
Acetone	0.15	0.2	0.17	0.18	0.15	0.15	0.18	0.14	0.167	0.021	89.7	0.067
Pentane	0.15	0.18	0.17	0.18	0.16	0.17	0.2	0.16	0.174	0.014	86.1	0.044
Isopropyl alcohol	0.15	0.22	0.2	0.19	0.2	0.19	0.21	0.19	0.200	0.012	75.0	0.036
1,1-dichloroethene	0.15	0.2	0.17	0.19	0.19	0.19	0.18	0.18	0.186	0.010	80.8	0.031
Freon 113	0.15	0.17	0.16	0.18	0.18	0.18	0.17	0.17	0.173	0.008	86.8	0.024
t-Butyl alcohol	0.15	0.21	0.2	0.2	0.21	0.2	0.2	0.18	0.200	0.010	75.0	0.031
Methylene chloride	0.15	0.2	0.18	0.19	0.18	0.2	0.19	0.17	0.187	0.011	80.2	0.035
Allyl chloride	0.15	0.18	0.17	0.16	0.18	0.18	0.2	0.18	0.179	0.012	84.0	0.038
Carbon disulfide	0.15	0.2	0.17	0.19	0.19	0.2	0.18	0.19	0.189	0.011	79.5	0.034
trans-1,2-dichloroethene	0.15	0.15	0.14	0.14	0.14	0.16	0.14	0.15	0.146	0.008	102.9	0.025
methyl tert-butyl ether	0.15	0.14	0.14	0.14	0.13	0.15	0.14	0.13	0.139	0.007	108.2	0.022
1,1-dichloroethane	0.15	0.17	0.15	0.16	0.15	0.17	0.16	0.16	0.160	0.008	93.8	0.026
Vinyl acetate	0.15	0.14	0.13	0.14	0.13	0.13	0.13	0.12	0.131	0.007	114.1	0.022
Methyl Ethyl Ketone	0.15	0.17	0.17	0.16	0.16	0.15	0.13	0.12	0.151	0.020	99.1	0.061
cis-1,2-dichloroethene	0.15	0.15	0.14	0.16	0.15	0.16	0.15	0.14	0.150	0.008	100.0	0.026
Hexane	0.15	0.12	0.14	0.13	0.13	0.13	0.12	0.12	0.127	0.008	118.0	0.024
Ethyl acetate	0.15	0.16	0.17	0.14	0.15	0.14	0.16	0.13	0.150	0.014	100.0	0.044
Chloroform	0.15	0.16	0.16	0.16	0.16	0.17	0.16	0.17	0.163	0.005	92.1	0.015
Tetrahydrofuran	0.15	0.15	0.13	0.15	0.15	0.15	0.15	0.14	0.146	0.008	102.9	0.025
1,2-dichloroethane	0.15	0.16	0.15	0.16	0.16	0.17	0.16	0.17	0.161	0.007	92.9	0.022
1,1,1-trichloroethane	0.15	0.17	0.16	0.17	0.17	0.16	0.17	0.17	0.167	0.005	89.7	0.015
Cyclohexane	0.15	0.14	0.14	0.14	0.15	0.15	0.14	0.14	0.143	0.005	105.0	0.015
Carbon tetrachloride	0.15	0.13	0.15	0.15	0.15	0.15	0.15	0.16	0.149	0.009	101.0	0.028
Benzene	0.15	0.15	0.16	0.16	0.15	0.16	0.16	0.16	0.157	0.005	95.5	0.015
Methyl methacrylate	0.15	0.15	0.15	0.14	0.14	0.14	0.15	0.11	0.140	0.014	107.1	0.044
1,4-dioxane	0.15	0.18	0.18	0.19	0.18	0.15	0.17	0.12	0.167	0.024	89.7	0.076

Confidential

1/8/2016

Centek Laboratories IDL Study		1ug/M3 Detection Limit January 2016								Method TO-15A Units=ppb			
Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	IDL	
2,2,4-trimethylpentane	0.15	0.15	0.15	0.15	0.16	0.14	0.16	0.15	0.151	0.007	99.1	0.022	
Heptane	0.15	0.12	0.13	0.13	0.12	0.13	0.13	0.13	0.127	0.005	118.0	0.015	
Trichloroethene	0.15	0.14	0.15	0.14	0.15	0.15	0.14	0.15	0.146	0.005	102.9	0.017	
1,2-dichloropropane	0.15	0.16	0.17	0.17	0.16	0.17	0.16	0.16	0.164	0.005	91.3	0.017	
Bromodichloromethane	0.15	0.16	0.16	0.16	0.15	0.16	0.17	0.16	0.160	0.006	93.8	0.018	
cis-1,3-dichloropropene	0.15	0.13	0.13	0.14	0.14	0.13	0.13	0.13	0.133	0.005	112.9	0.015	
trans-1,3-dichloropropene	0.15	0.16	0.13	0.13	0.14	0.14	0.14	0.16	0.143	0.013	105.0	0.039	
1,1,2-trichloroethane	0.15	0.16	0.15	0.16	0.15	0.16	0.18	0.17	0.161	0.011	92.9	0.034	
Toluene	0.15	0.14	0.14	0.14	0.13	0.16	0.14	0.15	0.143	0.010	105.0	0.030	
Methyl Isobutyl Ketone	0.15	0.18	0.18	0.18	0.18	0.16	0.18	0.15	0.173	0.013	86.8	0.039	
Dibromochloromethane	0.15	0.16	0.16	0.17	0.18	0.16	0.17	0.18	0.169	0.009	89.0	0.028	
Methyl Butyl Ketone	0.15	0.17	0.16	0.18	0.17	0.16	0.17	0.14	0.164	0.013	91.3	0.040	
1,2-dibromoethane	0.15	0.16	0.17	0.16	0.16	0.16	0.16	0.17	0.163	0.005	92.1	0.015	
Tetrachloroethylene	0.15	0.16	0.17	0.16	0.16	0.16	0.17	0.17	0.164	0.005	91.3	0.017	
Chlorobenzene	0.15	0.16	0.16	0.16	0.17	0.15	0.17	0.17	0.163	0.008	92.1	0.024	
1,1,1,2-tetrachloroethane	0.15	0.17	0.17	0.17	0.18	0.16	0.18	0.17	0.171	0.007	87.5	0.022	
Ethylbenzene	0.15	0.13	0.14	0.14	0.14	0.12	0.14	0.13	0.134	0.008	111.7	0.025	
m&p-xylene	0.3	0.25	0.25	0.25	0.23	0.25	0.25	0.25	0.247	0.008	121.4	0.024	
Nonane	0.15	0.11	0.11	0.11	0.11	0.1	0.1	0.11	0.107	0.005	140.0	0.015	
Styrene	0.15	0.12	0.13	0.13	0.11	0.12	0.13	0.12	0.123	0.008	122.1	0.024	
Bromoform	0.15	0.15	0.15	0.16	0.15	0.15	0.17	0.16	0.156	0.008	96.3	0.025	
o-xylene	0.15	0.11	0.12	0.12	0.14	0.14	0.12	0.11	0.123	0.013	122.1	0.039	
Cumene	0.15	0.12	0.13	0.13	0.12	0.13	0.13	0.13	0.127	0.005	118.0	0.015	
Bromofluorobenzene	1	0.88	0.9	0.9	0.87	0.89	0.89	0.9	0.890	0.012	112.4	0.036	
1,1,2,2-tetrachloroethane	0.15	0.16	0.16	0.17	0.16	0.17	0.17	0.16	0.164	0.005	91.3	0.017	
Propylbenzene	0.15	0.13	0.12	0.13	0.13	0.11	0.13	0.11	0.123	0.010	122.1	0.030	
2-Chlorotoluene	0.15	0.13	0.13	0.13	0.14	0.13	0.12	0.13	0.130	0.006	115.4	0.018	
4-ethyltoluene	0.15	0.11	0.12	0.12	0.12	0.13	0.13	0.11	0.120	0.008	125.0	0.026	
1,3,5-trimethylbenzene	0.15	0.12	0.13	0.14	0.12	0.13	0.13	0.13	0.129	0.007	116.7	0.022	
1,2,4-trimethylbenzene	0.15	0.12	0.13	0.12	0.12	0.13	0.12	0.12	0.123	0.005	122.1	0.015	
1,3-dichlorobenzene	0.15	0.14	0.14	0.14	0.13	0.14	0.13	0.14	0.137	0.005	109.4	0.015	
benzyl chloride	0.15	0.13	0.16	0.13	0.15	0.13	0.15	0.16	0.144	0.014	104.0	0.044	
1,4-dichlorobenzene	0.15	0.13	0.11	0.12	0.12	0.12	0.12	0.13	0.121	0.007	123.5	0.022	
1,2,3-trimethylbenzene	0.15	0.12	0.11	0.12	0.12	0.12	0.11	0.11	0.116	0.005	129.6	0.017	
1,2-dichlorobenzene	0.15	0.13	0.14	0.14	0.14	0.14	0.14	0.13	0.137	0.005	109.4	0.015	
1,2,4-trichlorobenzene	0.15	0.1	0.11	0.1	0.11	0.11	0.12	0.1	0.107	0.008	140.0	0.024	
Naphthalene	0.15	0.13	0.13	0.14	0.11	0.12	0.14	0.12	0.127	0.011	118.0	0.035	
Hexachloro-1,3-butadiene	0.15	0.16	0.17	0.17	0.17	0.16	0.16	0.16	0.164	0.005	91.3	0.017	

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1/8/2016

Centek Laboratories
IDL Study

0.25ug/M3 Detection Limit
January 2016

Method TO-15A
Units=ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	StdDev	%Rec	IDL
Vinyl Chloride	0.1	0.11	0.11	0.09	0.09	0.1	0.09	0.1	0.099	0.009	101.4	0.028
Carbon tetrachloride	0.1	0.1	0.11	0.08	0.09	0.09	0.09	0.09	0.093	0.010	107.7	0.030
Trichloroethene	0.1	0.1	0.1	0.07	0.08	0.08	0.08	0.08	0.084	0.011	118.6	0.036
Tetrachloroethylene	0.1	0.11	0.12	0.09	0.09	0.1	0.09	0.09	0.099	0.012	101.4	0.038
Naphthalene	0.1	0.09	0.08	0.07	0.06	0.06	0.07	0.06	0.070	0.012	142.9	0.036

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1/15/2016

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{A_x * C_{is}}{A_{is} * C_x}$$

where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 C_x = concentration of the compound being measured (ppbv)
 C_{is} = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRF_c - \text{mean } RRF_i) * 100}{\text{mean } RRF_i}$$

where: RRF_c = relative response factor from the continuing calibration
 $\text{mean } RRF_i$ = mean relative response factor from the initial calibration

Sample Calculations

$$\text{ppbv} = \frac{A_x * I_s * D_f}{A_{is} * RRF}$$

where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 I_s = Concentration of the internal standard injected (ppbv)
 RRF = relative response factor for the compound being measured
 D_f = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-001A

Client Sample ID: Roof
 Tag Number: 350,265
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD		Analyst:	
Lab Vacuum In	-10			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15		Analyst: RJP	
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 8:54:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Acetone	6.8	1.5		ppbV	5	2/24/2016 2:40:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Benzene	0.34	0.15		ppbV	1	2/23/2016 8:54:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Carbon tetrachloride	0.15	0.040		ppbV	1	2/23/2016 8:54:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Chloroform	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Chloromethane	0.46	0.15		ppbV	1	2/23/2016 8:54:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Cyclohexane	0.33	0.15		ppbV	1	2/23/2016 8:54:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 8:54:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-001A

Client Sample ID: Roof
 Tag Number: 350,265
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Freon 11	0.35	0.15		ppbV	1	2/23/2016 8:54:00 PM
Freon 113	0.13	0.15	J	ppbV	1	2/23/2016 8:54:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Freon 12	0.65	0.15		ppbV	1	2/23/2016 8:54:00 PM
Heptane	0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Hexane	0.93	0.15		ppbV	1	2/23/2016 8:54:00 PM
Isopropyl alcohol	1.2	0.15		ppbV	1	2/23/2016 8:54:00 PM
m&p-Xylene	0.20	0.30	J	ppbV	1	2/23/2016 8:54:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 8:54:00 PM
Methyl Ethyl Ketone	0.52	0.30		ppbV	1	2/23/2016 8:54:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 8:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Methylene chloride	0.38	0.15		ppbV	1	2/23/2016 8:54:00 PM
o-Xylene	0.10	0.15	J	ppbV	1	2/23/2016 8:54:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Toluene	0.92	0.15		ppbV	1	2/23/2016 8:54:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	2/23/2016 8:54:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 8:54:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 8:54:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	2/23/2016 8:54:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1602050
Project: 690 St Paul
Lab ID: C1602050-001A

Client Sample ID: Roof
Tag Number: 350,265
Collection Date: 2/17/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 8:54:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 8:54:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 8:54:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 8:54:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 8:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 8:54:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 8:54:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 8:54:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 8:54:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/23/2016 8:54:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 8:54:00 PM
Acetone	16	3.6		ug/m3	5	2/24/2016 2:40:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 8:54:00 PM
Benzene	1.1	0.48		ug/m3	1	2/23/2016 8:54:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 8:54:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 8:54:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 8:54:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 8:54:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 8:54:00 PM
Carbon tetrachloride	0.94	0.25		ug/m3	1	2/23/2016 8:54:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 8:54:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 8:54:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	2/23/2016 8:54:00 PM
Chloromethane	0.95	0.31		ug/m3	1	2/23/2016 8:54:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 8:54:00 PM
cis-1,3-Dichloropropane	< 0.68	0.68		ug/m3	1	2/23/2016 8:54:00 PM
Cyclohexane	1.1	0.52		ug/m3	1	2/23/2016 8:54:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 8:54:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 8:54:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/23/2016 8:54:00 PM
Freon 11	2.0	0.84		ug/m3	1	2/23/2016 8:54:00 PM
Freon 113	1.0	1.1	J	ug/m3	1	2/23/2016 8:54:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 8:54:00 PM

Qualifiers:	** Reporting Limit		Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Page 1 of 16

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
Lab Order: C1602050
Project: 690 St Paul
Lab ID: C1602050-001A

Client Sample ID: Roof
Tag Number: 350,265
Collection Date: 2/17/2016
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	3.2	0.74		ug/m3	1	2/23/2016 8:54:00 PM
Heptane	0.61	0.61		ug/m3	1	2/23/2016 8:54:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 8:54:00 PM
Hexane	3.3	0.53		ug/m3	1	2/23/2016 8:54:00 PM
Isopropyl alcohol	3.0	0.37		ug/m3	1	2/23/2016 8:54:00 PM
m&p-Xylene	0.87	1.3	J	ug/m3	1	2/23/2016 8:54:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 8:54:00 PM
Methyl Ethyl Ketone	1.5	0.88		ug/m3	1	2/23/2016 8:54:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 8:54:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 8:54:00 PM
Methylene chloride	1.3	0.52		ug/m3	1	2/23/2016 8:54:00 PM
o-Xylene	0.43	0.66	J	ug/m3	1	2/23/2016 8:54:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 8:54:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 8:54:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 8:54:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 8:54:00 PM
Toluene	3.5	0.57		ug/m3	1	2/23/2016 8:54:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 8:54:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 8:54:00 PM
Trichloroethene	< 0.21	0.21		ug/m3	1	2/23/2016 8:54:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 8:54:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 8:54:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 8:54:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Data File : C:\HPCHEM\1\DATA\AN022318.D

Vial: 18

Acq On : 23 Feb 2016 8:54 pm

Operator: RJP

Sample : C1602050-001A

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:48 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.84	128	29517	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.08	114	99994	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	87518	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	51622	0.87	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	87.00%

Target Compounds

						Qvalue
3) Freon 12	4.20	85	83274	0.65	ppb	99
4) Chloromethane	4.40	50	17793	0.46	ppb	77
14) Freon 11	5.81	101	45426	0.35	ppb	98
15) Acetone	6.04	58	77924	6.24	ppb	# 1
17) Isopropyl alcohol	6.17	45	44694	1.24	ppb	# 46
19) Freon 113	6.76	101	10408	0.13	ppb	92
21) Methylene chloride	7.07	84	14820	0.38	ppb	93
28) Methyl Ethyl Ketone	8.99	72	9931m	0.52	ppb	
30) Hexane	8.92	57	60001	0.93	ppb	95
37) Cyclohexane	11.46	56	15519	0.33	ppb	# 64
38) Carbon tetrachloride	11.40	117	10562	0.15	ppb	96
39) Benzene	11.40	78	29996	0.34	ppb	93
43) Heptane	12.55	43	7635	0.15	ppb	# 66
51) Toluene	14.70	92	54023	0.92	ppb	94
60) m&p-xylene	17.04	91	19915	0.20	ppb	95
64) o-xylene	17.51	91	11677	0.10	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN022318.D A204_1UG.M Thu Mar 03 11:00:02 2016 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022318.D

Acq On : 23 Feb 2016 8:54 pm

Sample : C1602050-001A

Misc : A204_1UG

MS Integration Params: RTEINT.P

Quant Time: Feb 26 10:05 2016

Quant Results File: A204_1UG.RES

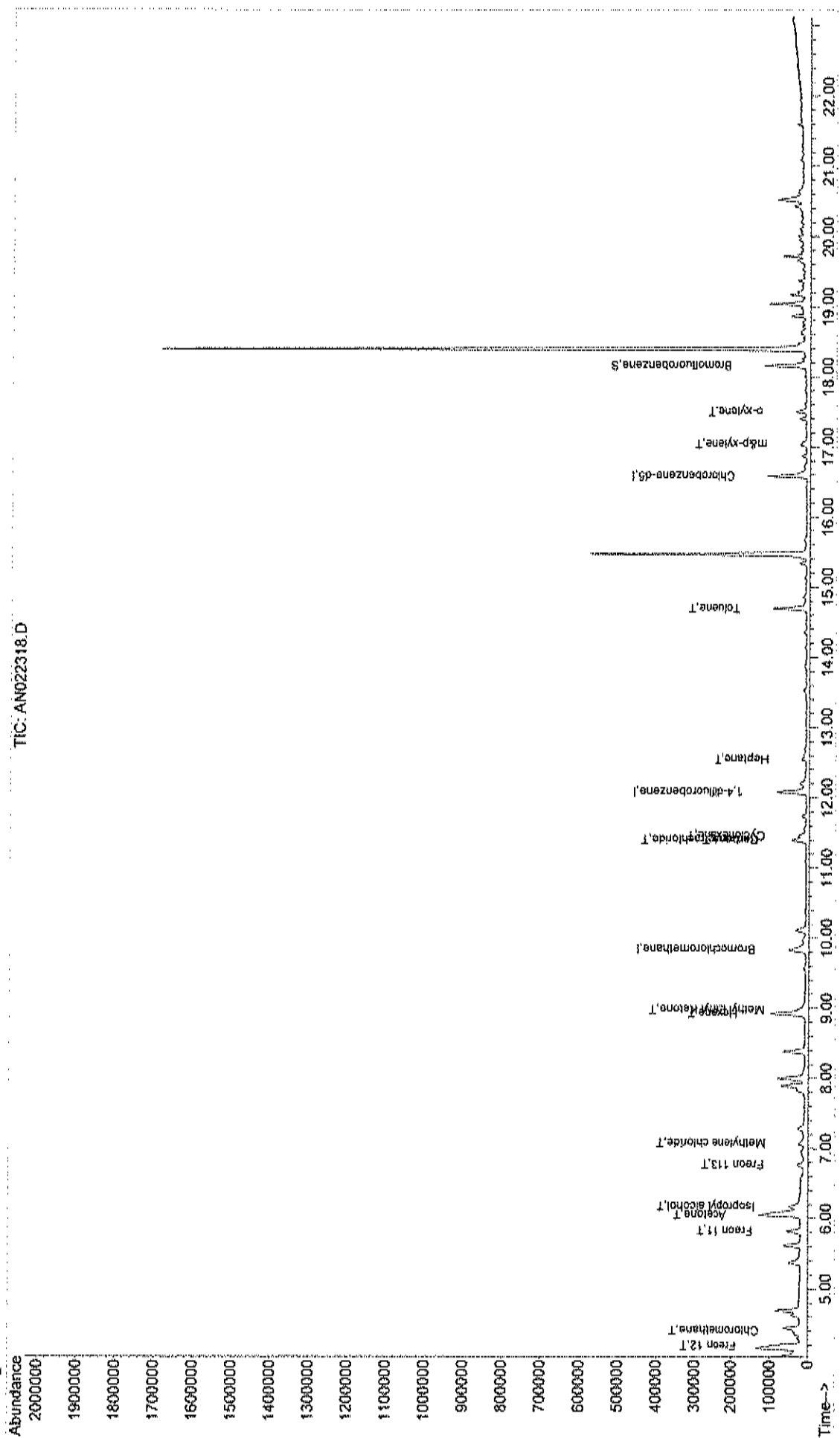
Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

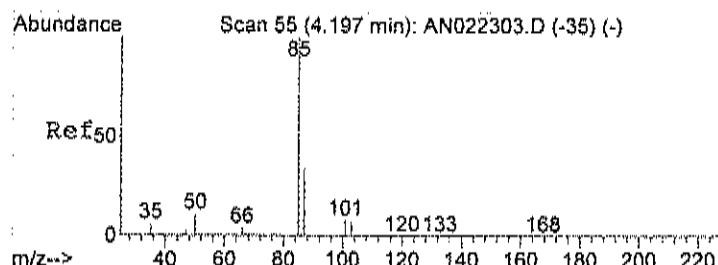
Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 03 10:59:01 2016

Response via : Initial Calibration

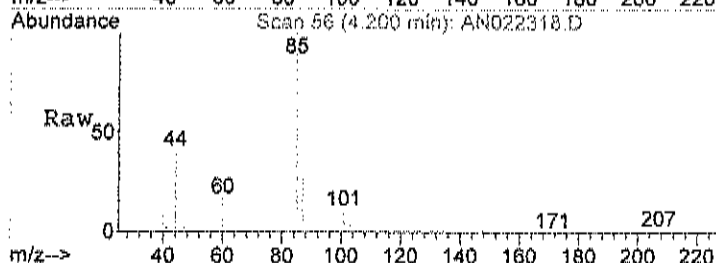
TIC: AN022318.D



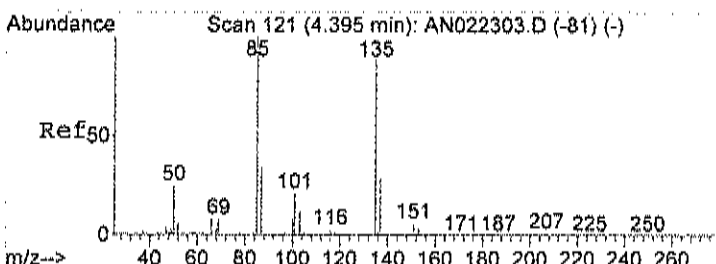
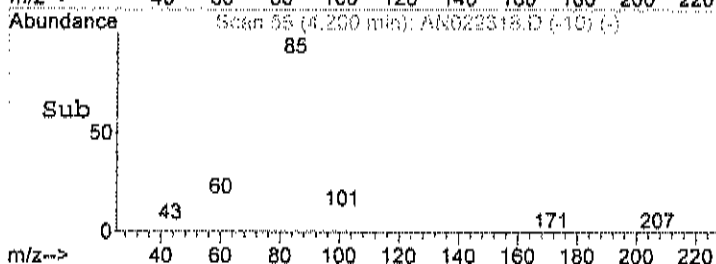
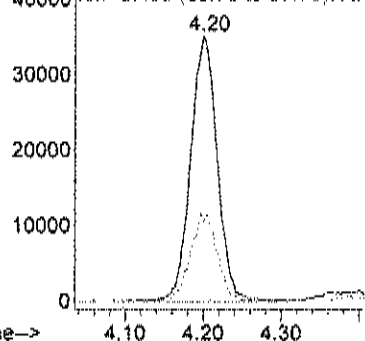


#3
Freon 12
Concen: 0.65 ppb
RT: 4.20 min Scan# 56
Delta R.T. -0.01 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

Tgt Ion: 85 Resp: 83274
Ion Ratio Lower Upper
85 100
87 33.2 12.5 52.5

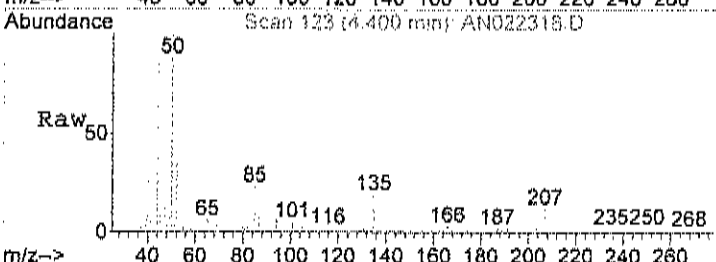


Abundance Ion 85.00 (84.70 to 85.70): ANI
Ion 87.00 (86.70 to 87.70): ANI

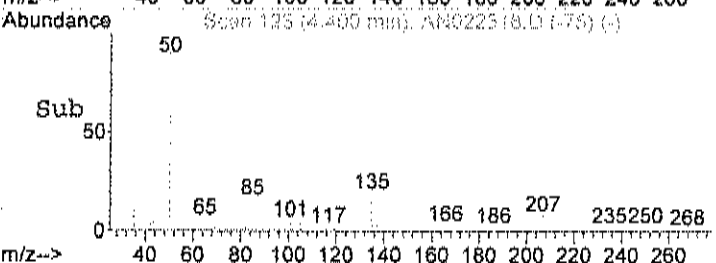
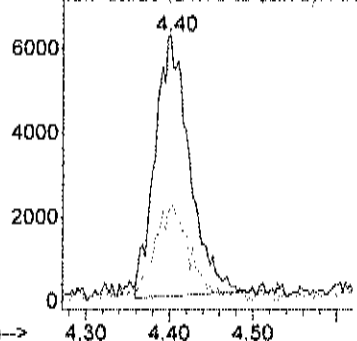


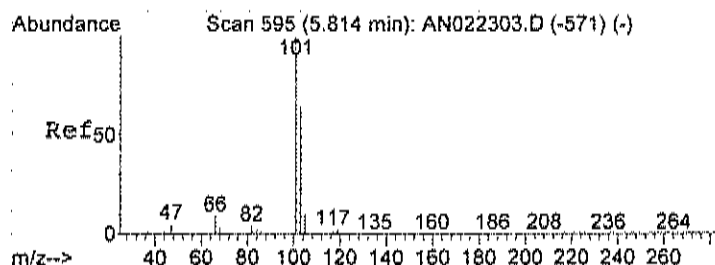
#4
Chloromethane
Concen: 0.46 ppb
RT: 4.40 min Scan# 123
Delta R.T. -0.01 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

Tgt Ion: 50 Resp: 17793
Ion Ratio Lower Upper
50 100
52 41.7 9.2 49.2



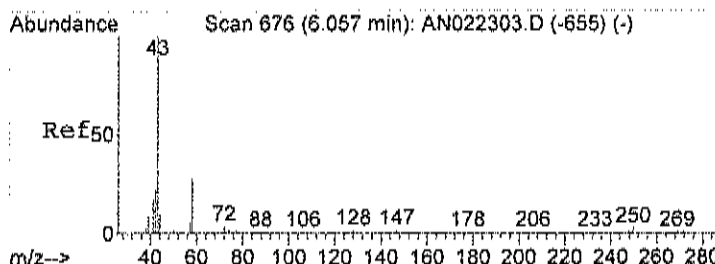
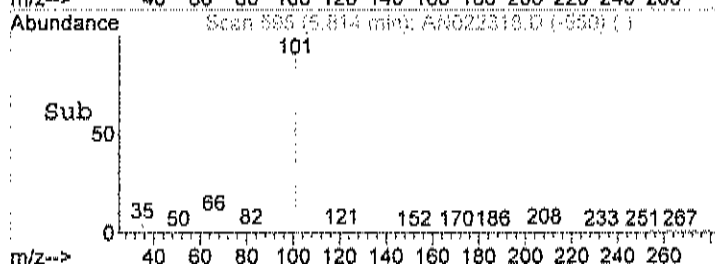
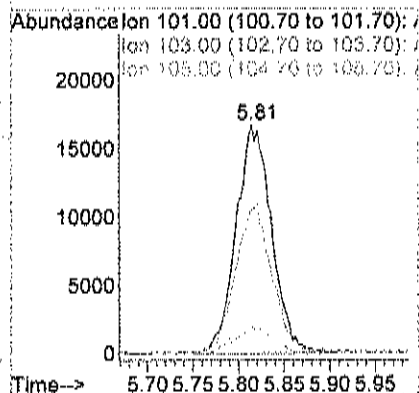
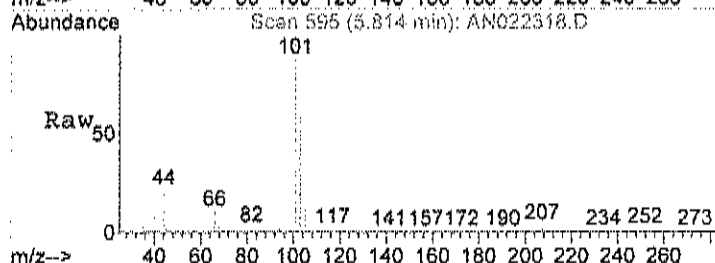
Abundance Ion 50.00 (49.70 to 50.70): ANI
Ion 52.00 (51.70 to 52.70): ANI





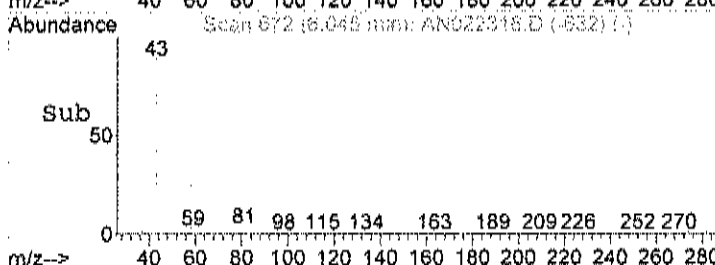
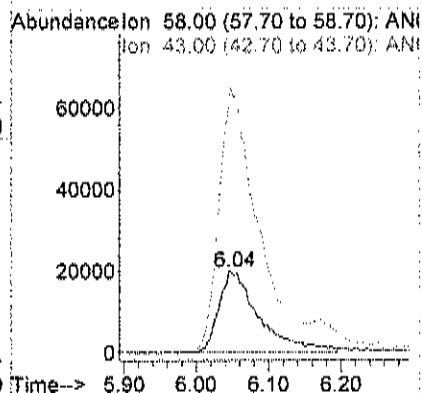
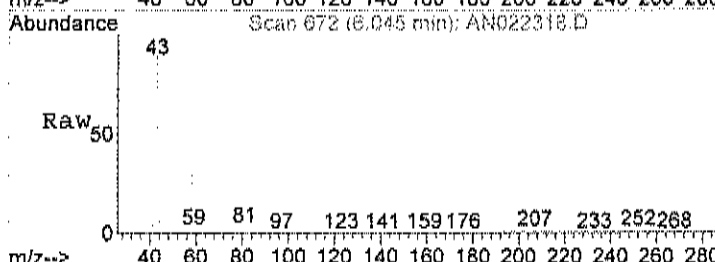
#14
Freon 11
Concen: 0.35 ppb
RT: 5.81 min Scan# 595
Delta R.T. -0.02 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

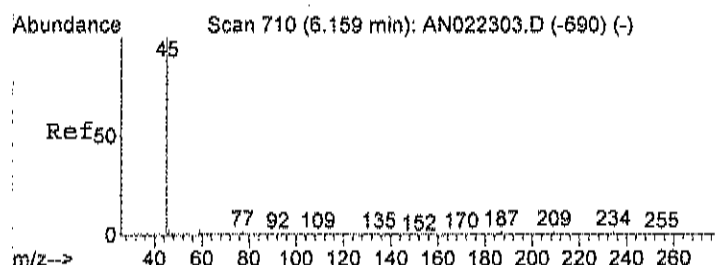
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.3	44.6	84.6
105	12.7	0.0	31.6



#15
Acetone
Concen: 6.24 ppb
RT: 6.04 min Scan# 672
Delta R.T. -0.03 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

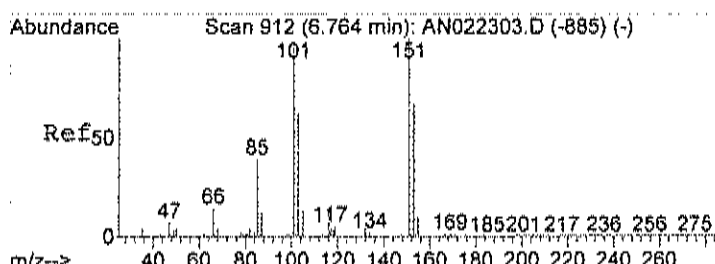
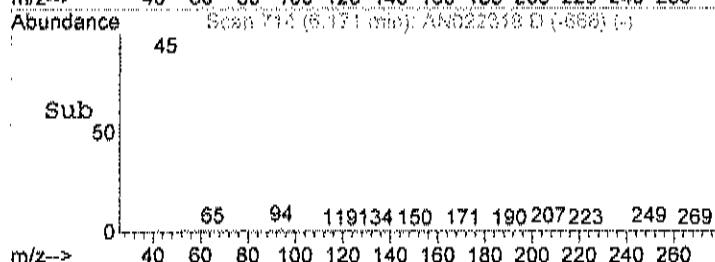
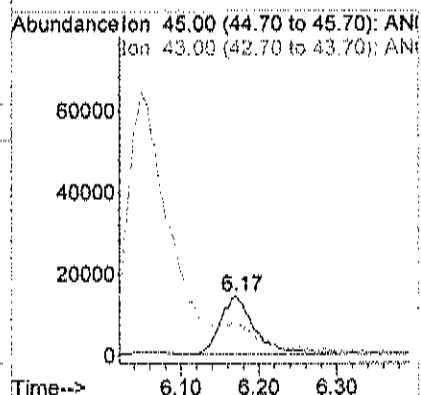
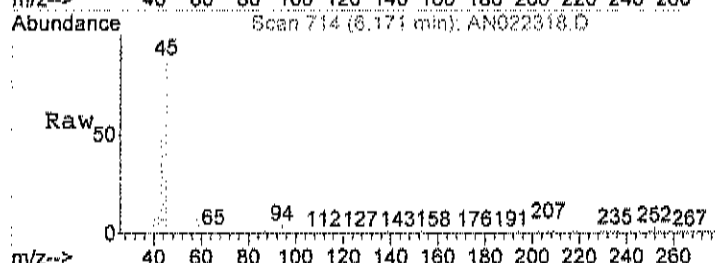
Tgt Ion	Ratio	Lower	Upper
58	100		
43	328.5	661.8	721.8#





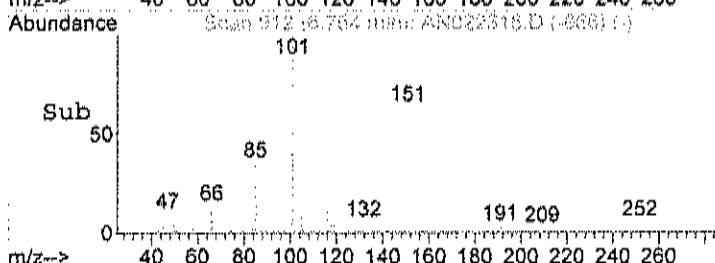
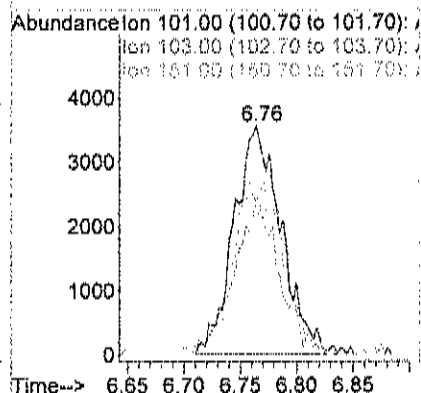
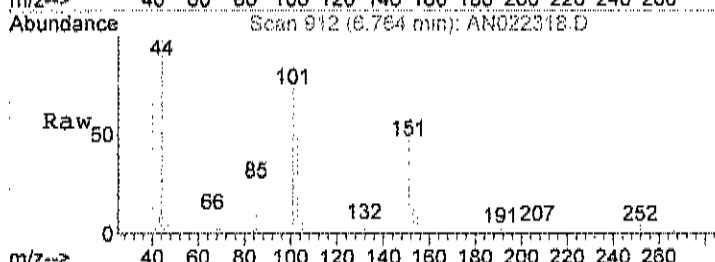
#17
Isopropyl alcohol
Concen: 1.24 ppb
RT: 6.17 min Scan# 714
Delta R.T. -0.01 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

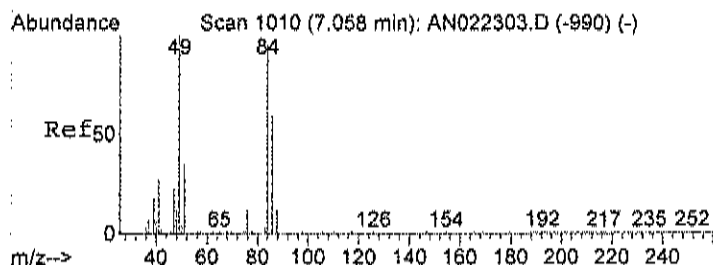
Tgt Ion:	45	Resp:	44694
Ion Ratio	Lower	Upper	
45	100		
43	0.0	8.9	48.9#



#19
Freon 113
Concen: 0.13 ppb
RT: 6.76 min Scan# 912
Delta R.T. -0.01 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

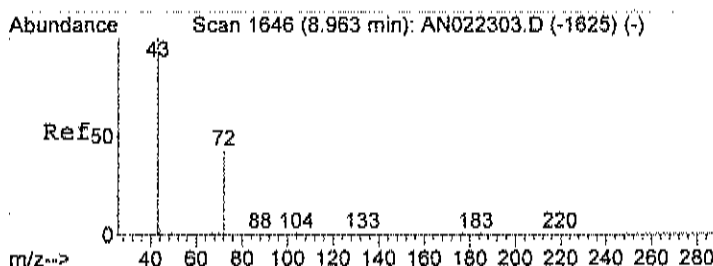
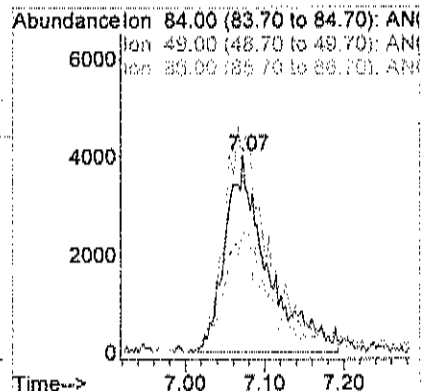
Tgt Ion:	101	Resp:	10408
Ion Ratio	Lower	Upper	
101	100		
103	64.9	42.5	82.5
151	80.2	70.9	110.9





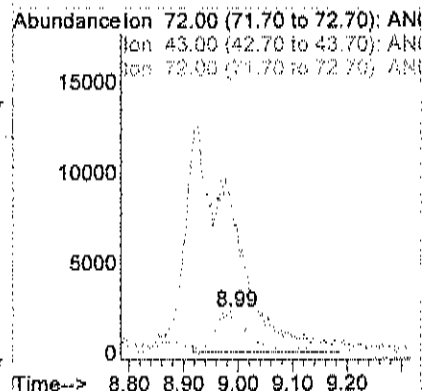
#21
Methylene chloride
Concen: 0.38 ppb
RT: 7.07 min Scan# 1015
Delta R.T. 0.00 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

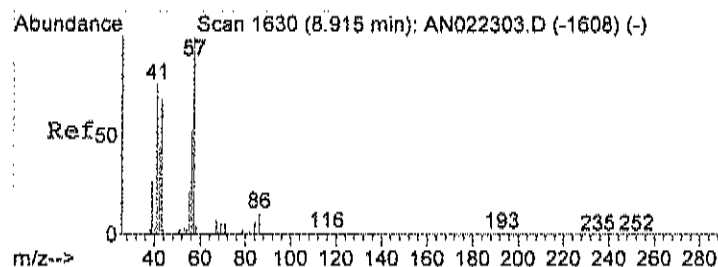
Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.9	87.8	127.8
86	64.3	43.1	83.1



#28
Methyl Ethyl Ketone
Concen: 0.52 ppb m
RT: 8.99 min Scan# 1654
Delta R.T. 0.01 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

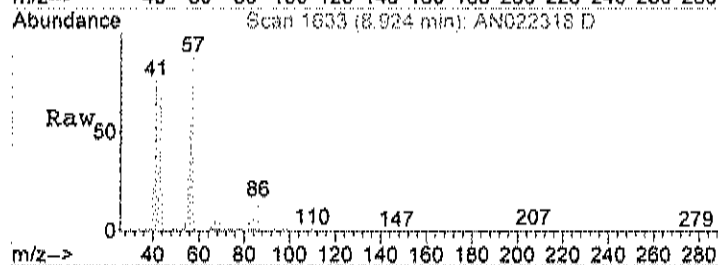
Tgt Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	115.5	80.0	120.0



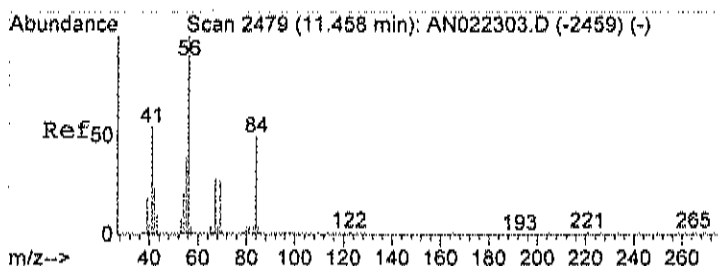
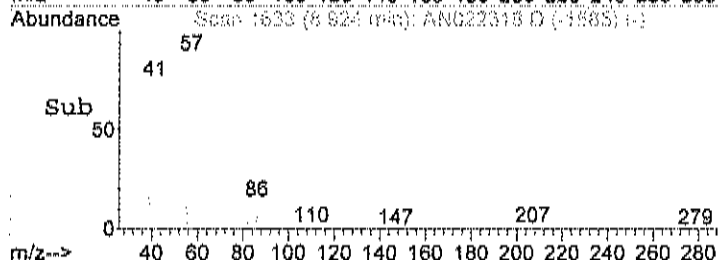
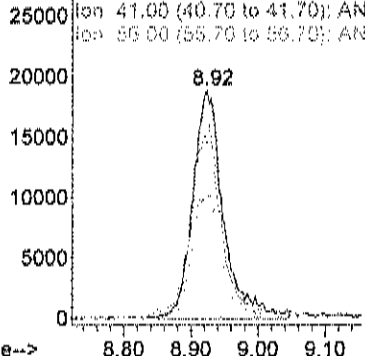


#30
Hexane
Concen: 0.93 ppb
RT: 8.92 min Scan# 1633
Delta R.T. -0.01 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

Tgt Ion	Ratio	Lower	Upper
57	100		
41	82.5	66.6	106.6
56	54.2	30.6	70.6

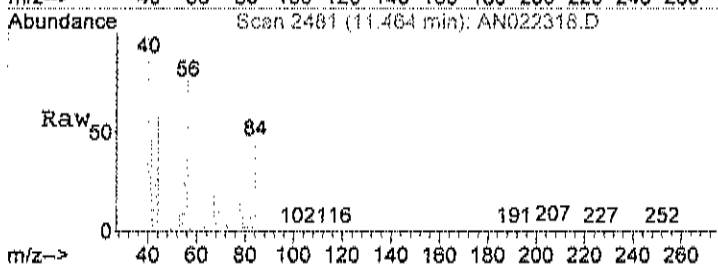


Abundance Ion 57.00 (56.70 to 57.70): ANI
Ion 41.00 (40.70 to 41.70): ANI
Ion 56.00 (55.70 to 56.70): ANI

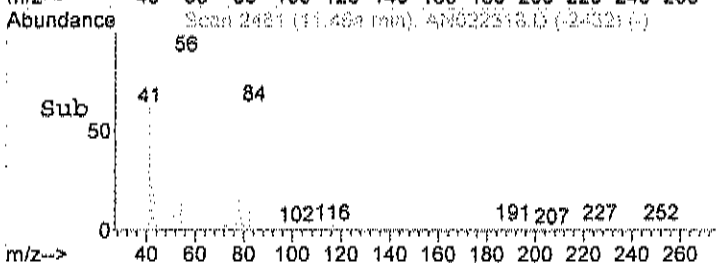
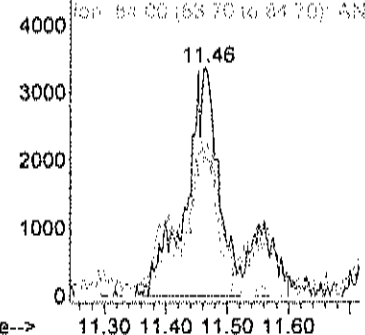


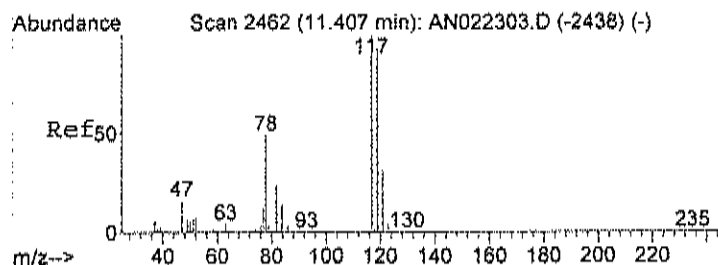
#37
Cyclohexane
Concen: 0.33 ppb
RT: 11.46 min Scan# 2481
Delta R.T. -0.00 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

Tgt Ion	Ratio	Lower	Upper
56	100		
41	76.4	47.3	87.3
84	53.7	88.1	128.1#



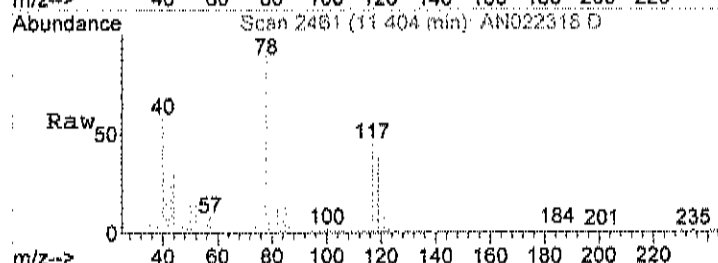
Abundance Ion 56.00 (55.70 to 56.70): ANI
Ion 41.00 (40.70 to 41.70): ANI
Ion 84.00 (83.70 to 84.70): ANI



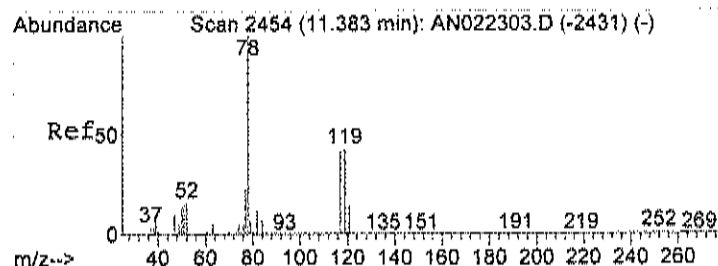
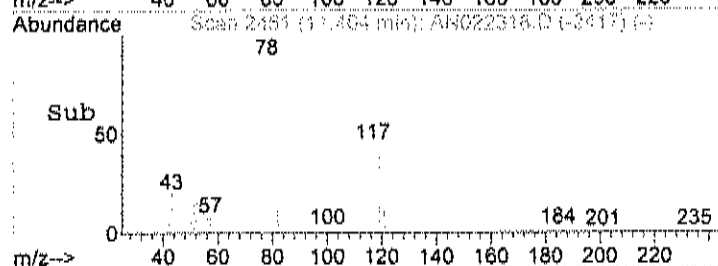
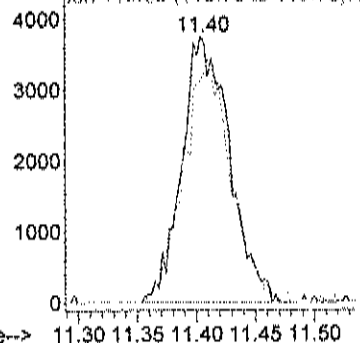


#38
Carbon tetrachloride
Concen: 0.15 ppb
RT: 11.40 min Scan# 2461
Delta R.T. -0.02 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

Tgt Ion: 117 Resp: 10562
Ion Ratio Lower Upper
117 100
119 91.0 74.5 114.5

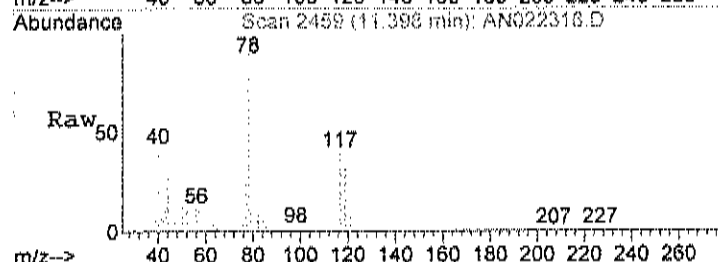


Abundance Ion 117.00 (116.70 to 117.70):
Ion 119.00 (118.70 to 119.70):

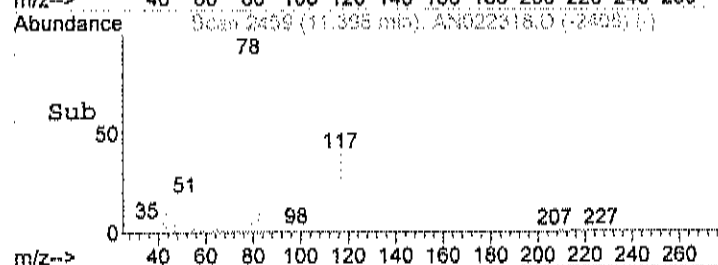
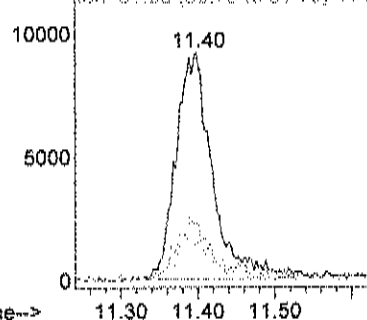


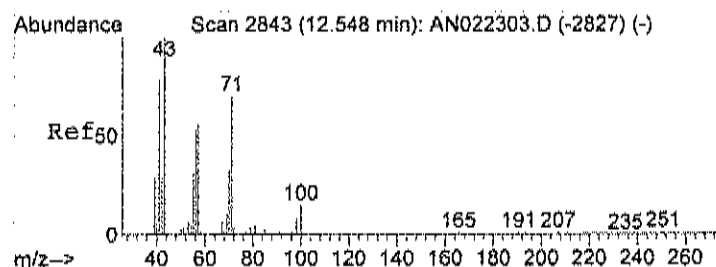
#39
Benzene
Concen: 0.34 ppb
RT: 11.40 min Scan# 2459
Delta R.T. 0.00 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

Tgt Ion: 78 Resp: 29996
Ion Ratio Lower Upper
78 100
77 31.7 6.0 46.0
51 21.5 2.1 42.1



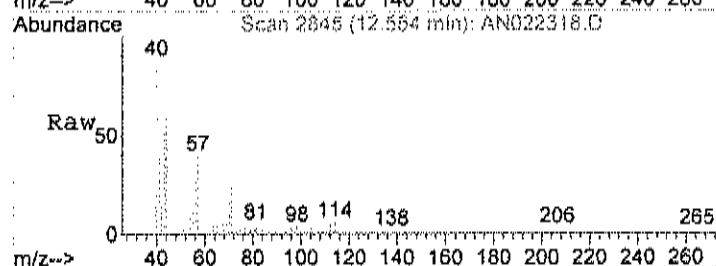
Abundance Ion 78.00 (77.70 to 78.70): ANI
Ion 77.00 (76.70 to 77.70): ANI
Ion 51.00 (50.70 to 51.70): ANI



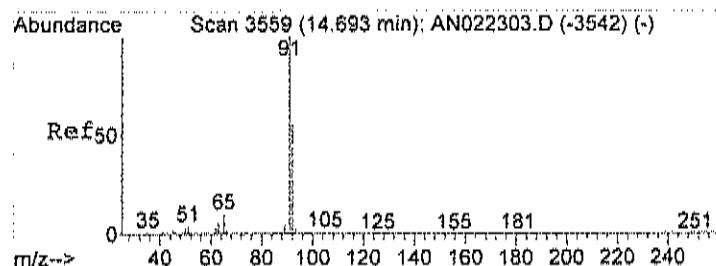
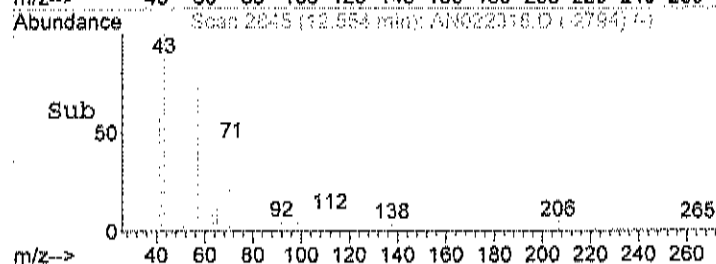
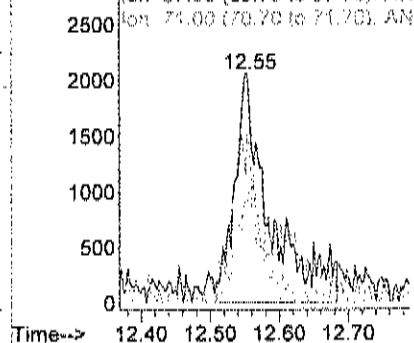


#43
Heptane
Concen: 0.15 ppb
RT: 12.55 min Scan# 2845
Delta R.T. 0.00 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

Tgt Ion: 43	Resp: 7635
Ion Ratio	Lower Upper
43	100
57	80.3 31.3 71.3#
71	35.1 34.8 74.8

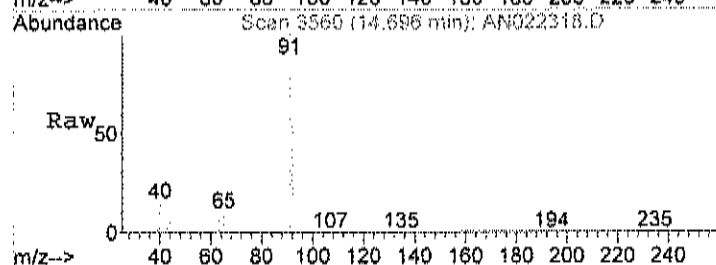


Abundance Ion 43.00 (42.70 to 43.70): ANI
Ion 57.00 (56.70 to 57.70): ANI
Ion 71.00 (70.70 to 71.70): ANI

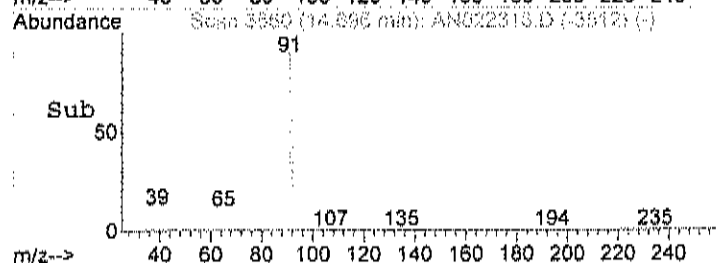
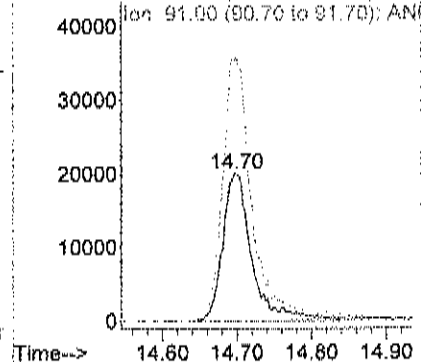


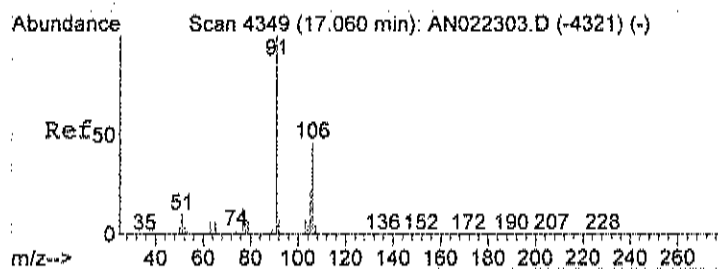
#51
Toluene
Concen: 0.92 ppb
RT: 14.70 min Scan# 3560
Delta R.T. -0.01 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

Tgt Ion: 92	Resp: 54023
Ion Ratio	Lower Upper
92	100
91	181.3 152.5 192.5



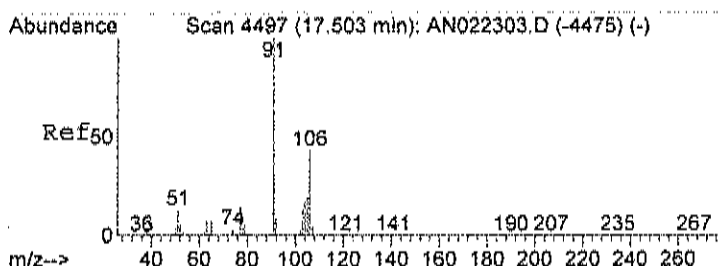
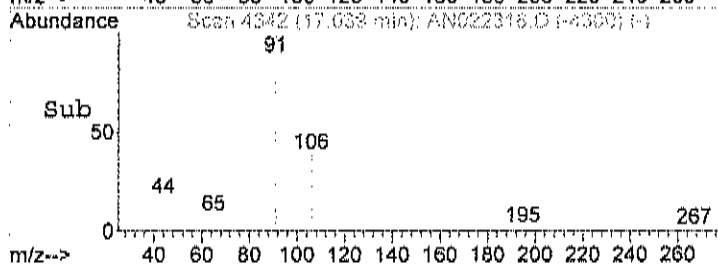
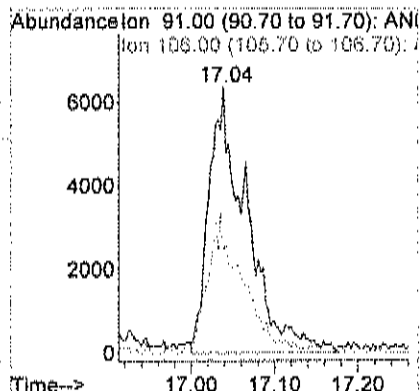
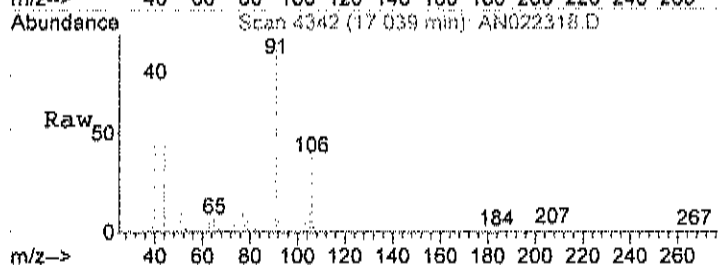
Abundance Ion 92.00 (91.70 to 92.70): ANI
Ion 91.00 (90.70 to 91.70): ANI





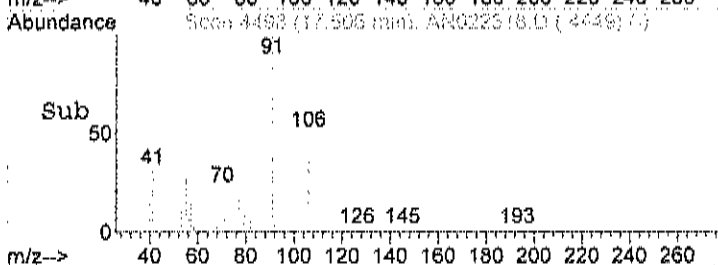
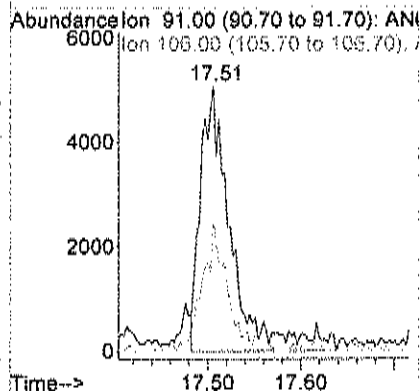
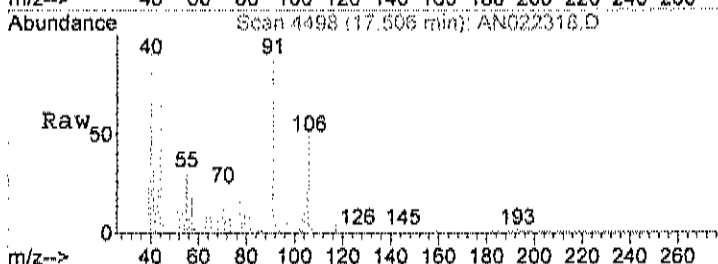
#60
m&p-xylene
Concen: 0.20 ppb
RT: 17.04 min Scan# 4342
Delta R.T. -0.02 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.3	25.3	65.3



#64
o-xylene
Concen: 0.10 ppb
RT: 17.51 min Scan# 4498
Delta R.T. -0.00 min
Lab File: AN022318.D
Acq: 23 Feb 2016 8:54 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	39.6	18.4	58.4



Data File : C:\HPCHEM\1\DATA\AN022327.D

Vial: 27

Acq On : 24 Feb 2016 2:40 am

Operator: RJP

Sample : C1602050-001A 5x

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:57 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	24766	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.09	114	81168	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	78831	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	40158	0.75	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	75.00%

Target Compounds

15) Acetone	6.08	58	14286	1.36	ppb	Qvalue # 1
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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022327.D
Acq On : 24 Feb 2016 2:40 am
Sample : C1602050-001A 5x
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:20 2016

Vial: 27

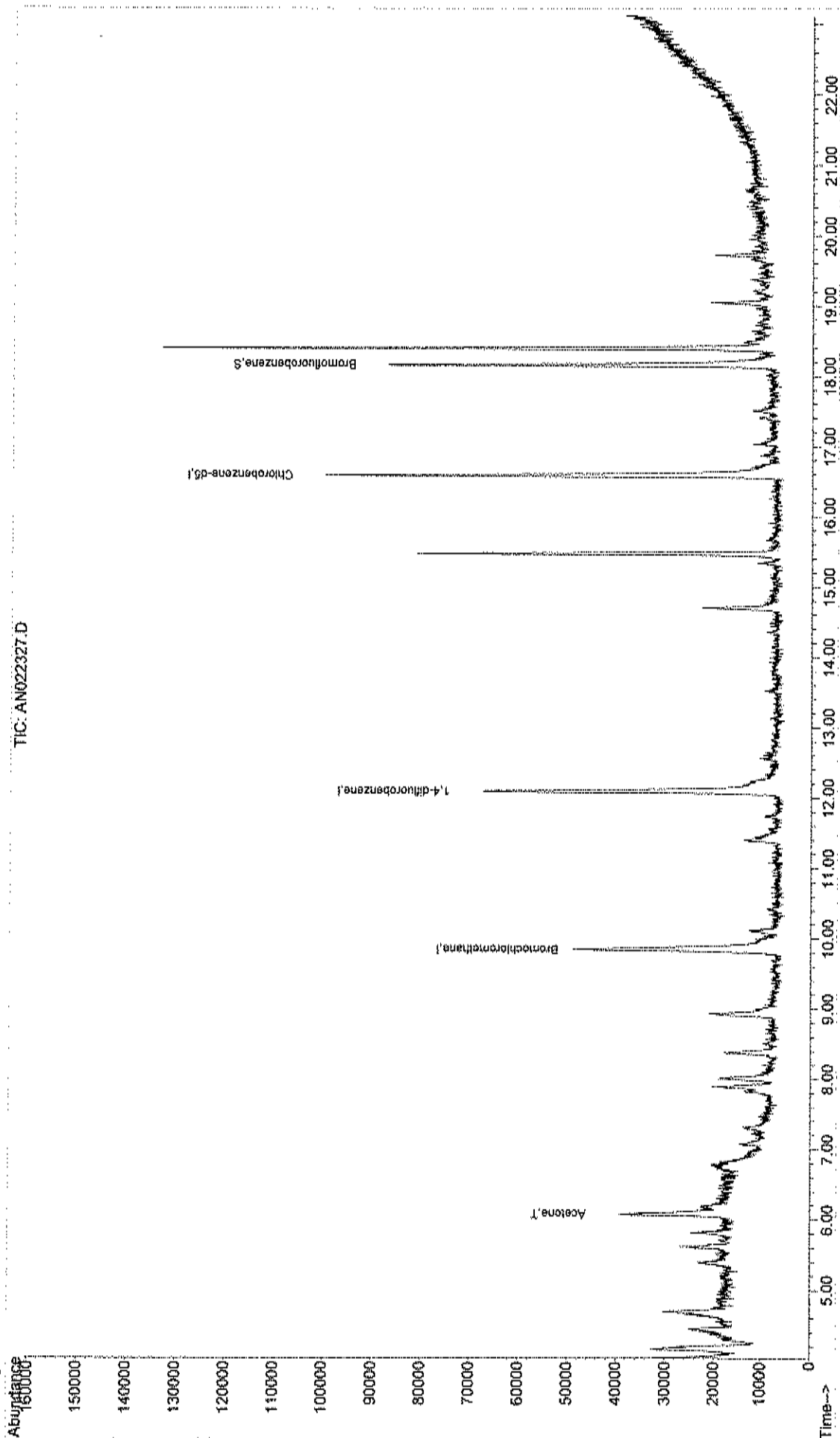
Operator: RJP

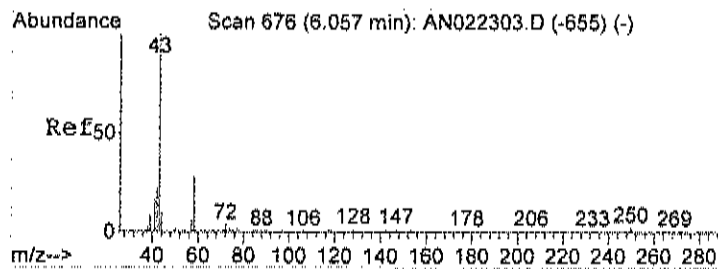
Inst : MSD #1

Multiplr: 1.00

Quant Results File: A204_1UG.RES

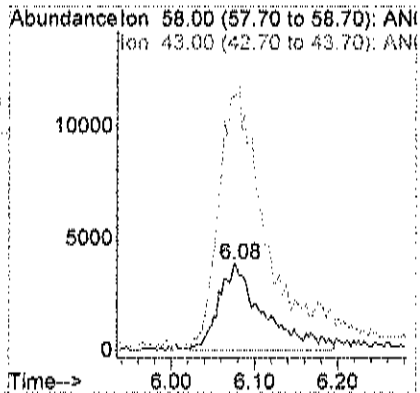
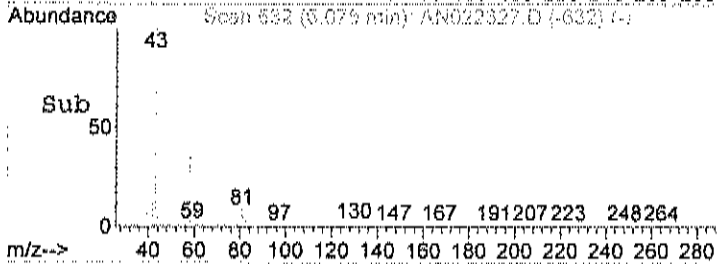
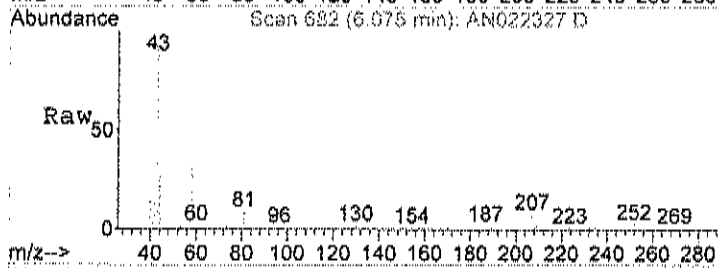
Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration





#15
 Acetone
 Concen: 1.36 ppb
 RT: 6.08 min Scan# 682
 Delta R.T. 0.00 min
 Lab File: AN022327.D
 Acq: 24 Feb 2016 2:40 am

Tgt Ion: 58 Resp: 14286
 Ion Ratio Lower Upper
 58 100
 43 329.7 661.8 721.8#



Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-002A

Client Sample ID: Rm 134
 Tag Number: 222,267
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2,4-Trimethylbenzene	0.16	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 9:33:00 PM
2,2,4-trimethylpentane	0.25	0.15		ppbV	1	2/23/2016 9:33:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Acetone	6.0	1.5		ppbV	5	2/24/2016 3:17:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Benzene	0.41	0.15		ppbV	1	2/23/2016 9:33:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Carbon tetrachloride	0.14	0.040		ppbV	1	2/23/2016 9:33:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Chloroform	0.24	0.15		ppbV	1	2/23/2016 9:33:00 PM
Chloromethane	0.55	0.15		ppbV	1	2/23/2016 9:33:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Cyclohexane	0.20	0.15		ppbV	1	2/23/2016 9:33:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 9:33:00 PM

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-002A

Client Sample ID: Rm 134
 Tag Number: 222,267
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	0.13	0.15	J	ppbV	1	2/23/2016 9:33:00 PM
Freon 11	0.35	0.15		ppbV	1	2/23/2016 9:33:00 PM
Freon 113	0.12	0.15	J	ppbV	1	2/23/2016 9:33:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Freon 12	0.63	0.15		ppbV	1	2/23/2016 9:33:00 PM
Heptane	0.24	0.15		ppbV	1	2/23/2016 9:33:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Hexane	0.73	0.15		ppbV	1	2/23/2016 9:33:00 PM
Isopropyl alcohol	2.0	0.15		ppbV	1	2/23/2016 9:33:00 PM
m&p-Xylene	0.54	0.30		ppbV	1	2/23/2016 9:33:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 9:33:00 PM
Methyl Ethyl Ketone	0.58	0.30		ppbV	1	2/23/2016 9:33:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 9:33:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Methylene chloride	0.47	0.15		ppbV	1	2/23/2016 9:33:00 PM
o-Xylene	0.19	0.15		ppbV	1	2/23/2016 9:33:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Toluene	0.94	0.15		ppbV	1	2/23/2016 9:33:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Trichloroethene	0.060	0.040		ppbV	1	2/23/2016 9:33:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 9:33:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 9:33:00 PM
Surr: Bromofluorobenzene	92.0	70-130		%REC	1	2/23/2016 9:33:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 134

Lab Order: C1602050

Tag Number: 222,267

Project: 690 St Paul

Collection Date: 2/17/2016

Lab ID: C1602050-002A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 9:33:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 9:33:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 9:33:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 9:33:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 9:33:00 PM
1,2,4-Trimethylbenzene	0.79	0.74		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 9:33:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 9:33:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 9:33:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 9:33:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 9:33:00 PM
2,2,4-trimethylpentane	1.2	0.70		ug/m3	1	2/23/2016 9:33:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 9:33:00 PM
Acetone	14	3.6		ug/m3	5	2/24/2016 3:17:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 9:33:00 PM
Benzene	1.3	0.48		ug/m3	1	2/23/2016 9:33:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 9:33:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 9:33:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 9:33:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 9:33:00 PM
Carbon tetrachloride	0.88	0.25		ug/m3	1	2/23/2016 9:33:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 9:33:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 9:33:00 PM
Chloroform	1.2	0.73		ug/m3	1	2/23/2016 9:33:00 PM
Chloromethane	1.1	0.31		ug/m3	1	2/23/2016 9:33:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 9:33:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 9:33:00 PM
Cyclohexane	0.69	0.52		ug/m3	1	2/23/2016 9:33:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 9:33:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 9:33:00 PM
Ethylbenzene	0.56	0.65	J	ug/m3	1	2/23/2016 9:33:00 PM
Freon 11	2.0	0.84		ug/m3	1	2/23/2016 9:33:00 PM
Freon 113	0.92	1.1	J	ug/m3	1	2/23/2016 9:33:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 134

Lab Order: C1602050

Tag Number: 222,267

Project: 690 St Paul

Collection Date: 2/17/2016

Lab ID: C1602050-002A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15		Analyst: RJP	
Freon 12	3.1	0.74		ug/m3	1	2/23/2016 9:33:00 PM
Heptane	0.98	0.61		ug/m3	1	2/23/2016 9:33:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 9:33:00 PM
Hexane	2.6	0.53		ug/m3	1	2/23/2016 9:33:00 PM
Isopropyl alcohol	4.9	0.37		ug/m3	1	2/23/2016 9:33:00 PM
m&p-Xylene	2.3	1.3		ug/m3	1	2/23/2016 9:33:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 9:33:00 PM
Methyl Ethyl Ketone	1.7	0.88		ug/m3	1	2/23/2016 9:33:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 9:33:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 9:33:00 PM
Methylene chloride	1.6	0.52		ug/m3	1	2/23/2016 9:33:00 PM
o-Xylene	0.82	0.65		ug/m3	1	2/23/2016 9:33:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 9:33:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 9:33:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 9:33:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 9:33:00 PM
Toluene	3.5	0.57		ug/m3	1	2/23/2016 9:33:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 9:33:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 9:33:00 PM
Trichloroethene	0.32	0.21		ug/m3	1	2/23/2016 9:33:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 9:33:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 9:33:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 9:33:00 PM

Qualifiers: ** Reporting Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected

E Value above quantitation range

J Analyte detected at or below quantitation limits

ND Not Detected at the Reporting Limit

Page 4 of 16

Data File : C:\HPCHEM\1\DATA\AN022319.D
 Acq On : 23 Feb 2016 9:33 pm
 Sample : C1602050-002A
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 24 08:36:49 2016

Vial: 19
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 11 11:13:02 2016
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	30379	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.08	114	103994	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	88174	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	55089	0.92	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	92.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	4.20	85	83339	0.63	ppb	100
4) Chloromethane	4.40	50	21892	0.55	ppb	92
14) Freon 11	5.81	101	47130	0.35	ppb	97
15) Acetone	6.03	58	70625	5.50	ppb	# 1
17) Isopropyl alcohol	6.17	45	74093	2.00	ppb	# 46
19) Freon 113	6.77	101	9836	0.12	ppb	92
21) Methylene chloride	7.06	84	18564	0.47	ppb	91
28) Methyl Ethyl Ketone	8.98	72	11425m	0.58	ppb	
30) Hexane	8.92	57	48141	0.73	ppb	95
32) Chloroform	9.96	83	23174	0.24	ppb	97
37) Cyclohexane	11.46	56	10026m	0.20	ppb	
38) Carbon tetrachloride	11.40	117	10137	0.14	ppb	98
39) Benzene	11.39	78	37744	0.41	ppb	93
42) 2,2,4-trimethylpentane	12.21	57	42048	0.25	ppb	83
43) Heptane	12.55	43	12678	0.24	ppb	80
44) Trichloroethene	12.70	130	2666	0.06	ppb	95
51) Toluene	14.70	92	55212	0.94	ppb	95
59) Ethylbenzene	16.86	91	17256	0.13	ppb	97
60) m&p-xylene	17.03	91	53279	0.54	ppb	94
64) o-xylene	17.51	91	21936	0.19	ppb	85
72) 1,2,4-trimethylbenzene	19.20	105	17037	0.16	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN022319.D A204_1UG.M Thu Mar 03 11:00:15 2016 MSD1

Quantitation Report (QT Reviewed)

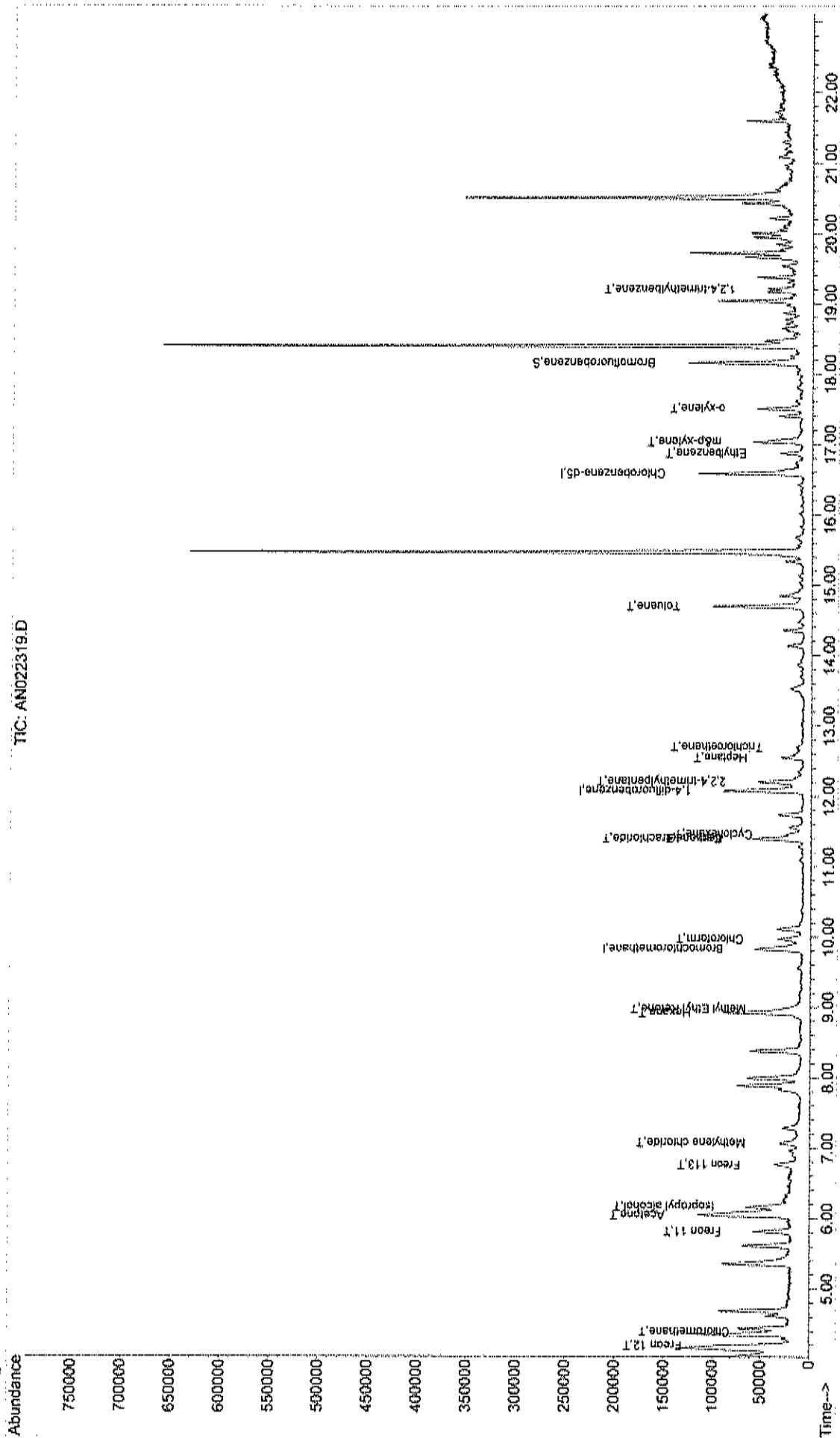
Data File : C:\HPCHEM\1\DATA\AN022319.D
Acq On : 23 Feb 2016 9:33 pm
Sample : C1602050-002A
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:07 2016

Vial: 19
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

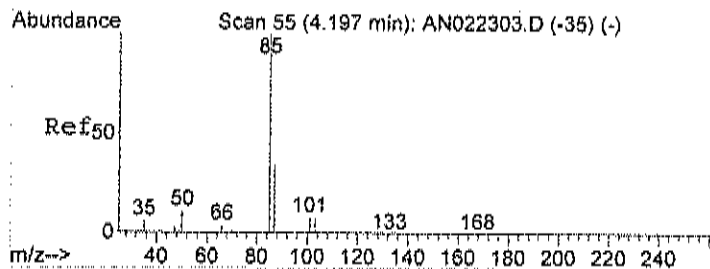
Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration

TIC: AN022319.D



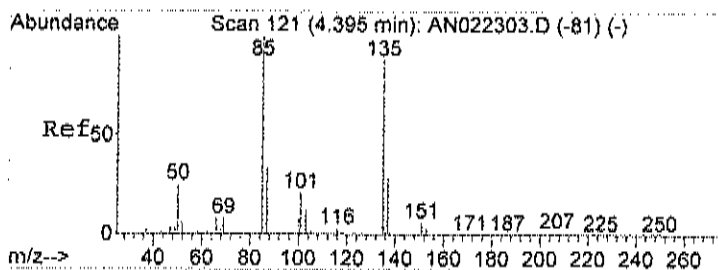
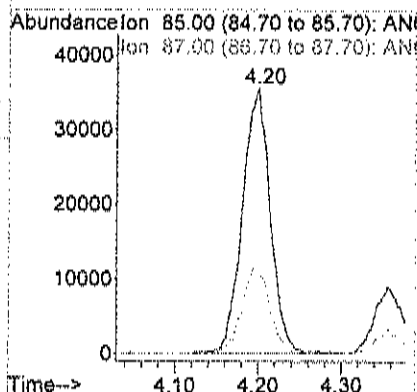
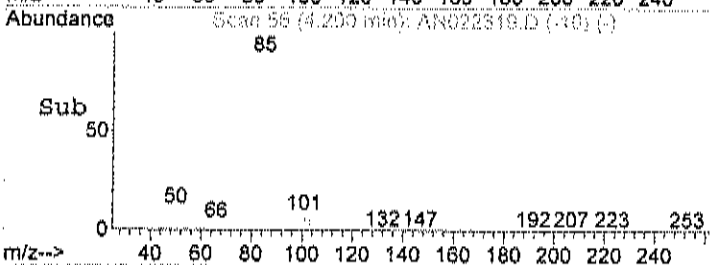
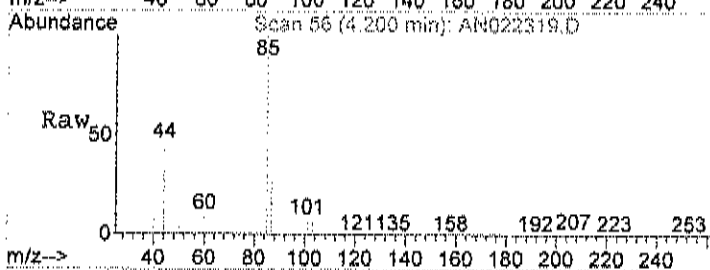
AN022319.D A204_1UG.M Thu Mar 03 11:00:16 2016

MSD1



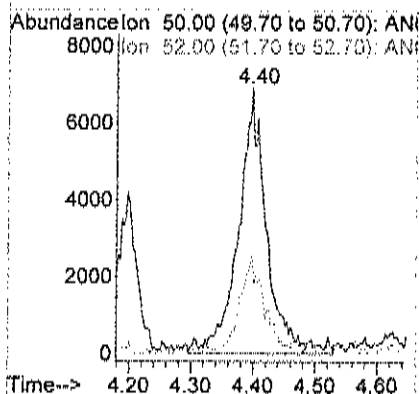
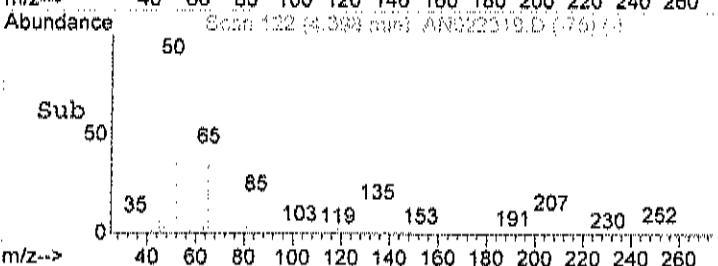
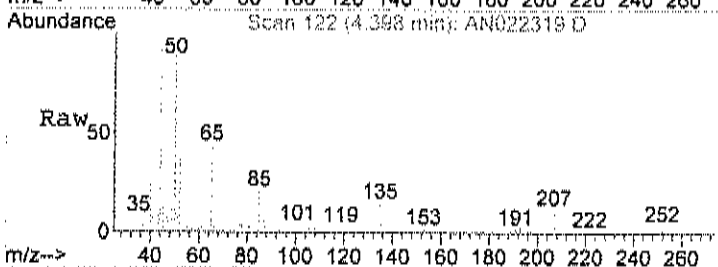
#3
Freon 12
Concen: 0.63 ppb
RT: 4.20 min Scan# 56
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

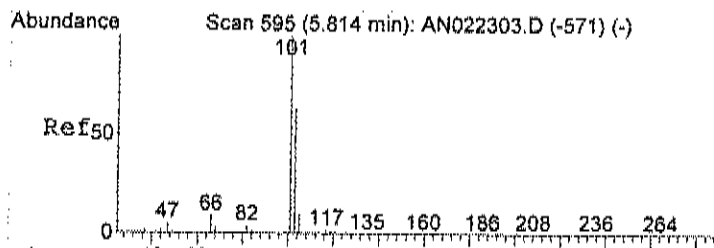
Tgt Ion: 85 Resp: 83339
Ion Ratio Lower Upper
85 100
87 32.3 12.5 52.5



#4
Chloromethane
Concen: 0.55 ppb
RT: 4.40 min Scan# 122
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

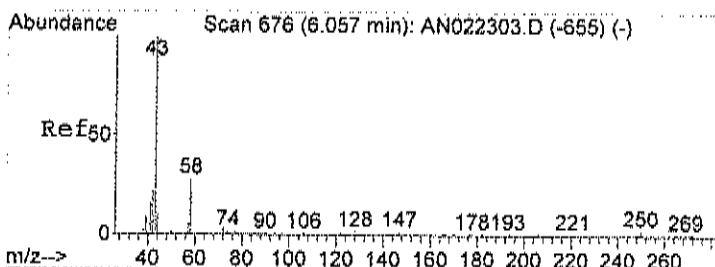
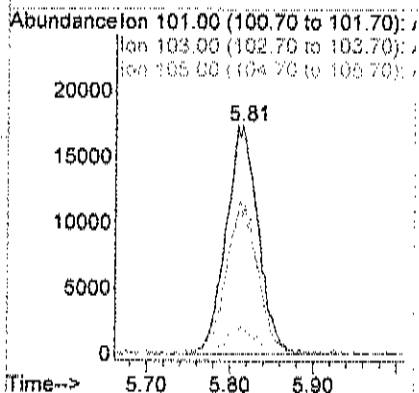
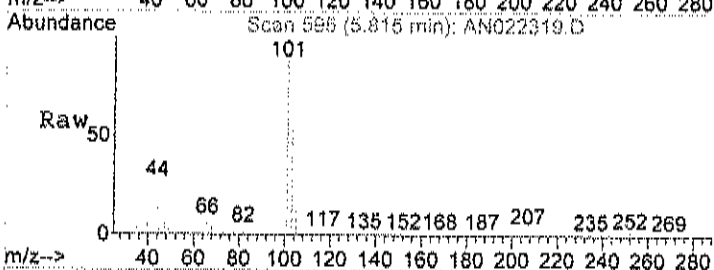
Tgt Ion: 50 Resp: 21892
Ion Ratio Lower Upper
50 100
52 33.7 9.2 49.2





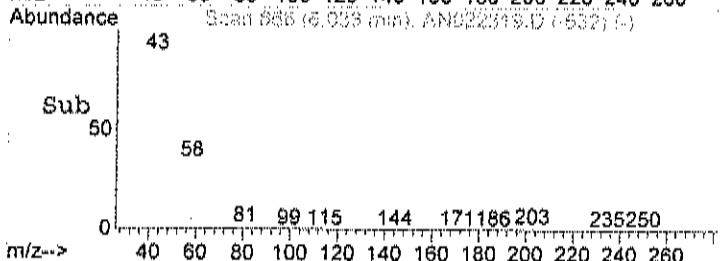
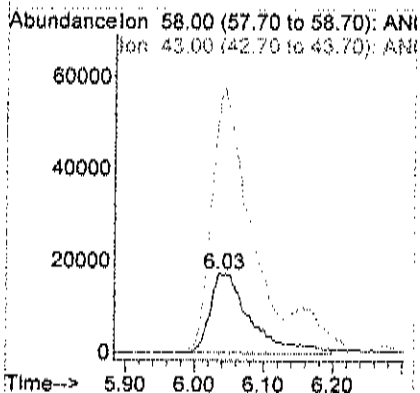
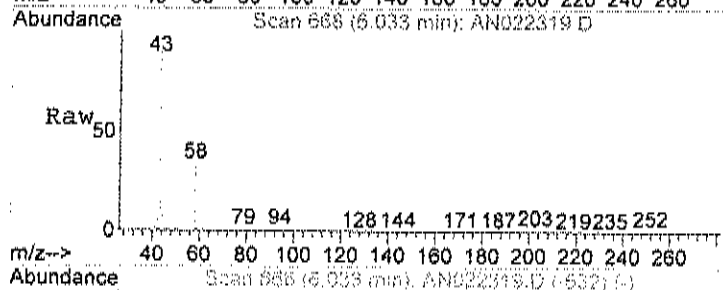
#14
Freon 11
Concen: 0.35 ppb
RT: 5.81 min Scan# 595
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

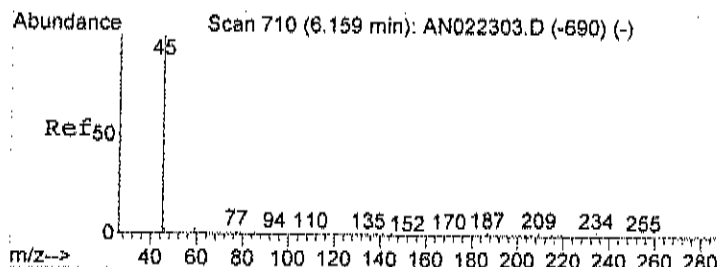
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.6	44.6	84.6
105	12.6	0.0	31.6



#15
Acetone
Concen: 5.50 ppb
RT: 6.03 min Scan# 668
Delta R.T. -0.04 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

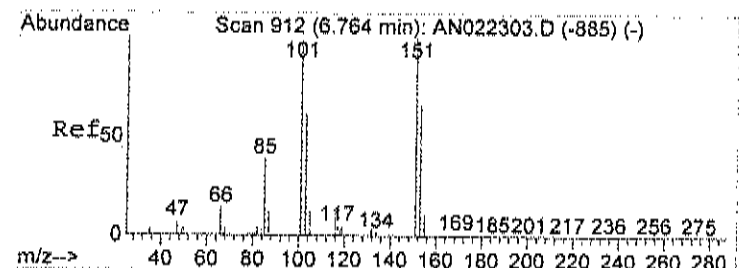
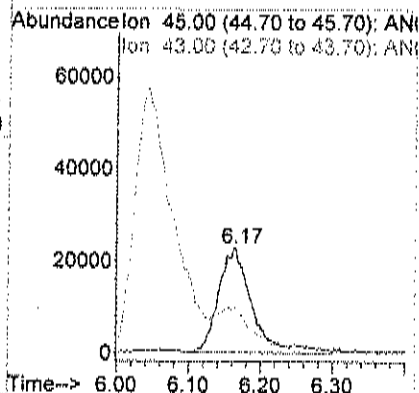
Tgt Ion	Ratio	Lower	Upper
58	100		
43	349.6	661.8	721.8#





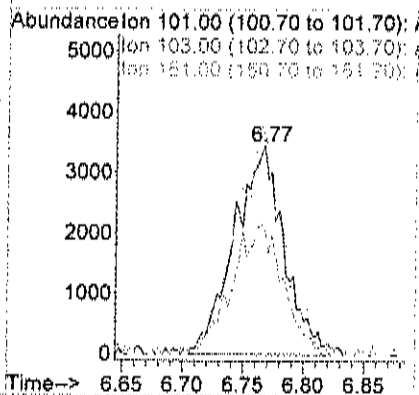
#17
Isopropyl alcohol
Concen: 2.00 ppb
RT: 6.17 min Scan# 712
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

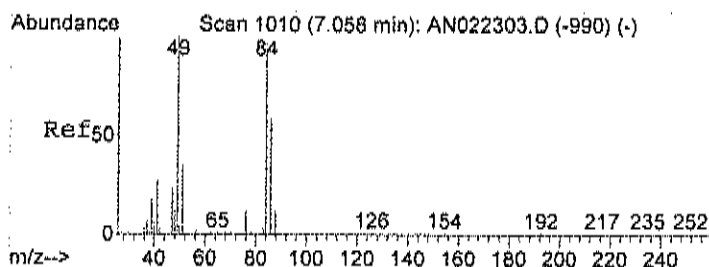
Tgt Ion: 45 Resp: 74093
Ion Ratio Lower Upper
45 100
43 0.0 8.9 48.9#



#19
Freon 113
Concen: 0.12 ppb
RT: 6.77 min Scan# 913
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

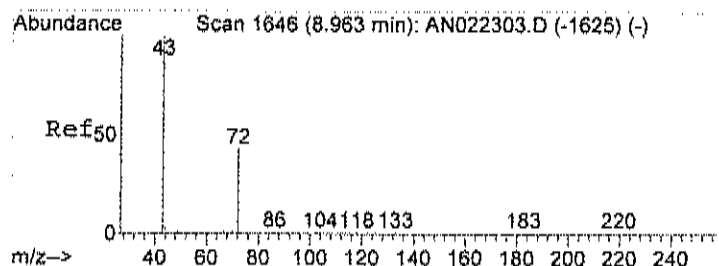
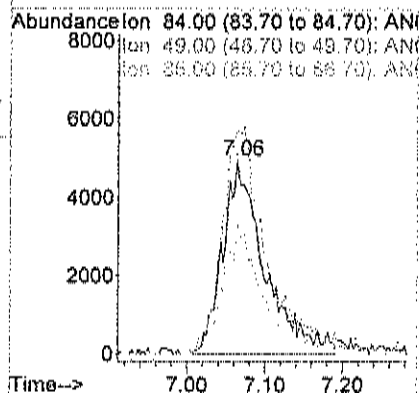
Tgt Ion: 101 Resp: 9836
Ion Ratio Lower Upper
101 100
103 64.1 42.5 82.5
151 101.9 70.9 110.9





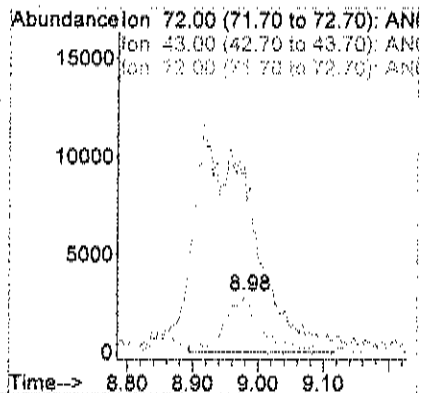
#21
Methylene chloride
Concen: 0.47 ppb
RT: 7.06 min Scan# 1012
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

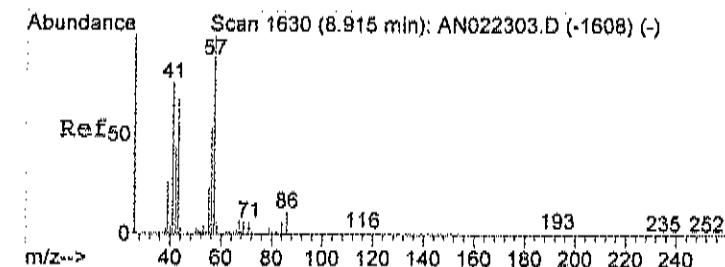
Tgt Ion	Ratio	Lower	Upper
84	100		
49	121.1	87.8	127.8
86	65.5	43.1	83.1



#28
Methyl Ethyl Ketone
Concen: 0.58 ppb m
RT: 8.98 min Scan# 1651
Delta R.T. 0.00 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

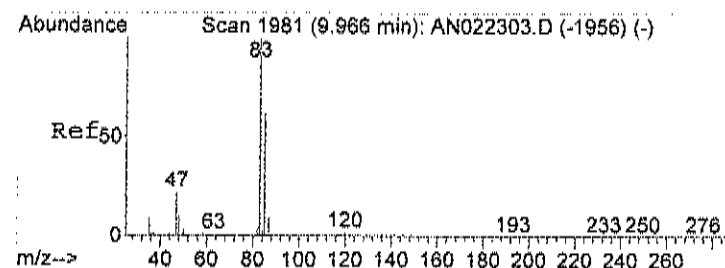
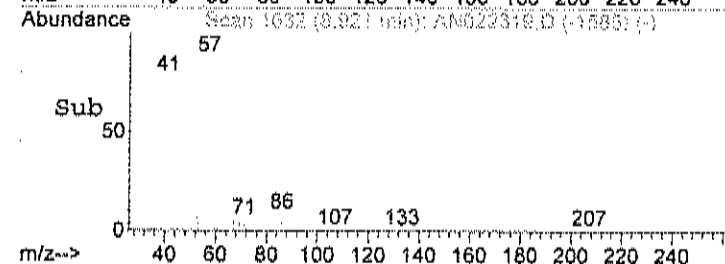
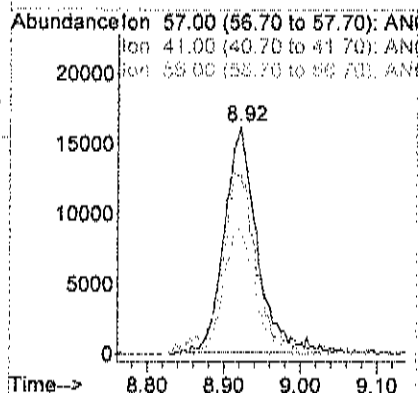
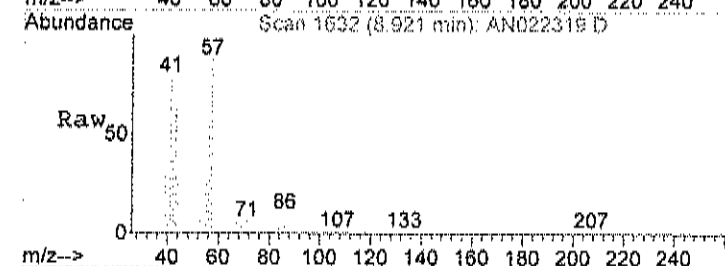
Tgt Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	116.4	80.0	120.0





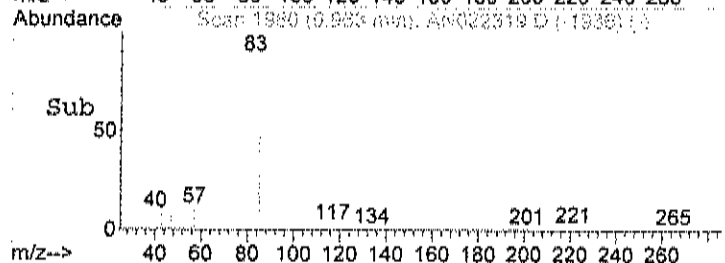
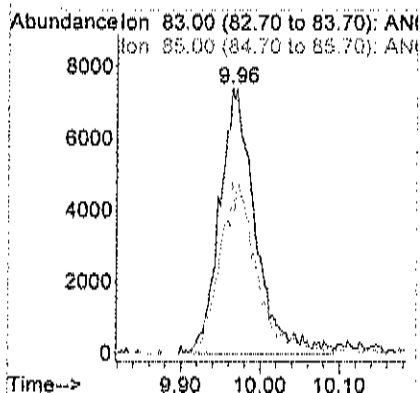
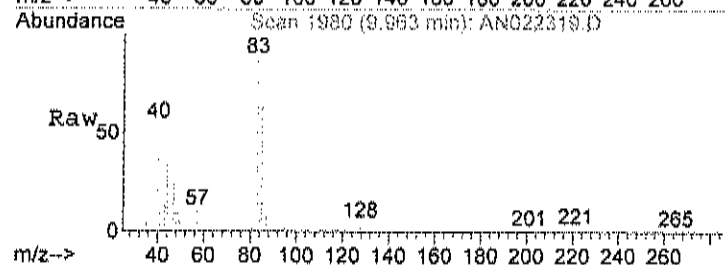
#30
Hexane
Concen: 0.73 ppb
RT: 8.92 min Scan# 1632
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

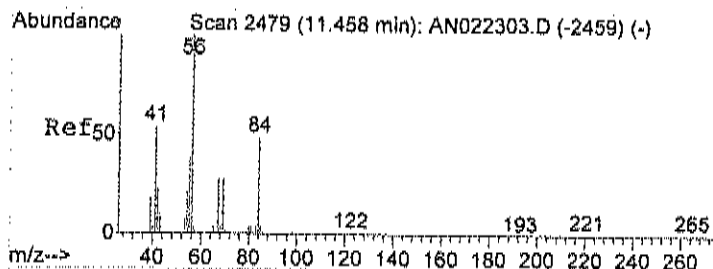
Tgt Ion: 57 Resp: 48141
Ion Ratio Lower Upper
57 100
41 89.3 66.6 106.6
56 56.4 30.6 70.6



#32
Chloroform
Concen: 0.24 ppb
RT: 9.96 min Scan# 1980
Delta R.T. -0.02 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

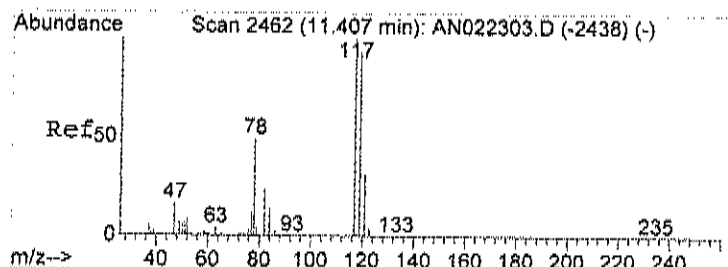
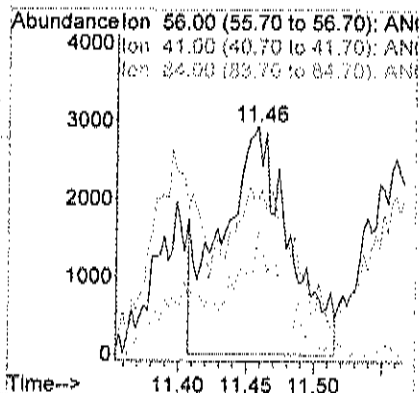
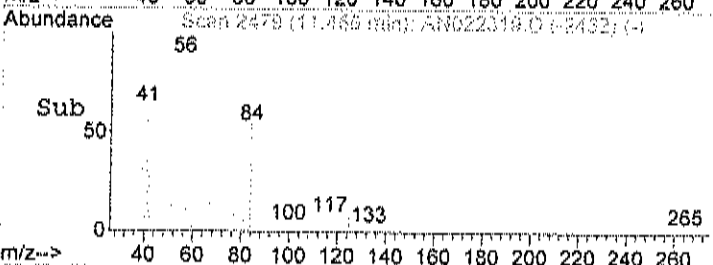
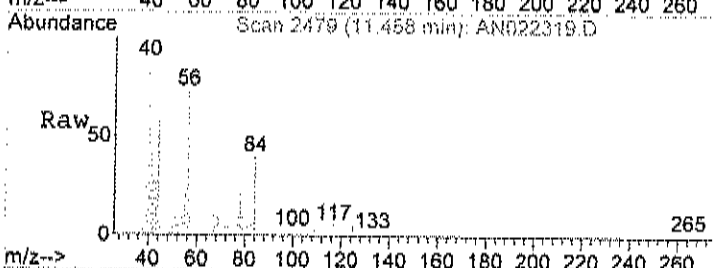
Tgt Ion: 83 Resp: 23174
Ion Ratio Lower Upper
83 100
85 66.4 43.9 83.9





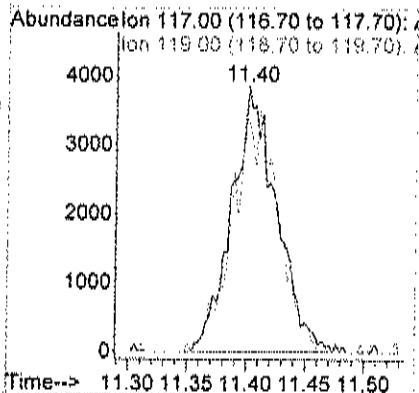
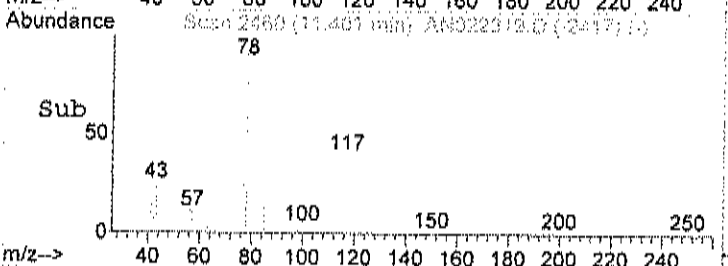
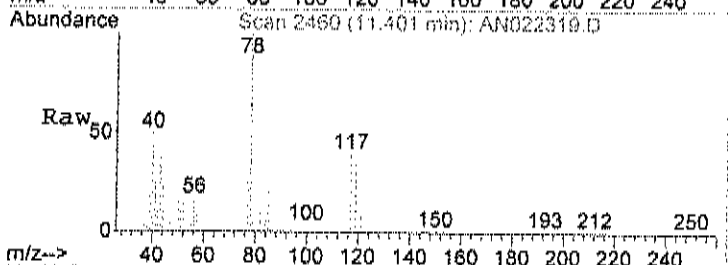
#37
Cyclohexane
Concen: 0.20 ppb m
RT: 11.46 min Scan# 2479
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

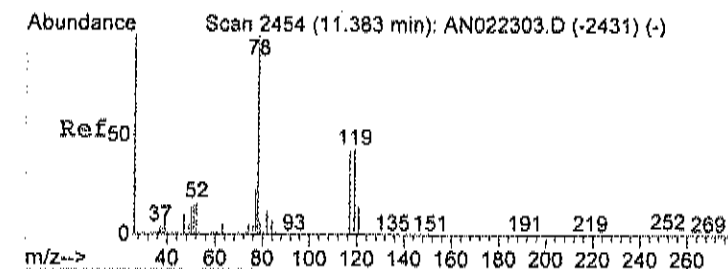
Tgt Ion	56	Resp	10026
Ion Ratio	Lower	Upper	
56	100		
41	0.0	47.3	87.3#
84	58.5	88.1	128.1#



#38
Carbon tetrachloride
Concen: 0.14 ppb
RT: 11.40 min Scan# 2460
Delta R.T. -0.02 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

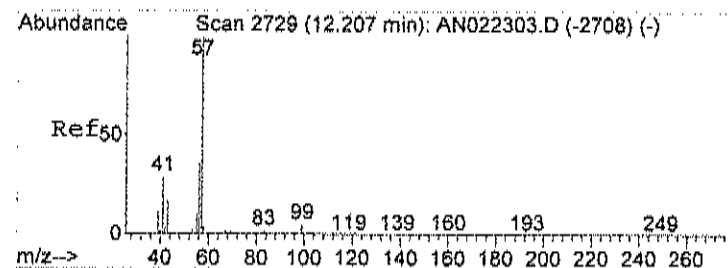
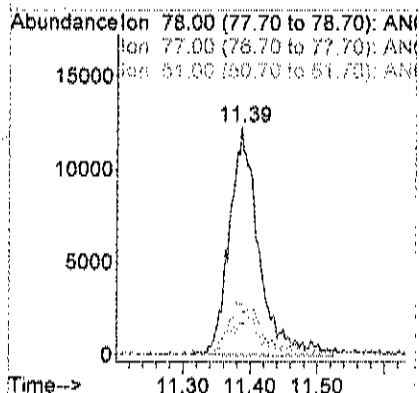
Tgt Ion	117	Resp	10137
Ion Ratio	Lower	Upper	
117	100		
119	92.6	74.5	114.5





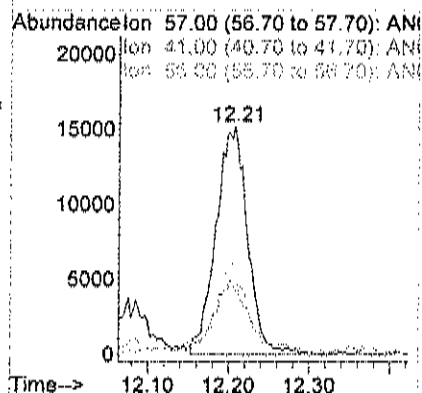
#39
Benzene
Concen: 0.41 ppb
RT: 11.39 min Scan# 2455
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

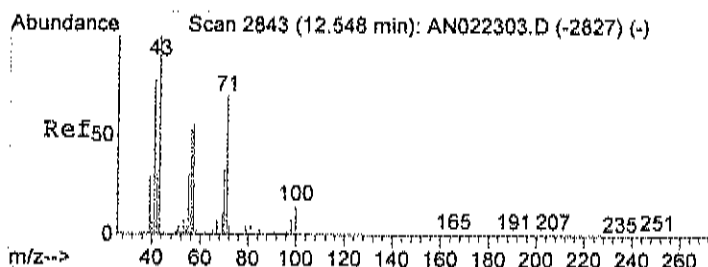
Tgt Ion: 78	Resp: 37744
Ion Ratio	Lower Upper
78	100
77	29.6 6.0 46.0
51	18.8 2.1 42.1



#42
2,2,4-trimethylpentane
Concen: 0.25 ppb
RT: 12.21 min Scan# 2729
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

Tgt Ion: 57	Resp: 42048
Ion Ratio	Lower Upper
57	100
41	43.4 14.1 54.1
56	41.3 11.4 51.4





#43

Heptane

Concen: 0.24 ppb

RT: 12.55 min Scan# 2843

Delta R.T. -0.00 min

Lab File: AN022319.D

Acq: 23 Feb 2016 9:33 pm

Tgt Ion: 43 Resp: 12678

Ion Ratio Lower Upper

43 100

57 69.1 31.3 71.3

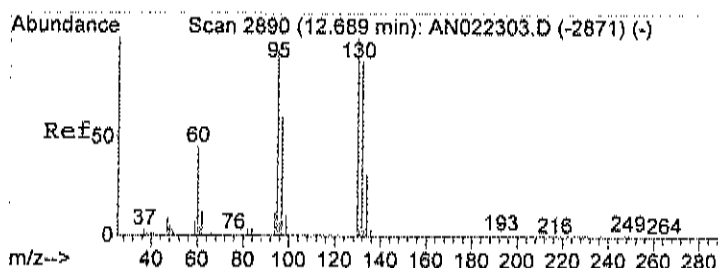
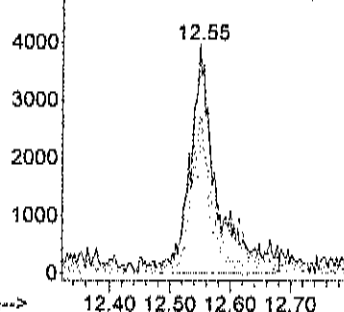
71 44.2 34.8 74.8

Abundance

Ion 43.00 (42.70 to 43.70): AN

Ion 57.00 (56.70 to 57.70): AN

Ion 71.00 (70.70 to 71.70): AN



#44

Trichloroethene

Concen: 0.06 ppb

RT: 12.70 min Scan# 2894

Delta R.T. -0.00 min

Lab File: AN022319.D

Acq: 23 Feb 2016 9:33 pm

Tgt Ion: 130 Resp: 2666

Ion Ratio Lower Upper

130 100

132 102.1 76.1 116.1

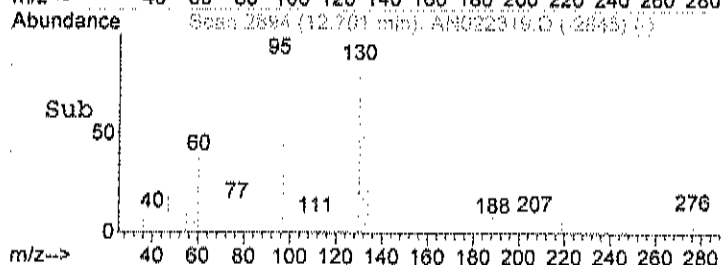
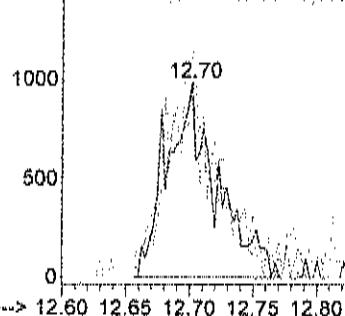
95 100.4 85.0 125.0

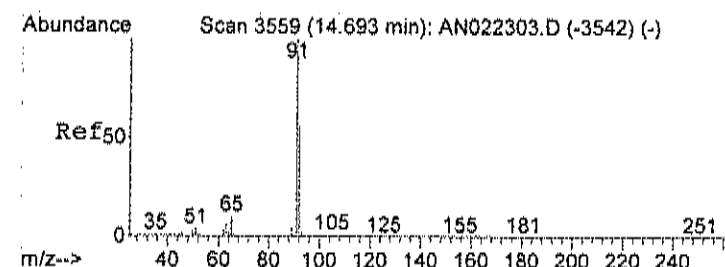
Abundance

Ion 130.00 (129.70 to 130.70): AN

Ion 132.00 (131.70 to 132.70): AN

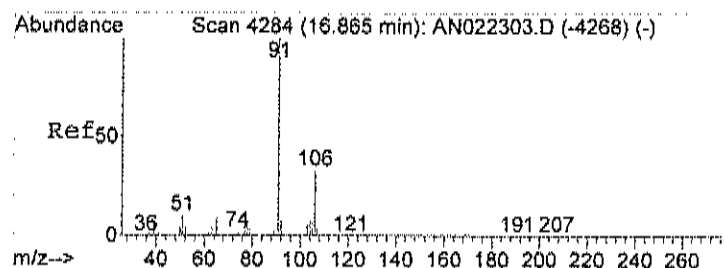
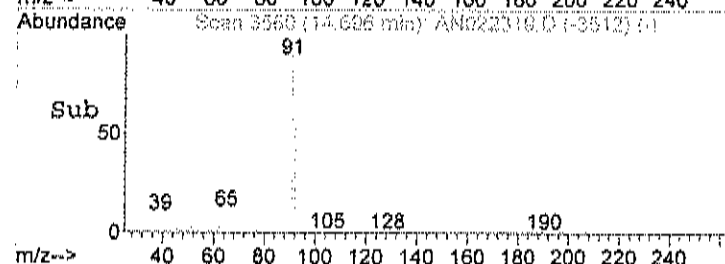
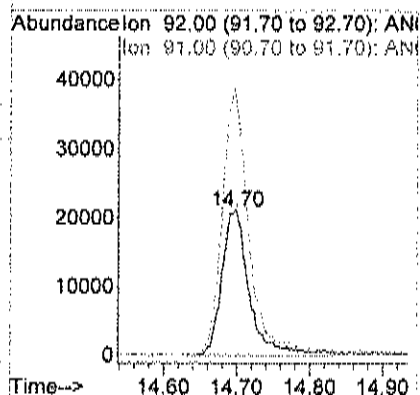
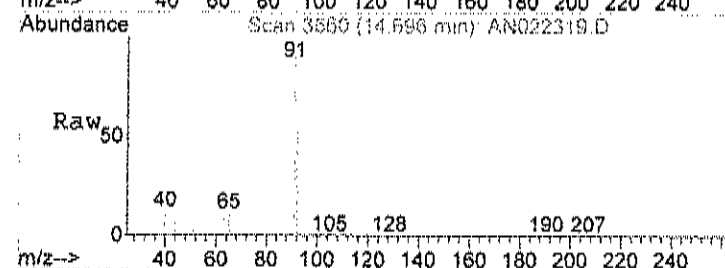
Ion 95.00 (94.70 to 95.70): AN





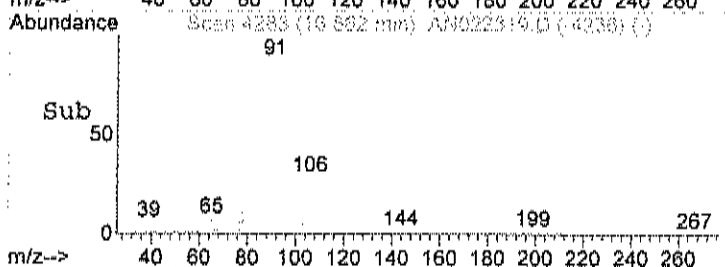
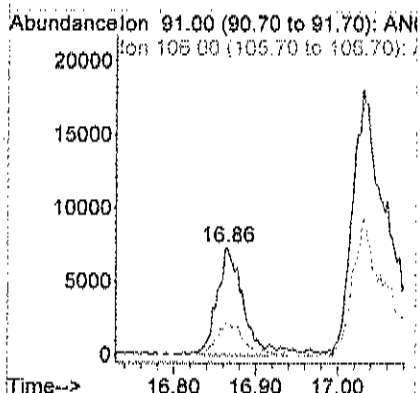
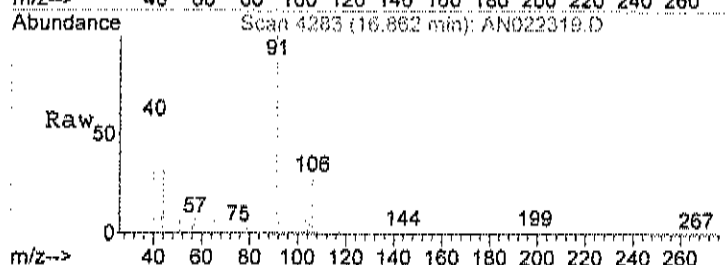
#51
Toluene
Concen: 0.94 ppb
RT: 14.70 min Scan# 3560
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

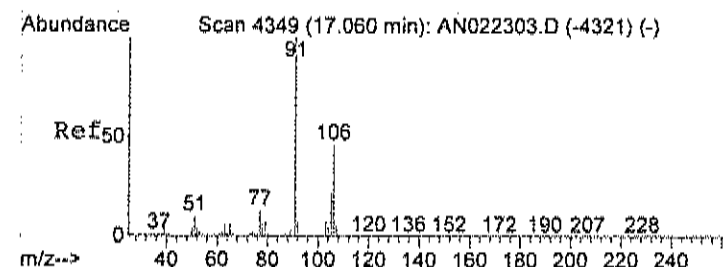
Tgt Ion: 92 Resp: 55212
Ion Ratio Lower Upper
92 100
91 179.2 152.5 192.5



#59
Ethylbenzene
Concen: 0.13 ppb
RT: 16.86 min Scan# 4283
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

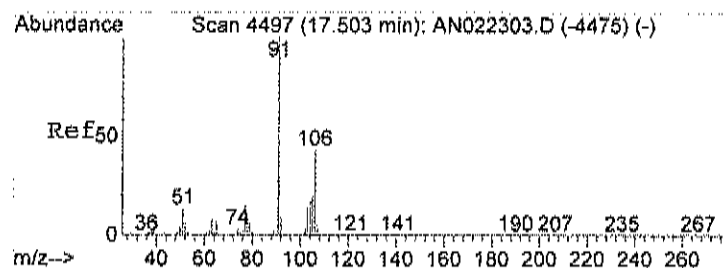
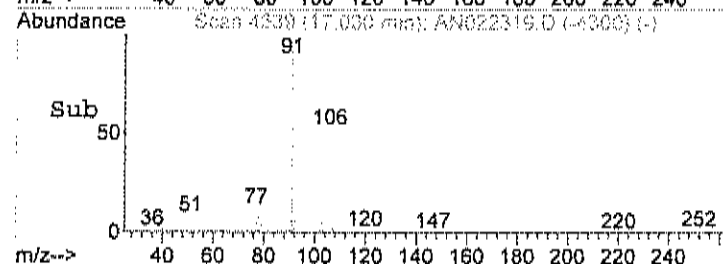
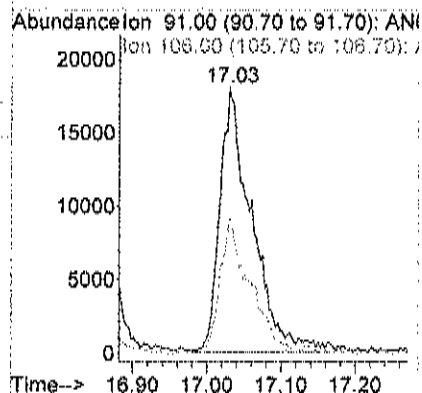
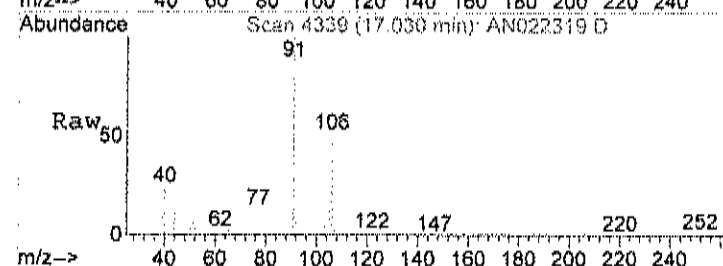
Tgt Ion: 91 Resp: 17256
Ion Ratio Lower Upper
91 100
106 28.3 9.9 49.9





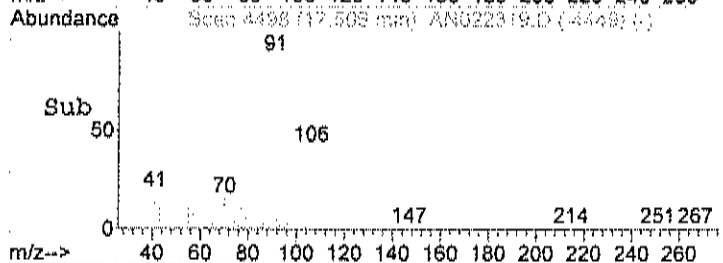
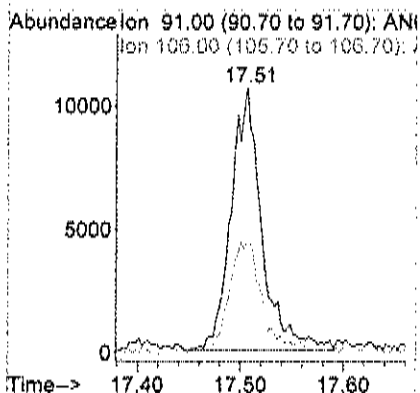
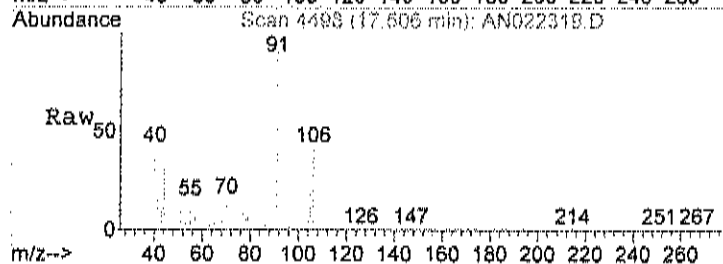
#60
m&p-xylene
Concen: 0.54 ppb
RT: 17.03 min Scan# 4339
Delta R.T. -0.03 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

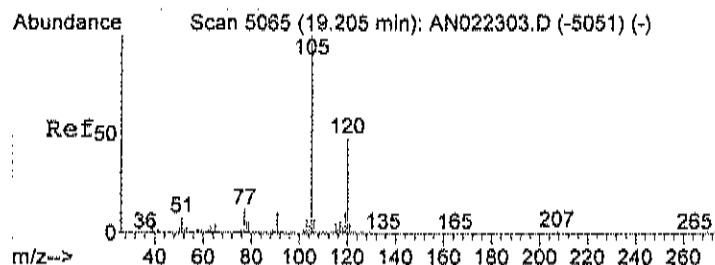
Tgt Ion: 91 Resp: 53279
Ion Ratio Lower Upper
91 100
106 49.5 25.3 65.3



#64
o-xylene
Concen: 0.19 ppb
RT: 17.51 min Scan# 4498
Delta R.T. -0.00 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

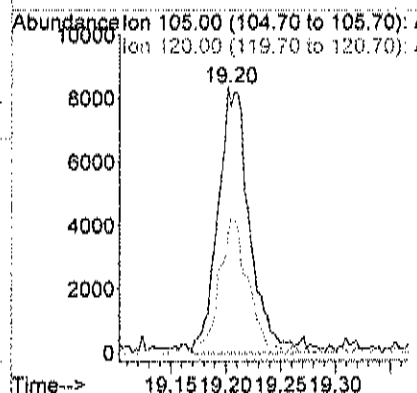
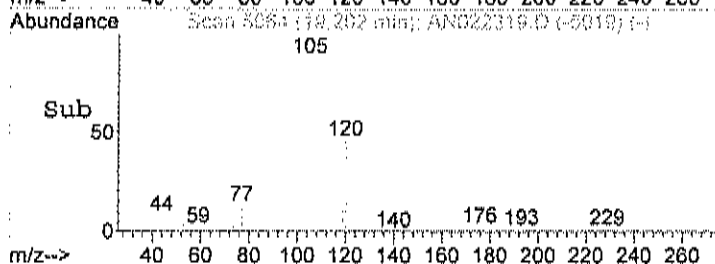
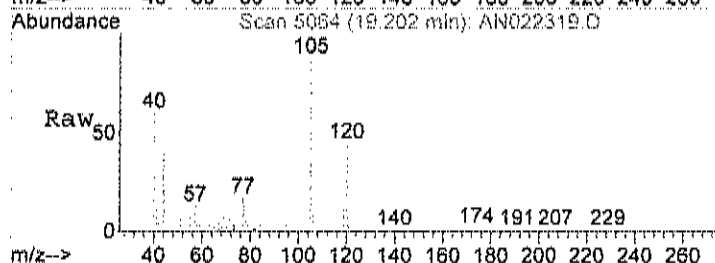
Tgt Ion: 91 Resp: 21936
Ion Ratio Lower Upper
91 100
106 47.6 18.4 58.4





#72
1,2,4-trimethylbenzene
Concen: 0.16 ppb
RT: 19.20 min Scan# 5064
Delta R.T. -0.01 min
Lab File: AN022319.D
Acq: 23 Feb 2016 9:33 pm

Tgt Ion: 105 Resp: 17037
Ion Ratio Lower Upper
105 100
120 46.0 22.1 62.1



Data File : C:\HPCHEM\1\DATA\AN022328.D Vial: 28
Acq On : 24 Feb 2016 3:17 am Operator: RJP
Sample : C1602050-002A 5x Inst : MSD #1
Misc : A204_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 24 08:36:58 2016 Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Feb 11 11:13:02 2016
Response via : Initial Calibration
DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.85	128	26439	1.00	ppb	-0.01
35) 1,4-difluorobenzene	12.09	114	83118	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	77617	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	39571	0.75	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	75.00%

Target Compounds

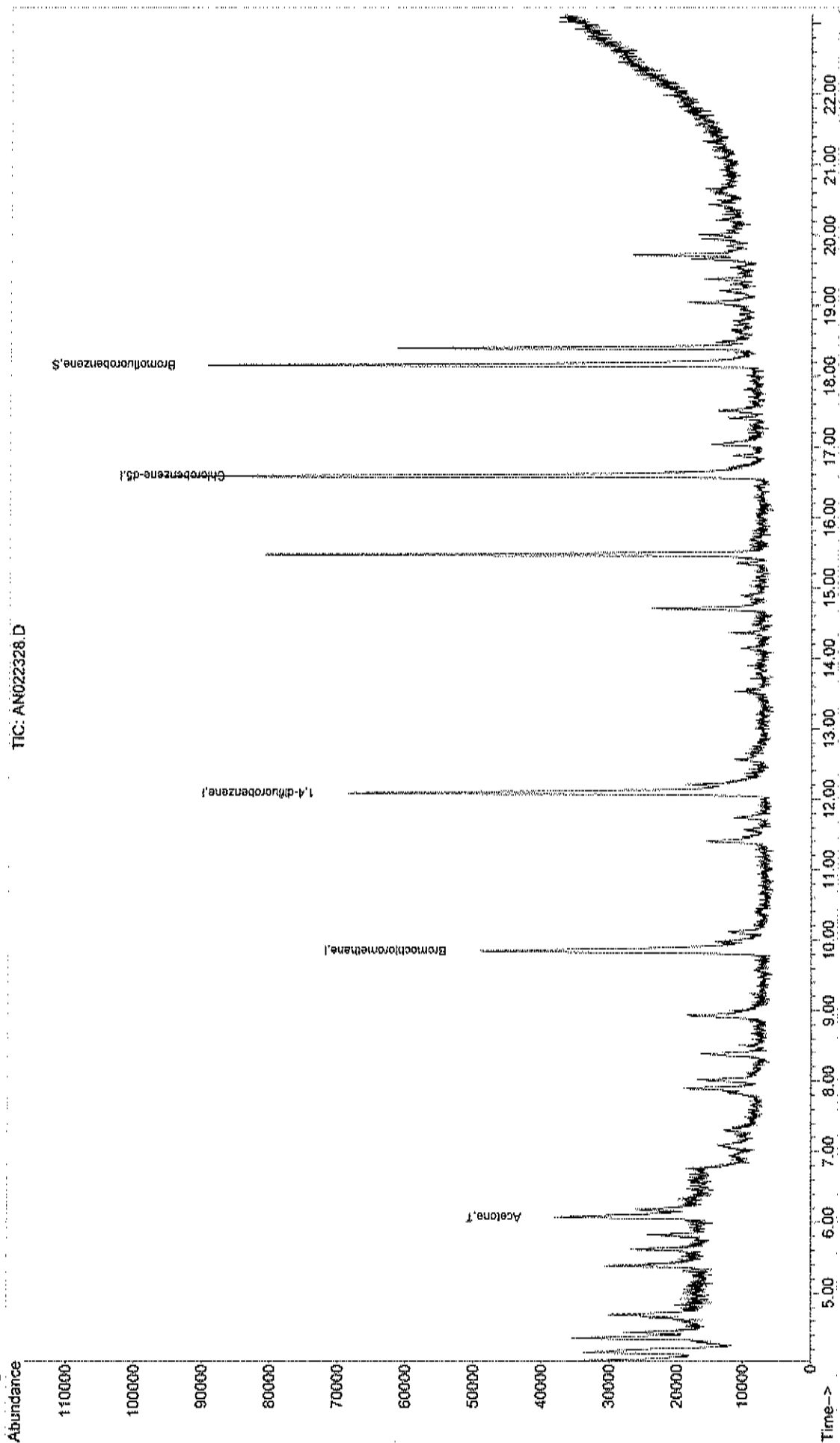
	R.T.	QIon	Response	Conc	Units	Qvalue
15) Acetone	6.08	58	13461	1.20	ppb	# 1

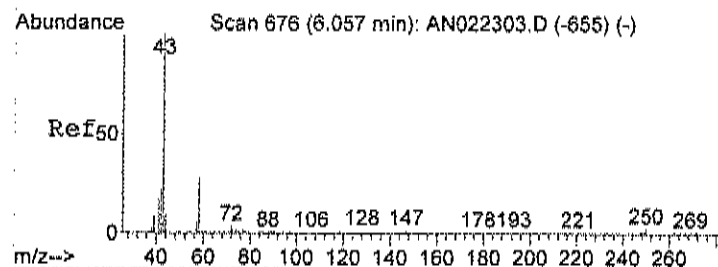
Data File : C:\HPCHEM\1\DATA\AN022328.D
Acq On : 24 Feb 2016 3:17 am
Sample : C1602050-002A 5x
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:20 2016

Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

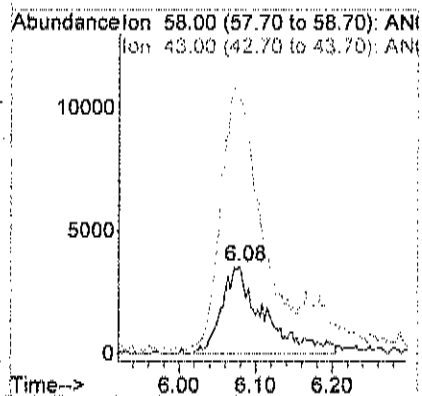
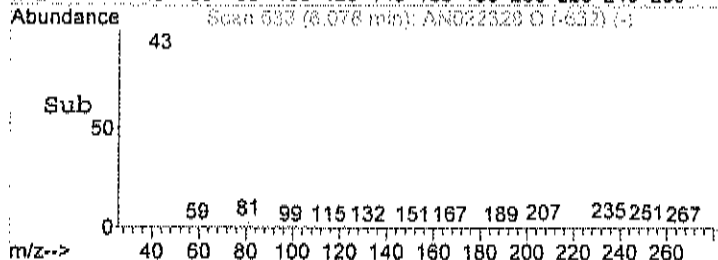
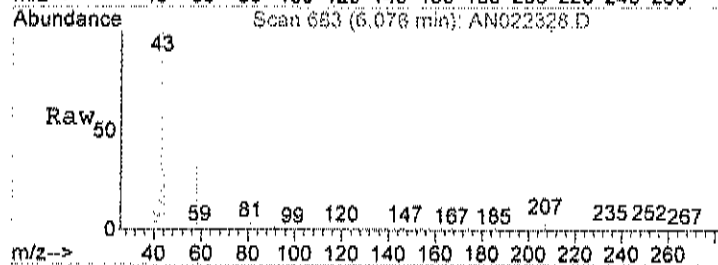
Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration





#15
 Acetone
 Concen: 1.20 ppb
 RT: 6.08 min Scan# 683
 Delta R.T. 0.00 min
 Lab File: AN022328.D
 Acq: 24 Feb 2016 3:17 am

Tgt Ion: 58 Resp: 13461
 Ion Ratio Lower Upper
 58 100
 43 336.6 661.8 721.8#



Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 117

Lab Order: C1602050

Tag Number: 561,146

Project: 690 St Paul

Collection Date: 2/17/2016

Lab ID: C1602050-003A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-2			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	2/23/2016 10:12:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 10:12:00 PM
2,2,4-trimethylpentane	2.1	0.75		ppbV	5	2/24/2016 3:53:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Acetone	5.0	1.5		ppbV	5	2/24/2016 3:53:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Benzene	1.2	0.15		ppbV	1	2/23/2016 10:12:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Carbon tetrachloride	0.13	0.040		ppbV	1	2/23/2016 10:12:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Chloroform	0.26	0.15		ppbV	1	2/23/2016 10:12:00 PM
Chloromethane	0.62	0.15		ppbV	1	2/23/2016 10:12:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Cyclohexane	0.44	0.15		ppbV	1	2/23/2016 10:12:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 10:12:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-003A

Client Sample ID: Rm 117
 Tag Number: 561,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Ethylbenzene	0.11	0.15	J	ppbV	1	2/23/2016 10:12:00 PM
Freon 11	0.36	0.15		ppbV	1	2/23/2016 10:12:00 PM
Freon 113	0.13	0.15	J	ppbV	1	2/23/2016 10:12:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Freon 12	0.66	0.15		ppbV	1	2/23/2016 10:12:00 PM
Heptane	0.55	0.15		ppbV	1	2/23/2016 10:12:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Hexane	0.86	0.15		ppbV	1	2/23/2016 10:12:00 PM
Isopropyl alcohol	2.0	0.15		ppbV	1	2/23/2016 10:12:00 PM
m&p-Xylene	0.23	0.30	J	ppbV	1	2/23/2016 10:12:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 10:12:00 PM
Methyl Ethyl Ketone	0.53	0.30		ppbV	1	2/23/2016 10:12:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 10:12:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Methylene chloride	0.39	0.15		ppbV	1	2/23/2016 10:12:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Toluene	0.89	0.15		ppbV	1	2/23/2016 10:12:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Trichloroethene	0.080	0.040		ppbV	1	2/23/2016 10:12:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 10:12:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 10:12:00 PM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	2/23/2016 10:12:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-003A

Client Sample ID: Rm 117
 Tag Number: 561,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:12:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:12:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:12:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:12:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 10:12:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:12:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 10:12:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 10:12:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 10:12:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 10:12:00 PM
2,2,4-trimethylpentane	9.8	3.5		ug/m3	5	2/24/2016 3:53:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 10:12:00 PM
Acetone	12	3.6		ug/m3	5	2/24/2016 3:53:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 10:12:00 PM
Benzene	3.9	0.48		ug/m3	1	2/23/2016 10:12:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 10:12:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 10:12:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 10:12:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 10:12:00 PM
Carbon tetrachloride	0.82	0.25		ug/m3	1	2/23/2016 10:12:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 10:12:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 10:12:00 PM
Chloroform	1.3	0.73		ug/m3	1	2/23/2016 10:12:00 PM
Chloromethane	1.3	0.31		ug/m3	1	2/23/2016 10:12:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:12:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:12:00 PM
Cyclohexane	1.5	0.52		ug/m3	1	2/23/2016 10:12:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 10:12:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 10:12:00 PM
Ethylbenzene	0.48	0.65	J	ug/m3	1	2/23/2016 10:12:00 PM
Freon 11	2.0	0.84		ug/m3	1	2/23/2016 10:12:00 PM
Freon 113	1.0	1.1	J	ug/m3	1	2/23/2016 10:12:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-003A

Client Sample ID: Rm 117
 Tag Number: 561,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Freon 12	3.3	0.74		ug/m3	1	2/23/2016 10:12:00 PM
Heptane	2.3	0.61		ug/m3	1	2/23/2016 10:12:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 10:12:00 PM
Hexane	3.0	0.53		ug/m3	1	2/23/2016 10:12:00 PM
Isopropyl alcohol	5.0	0.37		ug/m3	1	2/23/2016 10:12:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	2/23/2016 10:12:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:12:00 PM
Methyl Ethyl Ketone	1.6	0.88		ug/m3	1	2/23/2016 10:12:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:12:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 10:12:00 PM
Methylene chloride	1.4	0.52		ug/m3	1	2/23/2016 10:12:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	2/23/2016 10:12:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 10:12:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 10:12:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 10:12:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 10:12:00 PM
Toluene	3.4	0.57		ug/m3	1	2/23/2016 10:12:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:12:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:12:00 PM
Trichloroethene	0.43	0.21		ug/m3	1	2/23/2016 10:12:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 10:12:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 10:12:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 10:12:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Page 6 of 16

Data File : C:\HPCHEM\1\DATA\AN022320.D

Vial: 20

Acq On : 23 Feb 2016 10:12 pm

Operator: RJP

Sample : C1602050-003A

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:50 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	28648	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.08	114	101376	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	80703	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	51346	0.93	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	93.00%

Target Compounds

						Qvalue
3) Freon 12	4.19	85	82930	0.66	ppb	99
4) Chloromethane	4.40	50	23592	0.62	ppb	97
14) Freon 11	5.81	101	45519	0.36	ppb	98
15) Acetone	6.05	58	60234	4.97	ppb	# 1
17) Isopropyl alcohol	6.17	45	71010	2.03	ppb	# 46
19) Freon 113	6.75	101	10426	0.13	ppb	93
21) Methylene chloride	7.06	84	14562	0.39	ppb	91
28) Methyl Ethyl Ketone	8.98	72	9792m	0.53	ppb	
30) Hexane	8.92	57	54046	0.86	ppb	95
32) Chloroform	9.97	83	24104	0.26	ppb	80
37) Cyclohexane	11.46	56	21310m	0.44	ppb	
38) Carbon tetrachloride	11.41	117	9504	0.13	ppb	96
39) Benzene	11.39	78	109953	1.23	ppb	96
42) 2,2,4-trimethylpentane	12.20	57	407695	2.46	ppb	94
43) Heptane	12.55	43	27987	0.55	ppb	85
44) Trichloroethene	12.70	130	3514	0.08	ppb	87
51) Toluene	14.69	92	48074	0.89	ppb	96
59) Ethylbenzene	16.87	91	13412	0.11	ppb	99
60) m&p-xylene	17.03	91	20497	0.23	ppb	94
72) 1,2,4-trimethylbenzene	19.21	105	11002	0.11	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

AN022320.D A204_1UG.M

Thu Mar 03 11:00:31 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022320.D
Acq On : 23 Feb 2016 10:12 pm
Sample : C1602050-003A
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:08 2016

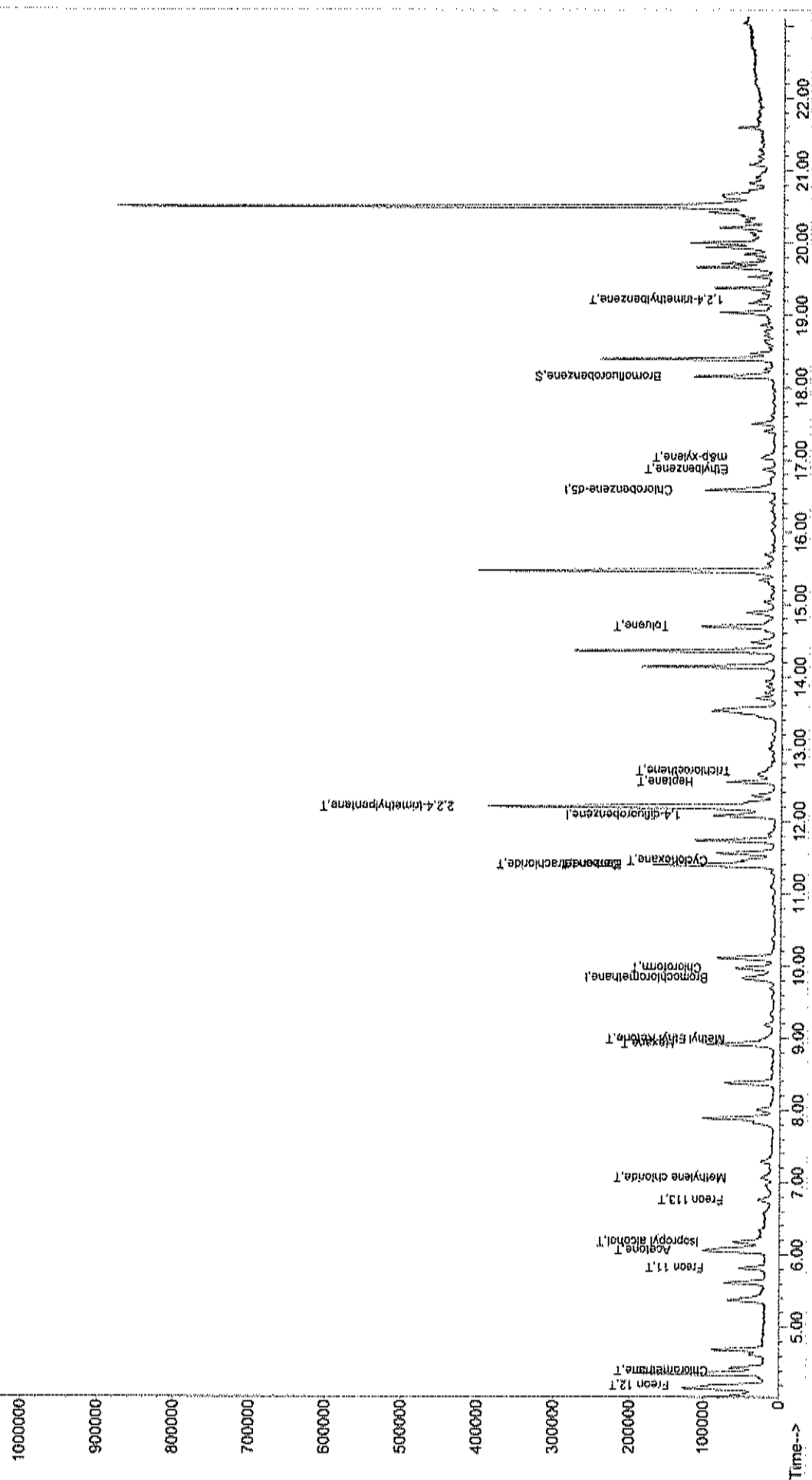
Vial: 20
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

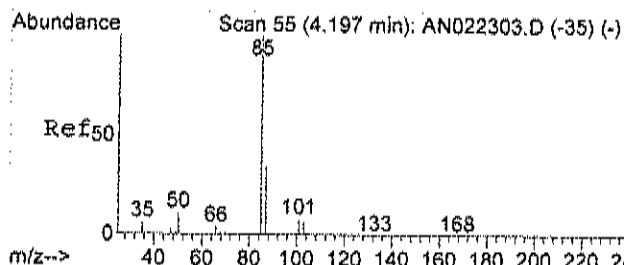
Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration

Abundance

TIC: AN022320.D

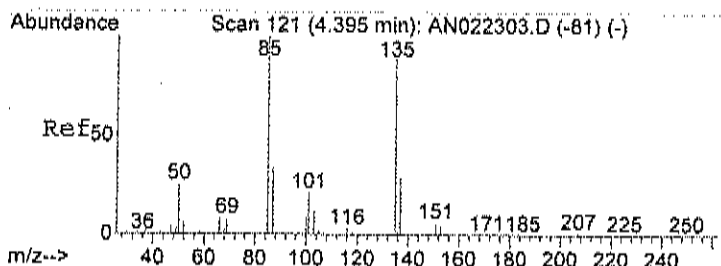
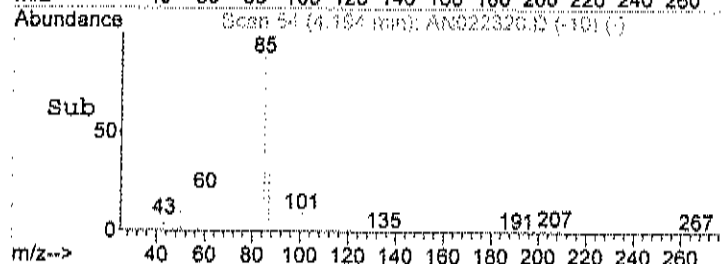
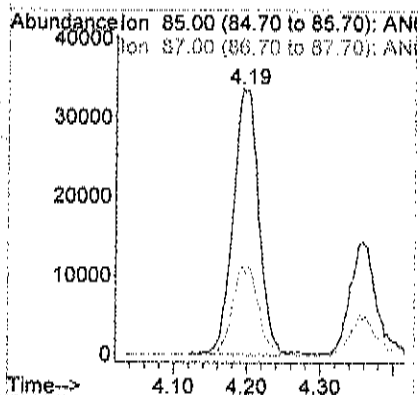
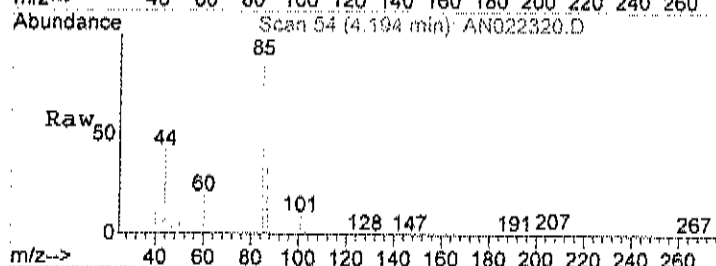


AN022320.D A204_1UG.M Thu Mar 03 11:00:32 2016 MSD1



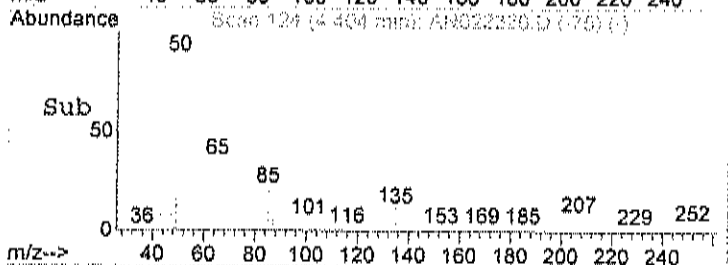
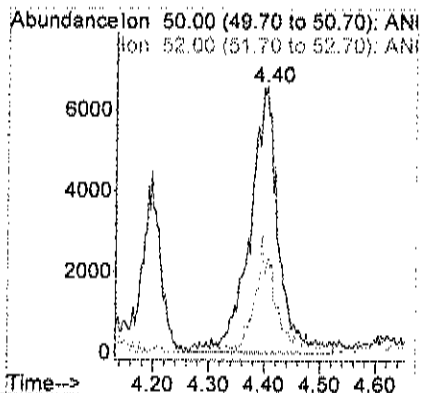
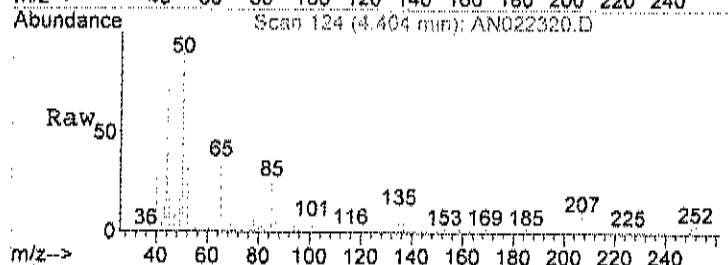
#3
Freon 12
Concen: 0.66 ppb
RT: 4.19 min Scan# 54
Delta R.T. -0.02 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

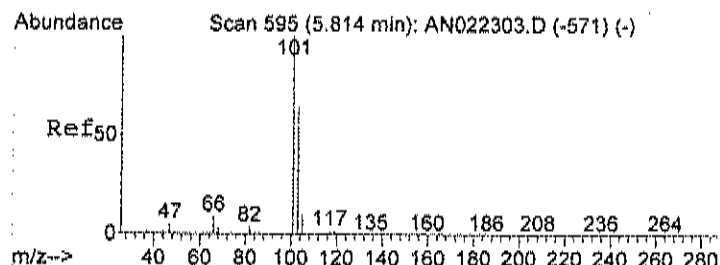
Tgt Ion: 85 Resp: 82930
Ion Ratio Lower Upper
85 100
87 32.9 12.5 52.5



#4
Chloromethane
Concen: 0.62 ppb
RT: 4.40 min Scan# 124
Delta R.T. -0.00 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

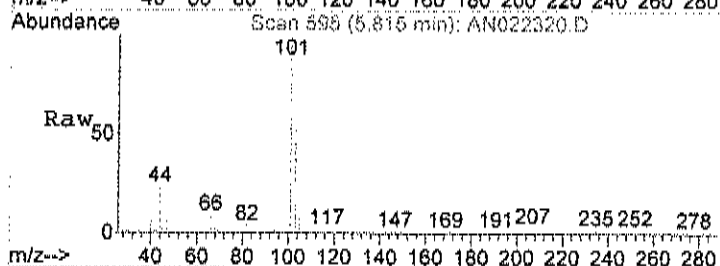
Tgt Ion: 50 Resp: 23592
Ion Ratio Lower Upper
50 100
52 30.6 9.2 49.2





#14
 Freon 11
 Concen: 0.36 ppb
 RT: 5.81 min Scan# 595
 Delta R.T. -0.01 min
 Lab File: AN022320.D
 Acq: 23 Feb 2016 10:12 pm

Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.6	44.6	84.6
105	13.0	0.0	31.6

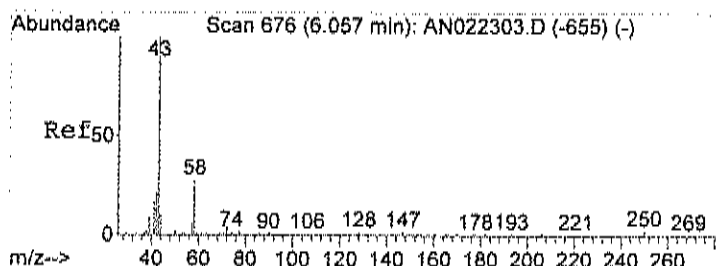
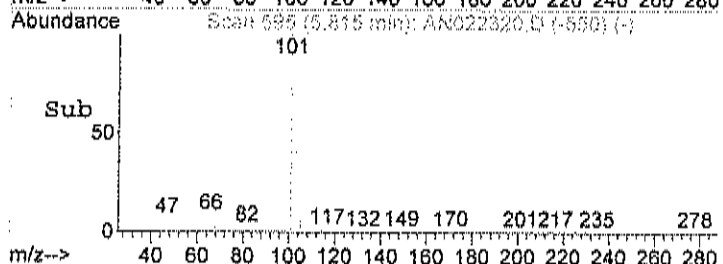
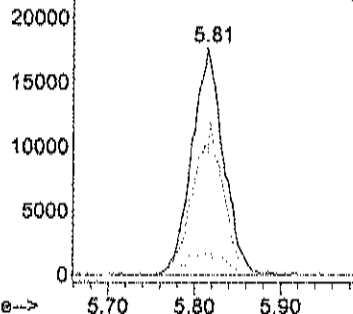


Abundance

Ion 101.00 (100.70 to 101.70):

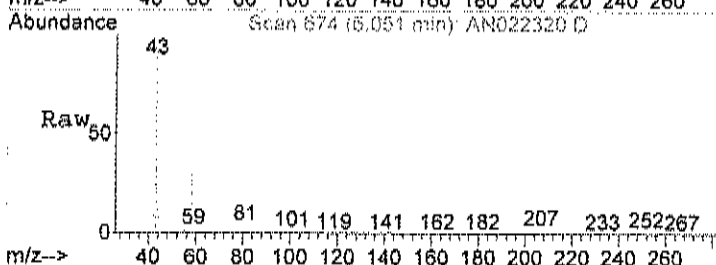
Ion 103.00 (102.70 to 103.70):

Ion 105.00 (104.70 to 105.70):



#15
 Acetone
 Concen: 4.97 ppb
 RT: 6.05 min Scan# 674
 Delta R.T. -0.02 min
 Lab File: AN022320.D
 Acq: 23 Feb 2016 10:12 pm

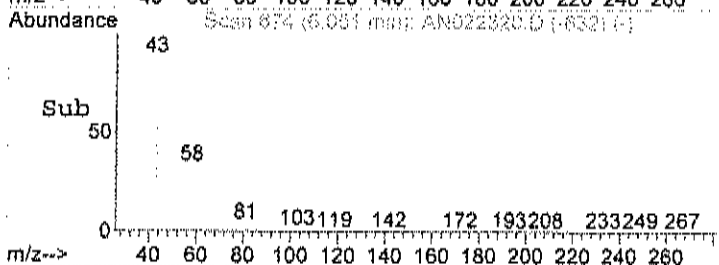
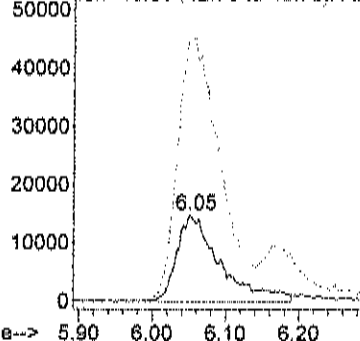
Tgt Ion	Ratio	Lower	Upper
58	100		
43	336.5	661.8	721.8#



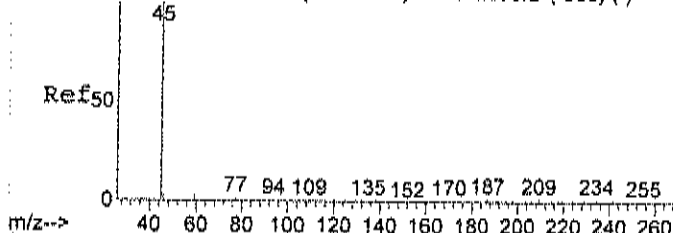
Abundance

Ion 58.00 (57.70 to 58.70): ANI

Ion 43.00 (42.70 to 43.70): ANI



Abundance Scan 710 (6.159 min): AN022320.D (-690) (-)



#17

Isopropyl alcohol

Concen: 2.03 ppb

RT: 6.17 min Scan# 715

Delta R.T. -0.00 min

Lab File: AN022320.D

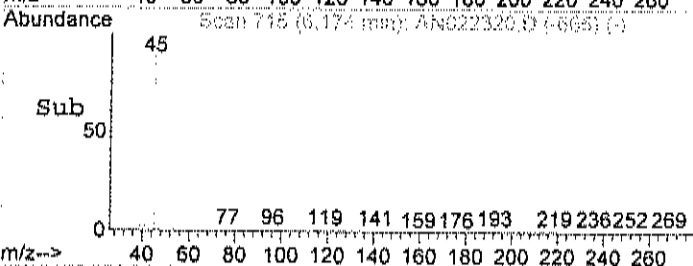
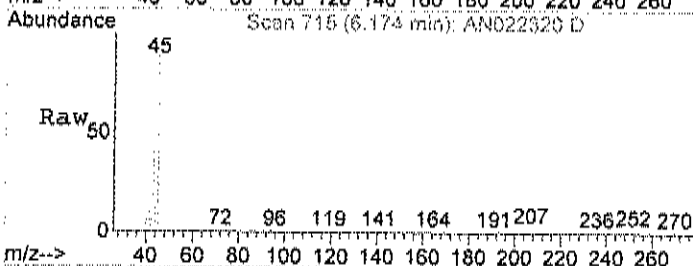
Acq: 23 Feb 2016 10:12 pm

Tgt Ion: 45 Resp: 71010

Ion Ratio Lower Upper

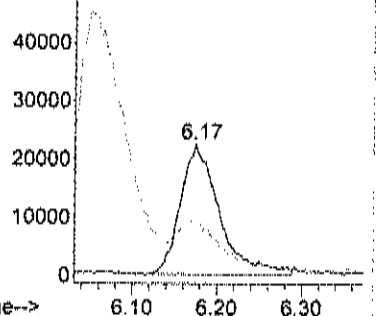
45 100

43 0.0 8.9 48.9#

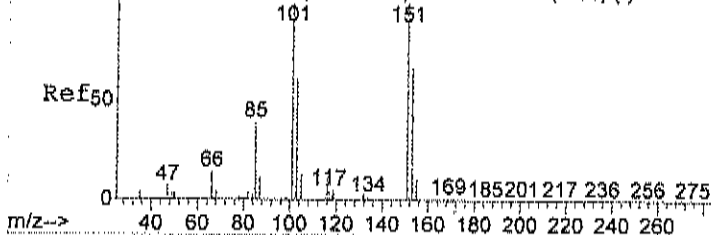


Abundance Ion 45.00 (44.70 to 45.70): AN

Ion 43.00 (42.70 to 43.70): AN



Abundance Scan 912 (6.764 min): AN022320.D (-885) (-)



#19

Freon 113

Concen: 0.13 ppb

RT: 6.75 min Scan# 908

Delta R.T. -0.02 min

Lab File: AN022320.D

Acq: 23 Feb 2016 10:12 pm

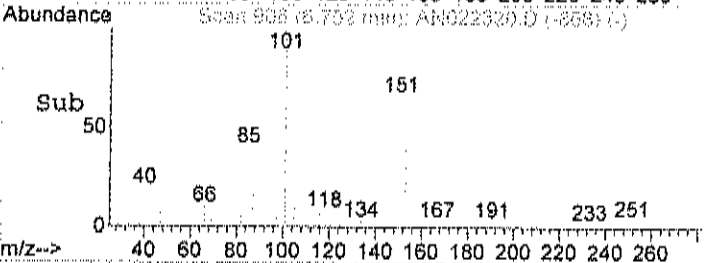
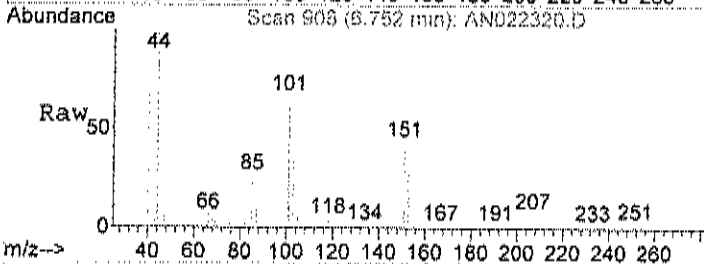
Tgt Ion: 101 Resp: 10426

Ion Ratio Lower Upper

101 100

103 63.2 42.5 82.5

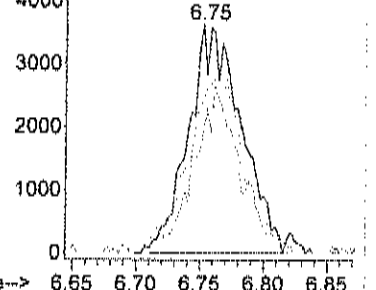
151 80.3 70.9 110.9

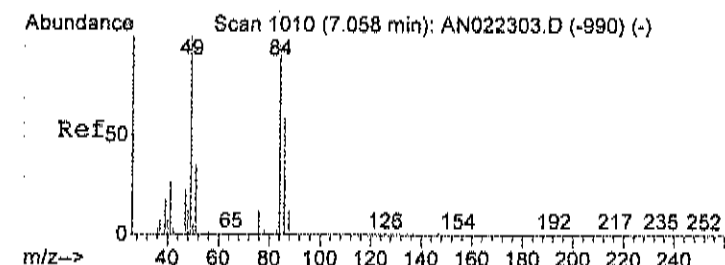


Abundance Ion 101.00 (100.70 to 101.70): A

Ion 103.00 (102.70 to 103.70): A

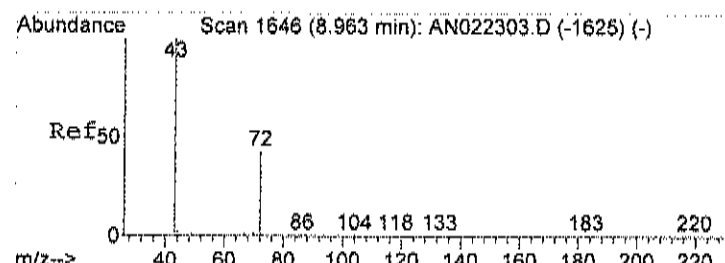
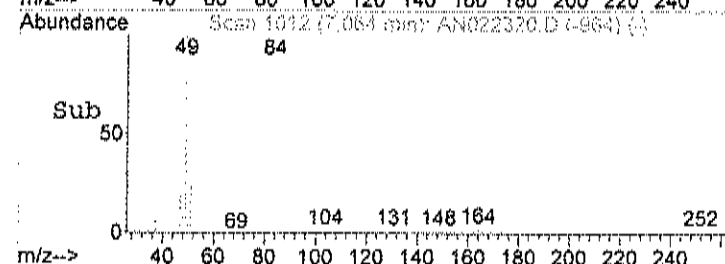
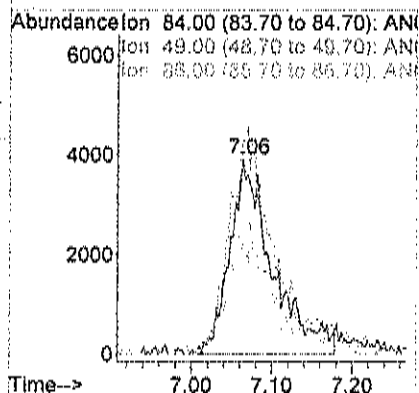
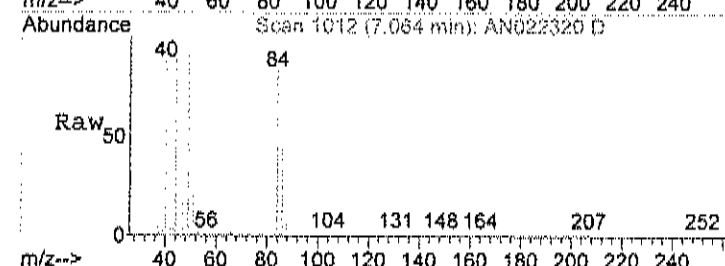
Ion 151.00 (150.70 to 151.70): A





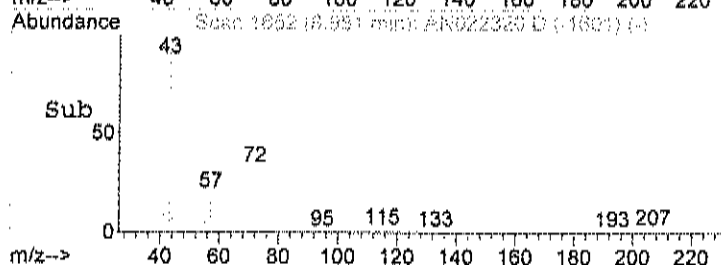
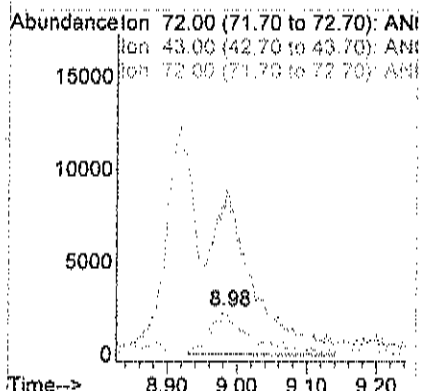
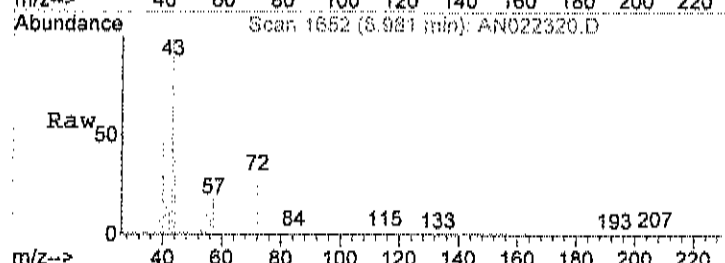
#21
Methylene chloride
Concen: 0.39 ppb
RT: 7.06 min Scan# 1012
Delta R.T. -0.01 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

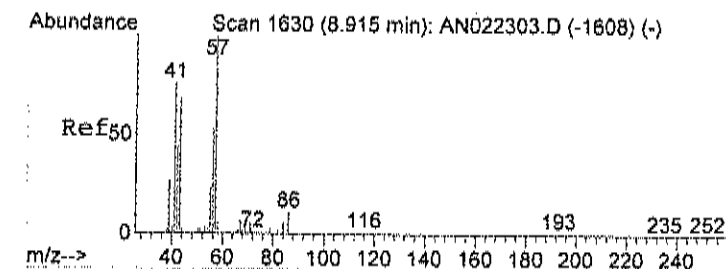
Tgt Ion: 84	Resp: 14562
Ion Ratio	Lower Upper
84	100
49	119.6 87.8 127.8
86	66.5 43.1 83.1



#28
Methyl Ethyl Ketone
Concen: 0.53 ppb m
RT: 8.98 min Scan# 1652
Delta R.T. 0.00 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

Tgt Ion: 72	Resp: 9792
Ion Ratio	Lower Upper
72	100
43	0.0 0.0 20.0
72	112.8 80.0 120.0





#30

Hexane

Concen: 0.86 ppb

RT: 8.92 min Scan# 1632

Delta R.T. -0.01 min

Lab File: AN022320.D

Acq: 23 Feb 2016 10:12 pm

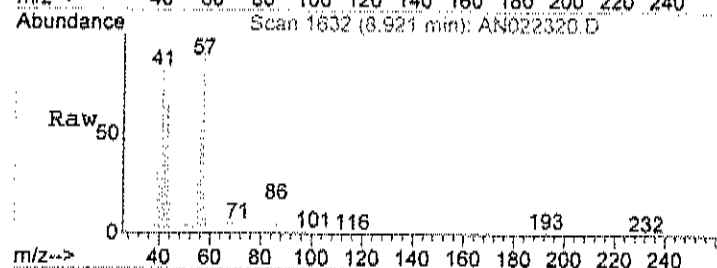
Tgt Ion: 57 Resp: 54046

Ion Ratio Lower Upper

57 100

41 89.2 66.6 106.6

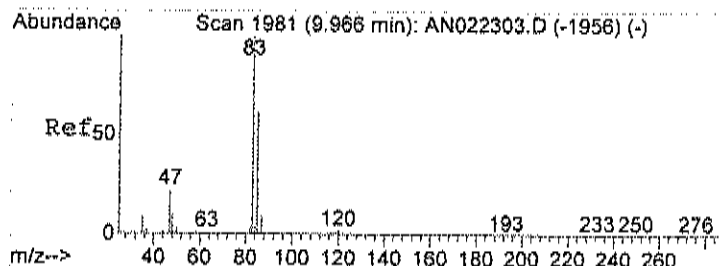
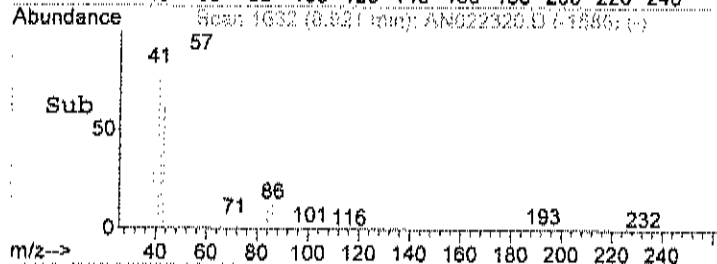
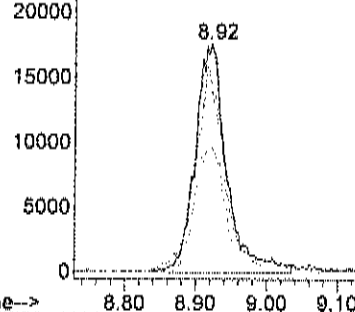
56 56.4 30.6 70.6



Abundance Ion 57.00 (56.70 to 57.70): AN

Ion 41.00 (40.70 to 41.70): AN

Ion 56.00 (55.70 to 56.70): AN



#32

Chloroform

Concen: 0.26 ppb

RT: 9.97 min Scan# 1982

Delta R.T. -0.01 min

Lab File: AN022320.D

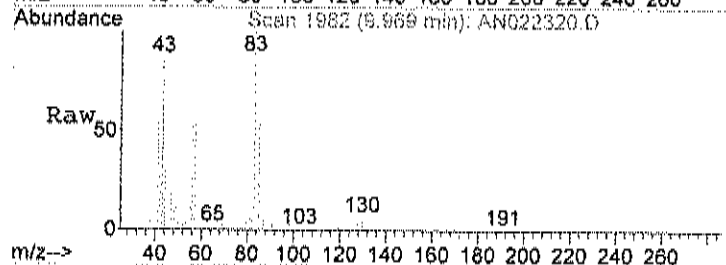
Acq: 23 Feb 2016 10:12 pm

Tgt Ion: 83 Resp: 24104

Ion Ratio Lower Upper

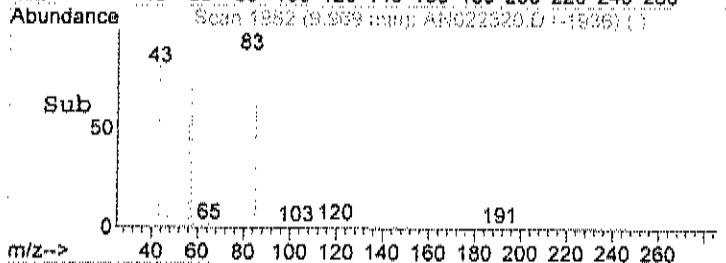
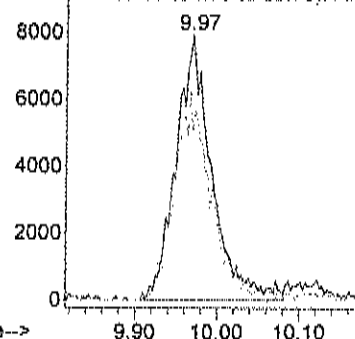
83 100

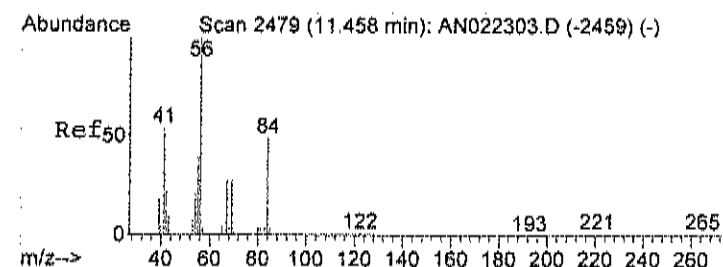
85 79.4 43.9 83.9



Abundance Ion 83.00 (82.70 to 83.70): AN

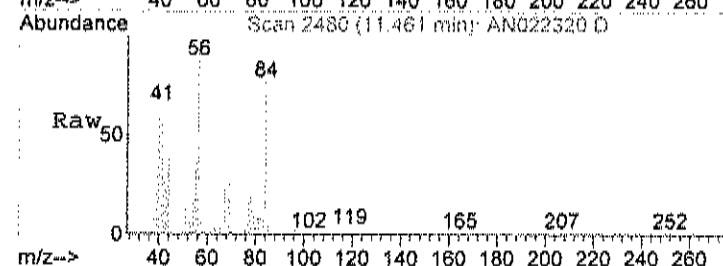
Ion 85.00 (84.70 to 85.70): AN





#37
Cyclohexane
Concen: 0.44 ppb m
RT: 11.46 min Scan# 2480
Delta R.T. -0.01 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

Tgt Ion	56	Resp	21310
Ion	Ratio	Lower	Upper
56	100		
41	0.0	47.3	87.3#
84	0.0	88.1	128.1#

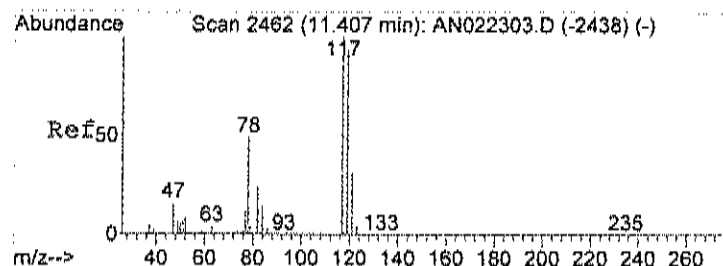
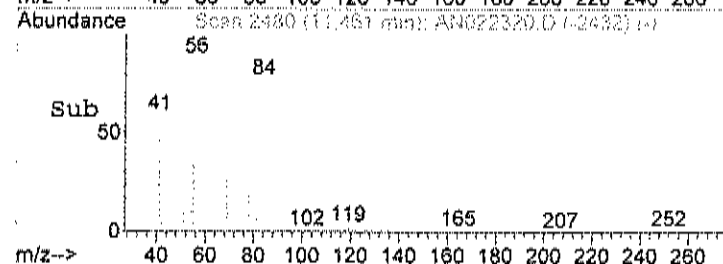
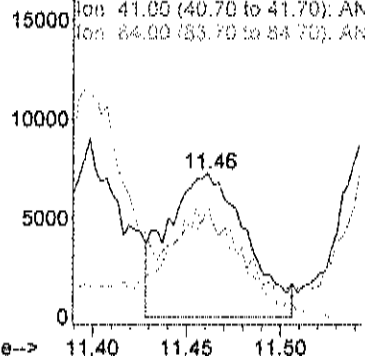


Abundance

Ion 56.00 (55.70 to 56.70): ANI

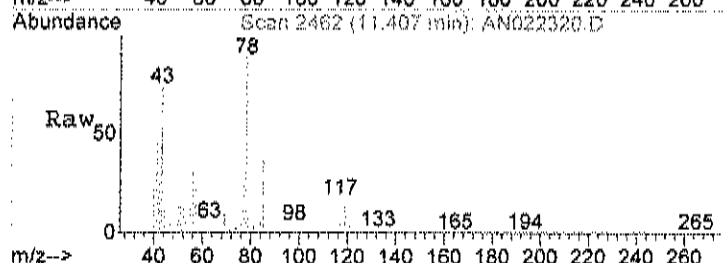
Ion 41.00 (40.70 to 41.70): ANI

Ion 84.00 (83.70 to 84.70): ANI



#38
Carbon tetrachloride
Concen: 0.13 ppb
RT: 11.41 min Scan# 2462
Delta R.T. -0.01 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

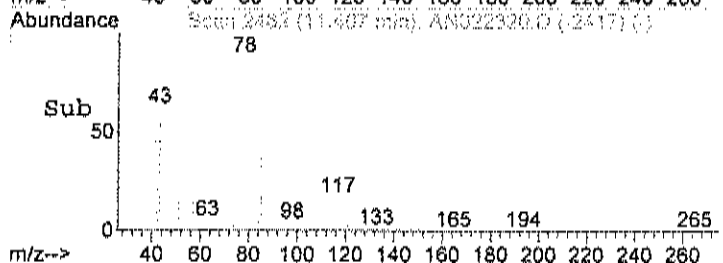
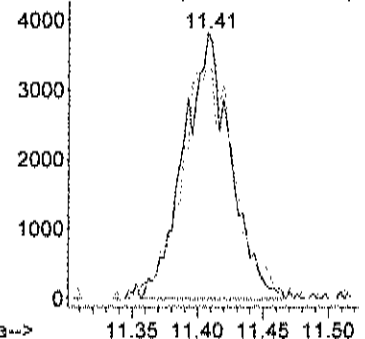
Tgt Ion	117	Resp	9504
Ion	Ratio	Lower	Upper
117	100		
119	98.6	74.5	114.5

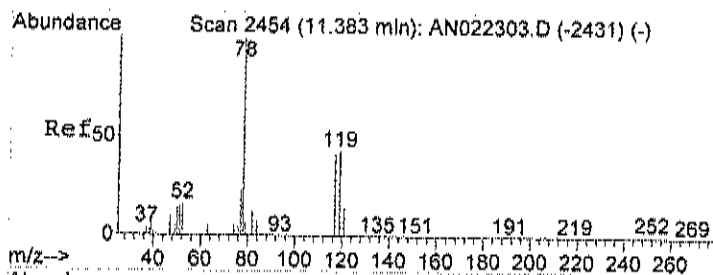


Abundance

Ion 117.00 (116.70 to 117.70): /

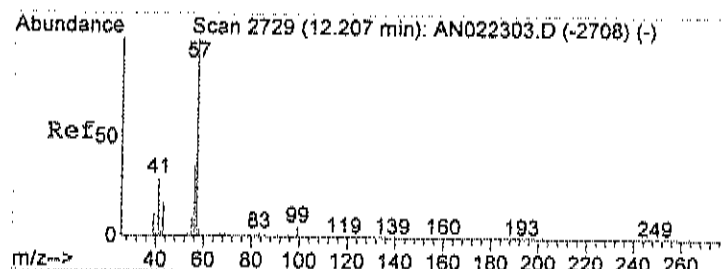
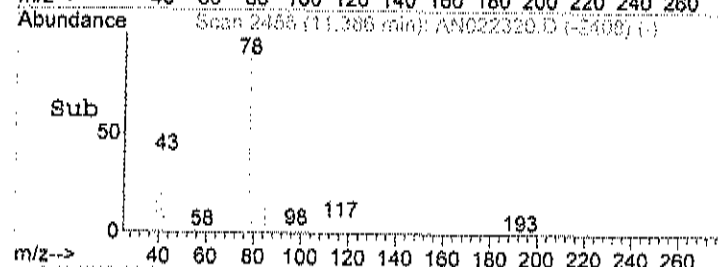
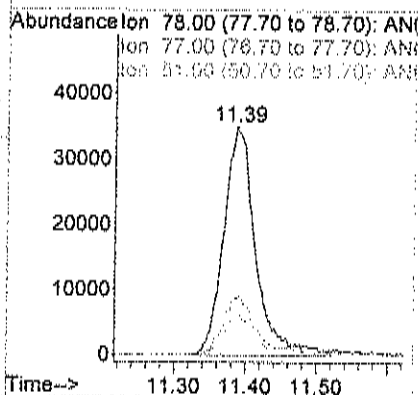
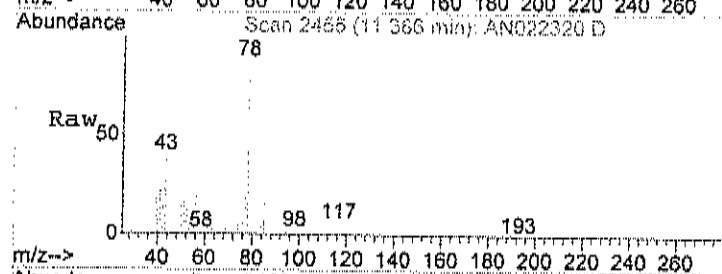
Ion 119.00 (118.70 to 119.70): /





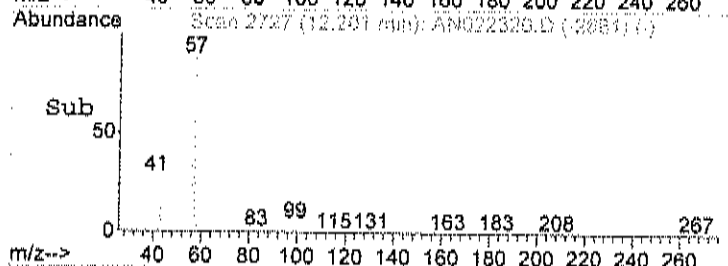
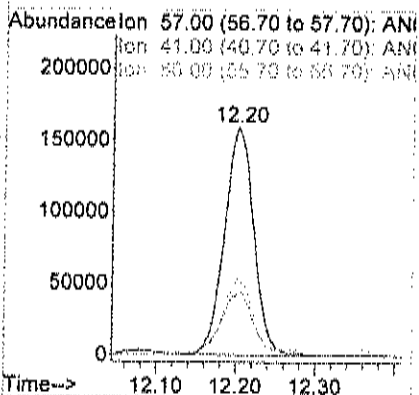
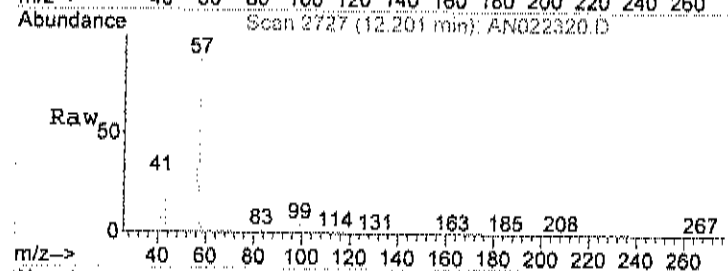
#39
Benzene
Concen: 1.23 ppb
RT: 11.39 min Scan# 2455
Delta R.T. -0.01 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

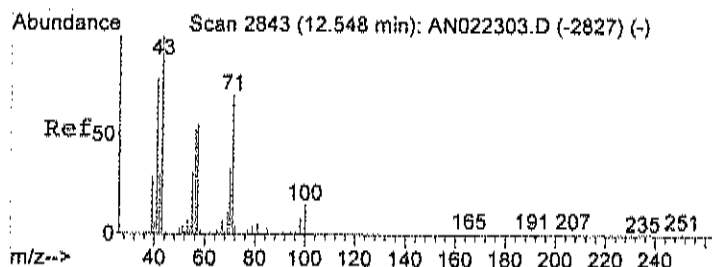
Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.8	6.0	46.0
51	19.0	2.1	42.1



#42
2,2,4-trimethylpentane
Concen: 2.46 ppb
RT: 12.20 min Scan# 2727
Delta R.T. -0.01 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

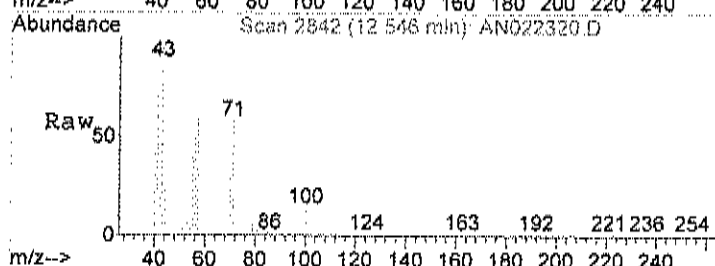
Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.6	14.1	54.1
56	37.5	11.4	51.4



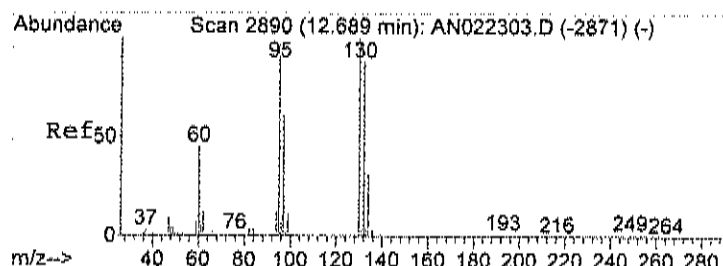
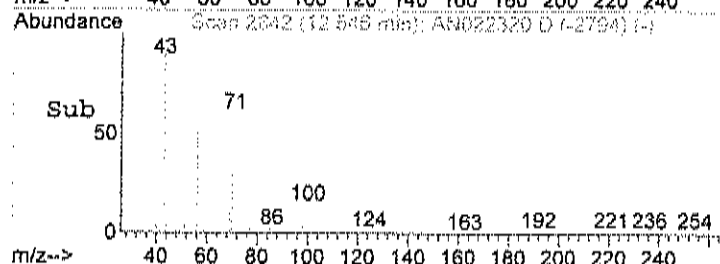
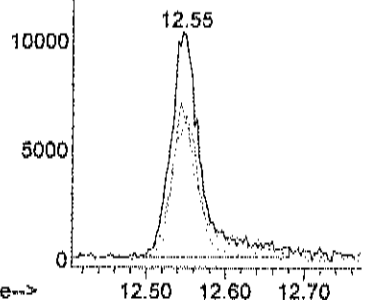


#43
Heptane
Concen: 0.55 ppb
RT: 12.55 min Scan# 2842
Delta R.T. -0.01 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
57	70.4	31.3	71.3
71	56.8	34.8	74.8

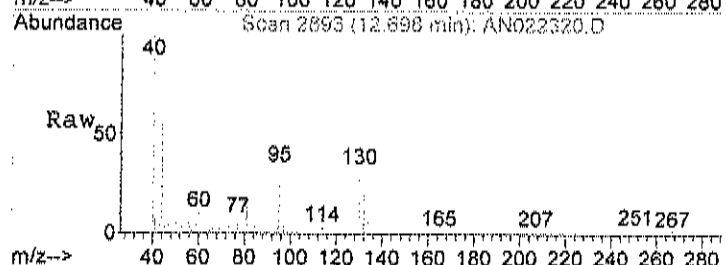


Abundance Ion 43.00 (42.70 to 43.70): AN022320.D
Ion 57.00 (56.70 to 57.70): AN022320.D
Ion 71.00 (70.70 to 71.70): AN022320.D

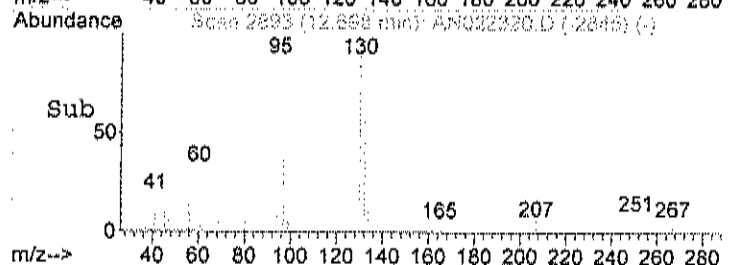
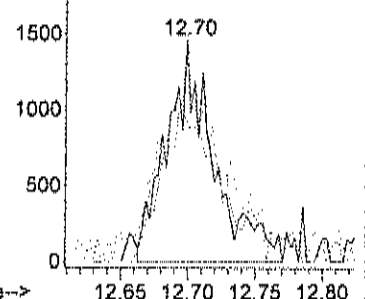


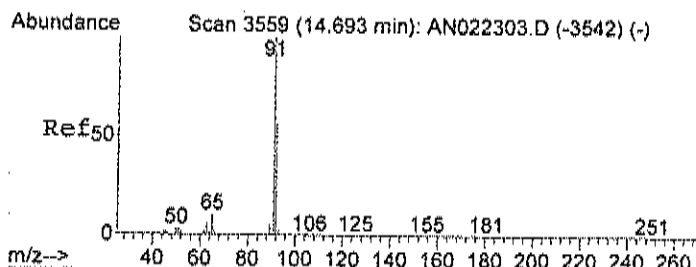
#44
Trichloroethene
Concen: 0.08 ppb
RT: 12.70 min Scan# 2893
Delta R.T. -0.01 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

Tgt Ion	Ratio	Lower	Upper
130	100		
132	89.8	76.1	116.1
95	124.0	85.0	125.0



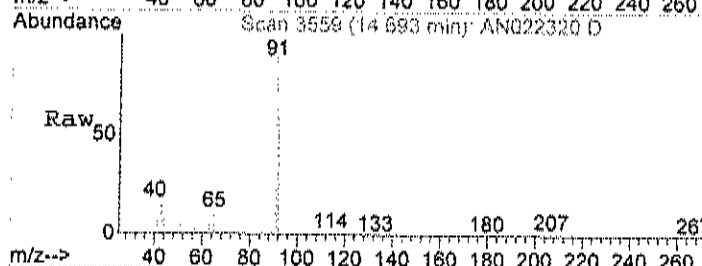
Abundance Ion 130.00 (129.70 to 130.70): AN022320.D
Ion 132.00 (131.70 to 132.70): AN022320.D
Ion 95.00 (94.70 to 95.70): AN022320.D



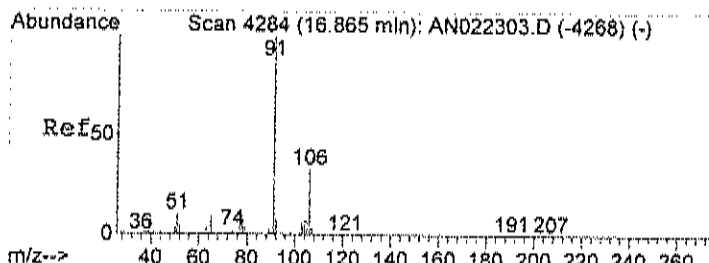
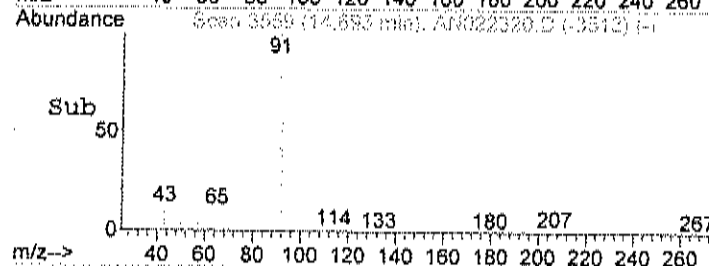
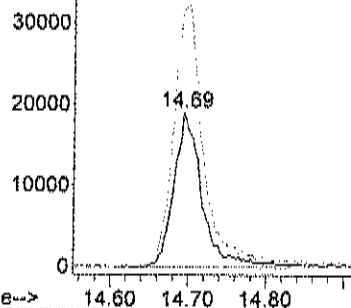


#51
Toluene
Concen: 0.89 ppb
RT: 14.69 min Scan# 3559
Delta R.T. -0.01 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

Tgt Ion: 92 Resp: 48074
Ion Ratio Lower Upper
92 100
91 177.4 152.5 192.5

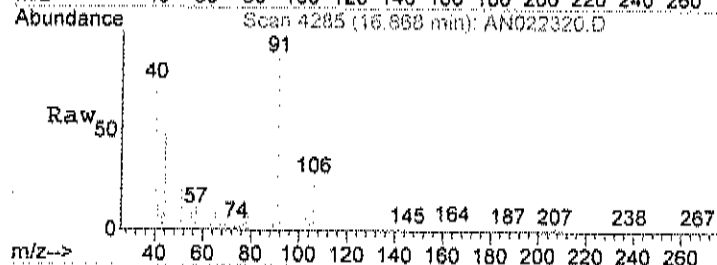


Abundance Ion 92.00 (91.70 to 92.70): ANI
Ion 91.00 (90.70 to 91.70): ANI

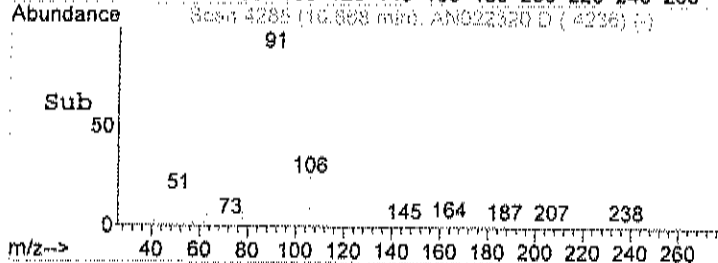
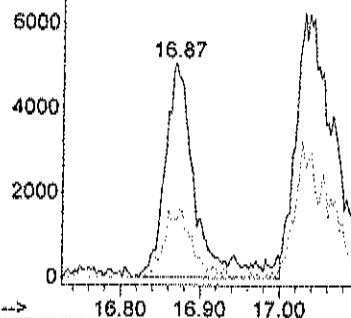


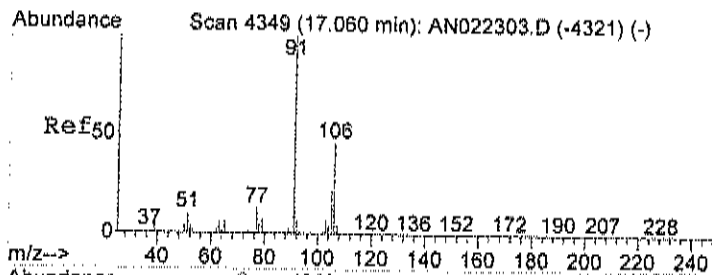
#59
Ethylbenzene
Concen: 0.11 ppb
RT: 16.87 min Scan# 4285
Delta R.T. -0.00 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

Tgt Ion: 91 Resp: 13412
Ion Ratio Lower Upper
91 100
106 29.2 9.9 49.9



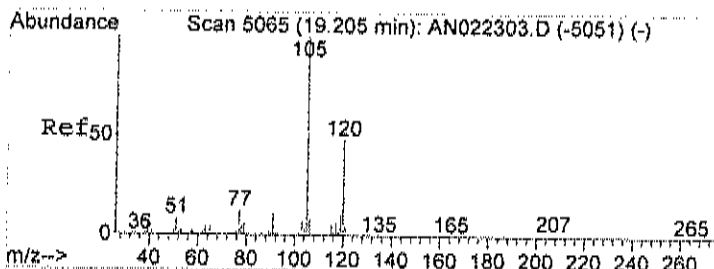
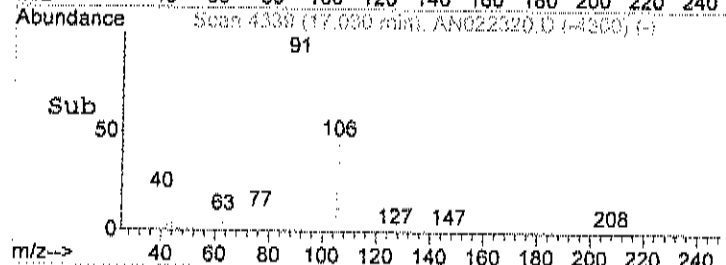
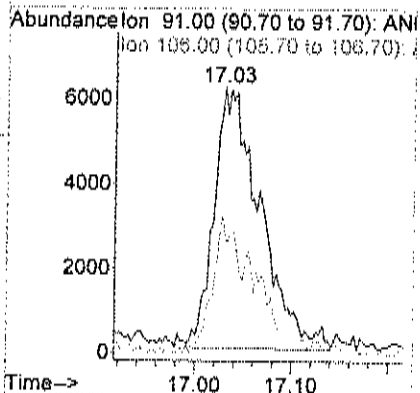
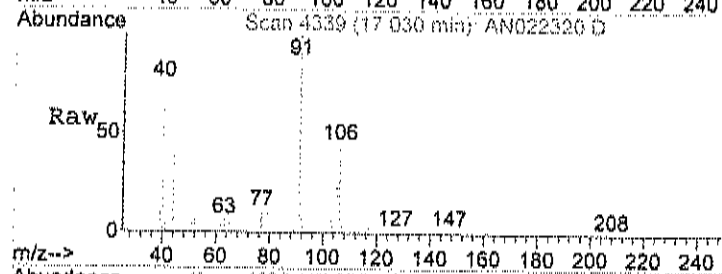
Abundance Ion 91.00 (90.70 to 91.70): ANI
Ion 106.00 (105.70 to 106.70): ANI





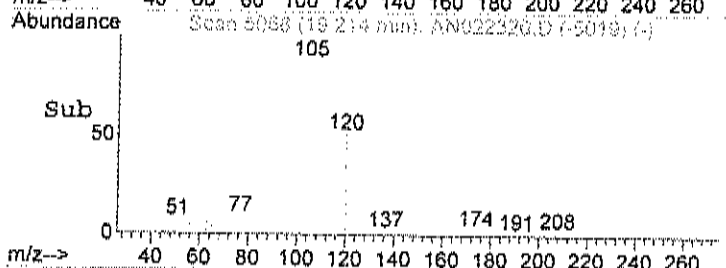
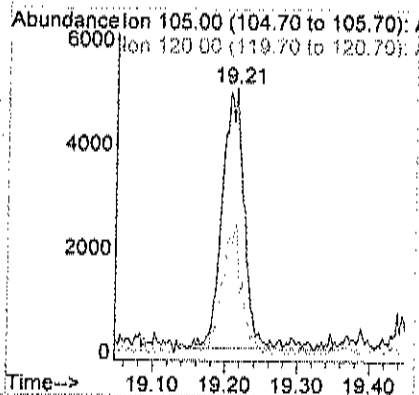
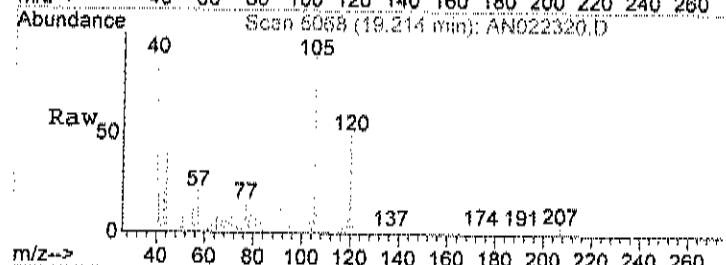
#60
m&p-xylene
Concen: 0.23 ppb
RT: 17.03 min Scan# 4339
Delta R.T. -0.03 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

Tgt Ion: 91 Resp: 20497
Ion Ratio Lower Upper
91 100
106 49.6 25.3 65.3



#72
1,2,4-trimethylbenzene
Concen: 0.11 ppb
RT: 19.21 min Scan# 5068
Delta R.T. -0.00 min
Lab File: AN022320.D
Acq: 23 Feb 2016 10:12 pm

Tgt Ion: 105 Resp: 11002
Ion Ratio Lower Upper
105 100
120 41.8 22.1 62.1



Data File : C:\HPCHEM\1\DATA\AN022329.D

Acq On : 24 Feb 2016 3:53 am

Sample : C1602050-003A 5x

Misc : A204_1UG

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:59 2016

Vial: 29

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.84	128	25302	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.09	114	81555	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	77582	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	39631	0.75	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	75.00%

Target Compounds

						Qvalue
15) Acetone	6.09	58	10576	0.99	ppb	# 1
42) 2,2,4-trimethylpentane	12.20	57	55936	0.42	ppb	86

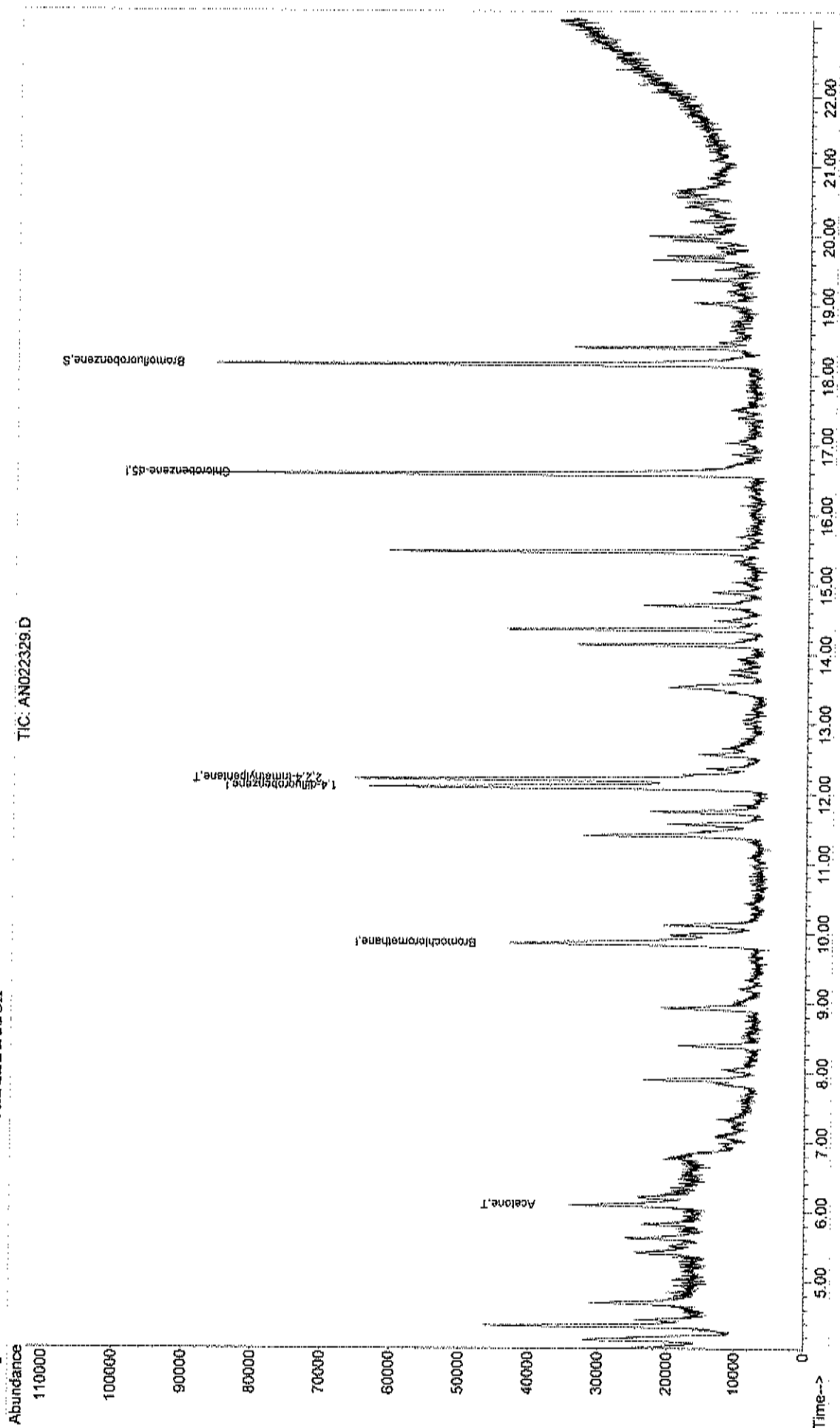
Quantitation Report (QT Reviewed)

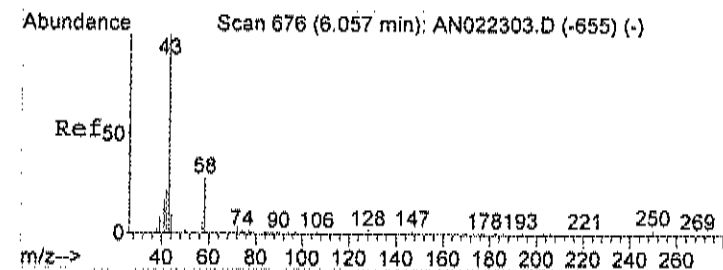
Data File : C:\HPCHEM\1\DATA\AN022329.D
Acq On : 24 Feb 2016 3:53 am
Sample : C1602050-003A 5x
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:21 2016

Vial: 29
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

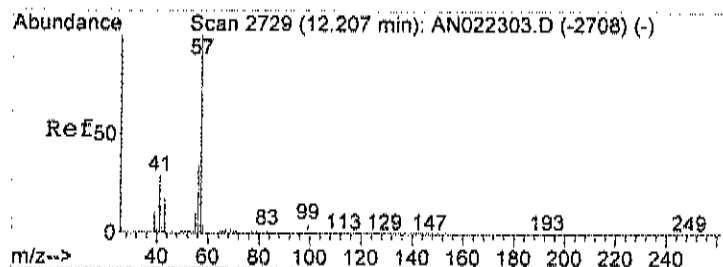
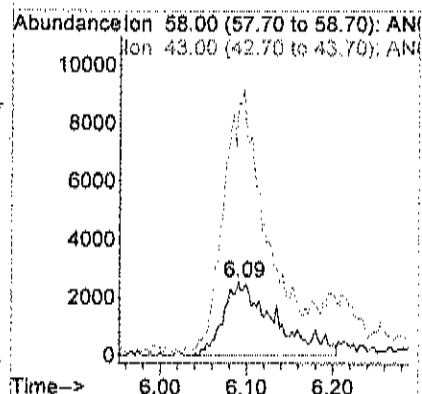
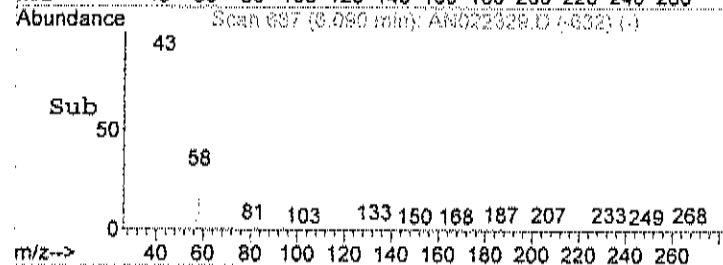
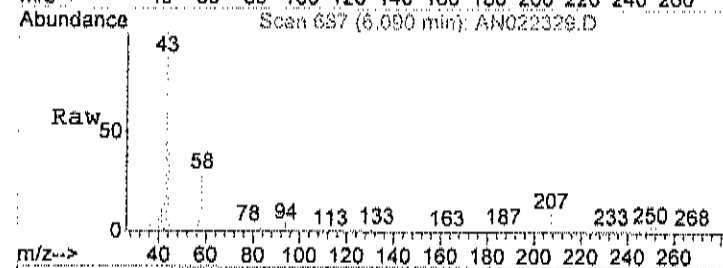
Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration





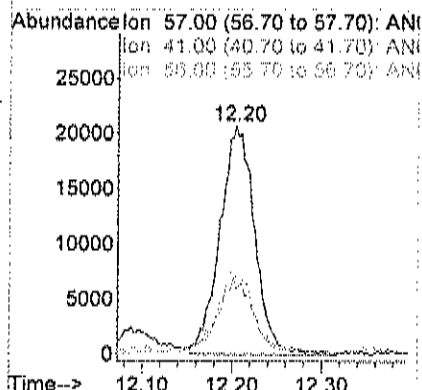
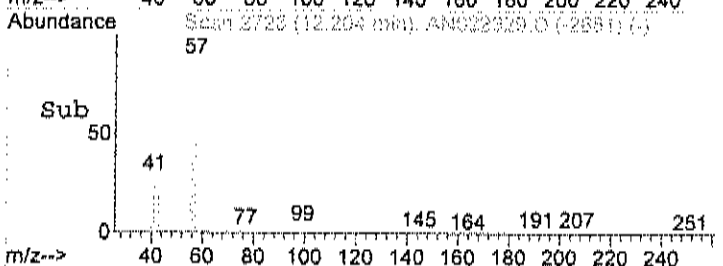
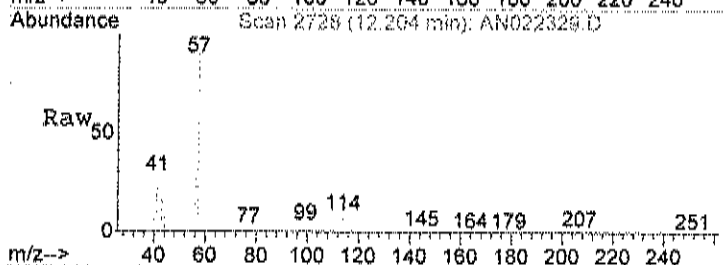
#15
Acetone
Concen: 0.99 ppb
RT: 6.09 min Scan# 687
Delta R.T. 0.01 min
Lab File: AN022329.D
Acq: 24 Feb 2016 3:53 am

Tgt Ion: 58 Resp: 10576
Ion Ratio Lower Upper
58 100
43 335.9 661.8 721.8#



#42
2,2,4-trimethylpentane
Concen: 0.42 ppb
RT: 12.20 min Scan# 2728
Delta R.T. -0.01 min
Lab File: AN022329.D
Acq: 24 Feb 2016 3:53 am

Tgt Ion: 57 Resp: 55936
Ion Ratio Lower Upper
57 100
41 39.9 14.1 54.1
56 41.5 11.4 51.4



Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-004A

Client Sample ID: Rm 117 Dup
 Tag Number: 347,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD		Analyst:	
Lab Vacuum In	-2			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15		Analyst: RJP	
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,1,1,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	2/23/2016 10:51:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 10:51:00 PM
2,2,4-trimethylpentane	0.11	0.15	J	ppbV	1	2/23/2016 10:51:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Acetone	5.2	1.5		ppbV	5	2/24/2016 4:30:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Benzene	0.35	0.15		ppbV	1	2/23/2016 10:51:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Carbon tetrachloride	0.13	0.040		ppbV	1	2/23/2016 10:51:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Chloroform	0.24	0.15		ppbV	1	2/23/2016 10:51:00 PM
Chloromethane	0.58	0.15		ppbV	1	2/23/2016 10:51:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Cyclohexane	0.54	0.15		ppbV	1	2/23/2016 10:51:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 10:51:00 PM

Qualifiers:	**	Reporting Limit		Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-004A

Client Sample ID: Rm 117 Dup
 Tag Number: 347,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Freon 11	0.36	0.15		ppbV	1	2/23/2016 10:51:00 PM
Freon 113	0.12	0.15	J	ppbV	1	2/23/2016 10:51:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Freon 12	0.65	0.15		ppbV	1	2/23/2016 10:51:00 PM
Heptane	0.17	0.15		ppbV	1	2/23/2016 10:51:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Hexane	0.56	0.15		ppbV	1	2/23/2016 10:51:00 PM
Isopropyl alcohol	2.1	0.15		ppbV	1	2/23/2016 10:51:00 PM
m&p-Xylene	0.25	0.30	J	ppbV	1	2/23/2016 10:51:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 10:51:00 PM
Methyl Ethyl Ketone	0.46	0.30		ppbV	1	2/23/2016 10:51:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 10:51:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Methylene chloride	0.41	0.15		ppbV	1	2/23/2016 10:51:00 PM
o-Xylene	0.16	0.15		ppbV	1	2/23/2016 10:51:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Toluene	0.83	0.15		ppbV	1	2/23/2016 10:51:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Trichloroethene	0.080	0.040		ppbV	1	2/23/2016 10:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 10:51:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 10:51:00 PM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	2/23/2016 10:51:00 PM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-004A

Client Sample ID: Rm 117 Dup
 Tag Number: 347,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:51:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 10:51:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:51:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:51:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 10:51:00 PM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 10:51:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 10:51:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 10:51:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 10:51:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 10:51:00 PM
2,2,4-trimethylpentane	0.51	0.70	J	ug/m3	1	2/23/2016 10:51:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 10:51:00 PM
Acetone	12	3.6		ug/m3	5	2/24/2016 4:30:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 10:51:00 PM
Benzene	1.1	0.48		ug/m3	1	2/23/2016 10:51:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 10:51:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 10:51:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 10:51:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 10:51:00 PM
Carbon tetrachloride	0.82	0.25		ug/m3	1	2/23/2016 10:51:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 10:51:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 10:51:00 PM
Chloroform	1.2	0.73		ug/m3	1	2/23/2016 10:51:00 PM
Chloromethane	1.2	0.31		ug/m3	1	2/23/2016 10:51:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:51:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:51:00 PM
Cyclohexane	1.9	0.52		ug/m3	1	2/23/2016 10:51:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 10:51:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 10:51:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/23/2016 10:51:00 PM
Freon 11	2.0	0.84		ug/m3	1	2/23/2016 10:51:00 PM
Freon 113	0.92	1.1	J	ug/m3	1	2/23/2016 10:51:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM

Qualifiers:	**	Reporting Limit		Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank		E Value above quantitation range
	H	Holding times for preparation or analysis exceeded		J Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.		ND Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-004A

Client Sample ID: Rm 117 Dup
 Tag Number: 347,146
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	3.2	0.74		ug/m3	1	2/23/2016 10:51:00 PM
Heptane	0.70	0.61		ug/m3	1	2/23/2016 10:51:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 10:51:00 PM
Hexane	2.0	0.53		ug/m3	1	2/23/2016 10:51:00 PM
Isopropyl alcohol	5.2	0.37		ug/m3	1	2/23/2016 10:51:00 PM
m&p-Xylene	1.1	1.3	J	ug/m3	1	2/23/2016 10:51:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:51:00 PM
Methyl Ethyl Ketone	1.4	0.88		ug/m3	1	2/23/2016 10:51:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 10:51:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 10:51:00 PM
Methylene chloride	1.4	0.52		ug/m3	1	2/23/2016 10:51:00 PM
o-Xylene	0.69	0.65		ug/m3	1	2/23/2016 10:51:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 10:51:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 10:51:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 10:51:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 10:51:00 PM
Toluene	3.1	0.57		ug/m3	1	2/23/2016 10:51:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 10:51:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 10:51:00 PM
Trichloroethene	0.43	0.21		ug/m3	1	2/23/2016 10:51:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 10:51:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 10:51:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 10:51:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Data File : C:\HPCHEM\1\DATA\AN022321.D
 Acq On : 23 Feb 2016 10:51 pm
 Sample : C1602050-004A
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 24 08:36:51 2016

Vial: 21
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 11 11:13:02 2016
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	28857	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.08	114	96312	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	83054	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	48890	0.86	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	86.00%

Target Compounds

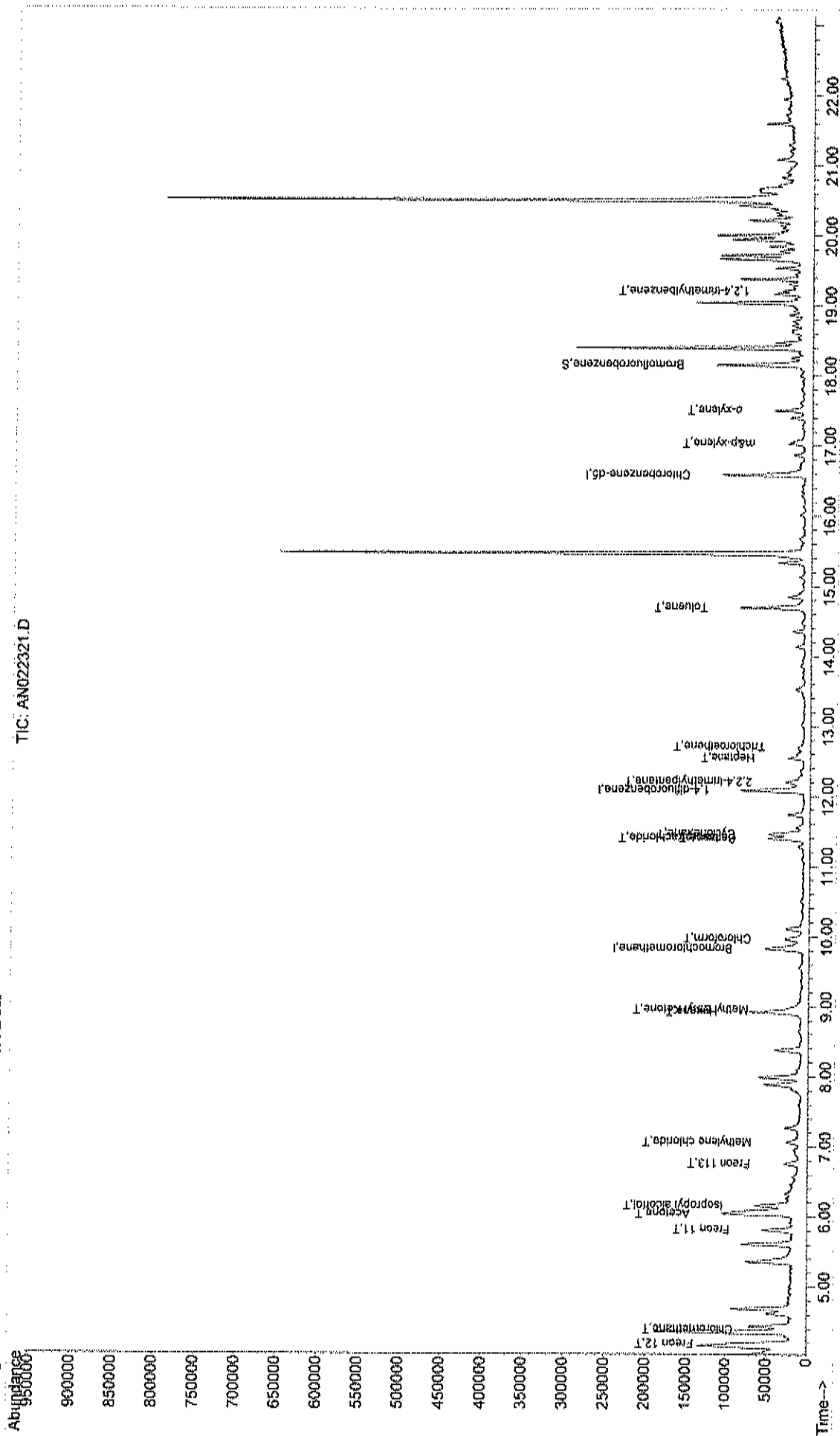
	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	4.19	85	81112	0.65	ppb	100
4) Chloromethane	4.40	50	22147	0.58	ppb	98
14) Freon 11	5.82	101	45281	0.36	ppb	98
15) Acetone	6.04	58	62369	5.11	ppb	# 1
17) Isopropyl alcohol	6.16	45	74212	2.11	ppb	# 46
19) Freon 113	6.76	101	9691	0.12	ppb	92
21) Methylene chloride	7.06	84	15653	0.41	ppb	94
28) Methyl Ethyl Ketone	8.96	72	8664	0.46	ppb	# 100
30) Hexane	8.92	57	35625	0.56	ppb	87
32) Chloroform	9.97	83	22564	0.24	ppb	96
37) Cyclohexane	11.46	56	24695m	0.54	ppb	
38) Carbon tetrachloride	11.41	117	9140	0.13	ppb	100
39) Benzene	11.38	78	29794	0.35	ppb	88
42) 2,2,4-trimethylpentane	12.20	57	17010	0.11	ppb	# 57
43) Heptane	12.55	43	8191	0.17	ppb	# 60
44) Trichloroethene	12.71	130	3136	0.08	ppb	97
51) Toluene	14.69	92	46048	0.83	ppb	96
60) m&p-xylene	17.03	91	23354	0.25	ppb	97
64) o-xylene	17.51	91	17174	0.16	ppb	97
72) 1,2,4-trimethylbenzene	19.20	105	11816	0.12	ppb	98

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AN022321.D
Acq On : 23 Feb 2016 10:51 pm
Sample : C1602050-004A
Misc : A204_1UG
MMS Integration Params: RTEINT.P
Quant Time: Feb 26 10:10 2016

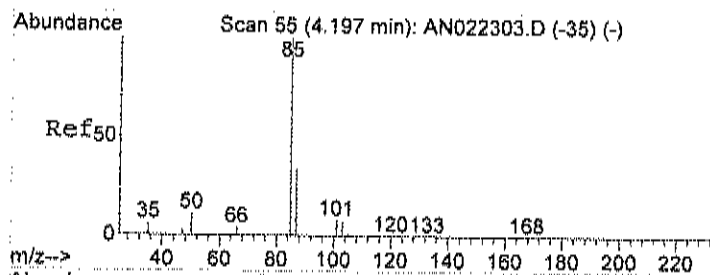
Quant Results File: A204 1UG.RES

```
Method      : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration
```



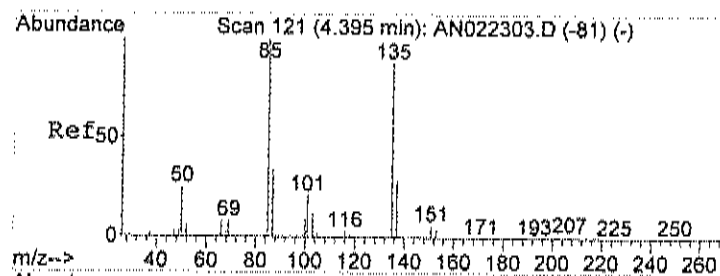
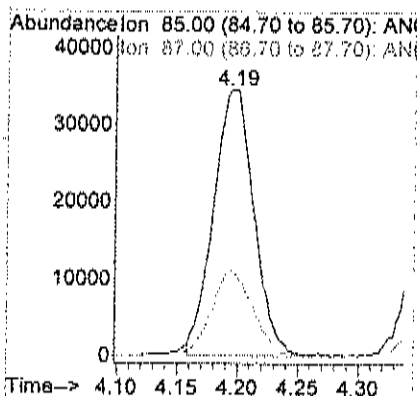
AN022321.D A204 1UG.M Thu Mar 03 11:00:47 2016

MSD1



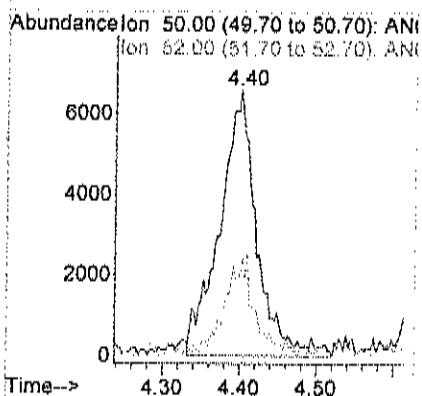
#3
Freon 12
Concen: 0.65 ppb
RT: 4.19 min Scan# 54
Delta R.T. -0.02 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

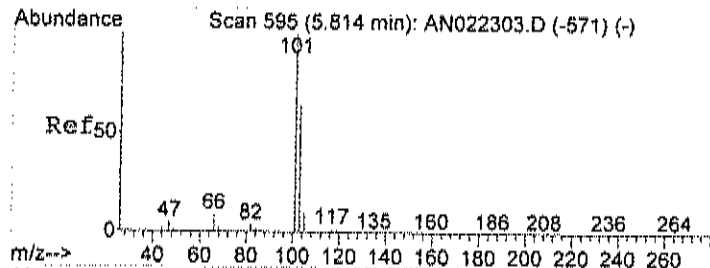
Tgt Ion: 85 Resp: 81112
Ion Ratio Lower Upper
85 100
87 32.8 12.5 52.5



#4
Chloromethane
Concen: 0.58 ppb
RT: 4.40 min Scan# 123
Delta R.T. -0.01 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

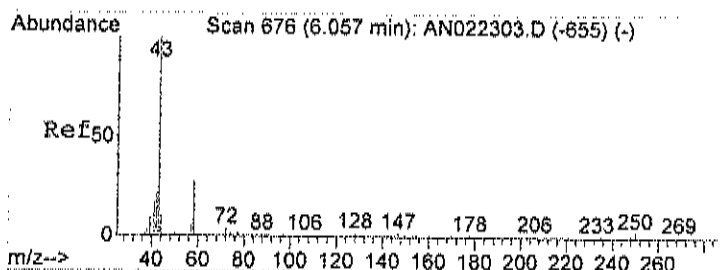
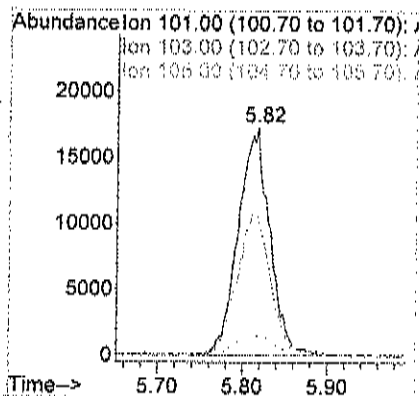
Tgt Ion: 50 Resp: 22147
Ion Ratio Lower Upper
50 100
52 30.4 9.2 49.2





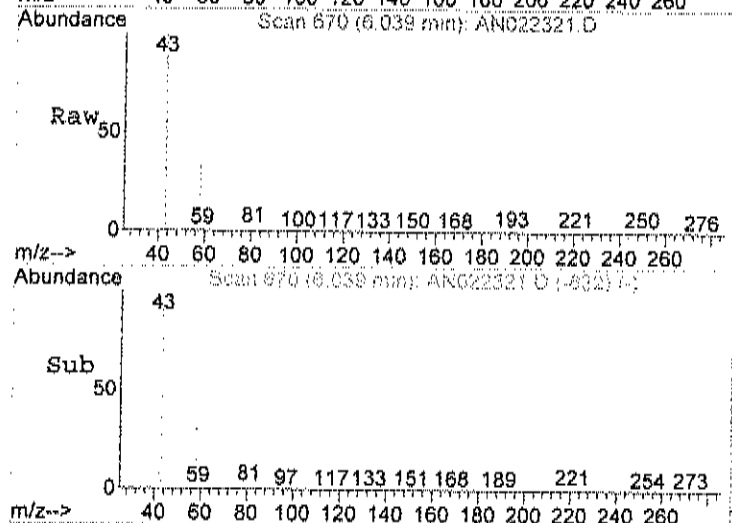
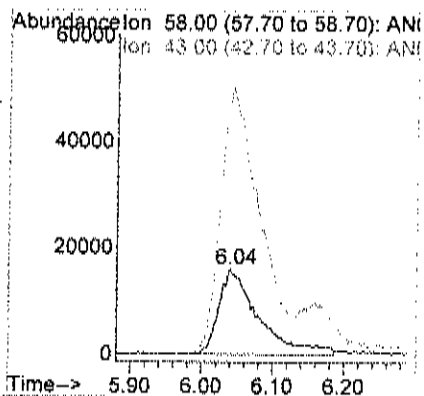
#14
Freon 11
Concen: 0.36 ppb
RT: 5.82 min Scan# 596
Delta R.T. -0.01 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

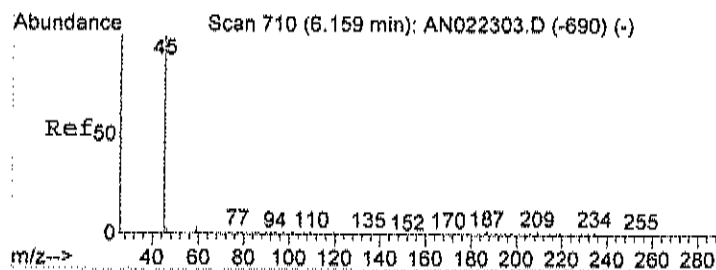
Tgt Ion: 101 Resp: 45281
Ion Ratio Lower Upper
101 100
103 66.5 44.6 84.6
105 12.5 0.0 31.6



#15
Acetone
Concen: 5.11 ppb
RT: 6.04 min Scan# 670
Delta R.T. -0.04 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

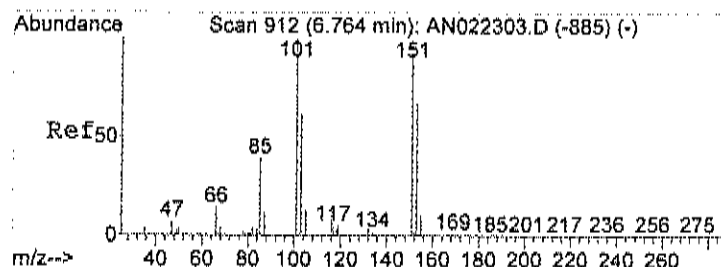
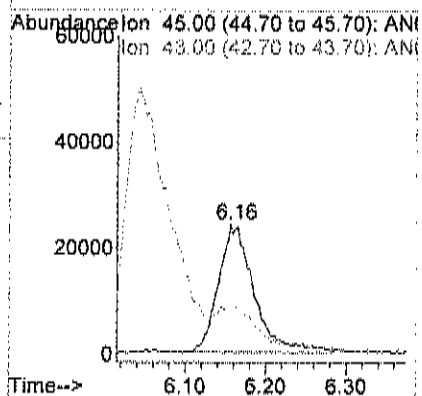
Tgt Ion: 58 Resp: 62369
Ion Ratio Lower Upper
58 100
43 333.6 661.8 721.8#





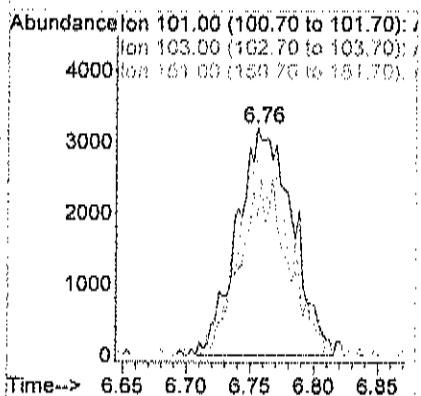
#17
Isopropyl alcohol
Concen: 2.11 ppb
RT: 6.16 min Scan# 709
Delta R.T. -0.02 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

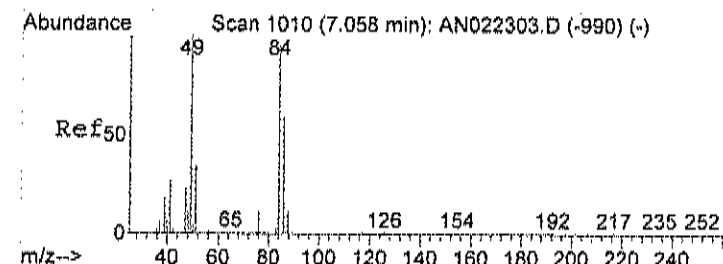
Tgt Ion: 45 Resp: 74212
Ion Ratio Lower Upper
45 100
43 0.0 8.9 48.9#



#19
Freon 113
Concen: 0.12 ppb
RT: 6.76 min Scan# 909
Delta R.T. -0.02 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

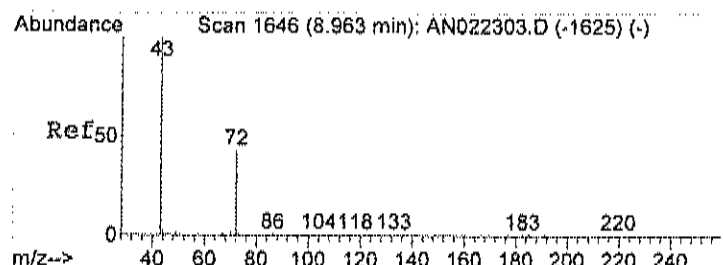
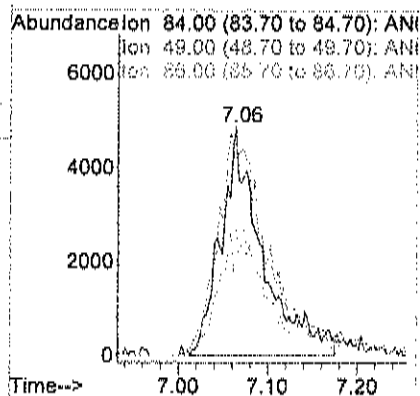
Tgt Ion: 101 Resp: 9691
Ion Ratio Lower Upper
101 100
103 66.9 42.5 82.5
151 81.1 70.9 110.9





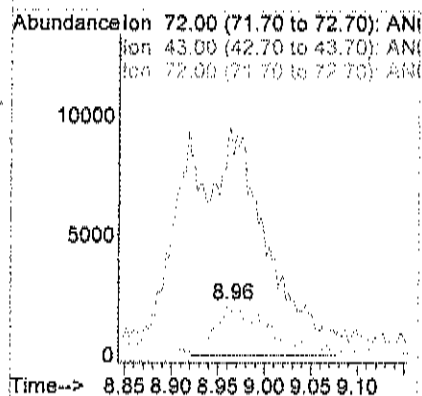
#21
Methylene chloride
Concen: 0.41 ppb
RT: 7.06 min Scan# 1012
Delta R.T. -0.01 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

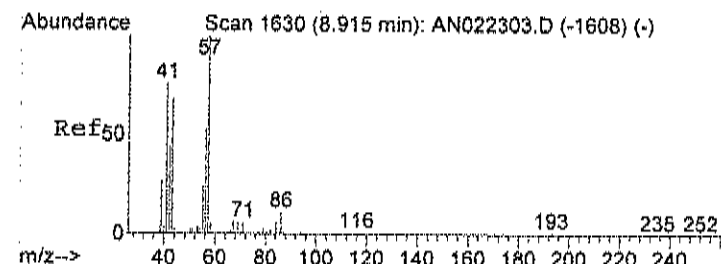
Tgt Ion	84	Resp	15653
Ion	Ratio	Lower	Upper
84	100		
49	116.4	87.8	127.8
86	60.4	43.1	83.1



#28
Methyl Ethyl Ketone
Concen: 0.46 ppb
RT: 8.96 min Scan# 1645
Delta R.T. -0.02 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

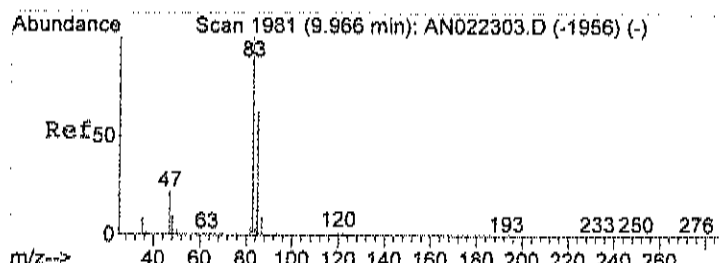
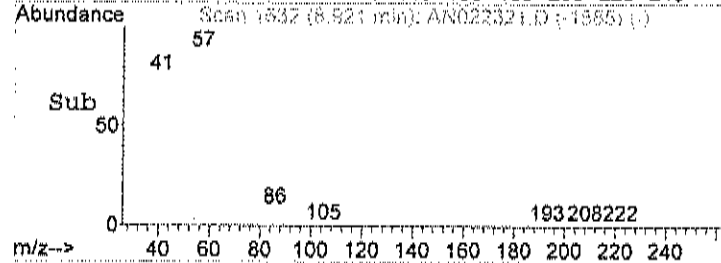
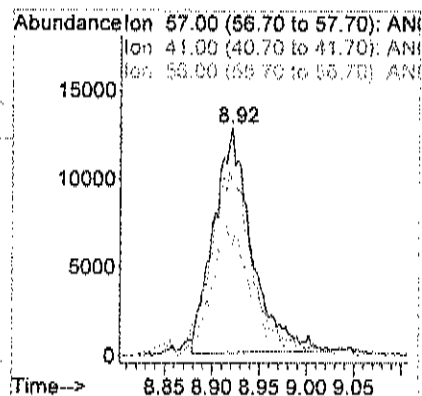
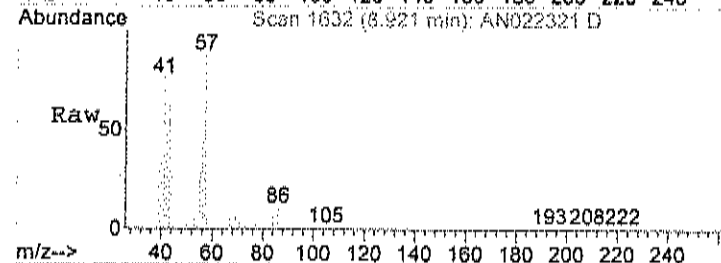
Tgt Ion	72	Resp	8664
Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0





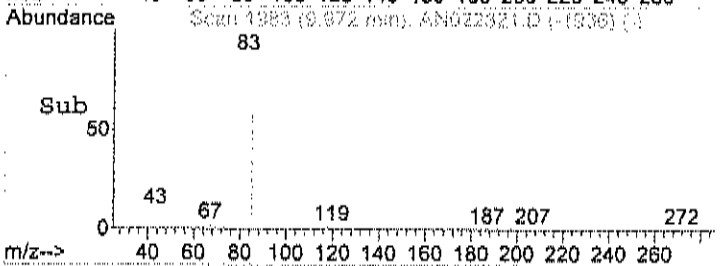
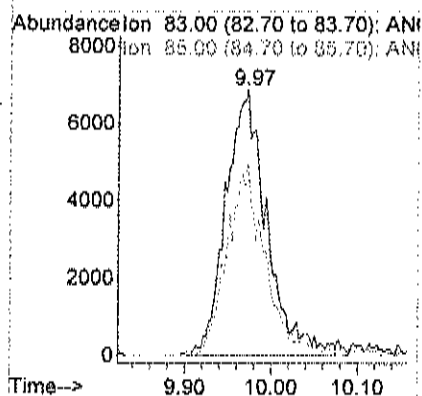
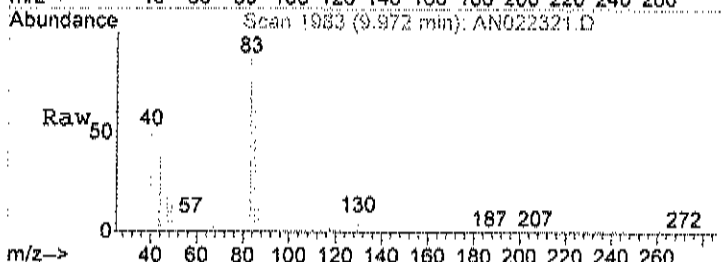
#30
Hexane
Concen: 0.56 ppb
RT: 8.92 min Scan# 1632
Delta R.T. -0.01 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

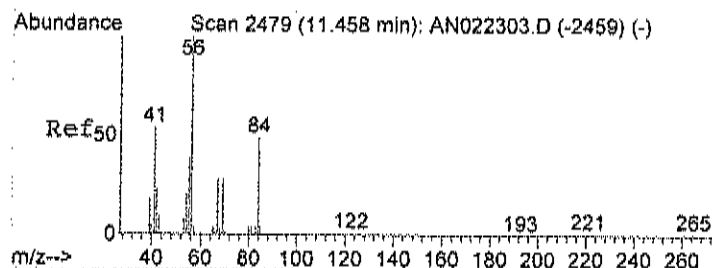
Tgt Ion: 57	Resp: 35625
Ion Ratio	Lower Upper
57	100
41	98.2 66.6 106.6
56	60.6 30.6 70.6



#32
Chloroform
Concen: 0.24 ppb
RT: 9.97 min Scan# 1983
Delta R.T. -0.01 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

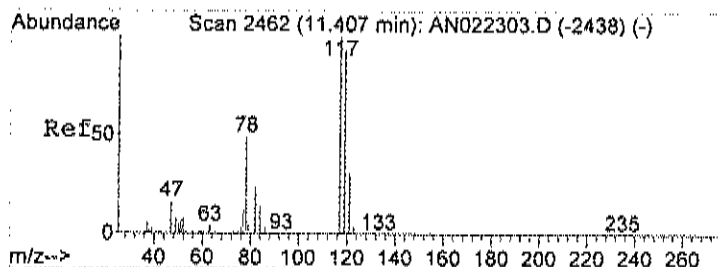
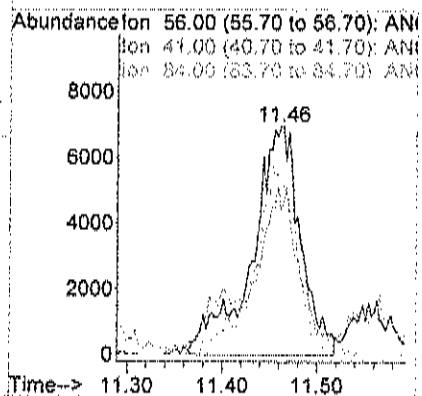
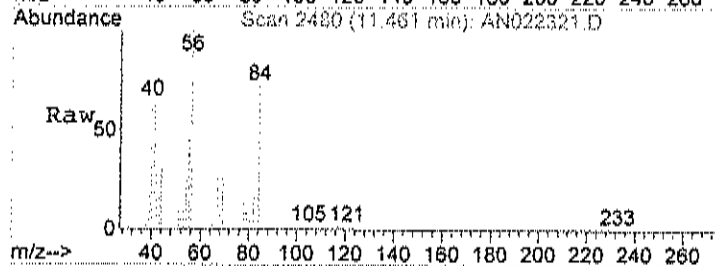
Tgt Ion: 83	Resp: 22564
Ion Ratio	Lower Upper
83	100
85	67.1 43.9 83.9





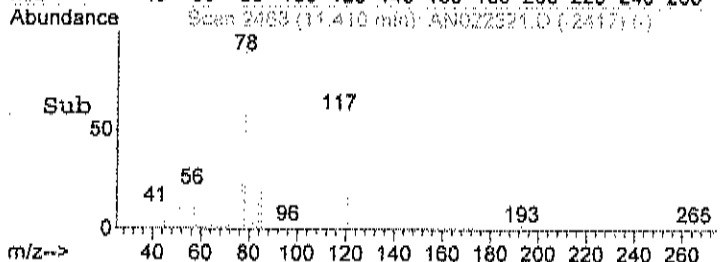
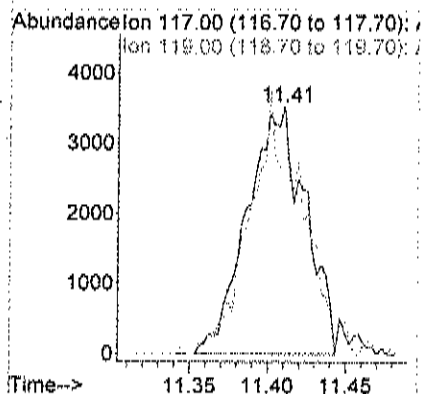
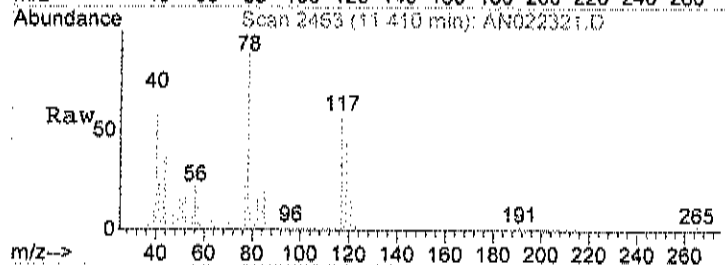
#37
Cyclohexane
Concen: 0.54 ppb m
RT: 11.46 min Scan# 2480
Delta R.T. ~0.01 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

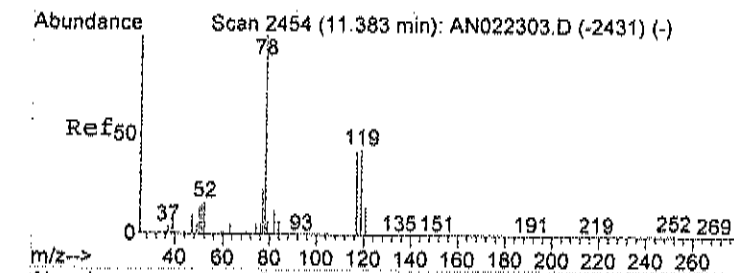
Tgt Ion	56	Resp	24695
Ion	Ratio	Lower	Upper
56	100		
41	91.9	47.3	87.3#
84	72.4	88.1	128.1#



#38
Carbon tetrachloride
Concen: 0.13 ppb
RT: 11.41 min Scan# 2463
Delta R.T. -0.01 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

Tgt Ion	117	Resp	9140
Ion	Ratio	Lower	Upper
117	100		
119	94.7	74.5	114.5





#39

Benzene

Concen: 0.35 ppb

RT: 11.38 min Scan# 2454

Delta R.T. -0.01 min

Lab File: AN022321.D

Acq: 23 Feb 2016 10:51 pm

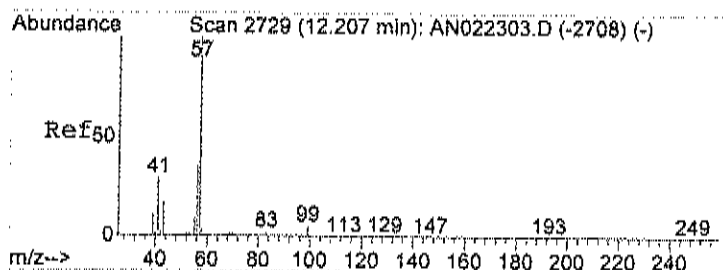
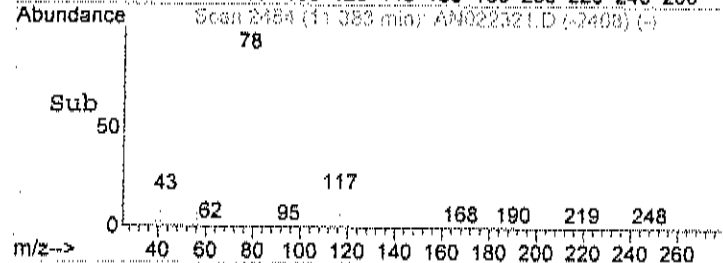
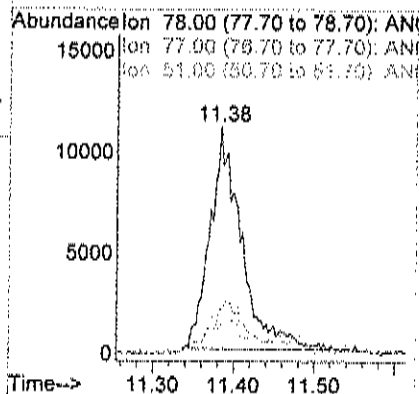
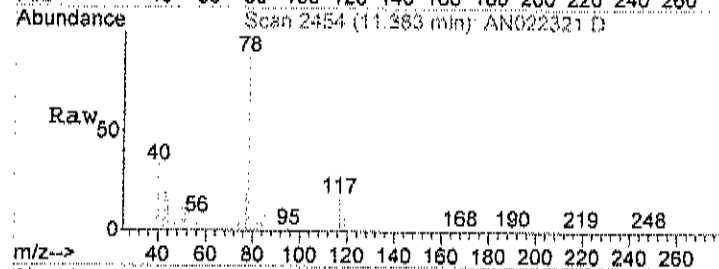
Tgt Ion: 78 Resp: 29794

Ion Ratio Lower Upper

78 100

77 34.6 6.0 46.0

51 25.6 2.1 42.1



#42

2,2,4-trimethylpentane

Concen: 0.11 ppb

RT: 12.20 min Scan# 2728

Delta R.T. -0.01 min

Lab File: AN022321.D

Acq: 23 Feb 2016 10:51 pm

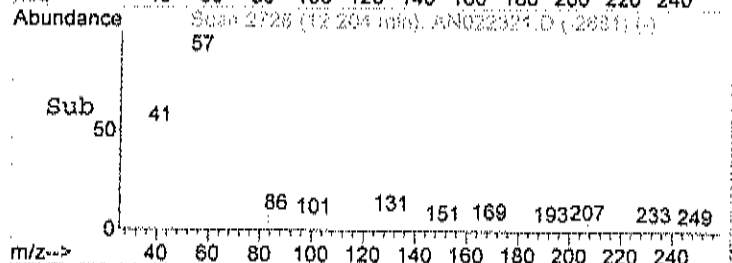
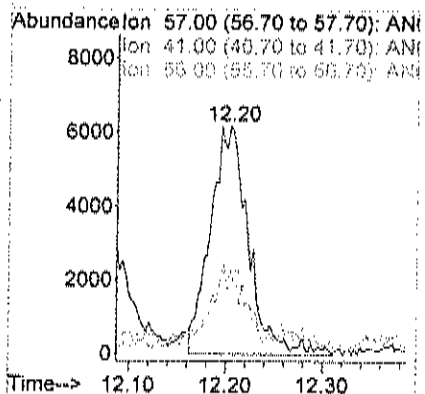
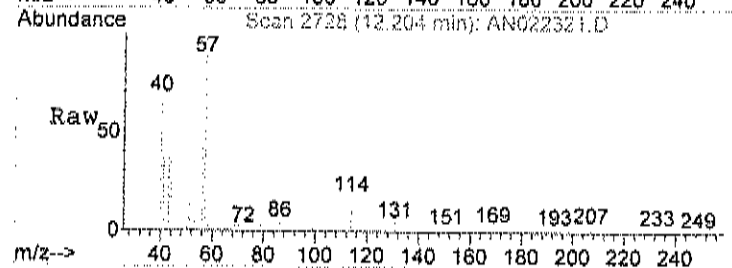
Tgt Ion: 57 Resp: 17010

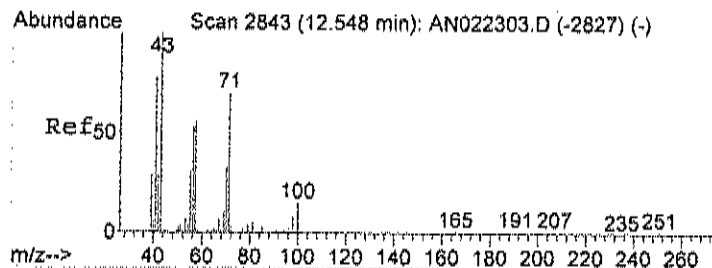
Ion Ratio Lower Upper

57 100

41 50.1 14.1 54.1

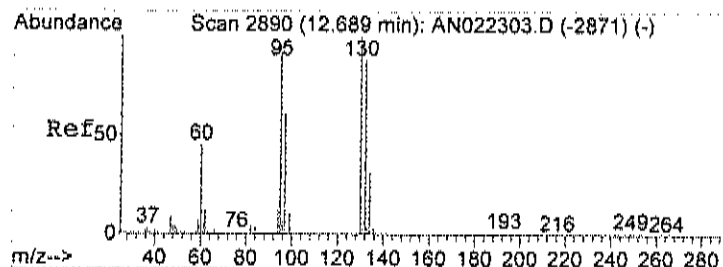
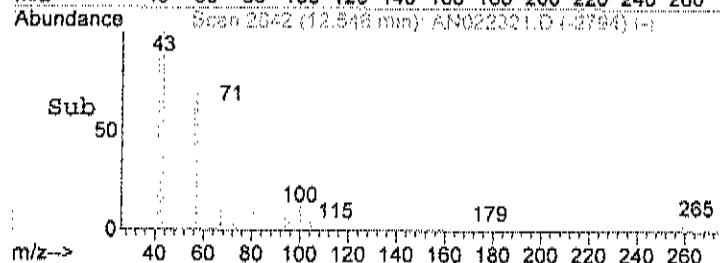
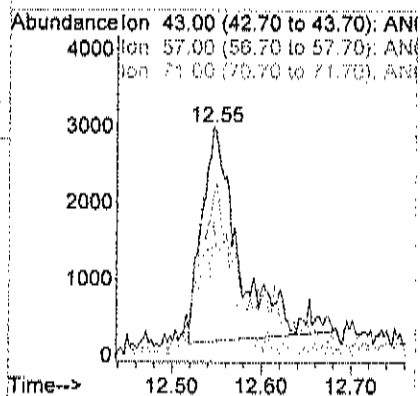
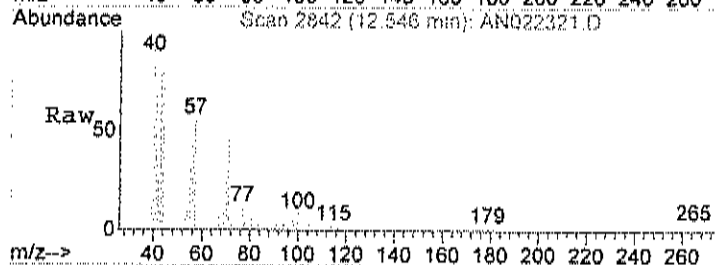
56 64.8 11.4 51.4#





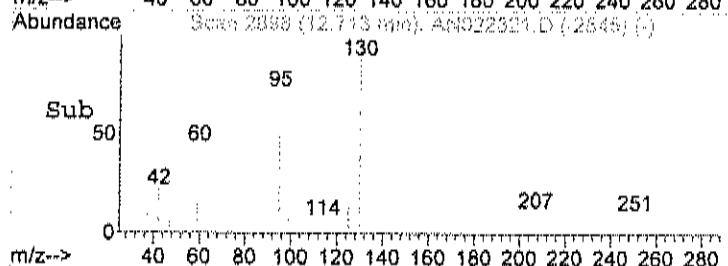
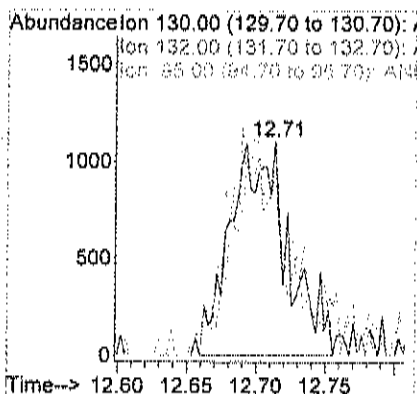
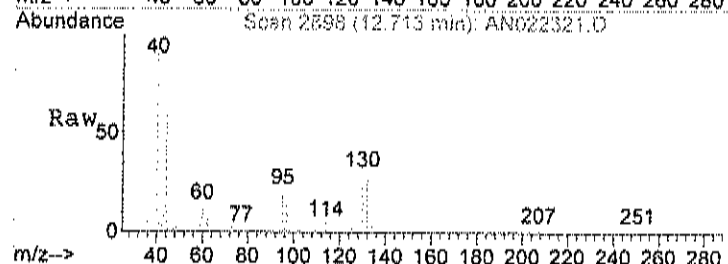
#43
Heptane
Concen: 0.17 ppb
RT: 12.55 min Scan# 2842
Delta R.T. -0.01 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

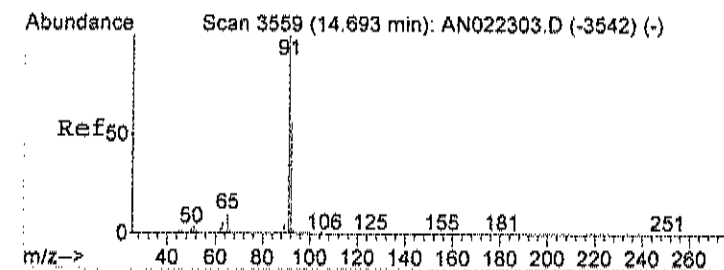
Tgt Ion: 43 Resp: 8191
Ion Ratio Lower Upper
43 100
57 106.7 31.3 71.3#
71 53.1 34.8 74.8



#44
Trichloroethene
Concen: 0.08 ppb
RT: 12.71 min Scan# 2898
Delta R.T. 0.01 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

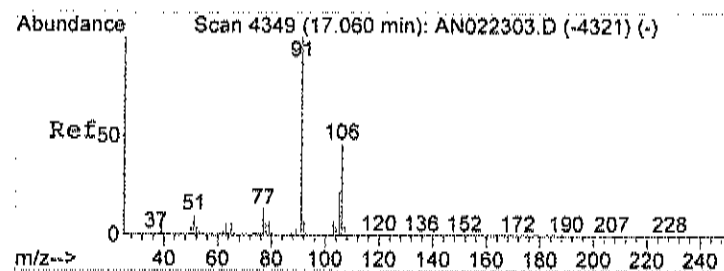
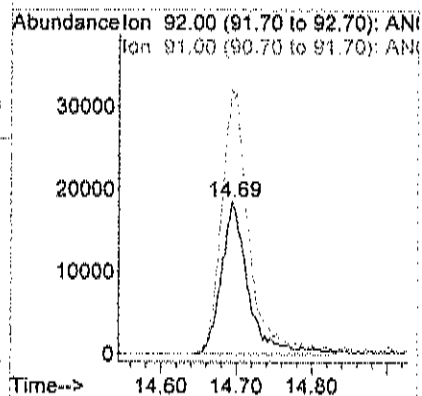
Tgt Ion: 130 Resp: 3136
Ion Ratio Lower Upper
130 100
132 97.9 76.1 116.1
95 110.0 85.0 125.0





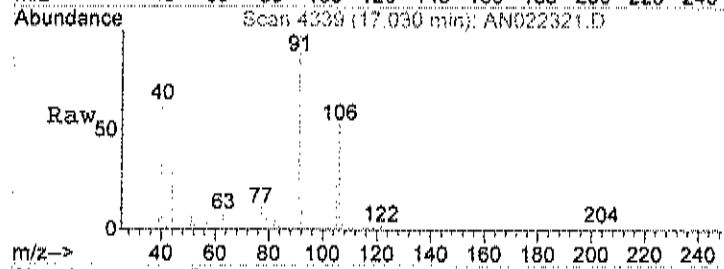
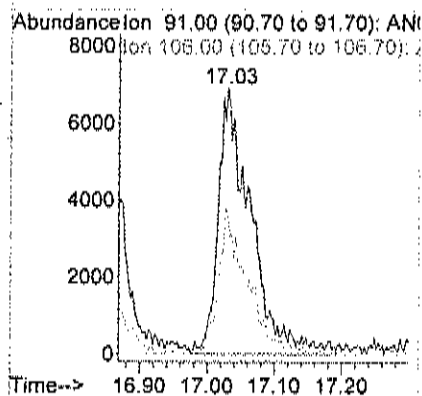
#51
Toluene
Concen: 0.83 ppb
RT: 14.69 min Scan# 3559
Delta R.T. -0.01 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

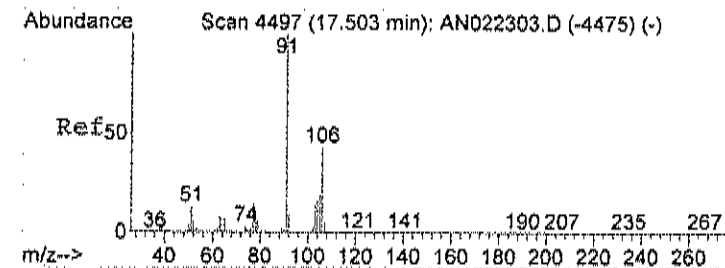
Tgt Ion	92	Resp	46048
Ion	Ratio	Lower	Upper
92	100		
91	178.4	152.5	192.5



#60
m,p-xylene
Concen: 0.25 ppb
RT: 17.03 min Scan# 4339
Delta R.T. -0.03 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

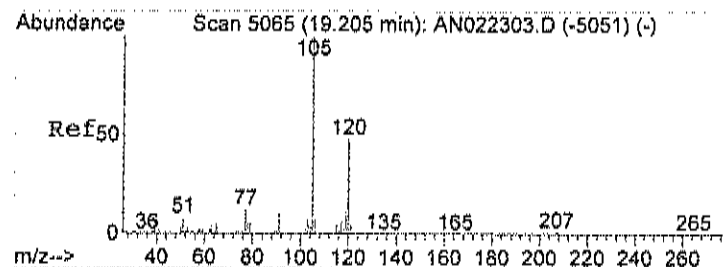
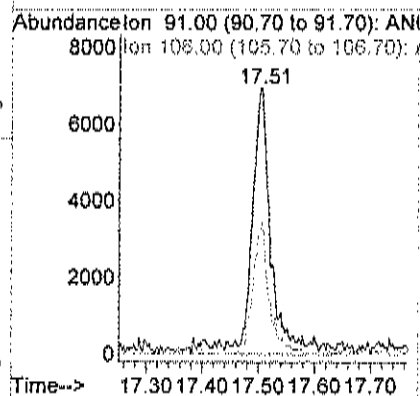
Tgt Ion	91	Resp	23354
Ion	Ratio	Lower	Upper
91	100		
106	47.5	25.3	65.3





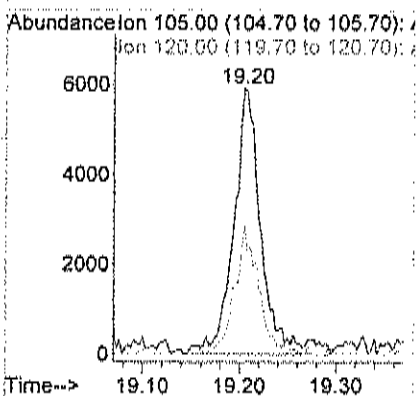
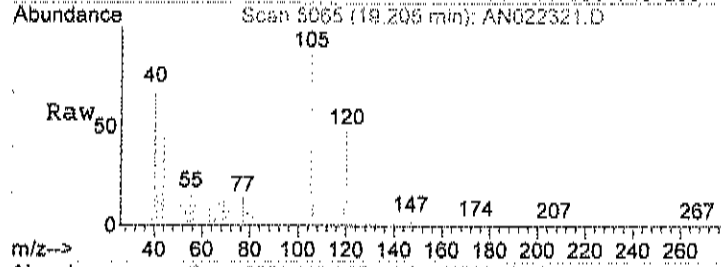
#64
o-xylene
Concen: 0.16 ppb
RT: 17.51 min Scan# 4498
Delta R.T. -0.00 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

Tgt Ion	91	106	Resp	17174
Ion Ratio	100	40.0	18.4	58.4



#72
1,2,4-trimethylbenzene
Concen: 0.12 ppb
RT: 19.20 min Scan# 5065
Delta R.T. -0.01 min
Lab File: AN022321.D
Acq: 23 Feb 2016 10:51 pm

Tgt Ion	105	120	Resp	11816
Ion Ratio	100	40.8	22.1	62.1



Data File : C:\HPCHEM\1\DATA\AN022330.D

Acq On : 24 Feb 2016 4:30 am

Sample : C1602050-004A 5x

Misc : A204_1UG

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:37:00 2016

Vial: 30

Operator: RJP

Inst : MSD #1

Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.85	128	25797	1.00	ppb	-0.01
35) 1,4-difluorobenzene	12.09	114	80453	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	77334	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	38603	0.73	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	73.00%

Target Compounds

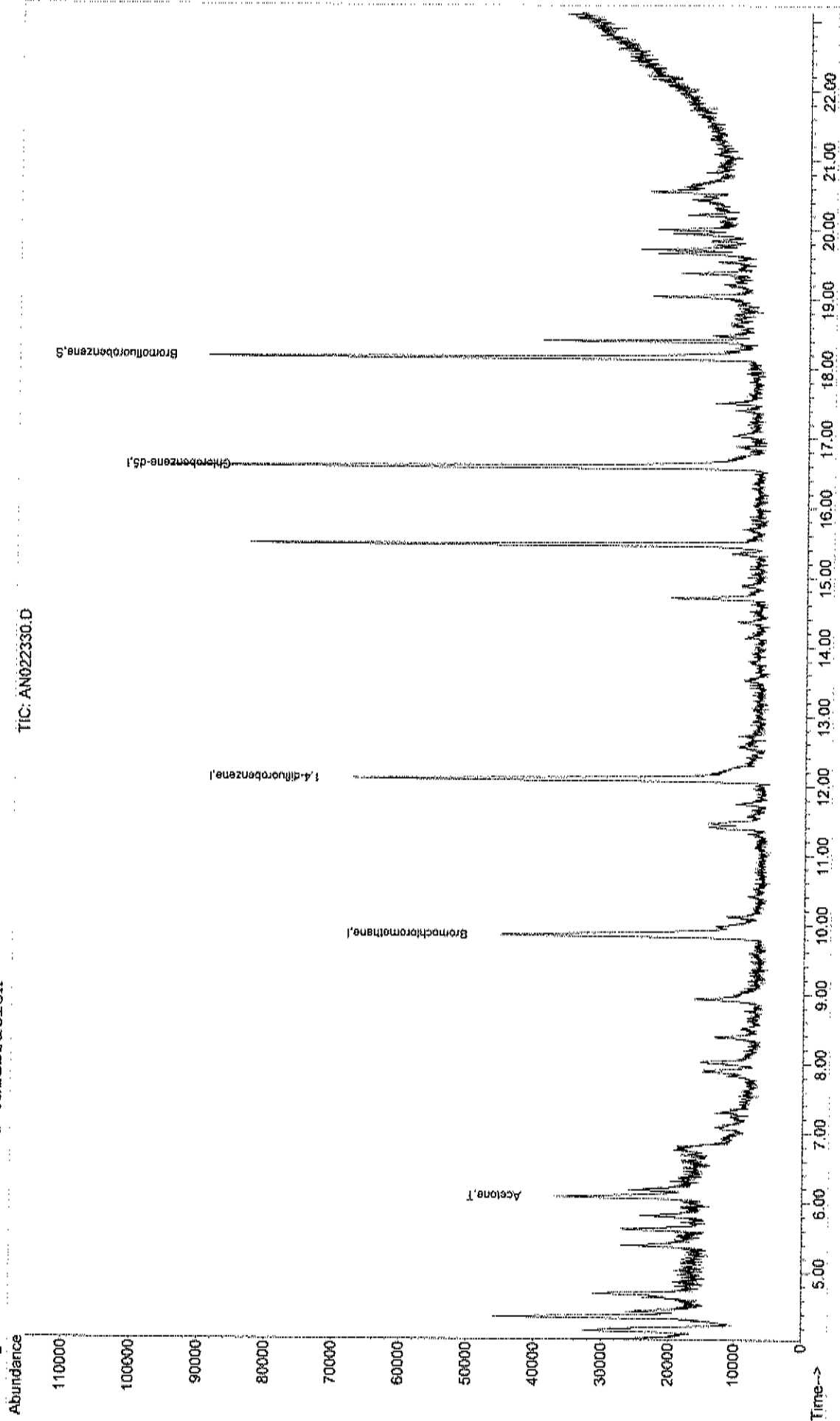
15) Acetone	6.08	58	11394	1.04	ppb	Qvalue # 2
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Data File : C:\HPCHEM\1\DATA\AN022330.D
Acq On : 24 Feb 2016 4:30 am
Sample : C1602050-004A 5x
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:21 2016

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration

Quant Results File: A204_1UG.RES

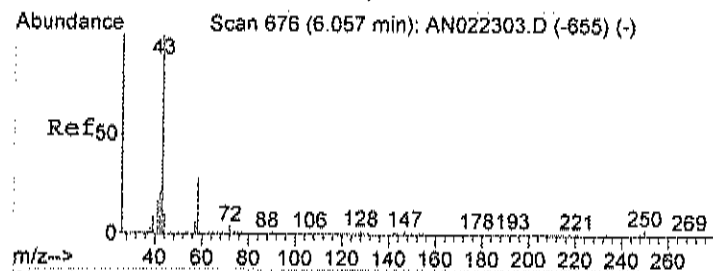
TIC: AN022330.D



AN022330.D A204_1UG.M

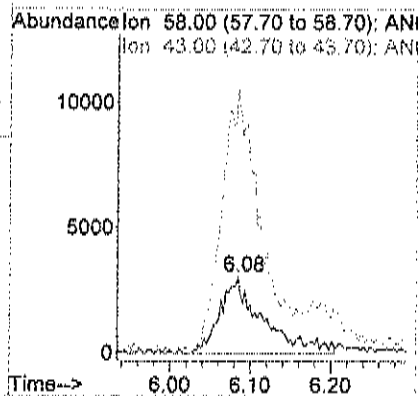
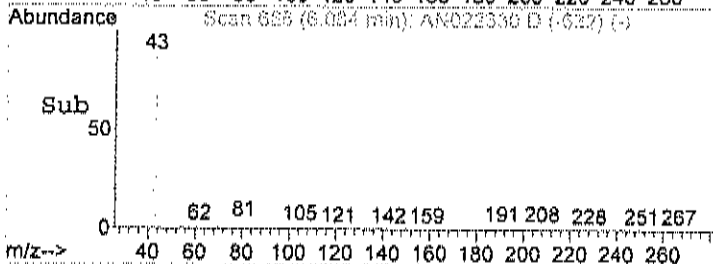
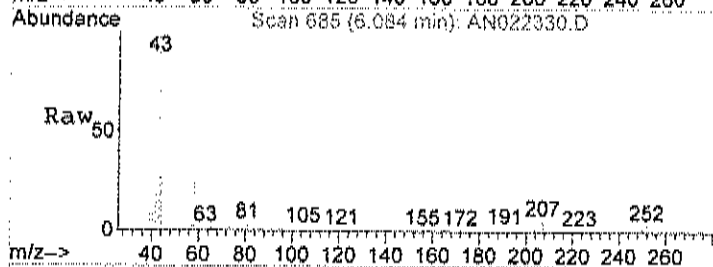
Thu Mar 03 11:02:12 2016

MSD1



#15
 Acetone
 Concen: 1.04 ppb
 RT: 6.08 min Scan# 685
 Delta R.T. 0.01 min
 Lab File: AN022330.D
 Acq: 24 Feb 2016 4:30 am

Tgt Ion: 58 Resp: 11394
 Ion Ratio Lower Upper
 58 100
 43 353.3 661.8 721.8#



Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 117 Ms/MSD

Lab Order: C1602050

Tag Number: 1208,1165

Project: 690 St Paul

Collection Date: 2/17/2016

Lab ID: C1602050-005A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-2			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	2/23/2016 6:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 6:50:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Acetone	5.7	1.5		ppbV	5	2/24/2016 2:03:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Benzene	0.37	0.15		ppbV	1	2/23/2016 6:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Carbon tetrachloride	0.14	0.040		ppbV	1	2/23/2016 6:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Chloroform	0.25	0.15		ppbV	1	2/23/2016 6:50:00 PM
Chloromethane	0.58	0.15		ppbV	1	2/23/2016 6:50:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 6:50:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 117 Ms/MSD

Lab Order: C1602050

Tag Number: 1208,1165

Project: 690 St Paul

Collection Date: 2/17/2016

Lab ID: C1602050-005A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Freon 11	0.36	0.15		ppbV	1	2/23/2016 6:50:00 PM
Freon 113	0.13	0.15	J	ppbV	1	2/23/2016 6:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Freon 12	0.65	0.15		ppbV	1	2/23/2016 6:50:00 PM
Heptane	0.23	0.15		ppbV	1	2/23/2016 6:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Hexane	0.55	0.15		ppbV	1	2/23/2016 6:50:00 PM
Isopropyl alcohol	1.7	0.15		ppbV	1	2/23/2016 6:50:00 PM
m&p-Xylene	0.24	0.30	J	ppbV	1	2/23/2016 6:50:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 6:50:00 PM
Methyl Ethyl Ketone	0.51	0.30		ppbV	1	2/23/2016 6:50:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 6:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Methylene chloride	0.46	0.15		ppbV	1	2/23/2016 6:50:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	2/23/2016 6:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Tetrachloroethylene	0.11	0.15	J	ppbV	1	2/23/2016 6:50:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Toluene	0.80	0.15		ppbV	1	2/23/2016 6:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Trichloroethene	0.080	0.040		ppbV	1	2/23/2016 6:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 6:50:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 6:50:00 PM
Surr: Bromofluorobenzene	91.0	70-130		%REC	1	2/23/2016 6:50:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 117 Ms/MSD

Lab Order: C1602050

Tag Number: 1208,1165

Project: 690 St Paul

Collection Date: 2/17/2016

Lab ID: C1602050-005A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 6:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 6:50:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 6:50:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 6:50:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 6:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 6:50:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 6:50:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 6:50:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 6:50:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 6:50:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 6:50:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/23/2016 6:50:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 6:50:00 PM
Acetone	14	3.6		ug/m3	5	2/24/2016 2:03:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 6:50:00 PM
Benzene	1.2	0.48		ug/m3	1	2/23/2016 6:50:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 6:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 6:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 6:50:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 6:50:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 6:50:00 PM
Carbon tetrachloride	0.88	0.25		ug/m3	1	2/23/2016 6:50:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 6:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 6:50:00 PM
Chloroform	1.2	0.73		ug/m3	1	2/23/2016 6:50:00 PM
Chloromethane	1.2	0.31		ug/m3	1	2/23/2016 6:50:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 6:50:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 6:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	2/23/2016 6:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 6:50:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 6:50:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/23/2016 6:50:00 PM
Freon 11	2.0	0.84		ug/m3	1	2/23/2016 6:50:00 PM
Freon 113	1.0	1.1	J	ug/m3	1	2/23/2016 6:50:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 6:50:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.

Client Sample ID: Rm 117 Ms/MSD

Lab Order: C1602050

Tag Number: 1208,1165

Project: 690 St Paul

Collection Date: 2/17/2016

Lab ID: C1602050-005A

Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	3.2	0.74		ug/m3	1	2/23/2016 6:50:00 PM
Heptane	0.94	0.61		ug/m3	1	2/23/2016 6:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 6:50:00 PM
Hexane	1.9	0.53		ug/m3	1	2/23/2016 6:50:00 PM
Isopropyl alcohol	4.2	0.37		ug/m3	1	2/23/2016 6:50:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	2/23/2016 6:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 6:50:00 PM
Methyl Ethyl Ketone	1.5	0.88		ug/m3	1	2/23/2016 6:50:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 6:50:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 6:50:00 PM
Methylene chloride	1.6	0.52		ug/m3	1	2/23/2016 6:50:00 PM
o-Xylene	0.48	0.65	J	ug/m3	1	2/23/2016 6:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 6:50:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 6:50:00 PM
Tetrachloroethylene	0.75	1.0	J	ug/m3	1	2/23/2016 6:50:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 6:50:00 PM
Toluene	3.0	0.57		ug/m3	1	2/23/2016 6:50:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 6:50:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 6:50:00 PM
Trichloroethene	0.43	0.21		ug/m3	1	2/23/2016 6:50:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 6:50:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 6:50:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 6:50:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Page 10 of 16

Data File : C:\HPCHEM\1\DATA\AN022315.D

Vial: 15

Acq On : 23 Feb 2016 6:50 pm

Operator: RJP

Sample : C1602050-005A

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:45 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	28598	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.08	114	95423	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	84862	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	52747	0.91	ppb	0.00
Spiked Amount	1.000	Range	70 ~ 130	Recovery	=	91.00%

Target Compounds

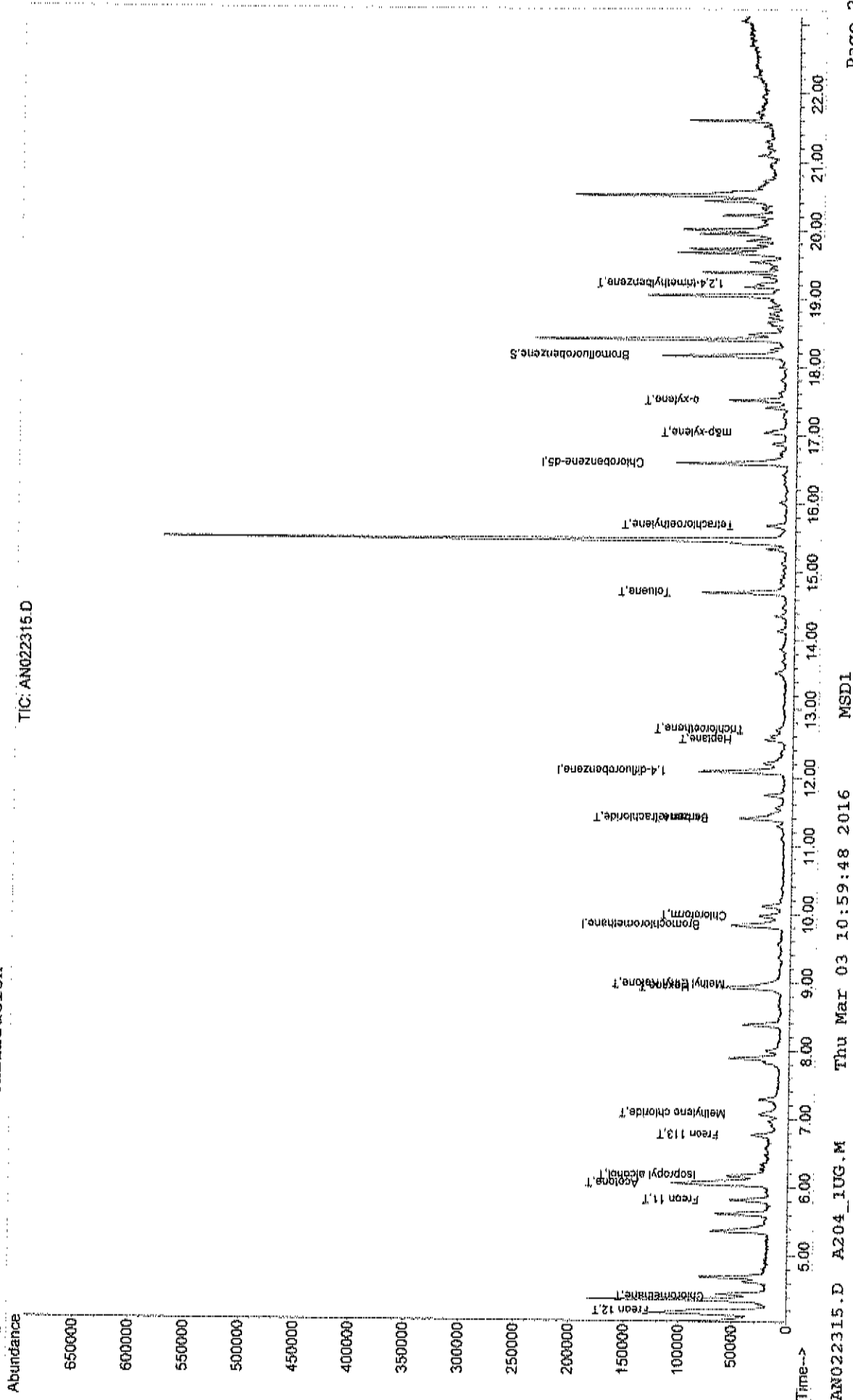
	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	4.20	85	80881	0.65	ppb	100
4) Chloromethane	4.40	50	22024	0.58	ppb	94
14) Freon 11	5.81	101	45280	0.36	ppb	99
15) Acetone	6.05	58	64098	5.30	ppb	# 1
17) Isopropyl alcohol	6.17	45	59571	1.71	ppb	# 46
19) Freon 113	6.76	101	10591	0.13	ppb	98
21) Methylene chloride	7.08	84	17251	0.46	ppb	97
28) Methyl Ethyl Ketone	8.97	72	9521m	0.51	ppb	
30) Hexane	8.92	57	34576	0.55	ppb	91
32) Chloroform	9.97	83	23268	0.25	ppb	95
38) Carbon tetrachloride	11.41	117	9740	0.14	ppb	97
39) Benzene	11.40	78	31365	0.37	ppb	89
43) Heptane	12.55	43	11105	0.23	ppb	# 63
44) Trichloroethene	12.70	130	3052	0.08	ppb	98
51) Toluene	14.69	92	45643	0.80	ppb	93
56) Tetrachloroethylene	15.68	164	4547	0.11	ppb	98
60) m&p-xylene	17.04	91	23405	0.24	ppb	93
64) o-xylene	17.50	91	12306	0.11	ppb	98
72) 1,2,4-trimethylbenzene	19.21	105	11181	0.11	ppb	95

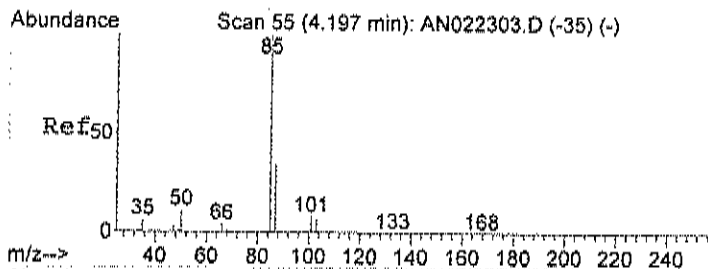
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN022315.D A204_1UG.M Thu Mar 03 10:59:48 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN022315.D
Acq On : 23 Feb 2016 6:50 pm
Sample : C1602050-005A
Misc : A204_IUG
MMS Integration Params: RTEINT.P
Quant Time: Feb 26 10:00 2016

Quant Results File: A204 IUG.RES

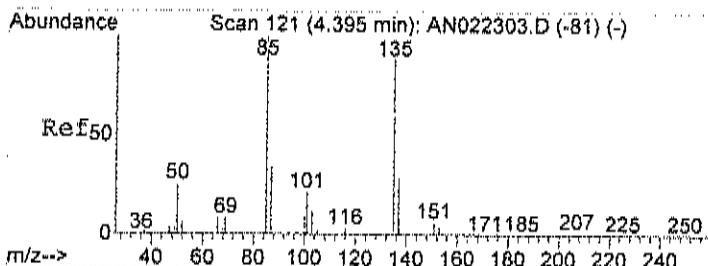
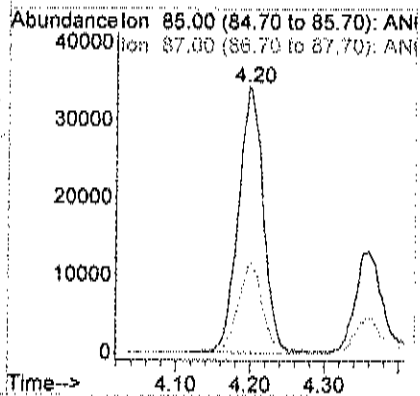
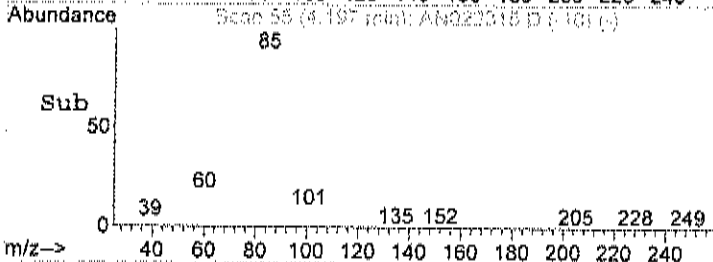
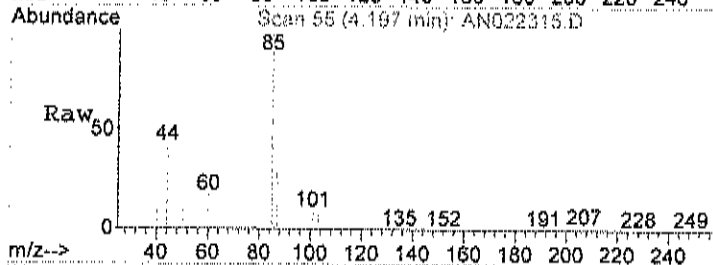
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Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration
```





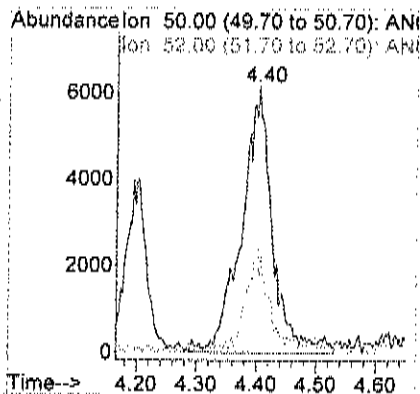
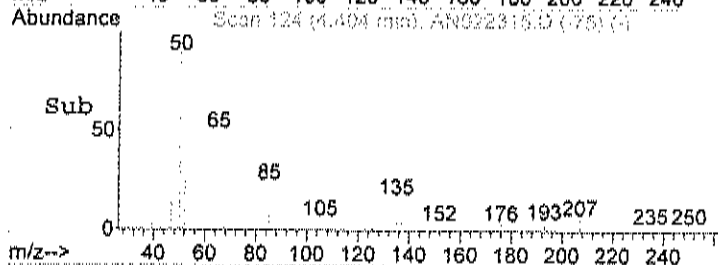
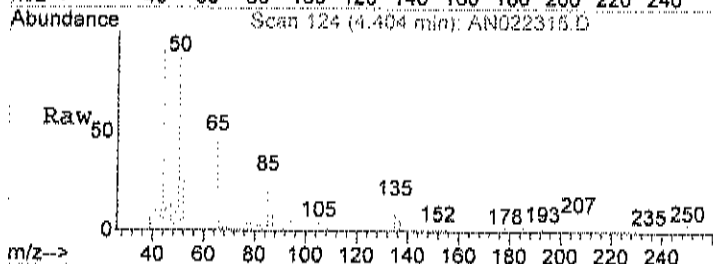
#3
Freon 12
Concen: 0.65 ppb
RT: 4.20 min Scan# 55
Delta R.T. -0.01 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

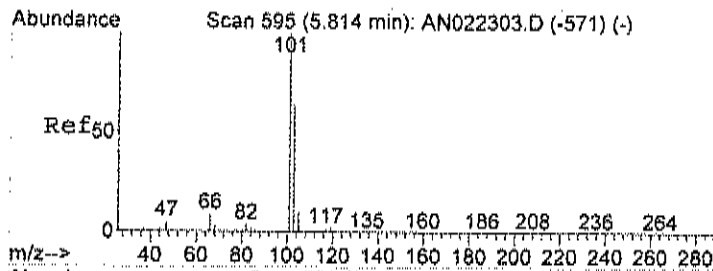
Tgt Ion: 85 Resp: 80881
Ion Ratio Lower Upper
85 100
87 32.2 12.5 52.5



#4
Chloromethane
Concen: 0.58 ppb
RT: 4.40 min Scan# 124
Delta R.T. -0.00 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

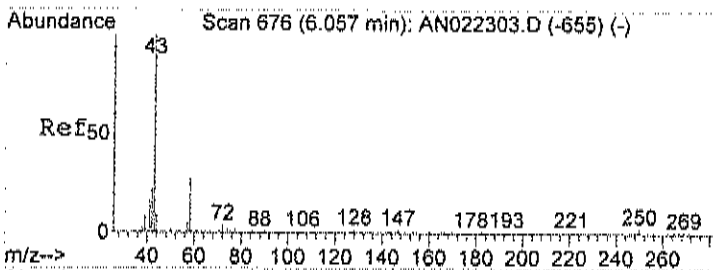
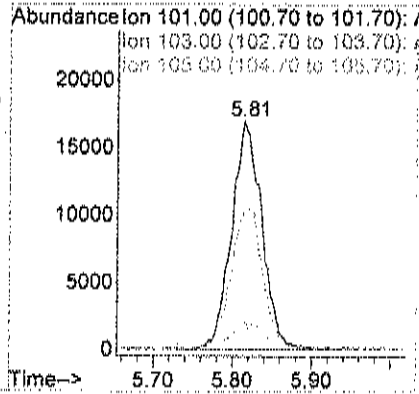
Tgt Ion: 50 Resp: 22024
Ion Ratio Lower Upper
50 100
52 26.2 9.2 49.2





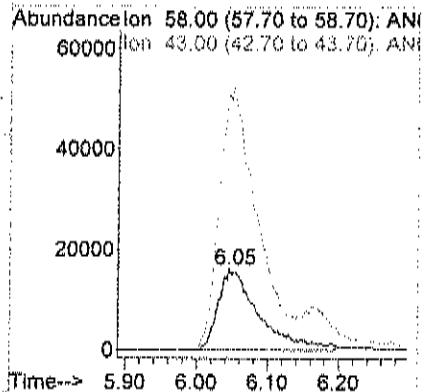
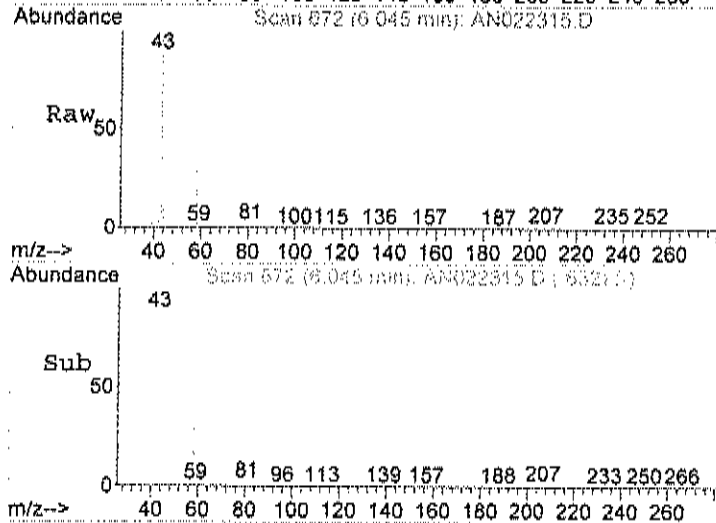
#14
Freon 11
Concen: 0.36 ppb
RT: 5.81 min Scan# 595
Delta R.T. -0.01 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

Tgt Ion:101 Resp: 45280
Ion Ratio Lower Upper
101 100
103 65.4 44.6 84.6
105 12.4 0.0 31.6

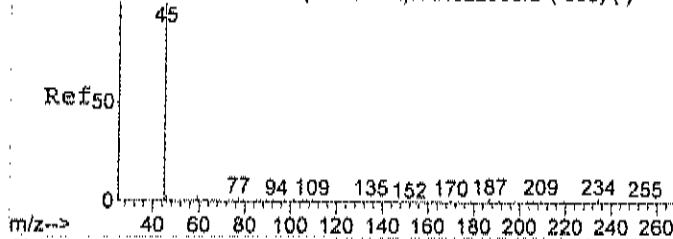


#15
Acetone
Concen: 5.30 ppb
RT: 6.05 min Scan# 672
Delta R.T. -0.03 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

Tgt Ion: 58 Resp: 64098
Ion Ratio Lower Upper
58 100
43 337.7 661.8 721.8#



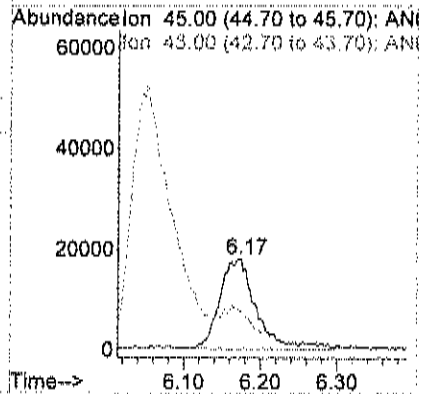
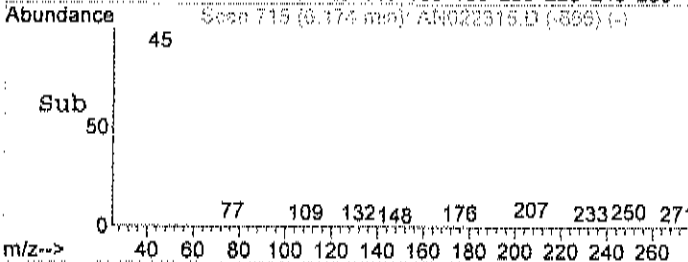
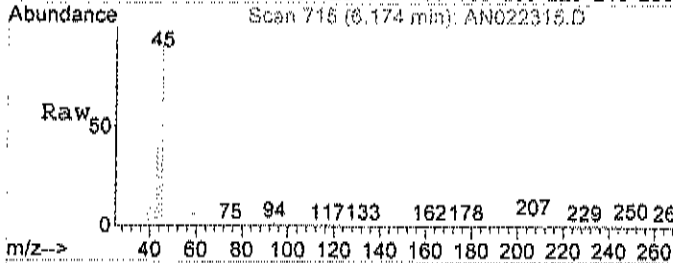
Abundance Scan 710 (6.159 min): AN022303.D (-690) (-)



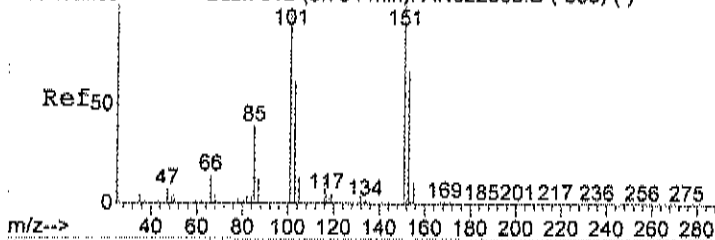
#17

Isopropyl alcohol
Concen: 1.71 ppb
RT: 6.17 min Scan# 715
Delta R.T. -0.00 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

Tgt Ion: 45 Resp: 59571
Ion Ratio Lower Upper
45 100
43 0.0 8.9 48.9#



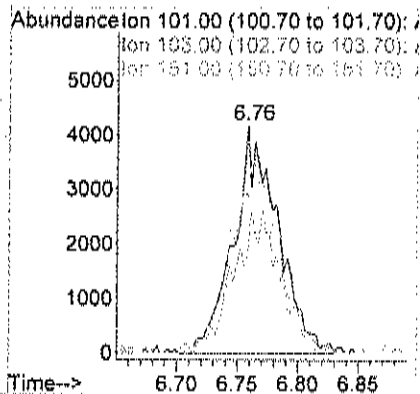
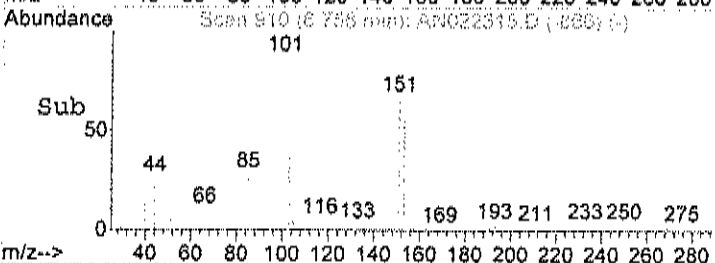
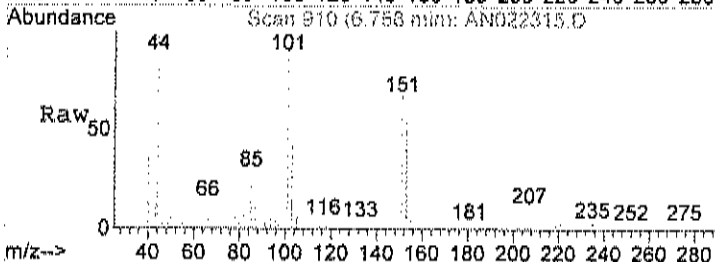
Abundance Scan 912 (6.764 min): AN022303.D (-885) (-)

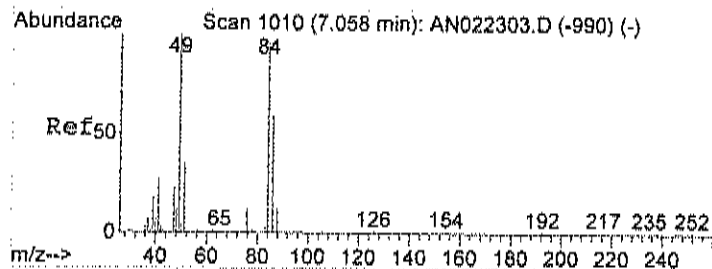


#19

Freon 113
Concen: 0.13 ppb
RT: 6.76 min Scan# 910
Delta R.T. -0.02 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

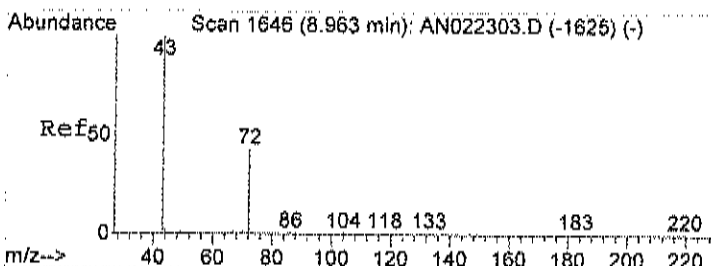
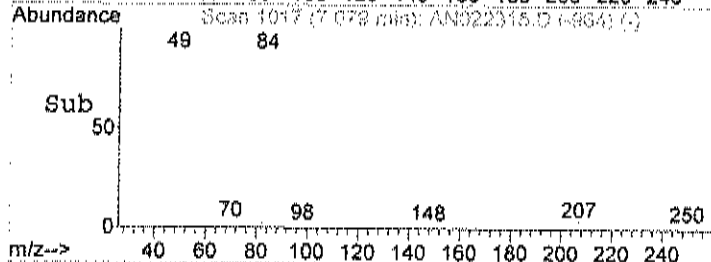
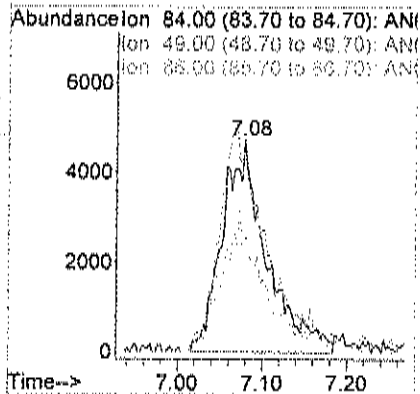
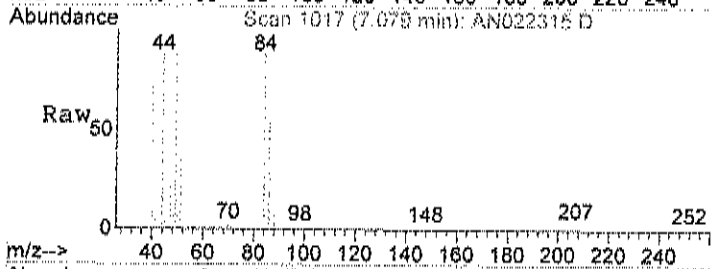
Tgt Ion: 101 Resp: 10591
Ion Ratio Lower Upper
101 100
103 66.6 42.5 82.5
151 90.6 70.9 110.9





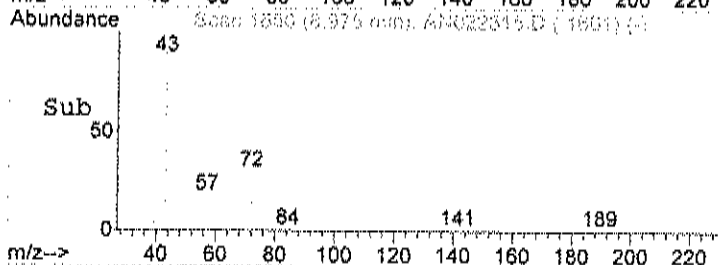
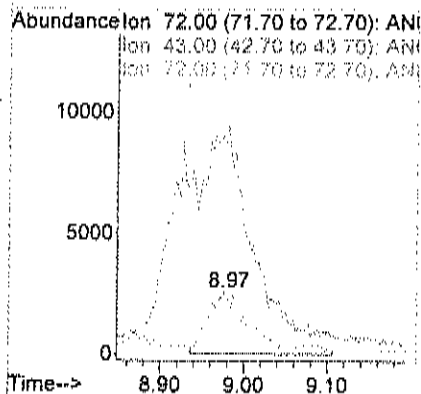
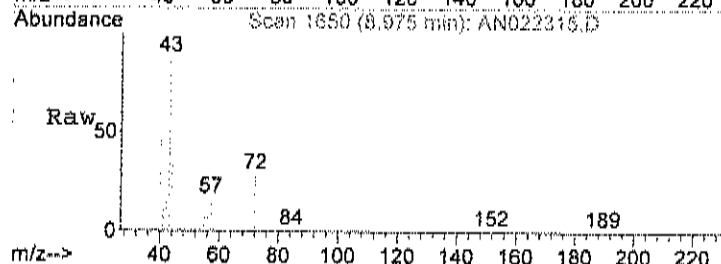
#21
Methylene chloride
Concen: 0.46 ppb
RT: 7.08 min Scan# 1017
Delta R.T. 0.01 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

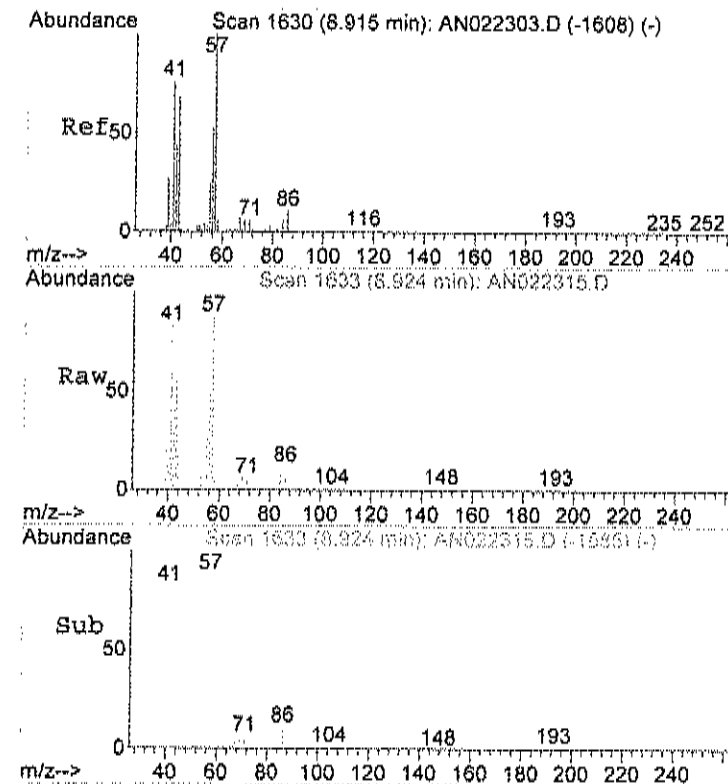
Tgt Ion:	84	Resp:	17251
Ion	Ratio	Lower	Upper
84	100		
49	112.4	87.8	127.8
86	63.7	43.1	83.1



#28
Methyl Ethyl Ketone
Concen: 0.51 ppb m
RT: 8.97 min Scan# 1650
Delta R.T. -0.00 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

Tgt Ion:	72	Resp:	9521
Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	125.3	80.0	120.0#





#30

Hexane

Concen: 0.55 ppb

RT: 8.92 min Scan# 1633

Delta R.T. -0.01 min

Lab File: AN022315.D

Acq: 23 Feb 2016 6:50 pm

Tgt Ion: 57 Resp: 34576

Ion Ratio Lower Upper

57 100

41 95.6 66.6 106.6

56 56.0 30.6 70.6

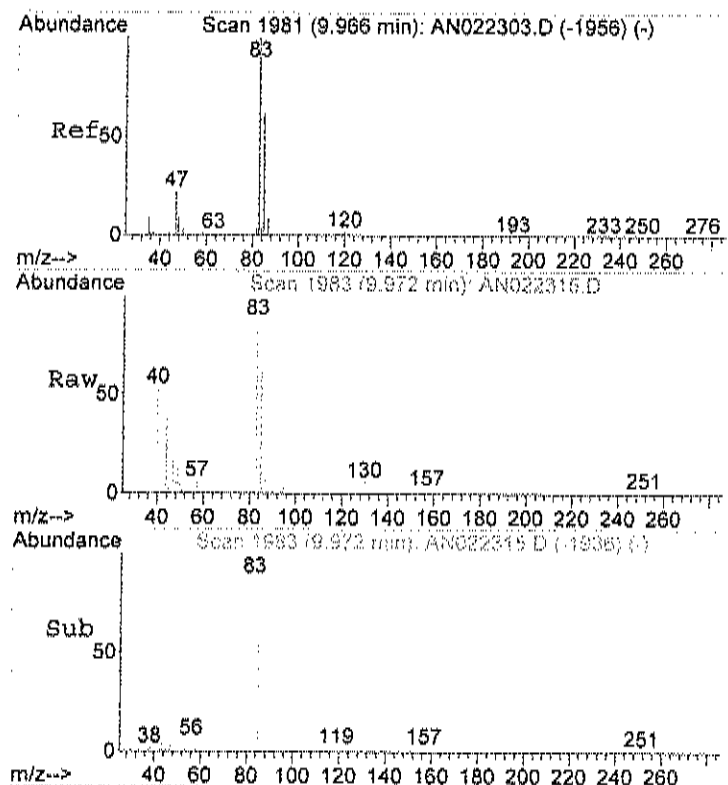
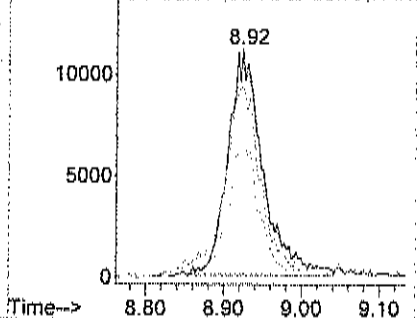
Abundance

Scan 57.00 (56.70 to 57.70): AN022315.D

15000

Ion 41.00 (40.70 to 41.70): AN022315.D

Ion 56.00 (55.70 to 56.70): AN022315.D



#32

Chloroform

Concen: 0.25 ppb

RT: 9.97 min Scan# 1983

Delta R.T. -0.01 min

Lab File: AN022315.D

Acq: 23 Feb 2016 6:50 pm

Tgt Ion: 83 Resp: 23268

Ion Ratio Lower Upper

83 100

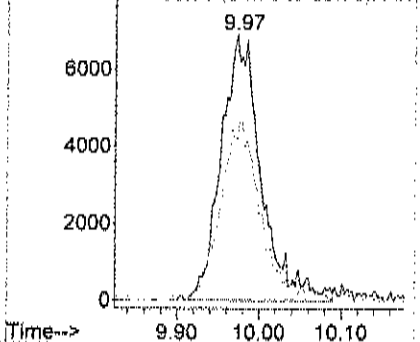
85 67.6 43.9 83.9

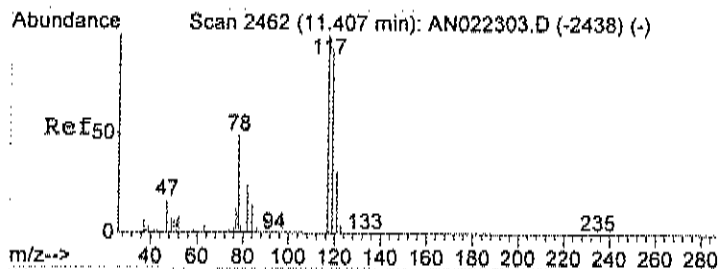
Abundance

Scan 83.00 (82.70 to 83.70): AN022315.D

8000

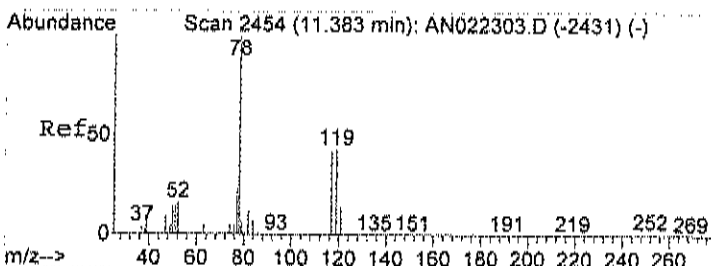
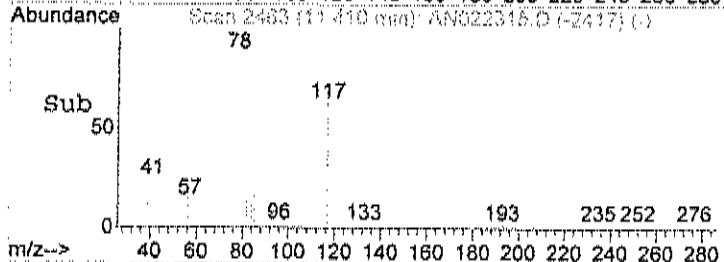
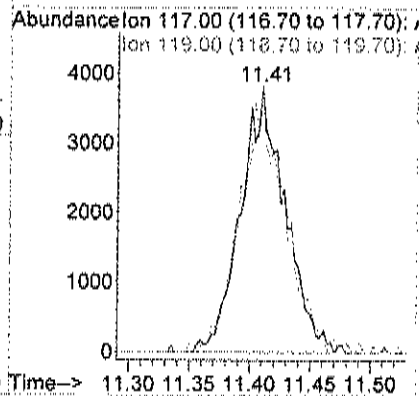
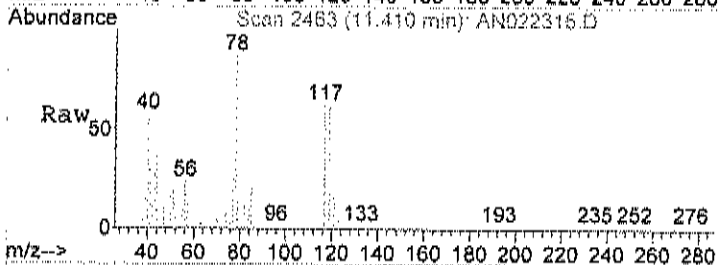
Ion 85.00 (84.70 to 85.70): AN022315.D





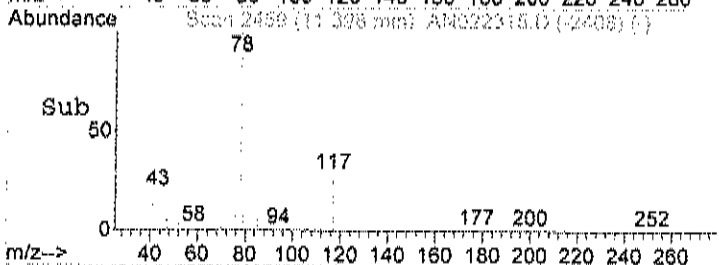
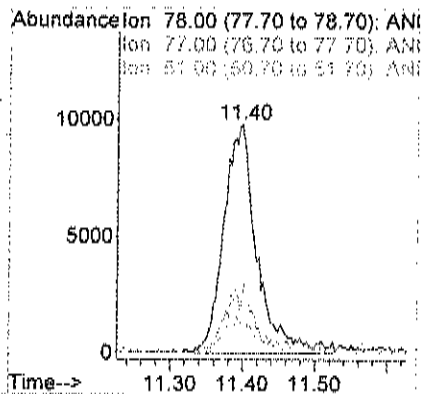
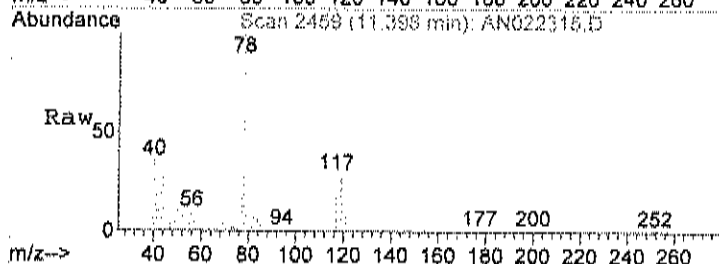
#38
Carbon tetrachloride
Concen: 0.14 ppb
RT: 11.41 min Scan# 2463
Delta R.T. -0.01 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

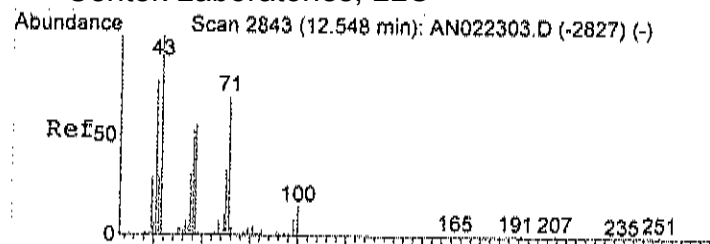
Tgt Ion: 117 Resp: 9740
Ion Ratio Lower Upper
117 100
119 97.8 74.5 114.5



#39
Benzene
Concen: 0.37 ppb
RT: 11.40 min Scan# 2459
Delta R.T. 0.00 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

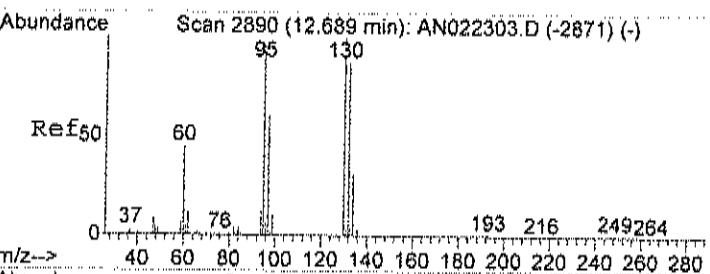
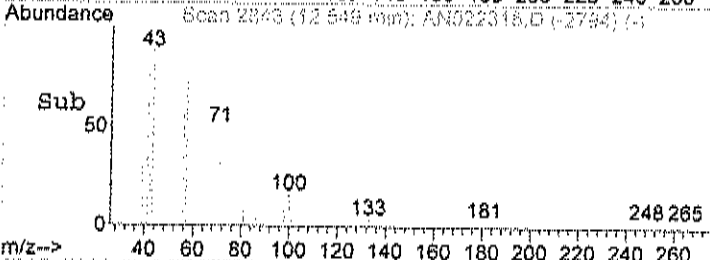
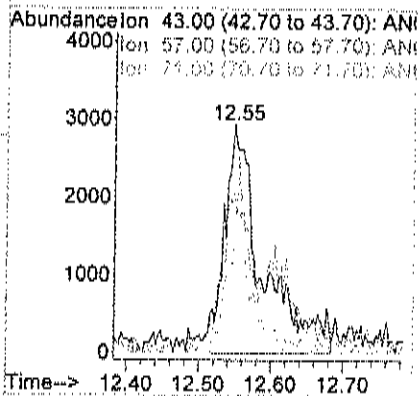
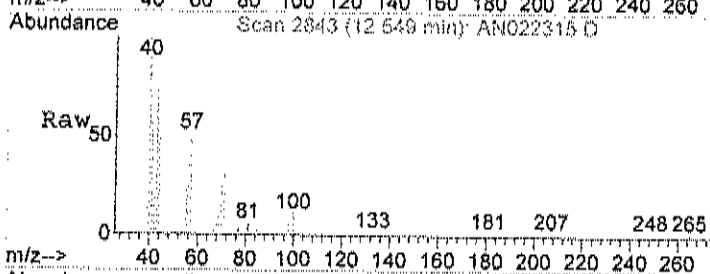
Tgt Ion: 78 Resp: 31365
Ion Ratio Lower Upper
78 100
77 30.5 6.0 46.0
51 15.5 2.1 42.1





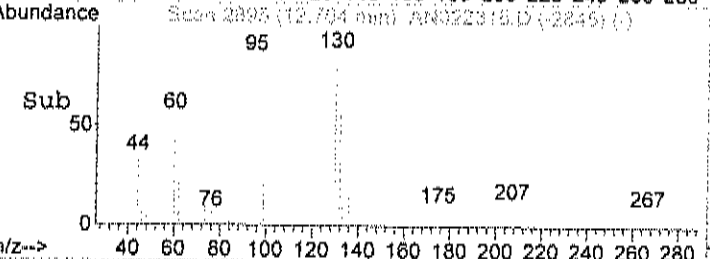
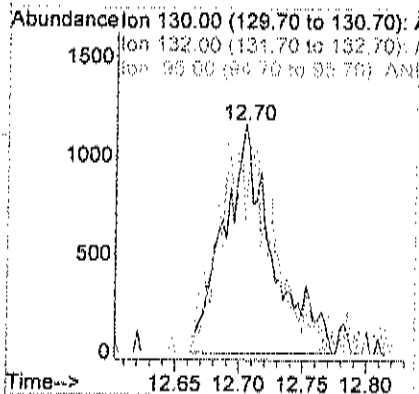
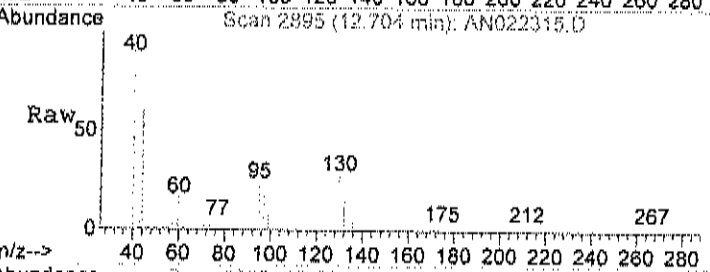
#43
Heptane
Concen: 0.23 ppb
RT: 12.55 min Scan# 2843
Delta R.T. -0.00 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

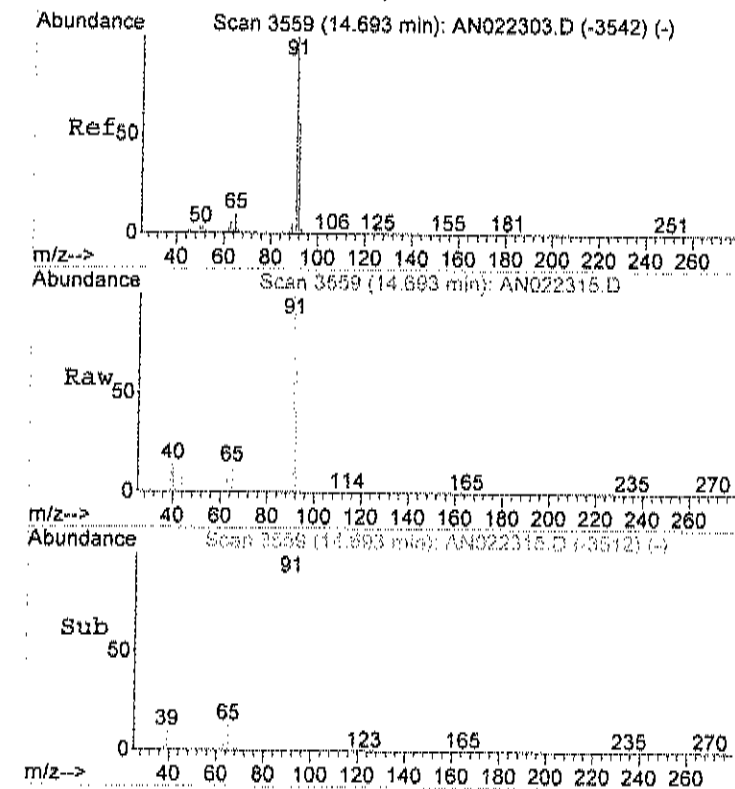
Tgt Ion:	43	Resp:	11105
Ion Ratio	Lower	Upper	
43	100		
57	87.2	31.3	71.3#
71	38.1	34.8	74.8



#44
Trichloroethene
Concen: 0.08 ppb
RT: 12.70 min Scan# 2895
Delta R.T. 0.00 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

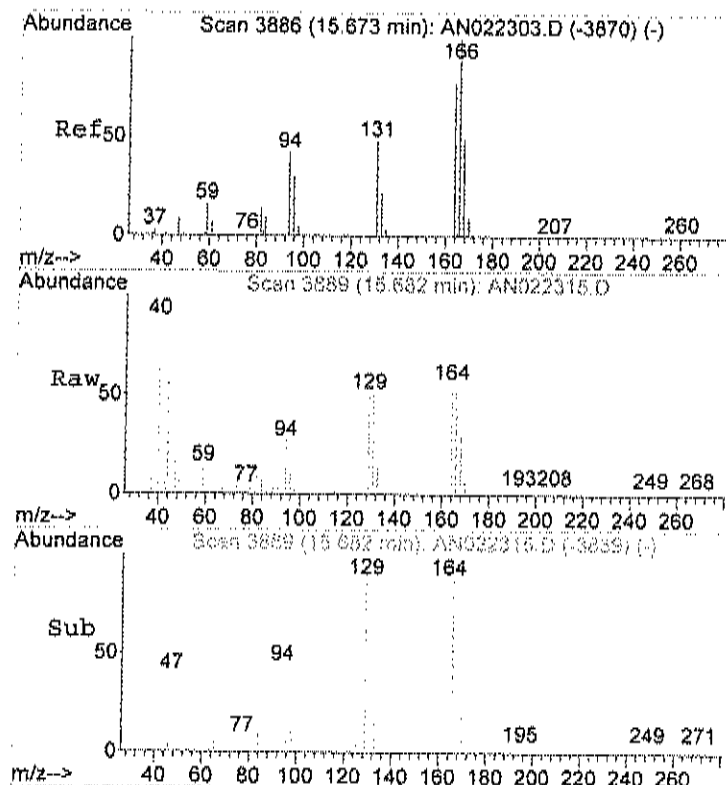
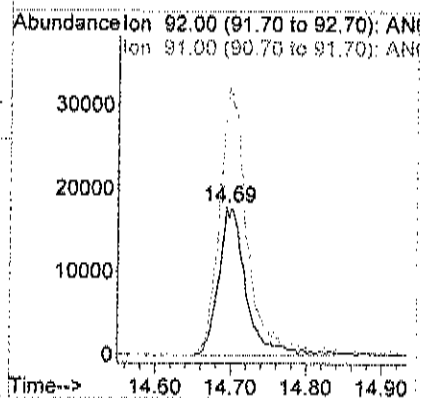
Tgt Ion:	130	Resp:	3052
Ion Ratio	Lower	Upper	
130	100		
132	98.8	76.1	116.1
95	105.9	85.0	125.0





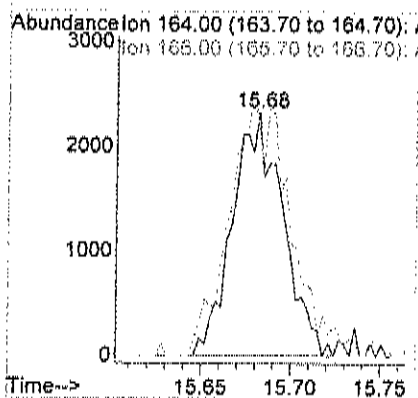
#51
Toluene
Concen: 0.80 ppb
RT: 14.69 min Scan# 3559
Delta R.T. -0.01 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

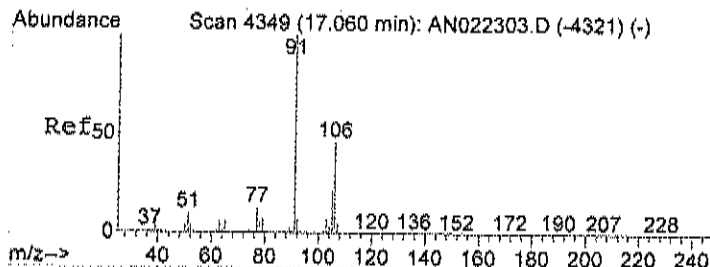
Tgt Ion: 92 Resp: 45643
Ion Ratio Lower Upper
92 100
91 181.7 152.5 192.5



#56
Tetrachloroethylene
Concen: 0.11 ppb
RT: 15.68 min Scan# 3889
Delta R.T. 0.00 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

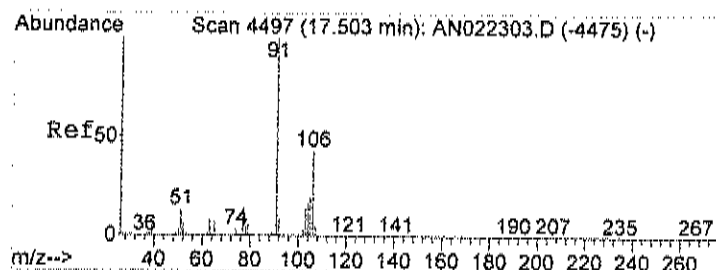
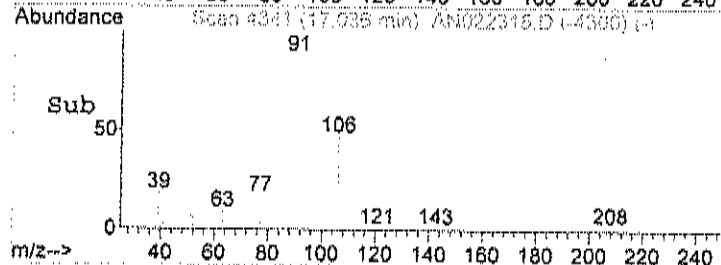
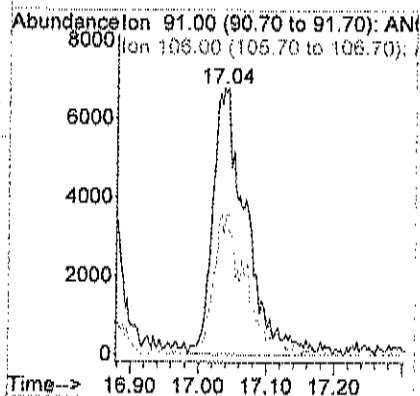
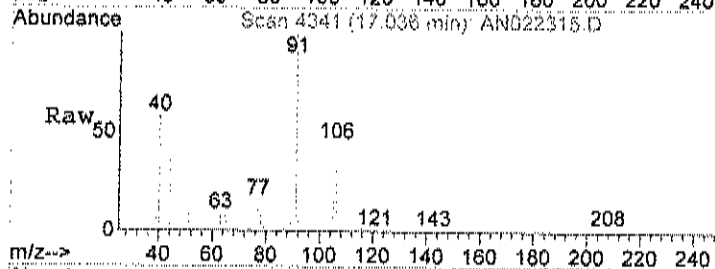
Tgt Ion: 164 Resp: 4547
Ion Ratio Lower Upper
164 100
166 126.0 108.6 148.6





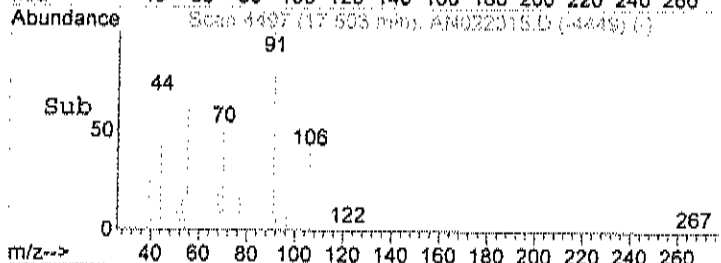
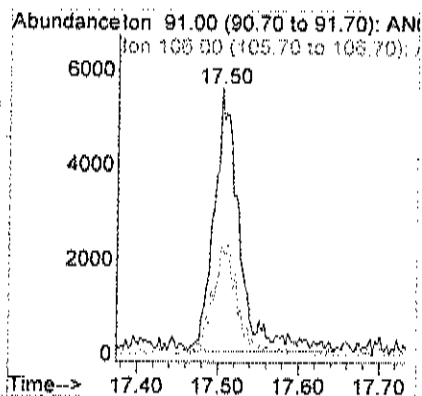
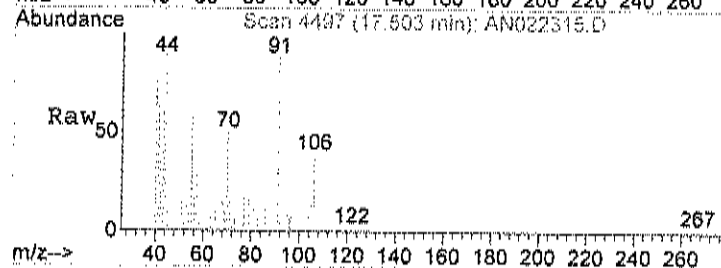
#60
m&p-xylene
Concen: 0.24 ppb
RT: 17.04 min Scan# 4341
Delta R.T. -0.03 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

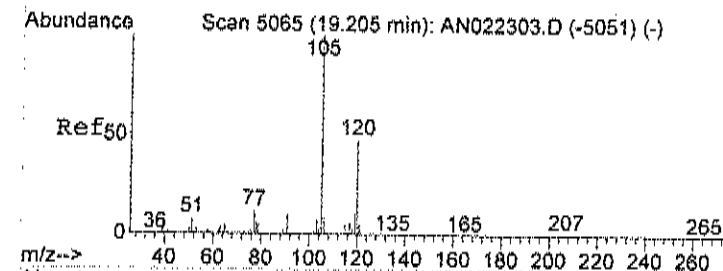
Tgt Ion: 91 Resp: 23405
Ion Ratio Lower Upper
91 100
106 49.6 25.3 65.3



#64
o-xylene
Concen: 0.11 ppb
RT: 17.50 min Scan# 4497
Delta R.T. -0.01 min
Lab File: AN022315.D
Acq: 23 Feb 2016 6:50 pm

Tgt Ion: 91 Resp: 12306
Ion Ratio Lower Upper
91 100
106 39.3 18.4 58.4





#72

1,2,4-trimethylbenzene

Concen: 0.11 ppb

RT: 19.21 min Scan# 5066

Delta R.T. -0.01 min

Lab File: AN022315.D

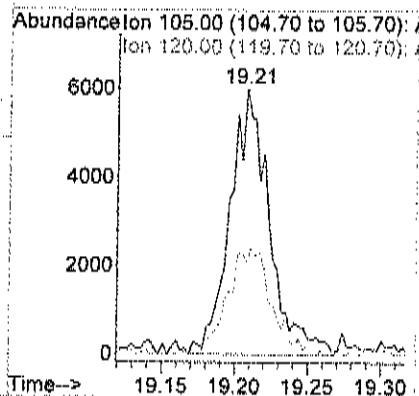
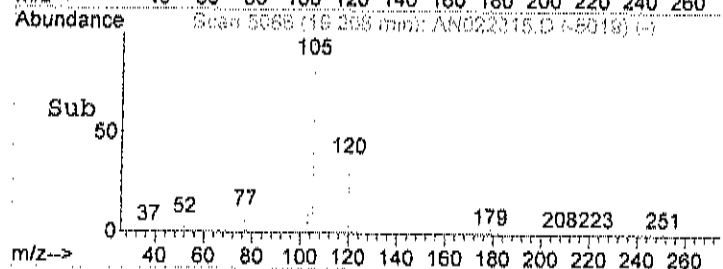
Acq: 23 Feb 2016 6:50 pm

Tgt Ion:105 Resp: 11181

Ion Ratio Lower Upper

105 100

120 45.1 22.1 62.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022326.D
Acq On : 24 Feb 2016 2:03 am
Sample : C1602050-005A 5x
Misc : A204_1UG

Vial: 26
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:56 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.84	128	25301	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.09	114	82709	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	79377	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	42508	0.79	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	79.00%

Target Compounds

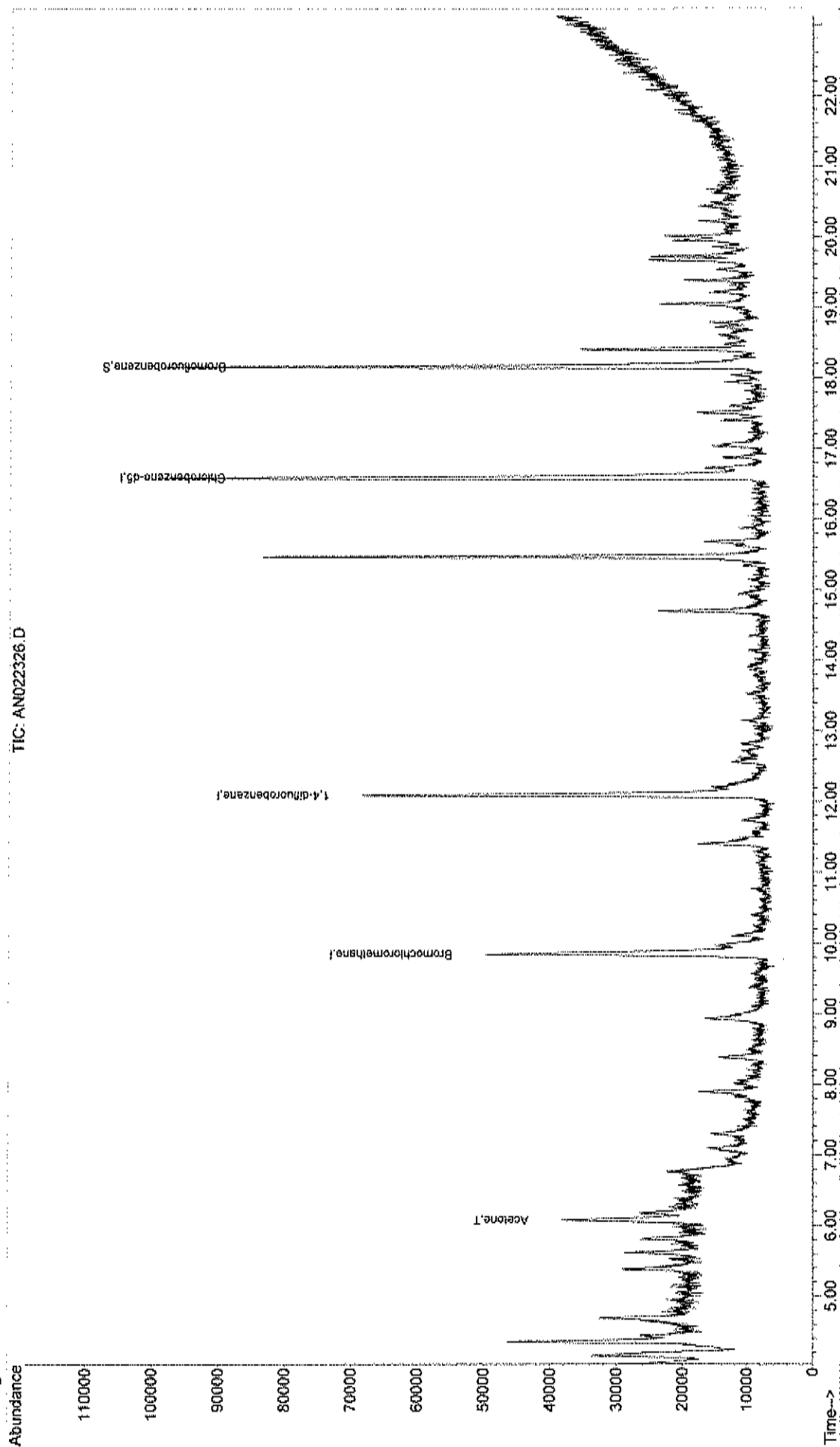
15) Acetone	6.07	58	12188	1.14	ppb	Qvalue # 1
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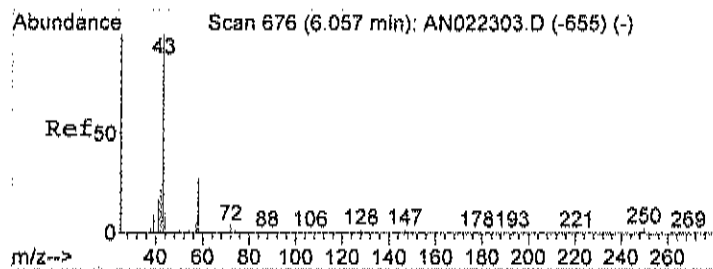
Data File : C:\HPCHEM\1\DATA\AN022326.D
Acq On : 24 Feb 2016 2:03 am
Sample : C1602050-005A 5x
Misc : A204_IUG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:19 2016

Vial: 26
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_IUG.RES

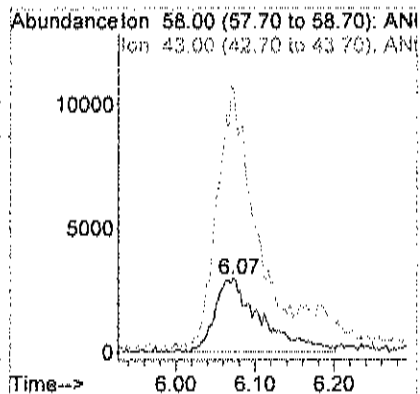
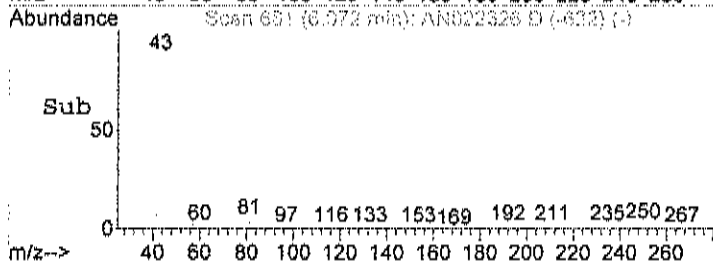
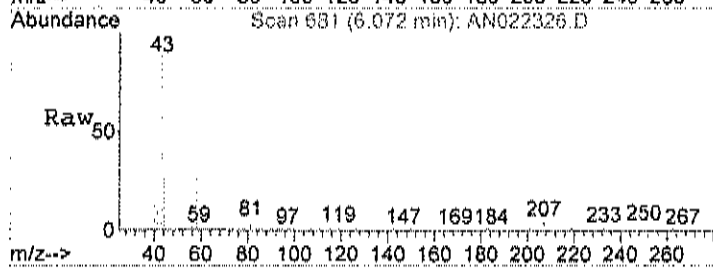
Method : C:\HPCHEM\1\METHODS\A204_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration





#15
Acetone
Concen: 1.14 ppb
RT: 6.07 min Scan# 681
Delta R.T. -0.00 min
Lab File: AN022326.D
Acq: 24 Feb 2016 2:03 am

Tgt Ion: 58 Resp: 12188
Ion Ratio Lower Upper
58 100
43 327.7 661.8 721.8#



Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-006A

Client Sample ID: Rm 107
 Tag Number: 190,349
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-5			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2,4-Trimethylbenzene	0.23	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/23/2016 11:30:00 PM
2,2,4-trimethylpentane	0.83	0.15		ppbV	1	2/23/2016 11:30:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Acetone	5.9	1.5		ppbV	5	2/24/2016 5:07:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Benzene	0.48	0.15		ppbV	1	2/23/2016 11:30:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Carbon tetrachloride	0.13	0.040		ppbV	1	2/23/2016 11:30:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Chloroform	0.47	0.15		ppbV	1	2/23/2016 11:30:00 PM
Chloromethane	0.69	0.15		ppbV	1	2/23/2016 11:30:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Cyclohexane	0.28	0.15		ppbV	1	2/23/2016 11:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/23/2016 11:30:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-006A

Client Sample ID: Rm 107
 Tag Number: 190,349
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Ethylbenzene	0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Freon 11	0.38	0.15		ppbV	1	2/23/2016 11:30:00 PM
Freon 113	0.13	0.15	J	ppbV	1	2/23/2016 11:30:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Freon 12	0.67	0.15		ppbV	1	2/23/2016 11:30:00 PM
Heptane	0.73	0.15		ppbV	1	2/23/2016 11:30:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Hexane	0.84	0.15		ppbV	1	2/23/2016 11:30:00 PM
Isopropyl alcohol	2.8	0.75		ppbV	5	2/24/2016 5:07:00 AM
m&p-Xylene	0.40	0.30		ppbV	1	2/23/2016 11:30:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 11:30:00 PM
Methyl Ethyl Ketone	0.64	0.30		ppbV	1	2/23/2016 11:30:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/23/2016 11:30:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Methylene chloride	0.49	0.15		ppbV	1	2/23/2016 11:30:00 PM
o-Xylene	0.17	0.15		ppbV	1	2/23/2016 11:30:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Toluene	1.2	0.15		ppbV	1	2/23/2016 11:30:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Trichloroethene	0.15	0.040		ppbV	1	2/23/2016 11:30:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/23/2016 11:30:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/23/2016 11:30:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	2/23/2016 11:30:00 PM

Qualifiers: ** Reporting Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits
 JN Non-routine analyte, Quantitation estimated. ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-006A

Client Sample ID: Rm 107
 Tag Number: 190,349
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 11:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/23/2016 11:30:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 11:30:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 11:30:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/23/2016 11:30:00 PM
1,2,4-Trimethylbenzene	1.1	0.74		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/23/2016 11:30:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/23/2016 11:30:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/23/2016 11:30:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/23/2016 11:30:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/23/2016 11:30:00 PM
2,2,4-trimethylpentane	3.9	0.70		ug/m3	1	2/23/2016 11:30:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/23/2016 11:30:00 PM
Acetone	14	3.6		ug/m3	5	2/24/2016 5:07:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/23/2016 11:30:00 PM
Benzene	1.5	0.48		ug/m3	1	2/23/2016 11:30:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/23/2016 11:30:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/23/2016 11:30:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/23/2016 11:30:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/23/2016 11:30:00 PM
Carbon tetrachloride	0.82	0.25		ug/m3	1	2/23/2016 11:30:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/23/2016 11:30:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/23/2016 11:30:00 PM
Chloroform	2.3	0.73		ug/m3	1	2/23/2016 11:30:00 PM
Chloromethane	1.4	0.31		ug/m3	1	2/23/2016 11:30:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 11:30:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 11:30:00 PM
Cyclohexane	0.96	0.52		ug/m3	1	2/23/2016 11:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/23/2016 11:30:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/23/2016 11:30:00 PM
Ethylbenzene	0.65	0.65		ug/m3	1	2/23/2016 11:30:00 PM
Freon 11	2.1	0.84		ug/m3	1	2/23/2016 11:30:00 PM
Freon 113	1.0	1.1	J	ug/m3	1	2/23/2016 11:30:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	IN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-006A

Client Sample ID: Rm 107
 Tag Number: 190,349
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	3.3	0.74		ug/m3	1	2/23/2016 11:30:00 PM
Heptane	3.0	0.61		ug/m3	1	2/23/2016 11:30:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/23/2016 11:30:00 PM
Hexane	3.0	0.53		ug/m3	1	2/23/2016 11:30:00 PM
Isopropyl alcohol	6.8	1.8		ug/m3	5	2/24/2016 5:07:00 AM
m&p-Xylene	1.7	1.3		ug/m3	1	2/23/2016 11:30:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 11:30:00 PM
Methyl Ethyl Ketone	1.9	0.88		ug/m3	1	2/23/2016 11:30:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/23/2016 11:30:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/23/2016 11:30:00 PM
Methylene chloride	1.7	0.52		ug/m3	1	2/23/2016 11:30:00 PM
o-Xylene	0.74	0.65		ug/m3	1	2/23/2016 11:30:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/23/2016 11:30:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/23/2016 11:30:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/23/2016 11:30:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/23/2016 11:30:00 PM
Toluene	4.7	0.57		ug/m3	1	2/23/2016 11:30:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/23/2016 11:30:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/23/2016 11:30:00 PM
Trichloroethene	0.81	0.21		ug/m3	1	2/23/2016 11:30:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/23/2016 11:30:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/23/2016 11:30:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/23/2016 11:30:00 PM

Qualifiers: ** Reporting Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022322.D
 Acq On : 23 Feb 2016 11:30 pm
 Sample : C1602050-006A
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 24 08:36:52 2016

Vial: 22
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 11 11:13:02 2016
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	28013	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.08	114	101801	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	83077	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	54612	0.97	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	97.00%

Target Compounds

						Qvalue
3) Freon 12	4.19	85	81876	0.67	ppb	99
4) Chloromethane	4.39	50	25460	0.69	ppb	99
14) Freon 11	5.81	101	46136	0.38	ppb	99
15) Acetone	6.04	58	73307	6.19	ppb	# 1
17) Isopropyl alcohol	6.15	45	96390	2.82	ppb	# 46
19) Freon 113	6.76	101	10436	0.13	ppb	92
21) Methylene chloride	7.06	84	18133	0.49	ppb	93
28) Methyl Ethyl Ketone	8.97	72	11712m	0.64	ppb	
29) cis-1,2-dichloroethene	9.36	61	4259	0.08	ppb	88
30) Hexane	8.91	57	51614	0.84	ppb	91
32) Chloroform	9.97	83	42795	0.47	ppb	95
37) Cyclohexane	11.46	56	13338m	0.28	ppb	
38) Carbon tetrachloride	11.41	117	9115	0.13	ppb	97
39) Benzene	11.39	78	43453	0.48	ppb	94
42) 2,2,4-trimethylpentane	12.20	57	138064	0.83	ppb	88
43) Heptane	12.54	43	37181	0.73	ppb	89
44) Trichloroethene	12.70	130	6125	0.15	ppb	98
51) Toluene	14.69	92	69635	1.25	ppb	97
59) Ethylbenzene	16.87	91	18427	0.15	ppb	99
60) m&p-xylene	17.03	91	37231	0.40	ppb	95
64) o-xylene	17.50	91	18178	0.17	ppb	88
72) 1,2,4-trimethylbenzene	19.21	105	23613	0.23	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN022322.D A204_1UG.M Thu Mar 03 11:01:01 2016 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022322.D
Acq On : 23 Feb 2016 11:30 pm
Sample : C1602050-006A
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:11 2016

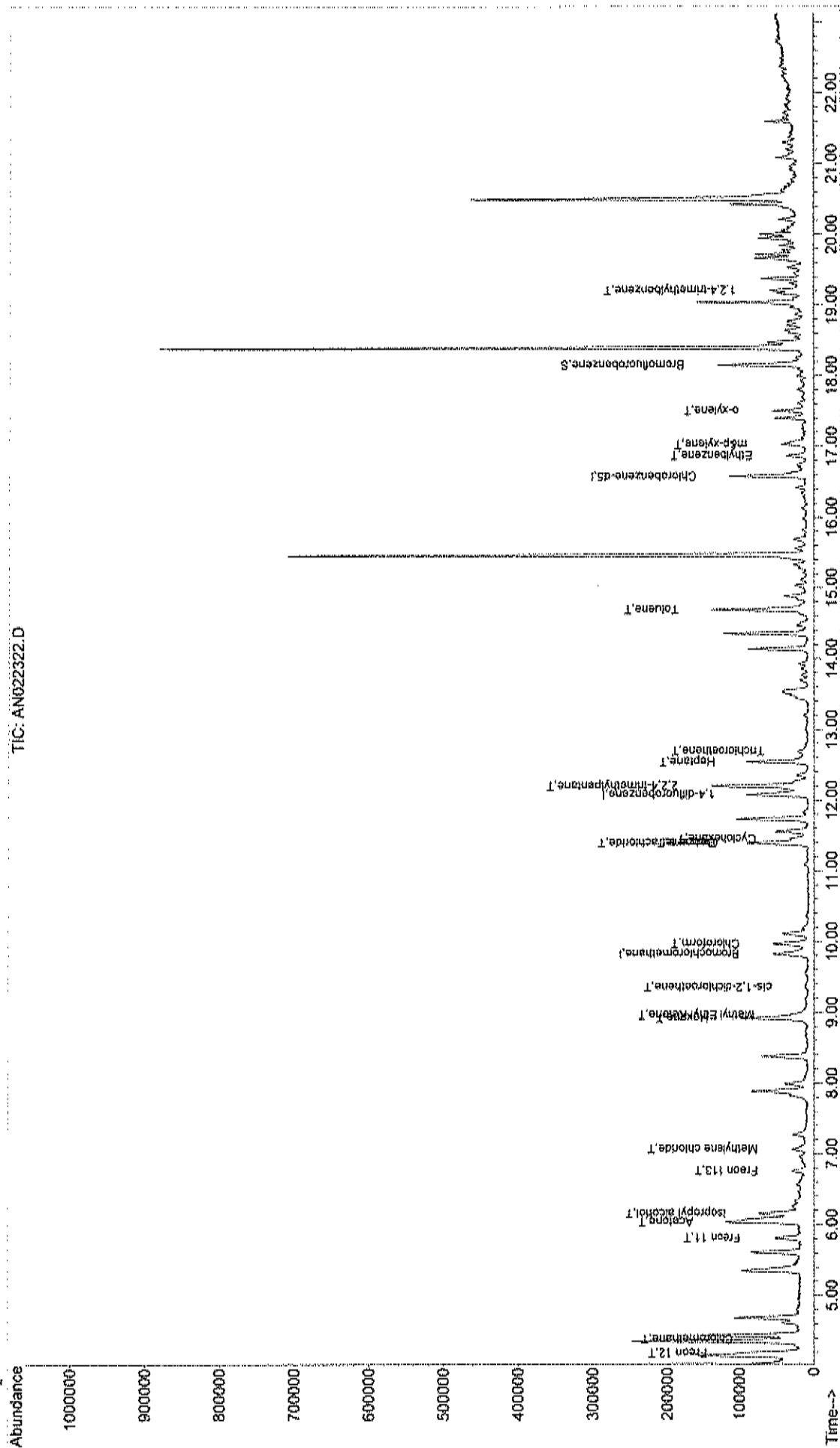
Vial: 22
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204 IUG.RES

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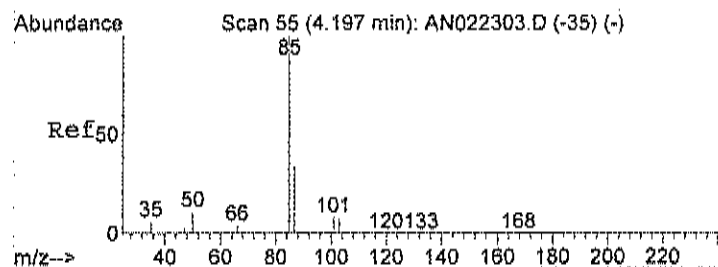
Method      : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration

```



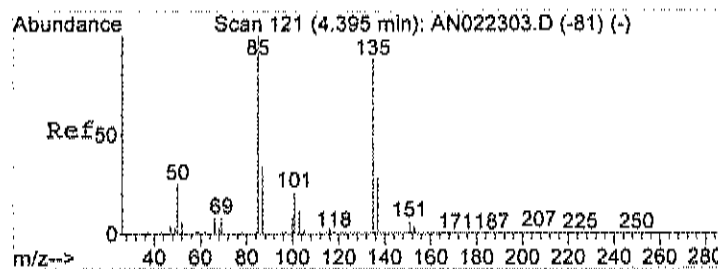
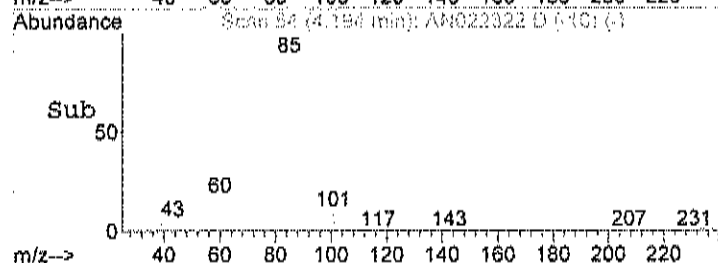
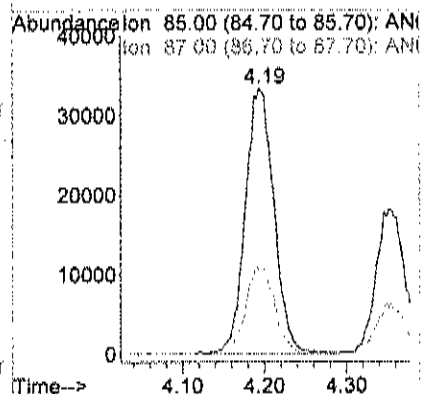
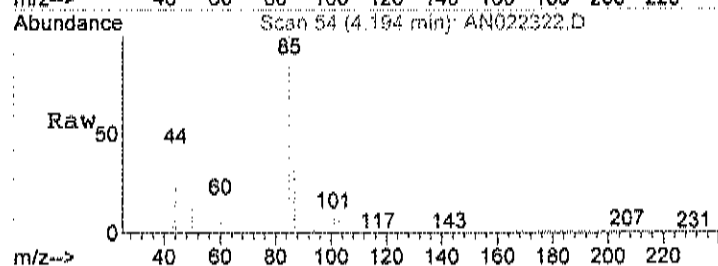
AN022322.D A204 1UG.M Thu Mar 03 11:01:02 2016

MSD1



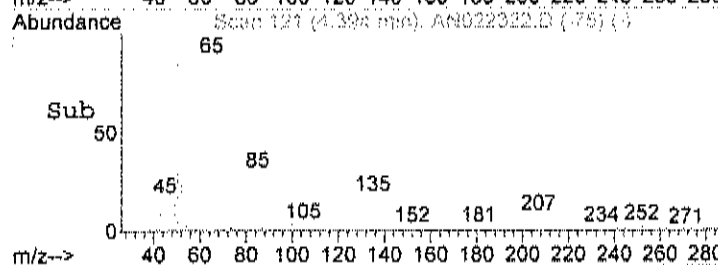
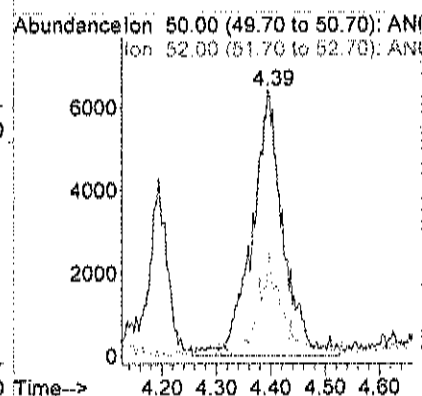
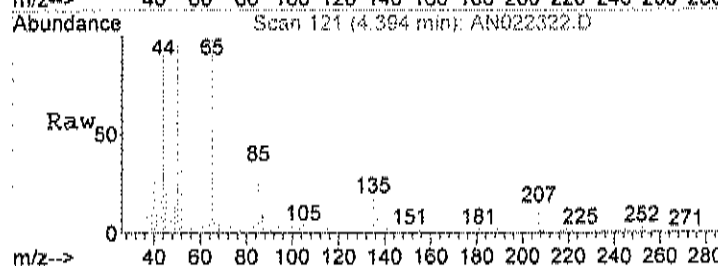
#3
Freon 12
Concen: 0.67 ppb
RT: 4.19 min Scan# 54
Delta R.T. -0.02 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

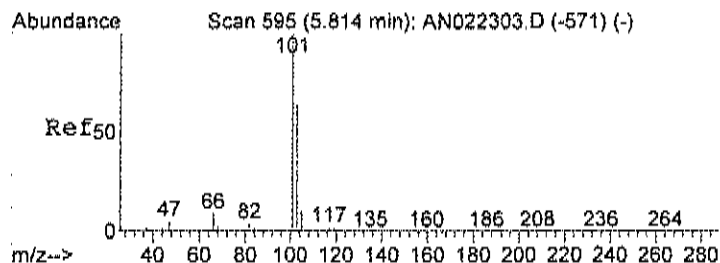
Tgt Ion:	85	Resp:	81876
Ion	Ratio	Lower	Upper
85	100		
87	32.9	12.5	52.5



#4
Chloromethane
Concen: 0.69 ppb
RT: 4.39 min Scan# 121
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

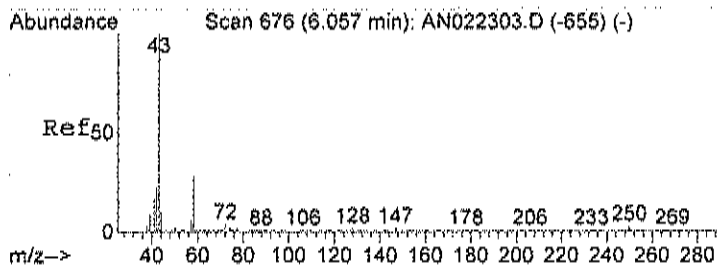
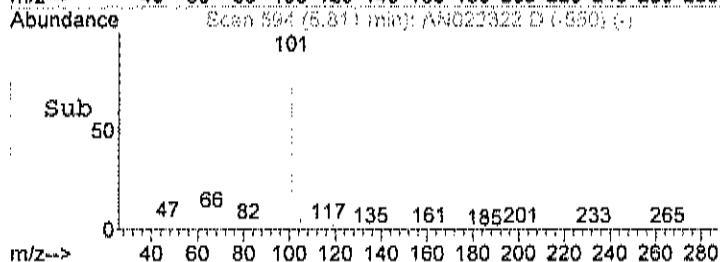
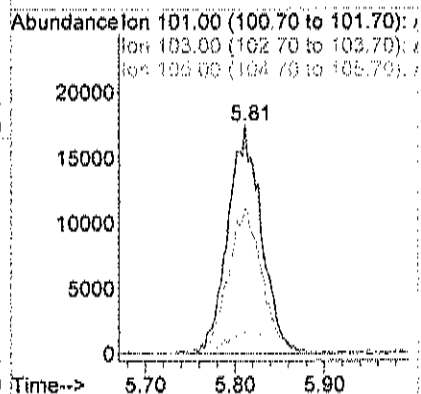
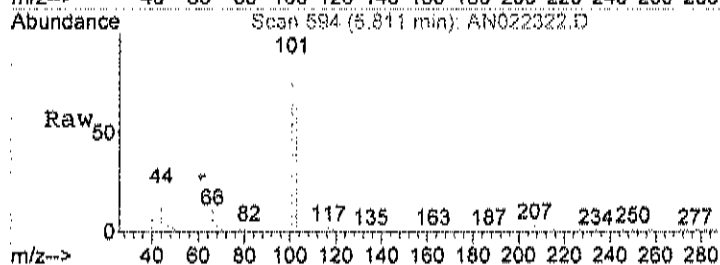
Tgt Ion:	50	Resp:	25460
Ion	Ratio	Lower	Upper
50	100		
52	29.9	9.2	49.2





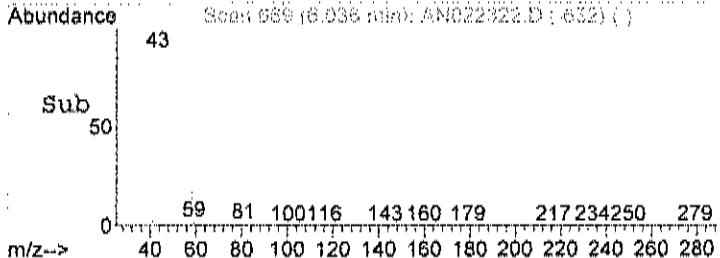
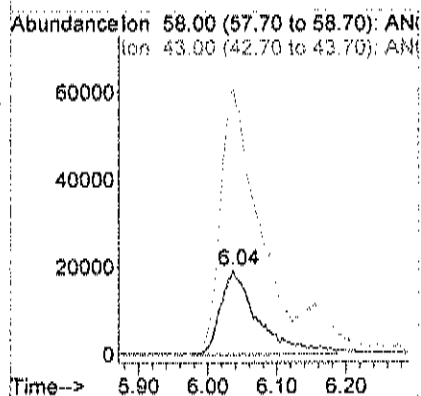
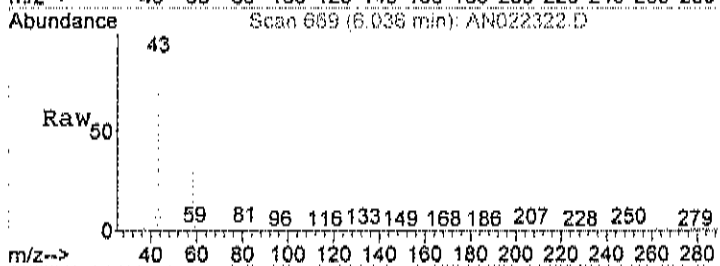
#14
Freon 11
Concen: 0.38 ppb
RT: 5.81 min Scan# 594
Delta R.T. -0.02 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.1	44.6	84.6
105	12.8	0.0	31.6

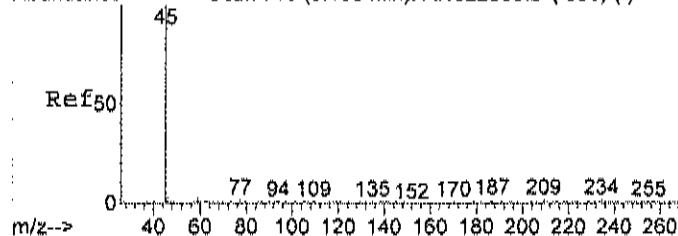


#15
Acetone
Concen: 6.19 ppb
RT: 6.04 min Scan# 669
Delta R.T. -0.04 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

Tgt Ion	Ratio	Lower	Upper
58	100		
43	348.1	661.8	721.8#



Abundance Scan 710 (6.159 min): AN022303.D (-690) (-)



#17

Isopropyl alcohol

Concen: 2.82 ppb

RT: 6.15 min Scan# 708

Delta R.T. -0.02 min

Lab File: AN022322.D

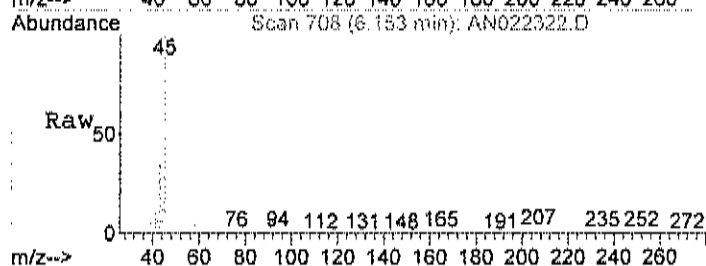
Acq: 23 Feb 2016 11:30 pm

Tgt Ion: 45 Resp: 96390

Ion Ratio Lower Upper

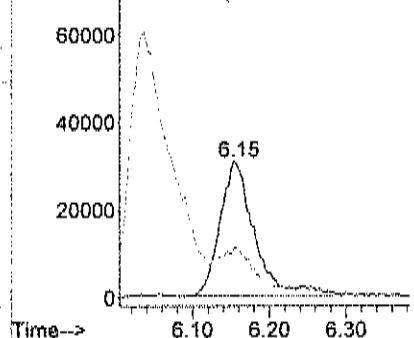
45 100

43 0.0 8.9 48.9#

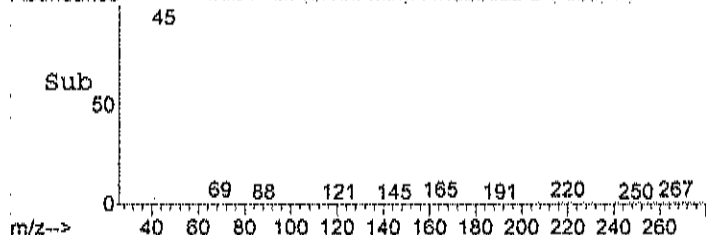


Abundance Ion 45.00 (44.70 to 45.70): AN

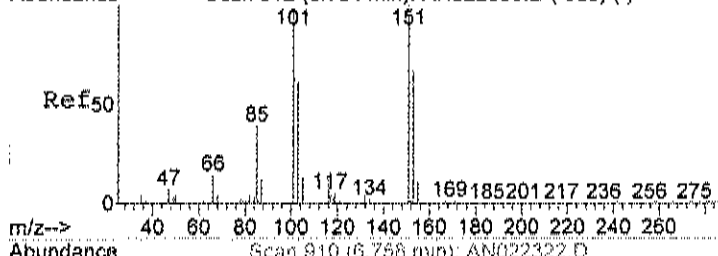
Ion 43.00 (42.70 to 43.70): AN



Abundance Scan 708 (6.153 min): AN022322.D (-690) (-)



Abundance Scan 912 (6.764 min): AN022303.D (-885) (-)



#19

Freon 113

Concen: 0.13 ppb

RT: 6.76 min Scan# 910

Delta R.T. -0.02 min

Lab File: AN022322.D

Acq: 23 Feb 2016 11:30 pm

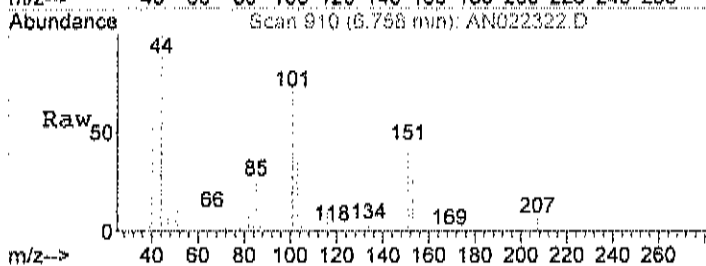
Tgt Ion: 101 Resp: 10436

Ion Ratio Lower Upper

101 100

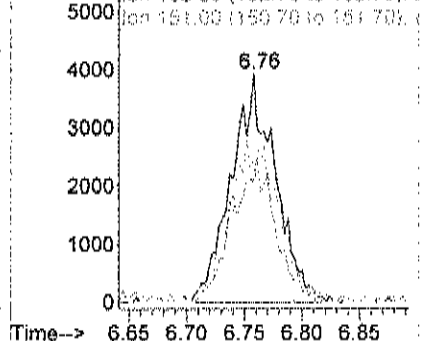
103 62.6 42.5 82.5

151 77.6 70.9 110.9

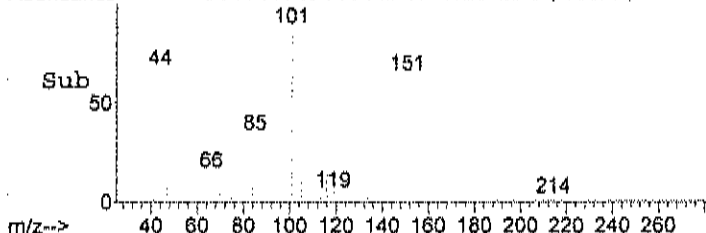


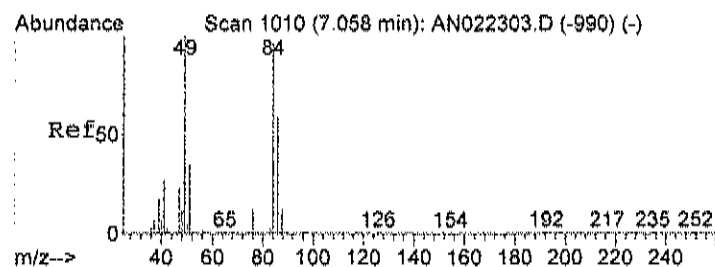
Abundance Ion 101.00 (100.70 to 101.70): AN

Ion 103.00 (102.70 to 103.70): AN



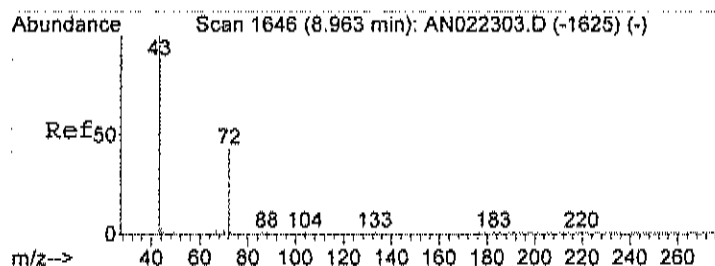
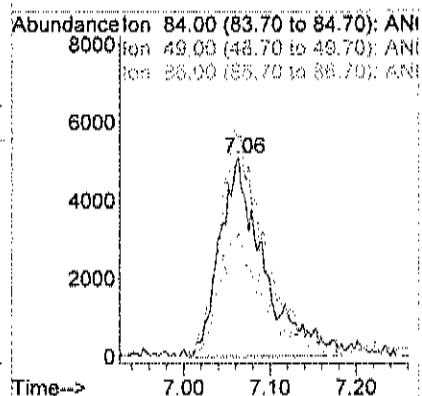
Abundance Scan 910 (6.758 min): AN022322.D (-885) (-)





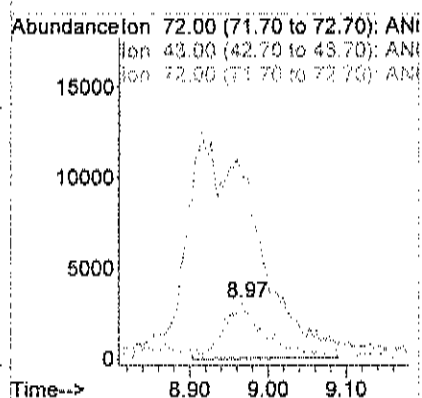
#21
Methylene chloride
Concen: 0.49 ppb
RT: 7.06 min Scan# 1012
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

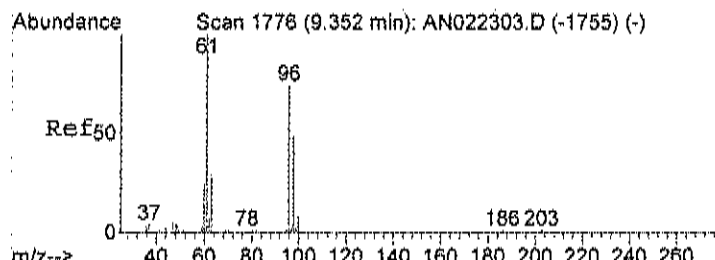
Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.0	87.8	127.8
86	63.9	43.1	83.1



#28
Methyl Ethyl Ketone
Concen: 0.64 ppb m
RT: 8.97 min Scan# 1647
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

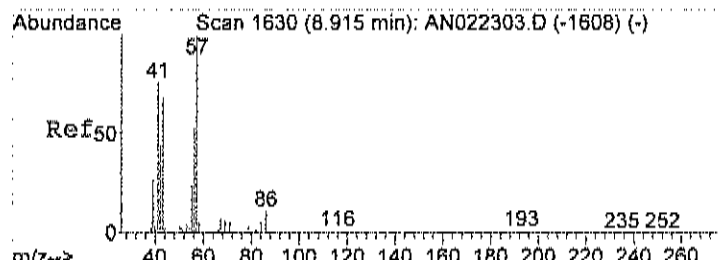
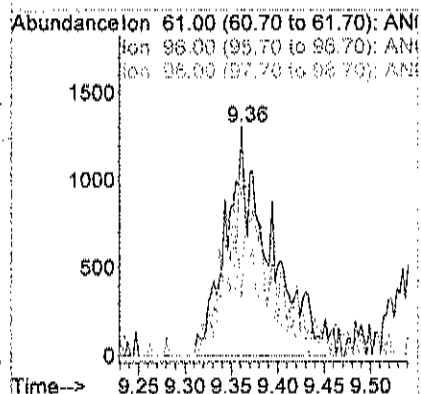
Tgt Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	109.8	80.0	120.0





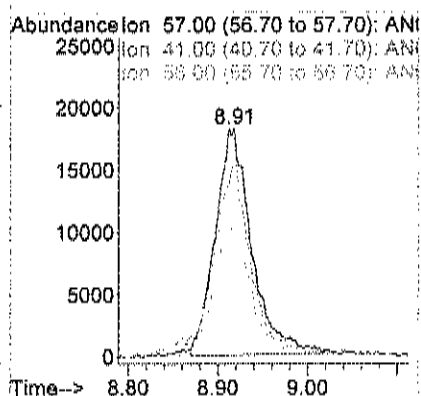
#29
cis-1,2-dichloroethene
Concen: 0.08 ppb
RT: 9.36 min Scan# 1779
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

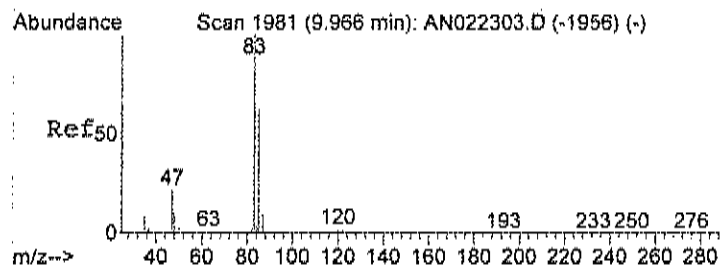
Tgt Ion	Ratio	Lower	Upper
61	100		
96	82.4	51.2	91.2
98	49.2	23.7	63.7



#30
Hexane
Concen: 0.84 ppb
RT: 8.91 min Scan# 1629
Delta R.T. -0.02 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

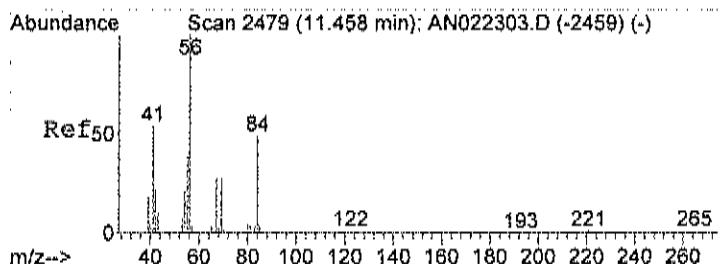
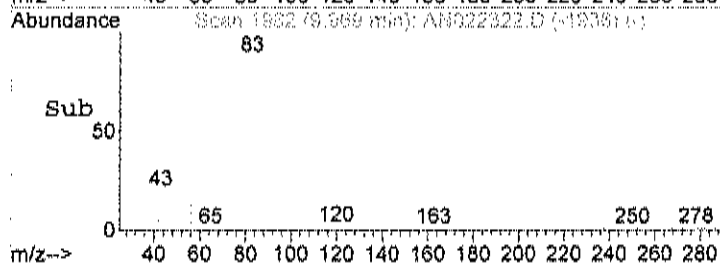
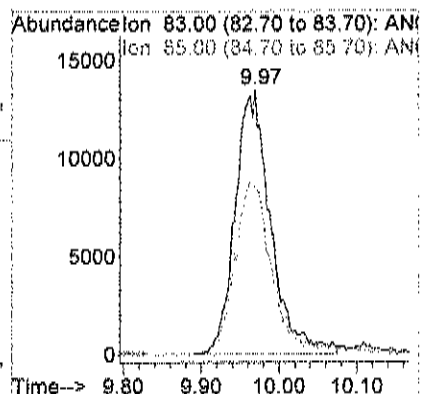
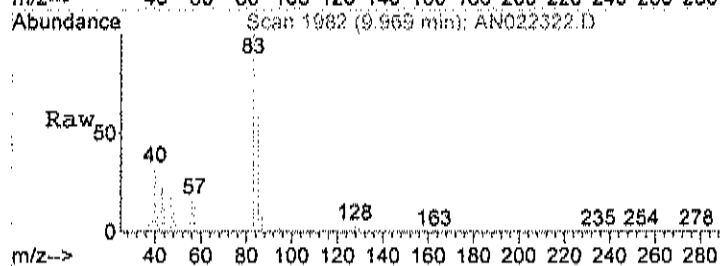
Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.1	66.6	106.6
56	60.0	30.6	70.6





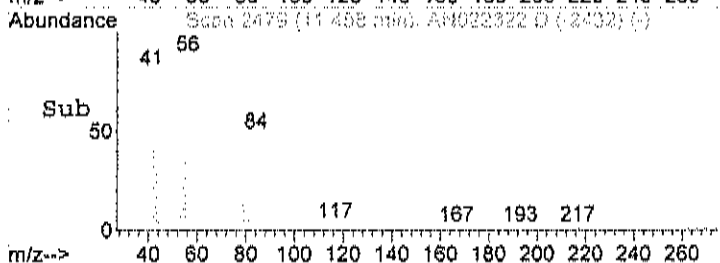
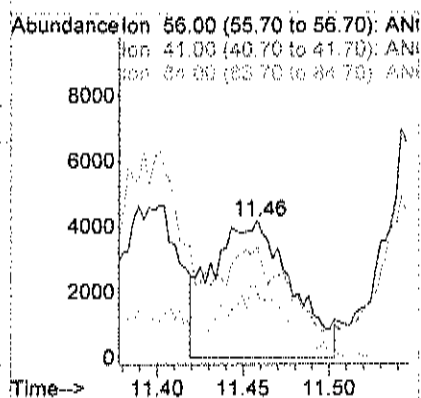
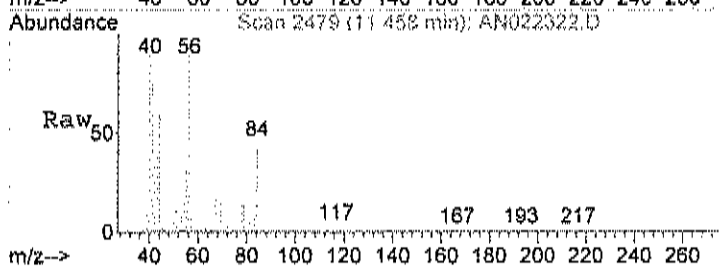
#32
Chloroform
Concen: 0.47 ppb
RT: 9.97 min Scan# 1982
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

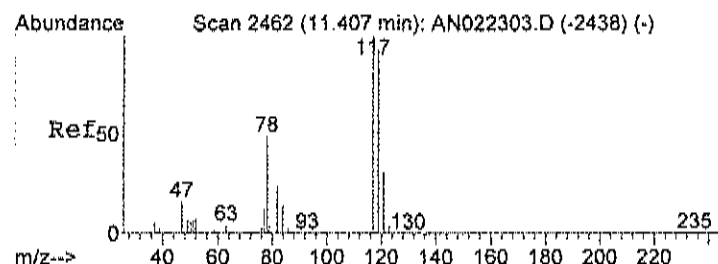
Tgt Ion: 83 Resp: 42795
Ion Ratio Lower Upper
83 100
85 68.1 43.9 83.9



#37
Cyclohexane
Concen: 0.28 ppb m
RT: 11.46 min Scan# 2479
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

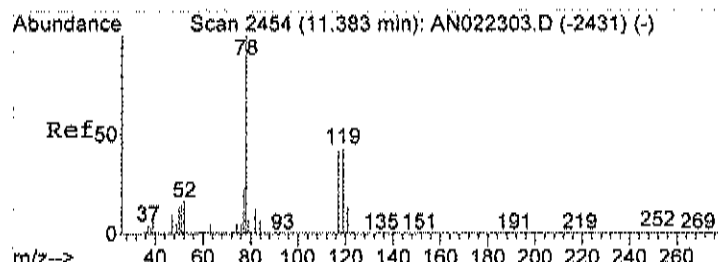
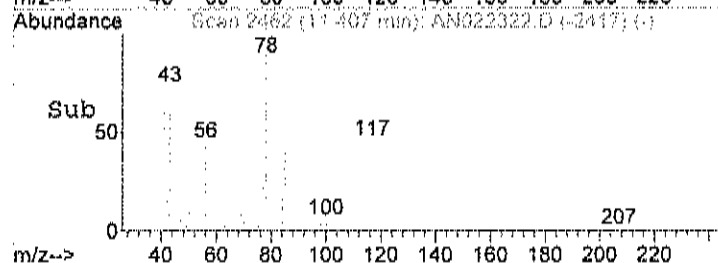
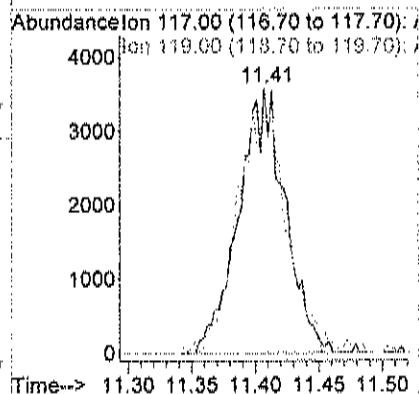
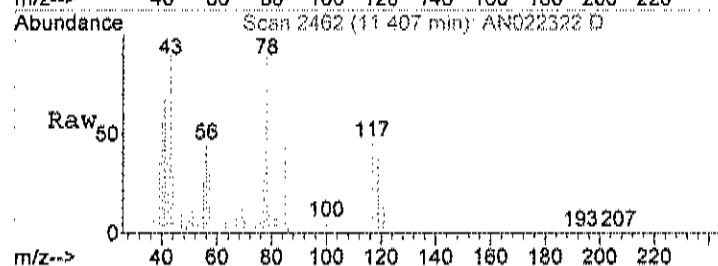
Tgt Ion: 56 Resp: 13338
Ion Ratio Lower Upper
56 100
41 318.2 47.3 87.3#
84 0.0 88.1 128.1#





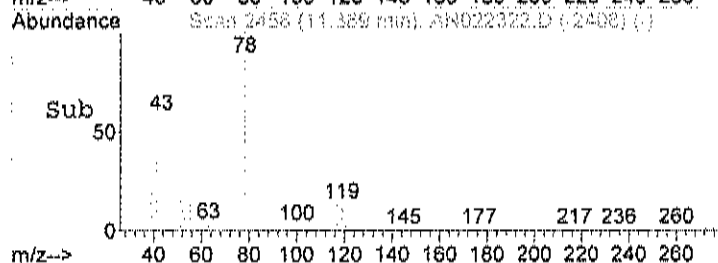
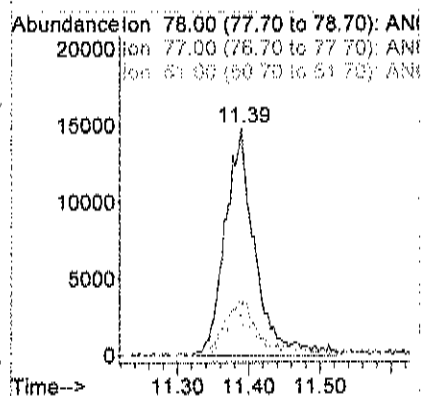
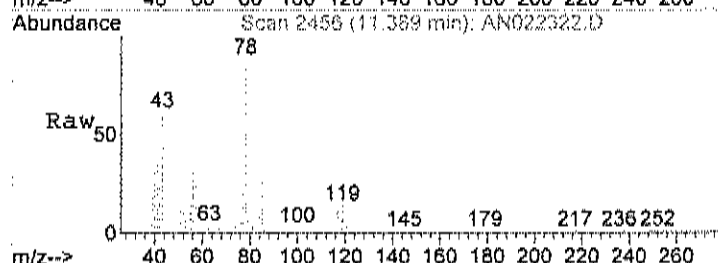
#38
Carbon tetrachloride
Concen: 0.13 ppb
RT: 11.41 min Scan# 2462
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

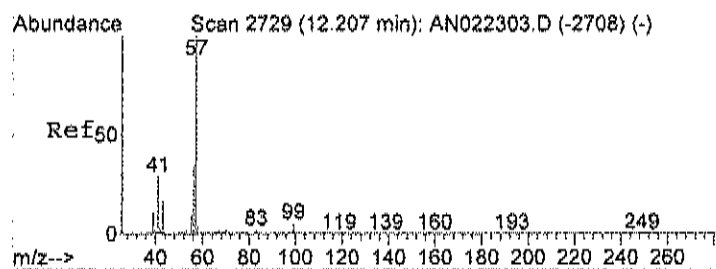
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.1	74.5	114.5



#39
Benzene
Concen: 0.48 ppb
RT: 11.39 min Scan# 2456
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

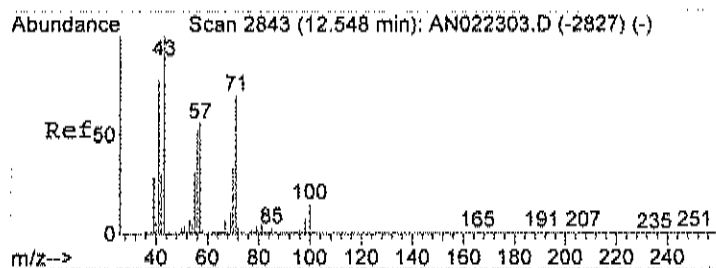
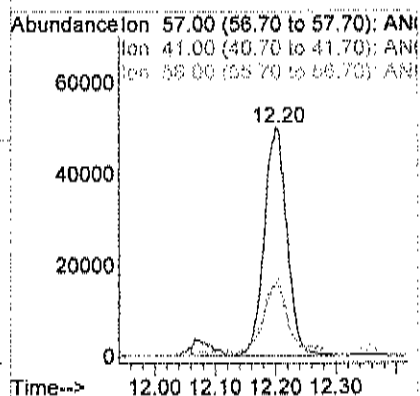
Tgt Ion	Ratio	Lower	Upper
78	100		
77	29.8	6.0	46.0
51	20.4	2.1	42.1





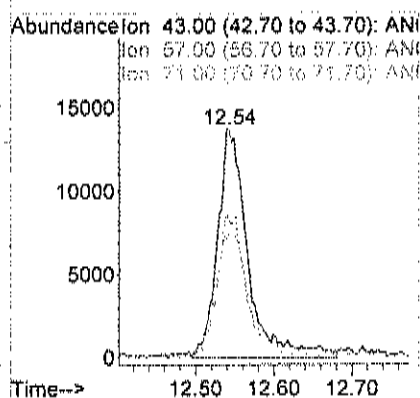
#42
2,2,4-trimethylpentane
Concen: 0.83 ppb
RT: 12.20 min Scan# 2727
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

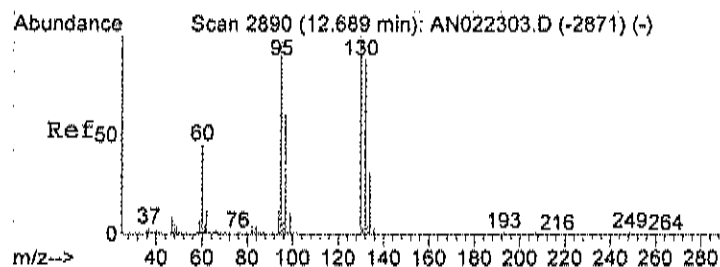
Tgt Ion:	57	Resp:	138064
Ion	Ratio	Lower	Upper
57	100		
41	38.6	14.1	54.1
56	40.8	11.4	51.4



#43
Heptane
Concen: 0.73 ppb
RT: 12.54 min Scan# 2840
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

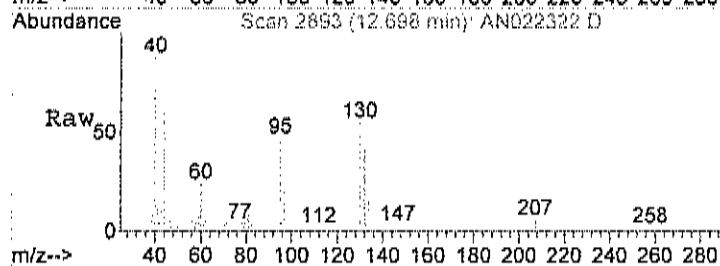
Tgt Ion:	43	Resp:	37181
Ion	Ratio	Lower	Upper
43	100		
57	66.6	31.3	71.3
71	55.7	34.8	74.8





#44
Trichloroethene
Concen: 0.15 ppb
RT: 12.70 min Scan# 2893
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

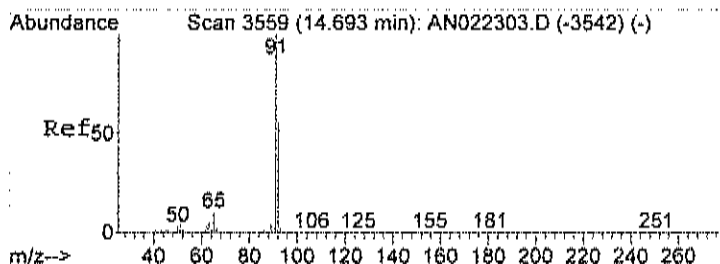
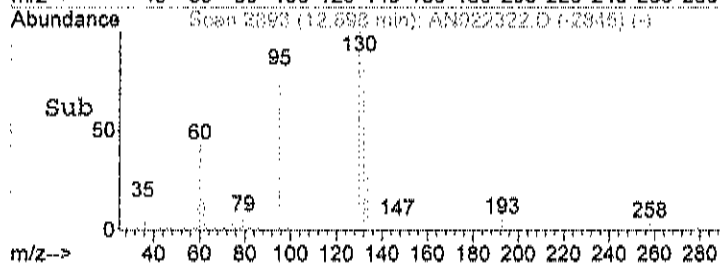
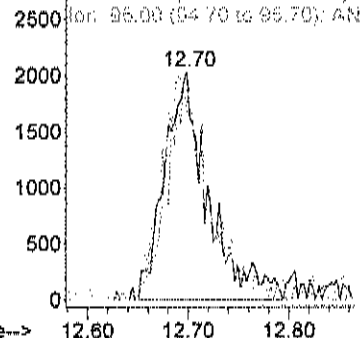
Tgt Ion	130	Resp	6125
Ion Ratio	Lower	Upper	
130	100		
132	91.9	76.1	116.1
95	104.5	85.0	125.0



Abundance Ion 130.00 (129.70 to 130.70): AN022322.D

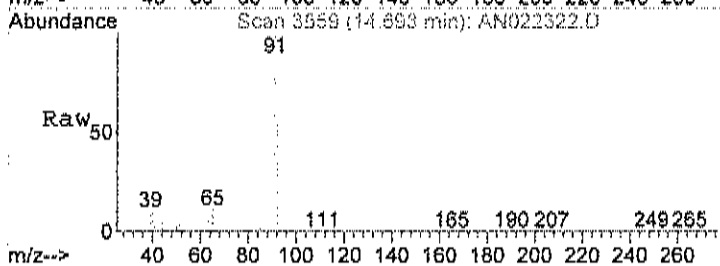
Ion 132.00 (131.70 to 132.70): AN022322.D

Ion 95.00 (94.70 to 95.70): AN022322.D



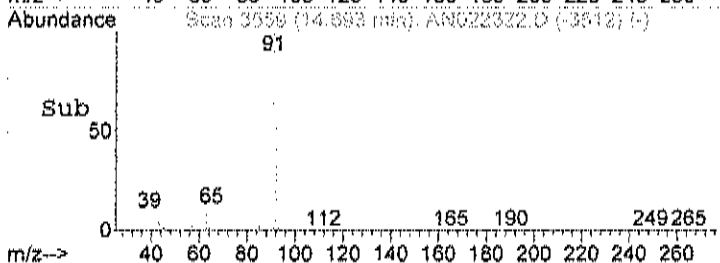
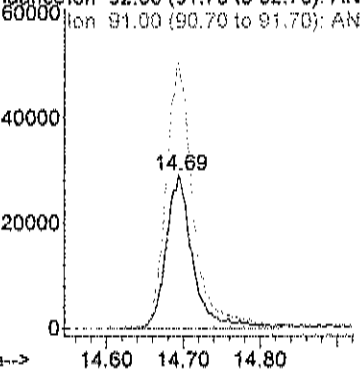
#51
Toluene
Concen: 1.25 ppb
RT: 14.69 min Scan# 3559
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

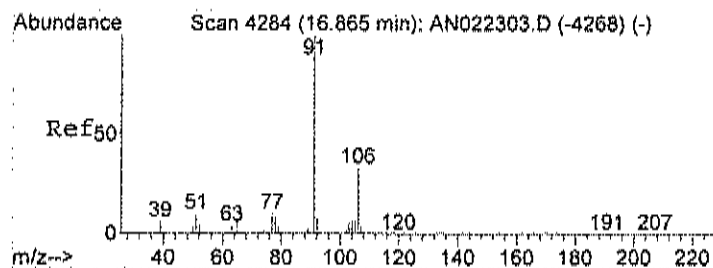
Tgt Ion	92	Resp	69635
Ion Ratio	Lower	Upper	
92	100		
91	177.2	152.5	192.5



Abundance Ion 92.00 (91.70 to 92.70): AN022322.D

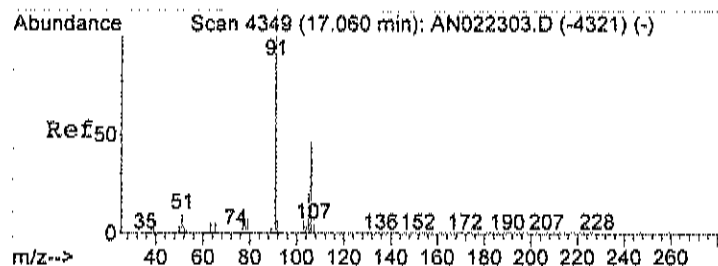
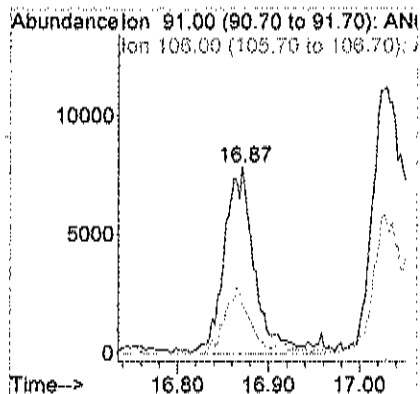
Ion 91.00 (90.70 to 91.70): AN022322.D





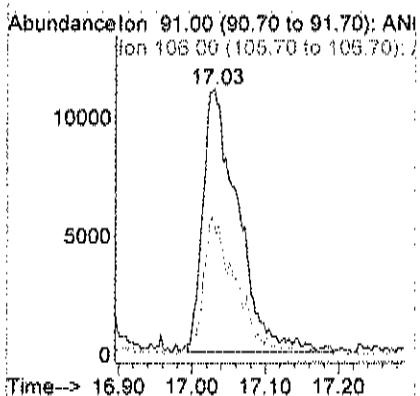
#59
Ethylbenzene
Concen: 0.15 ppb
RT: 16.87 min Scan# 4286
Delta R.T. 0.00 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

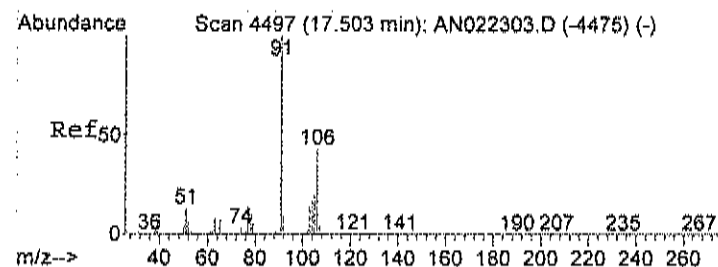
Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.7	9.9	49.9



#60
m,p-xylene
Concen: 0.40 ppb
RT: 17.03 min Scan# 4339
Delta R.T. -0.03 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

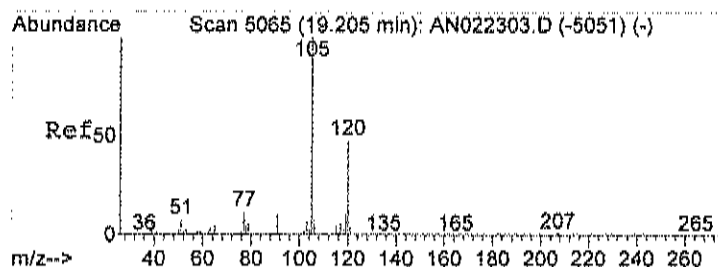
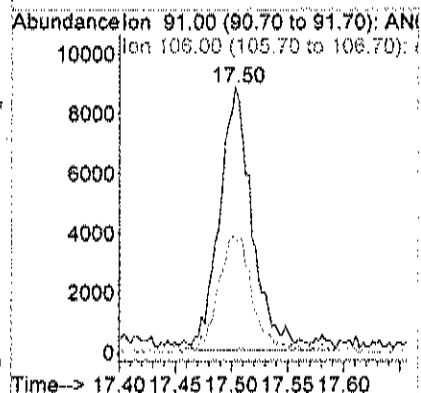
Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.7	25.3	65.3





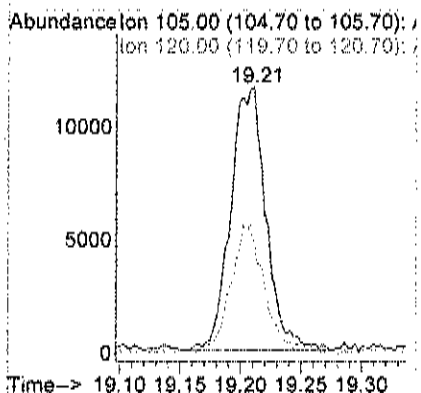
#64
o-xylene
Concen: 0.17 ppb
RT: 17.50 min Scan# 4497
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

Tgt Ion:	91	Resp:	18178
Ion	Ratio	Lower	Upper
91	100		
106	45.8	18.4	58.4



#72
1,2,4-trimethylbenzene
Concen: 0.23 ppb
RT: 19.21 min Scan# 5067
Delta R.T. -0.01 min
Lab File: AN022322.D
Acq: 23 Feb 2016 11:30 pm

Tgt Ion:	105	Resp:	23613
Ion	Ratio	Lower	Upper
105	100		
120	46.8	22.1	62.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022331.D
Acq On : 24 Feb 2016 5:07 am
Sample : C1602050-006A 5x
Misc : A204_1UG

Vial: 31
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:37:01 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.86	128	25521	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.09	114	81538	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	77438	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	40139	0.76	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	76.00%

Target Compounds

					Qvalue
15) Acetone	6.08	58	12776	1.18 ppb	# 1
17) Isopropyl alcohol	6.18	45	17087	0.55 ppb	# 46

Data File : C:\HPCHEM\1\DATA\AN022331.D
Acq On : 24 Feb 2016 5:07 am
Sample : C1602050-006A 5x
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:22 2016

Vial: 31

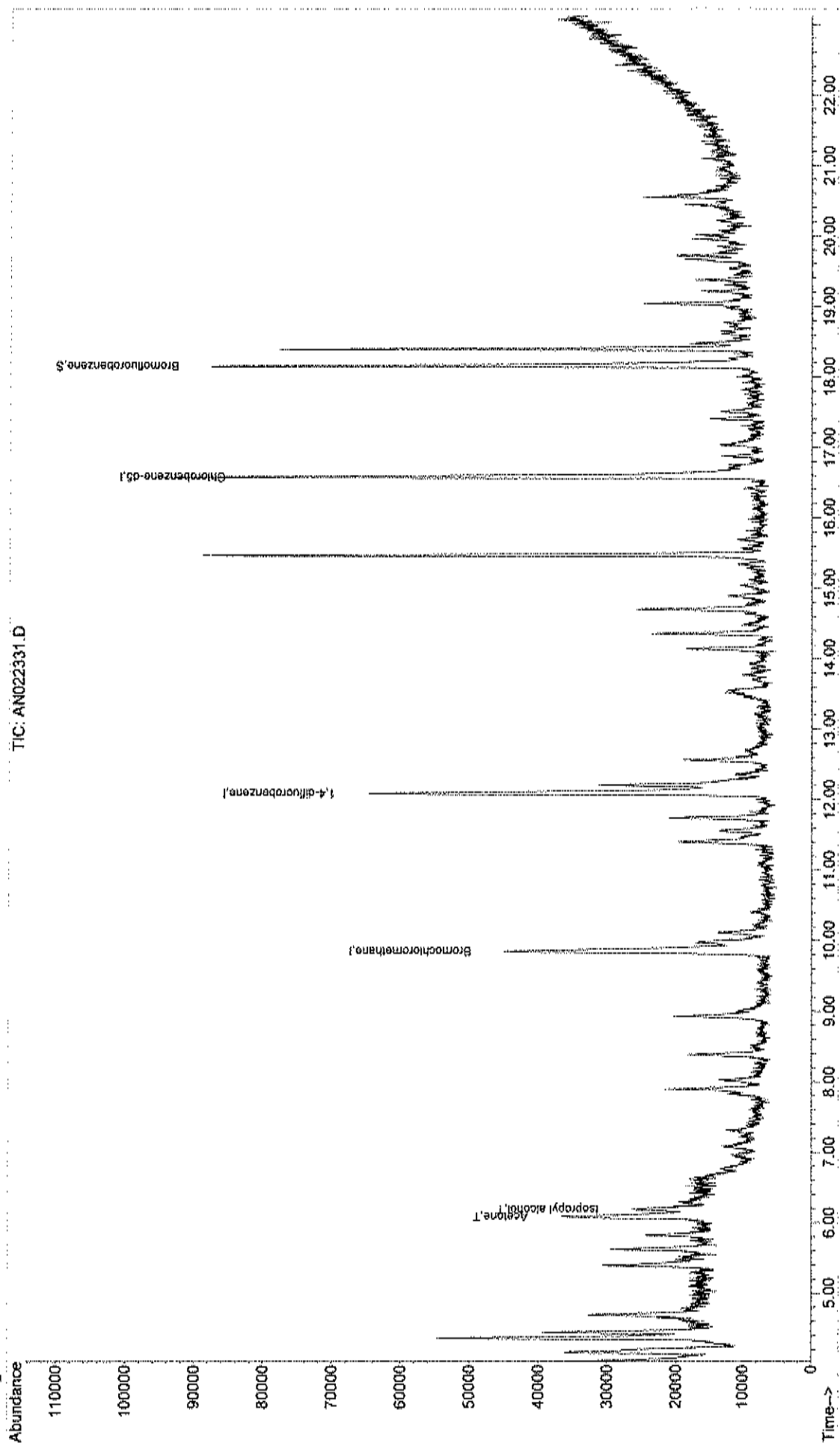
Operator: RJP

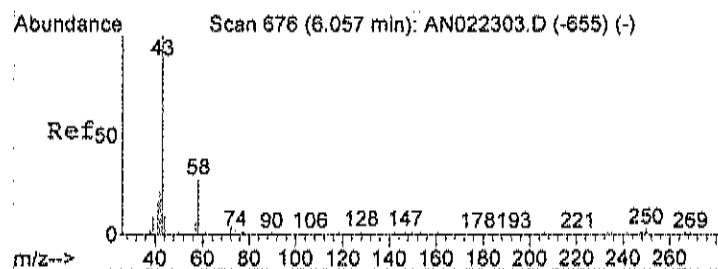
Inst : MSD #1

Multiplr: 1.00

Quant Results File: A204_1UG.RES

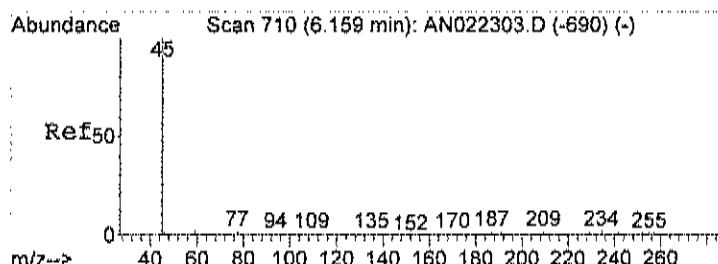
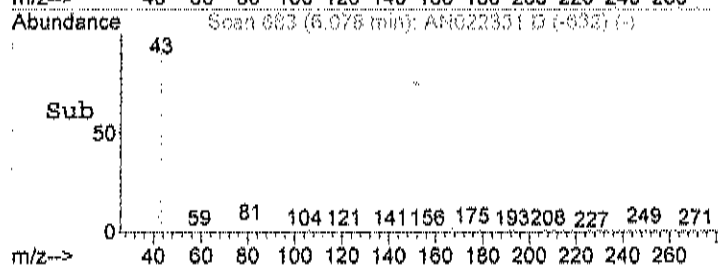
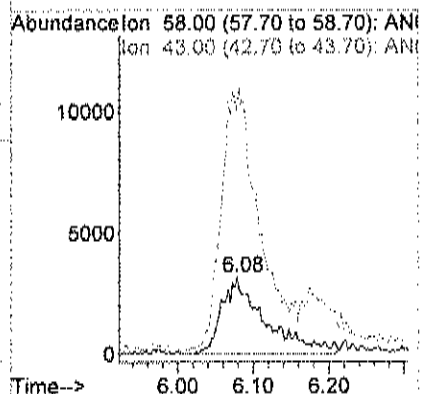
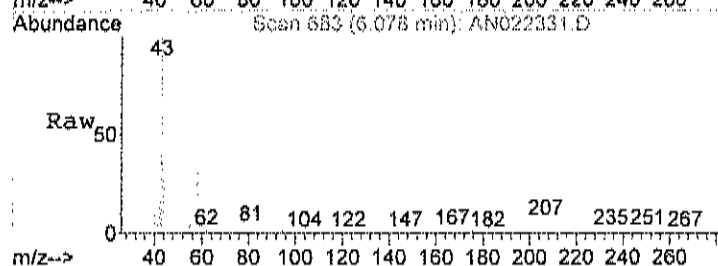
Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration





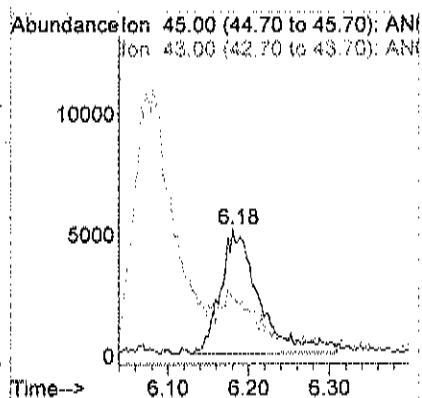
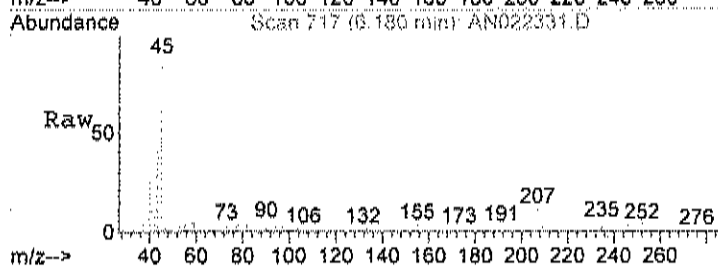
#15
Acetone
Concen: 1.18 ppb
RT: 6.08 min Scan# 683
Delta R.T. 0.00 min
Lab File: AN022331.D
Acq: 24 Feb 2016 5:07 am

Tgt Ion: 58 Resp: 12776
Ion Ratio Lower Upper
58 100
43 331.7 661.8 721.8#



#17
Isopropyl alcohol
Concen: 0.55 ppb
RT: 6.18 min Scan# 717
Delta R.T. 0.00 min
Lab File: AN022331.D
Acq: 24 Feb 2016 5:07 am

Tgt Ion: 45 Resp: 17087
Ion Ratio Lower Upper
45 100
43 0.0 8.9 48.9#



Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-007A

Client Sample ID: Rm 112
 Tag Number: 568,249
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-3			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2,4-Trimethylbenzene	0.21	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/24/2016 12:08:00 AM
2,2,4-trimethylpentane	0.12	0.15	J	ppbV	1	2/24/2016 12:08:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Acetone	6.0	1.5		ppbV	5	2/24/2016 5:44:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Benzene	0.43	0.15		ppbV	1	2/24/2016 12:08:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Bromoform	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Carbon tetrachloride	0.13	0.040		ppbV	1	2/24/2016 12:08:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Chloroform	0.46	0.15		ppbV	1	2/24/2016 12:08:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Cyclohexane	0.17	0.15		ppbV	1	2/24/2016 12:08:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/24/2016 12:08:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-007A

Client Sample ID: Rm 112
 Tag Number: 568,249
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC				TO-15		Analyst: RJP
Ethylbenzene	0.13	0.15	J	ppbV	1	2/24/2016 12:08:00 AM
Freon 11	0.35	0.15		ppbV	1	2/24/2016 12:08:00 AM
Freon 113	0.12	0.15	J	ppbV	1	2/24/2016 12:08:00 AM
Freon 114	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Freon 12	0.65	0.15		ppbV	1	2/24/2016 12:08:00 AM
Heptane	0.61	0.15		ppbV	1	2/24/2016 12:08:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Hexane	0.80	0.15		ppbV	1	2/24/2016 12:08:00 AM
Isopropyl alcohol	2.1	0.15		ppbV	1	2/24/2016 12:08:00 AM
m&p-Xylene	0.39	0.30		ppbV	1	2/24/2016 12:08:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/24/2016 12:08:00 AM
Methyl Ethyl Ketone	0.56	0.30		ppbV	1	2/24/2016 12:08:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/24/2016 12:08:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Methylene chloride	0.47	0.15		ppbV	1	2/24/2016 12:08:00 AM
o-Xylene	0.17	0.15		ppbV	1	2/24/2016 12:08:00 AM
Propylene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Styrene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Tetrachloroethylene	0.16	0.15		ppbV	1	2/24/2016 12:08:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Toluene	1.2	0.15		ppbV	1	2/24/2016 12:08:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Trichloroethene	0.22	0.040		ppbV	1	2/24/2016 12:08:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/24/2016 12:08:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/24/2016 12:08:00 AM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	2/24/2016 12:08:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-007A

Client Sample ID: Rm 112
 Tag Number: 568,249
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:08:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:08:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:08:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:08:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:08:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/24/2016 12:08:00 AM
1,2,4-Trimethylbenzene	1.0	0.74		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:08:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/24/2016 12:08:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/24/2016 12:08:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/24/2016 12:08:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/24/2016 12:08:00 AM
2,2,4-trimethylpentane	0.56	0.70	J	ug/m3	1	2/24/2016 12:08:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/24/2016 12:08:00 AM
Acetone	14	3.6		ug/m3	5	2/24/2016 5:44:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/24/2016 12:08:00 AM
Benzene	1.4	0.48		ug/m3	1	2/24/2016 12:08:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/24/2016 12:08:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:08:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/24/2016 12:08:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/24/2016 12:08:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/24/2016 12:08:00 AM
Carbon tetrachloride	0.82	0.25		ug/m3	1	2/24/2016 12:08:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/24/2016 12:08:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/24/2016 12:08:00 AM
Chloroform	2.2	0.73		ug/m3	1	2/24/2016 12:08:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	2/24/2016 12:08:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:08:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:08:00 AM
Cyclohexane	0.59	0.52		ug/m3	1	2/24/2016 12:08:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/24/2016 12:08:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/24/2016 12:08:00 AM
Ethylbenzene	0.56	0.65	J	ug/m3	1	2/24/2016 12:08:00 AM
Freon 11	2.0	0.84		ug/m3	1	2/24/2016 12:08:00 AM
Freon 113	0.92	1.1	J	ug/m3	1	2/24/2016 12:08:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/24/2016 12:08:00 AM

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-007A

Client Sample ID: Rm 112
 Tag Number: 568,249
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	3.2	0.74		ug/m3	1	2/24/2016 12:08:00 AM
Heptane	2.5	0.61		ug/m3	1	2/24/2016 12:08:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/24/2016 12:08:00 AM
Hexane	2.8	0.53		ug/m3	1	2/24/2016 12:08:00 AM
Isopropyl alcohol	5.2	0.37		ug/m3	1	2/24/2016 12:08:00 AM
m&p-Xylene	1.7	1.3		ug/m3	1	2/24/2016 12:08:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:08:00 AM
Methyl Ethyl Ketone	1.7	0.88		ug/m3	1	2/24/2016 12:08:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:08:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/24/2016 12:08:00 AM
Methylene chloride	1.6	0.52		ug/m3	1	2/24/2016 12:08:00 AM
o-Xylene	0.74	0.65		ug/m3	1	2/24/2016 12:08:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/24/2016 12:08:00 AM
Styrene	< 0.64	0.64		ug/m3	1	2/24/2016 12:08:00 AM
Tetrachloroethylene	1.1	1.0		ug/m3	1	2/24/2016 12:08:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/24/2016 12:08:00 AM
Toluene	4.4	0.57		ug/m3	1	2/24/2016 12:08:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:08:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:08:00 AM
Trichloroethene	1.2	0.21		ug/m3	1	2/24/2016 12:08:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/24/2016 12:08:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/24/2016 12:08:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/24/2016 12:08:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 , Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022323.D
 Acq On : 24 Feb 2016 12:08 am
 Sample : C1602050-007A
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 24 08:36:53 2016

Vial: 23
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 11 11:13:02 2016
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	29732	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.08	114	103253	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.58	117	83346	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	52954	0.93	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	93.00%

Target Compounds

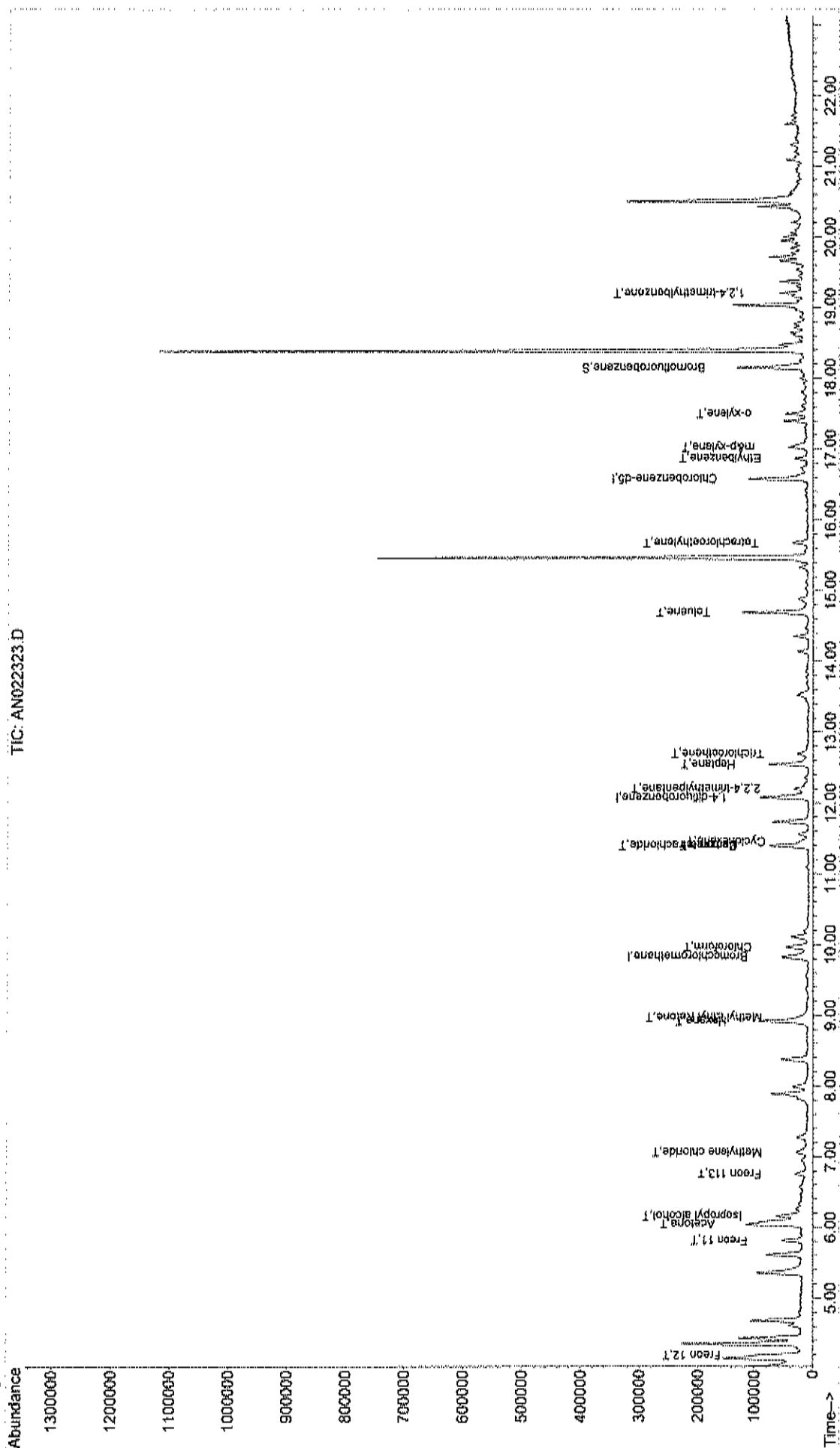
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	4.20	85	84460	0.65	ppb	99
14) Freon 11	5.81	101	45281	0.35	ppb	95
15) Acetone	6.04	58	69299	5.51	ppb	# 1
17) Isopropyl alcohol	6.16	45	76167	2.10	ppb	# 46
19) Freon 113	6.76	101	10189	0.12	ppb	93
21) Methylene chloride	7.06	84	18463	0.47	ppb	90
28) Methyl Ethyl Ketone	8.97	72	10800m	0.56	ppb	
30) Hexane	8.91	57	52038	0.80	ppb	97
32) Chloroform	9.97	83	44561	0.46	ppb	100
37) Cyclohexane	11.45	56	8111m	0.17	ppb	
38) Carbon tetrachloride	11.41	117	9432	0.13	ppb	95
39) Benzene	11.38	78	39507	0.43	ppb	96
42) 2,2,4-trimethylpentane	12.19	57	20730	0.12	ppb	# 63
43) Heptane	12.54	43	31531	0.61	ppb	91
44) Trichloroethene	12.70	130	9263	0.22	ppb	95
51) Toluene	14.69	92	65025	1.17	ppb	94
56) Tetrachloroethylene	15.67	164	6481	0.16	ppb	95
59) Ethylbenzene	16.87	91	15890	0.13	ppb	93
60) m&p-xylene	17.03	91	36171	0.39	ppb	93
64) o-xylene	17.50	91	18151	0.17	ppb	87
72) 1,2,4-trimethylbenzene	19.20	105	21161	0.21	ppb	91

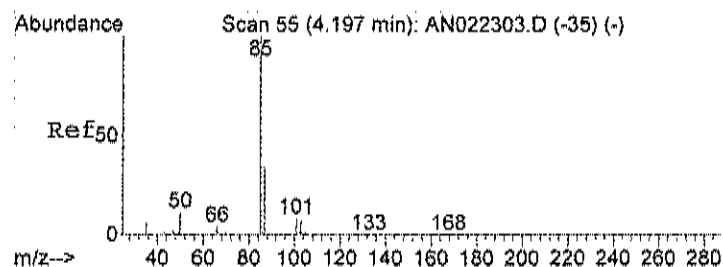
Data File : C:\HPCHEM\1\DATA\AN022323.D
Acq On : 24 Feb 2016 12:08 am
Sample : C1602050-007A
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:13 2016

Vial: 23
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

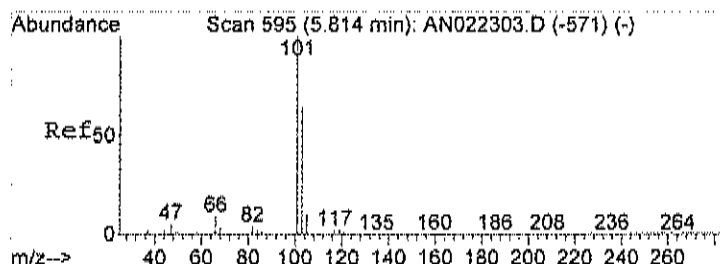
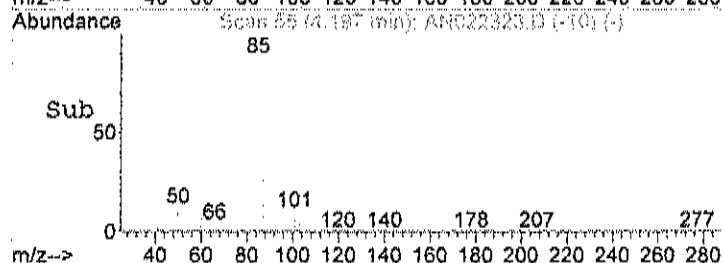
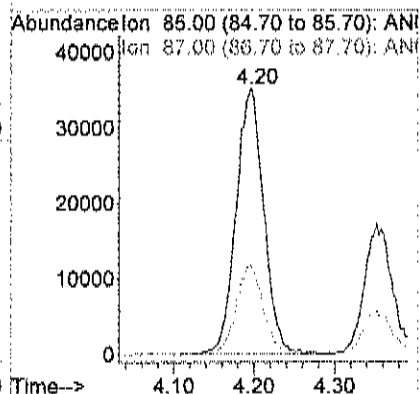
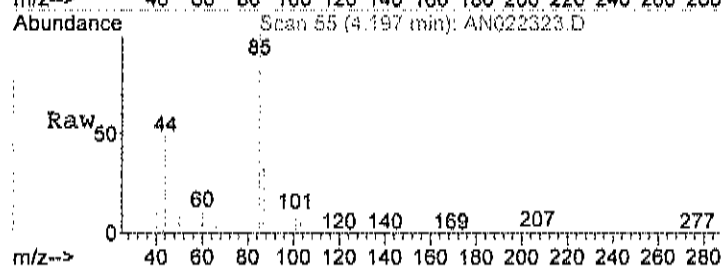
Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration





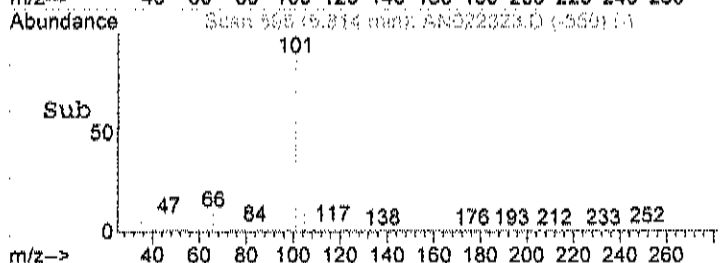
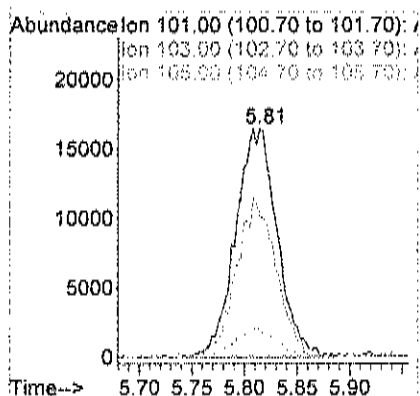
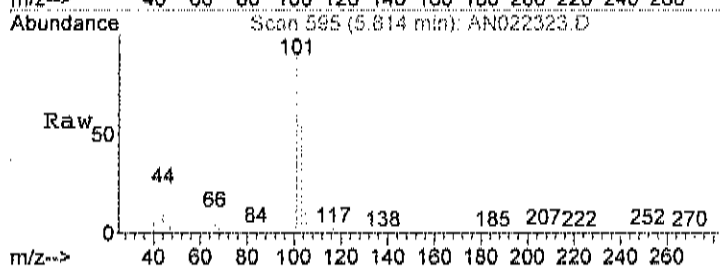
#3
Freon 12
Concen: 0.65 ppb
RT: 4.20 min Scan# 55
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

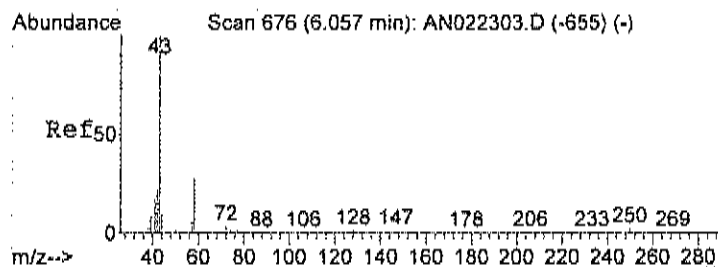
Tgt Ion:	85	Resp:	84460
Ion	Ratio	Lower	Upper
85	100		
87	32.2	12.5	52.5



#14
Freon 11
Concen: 0.35 ppb
RT: 5.81 min Scan# 595
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

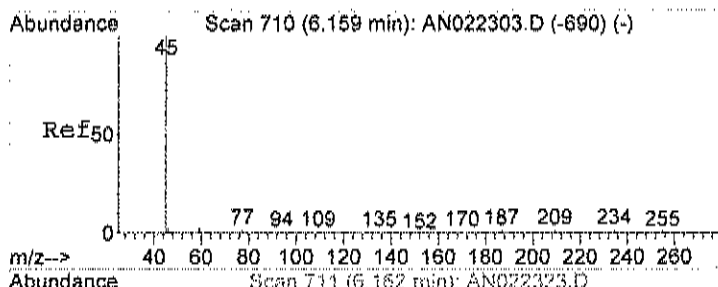
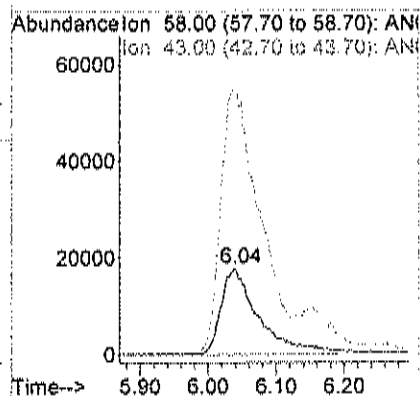
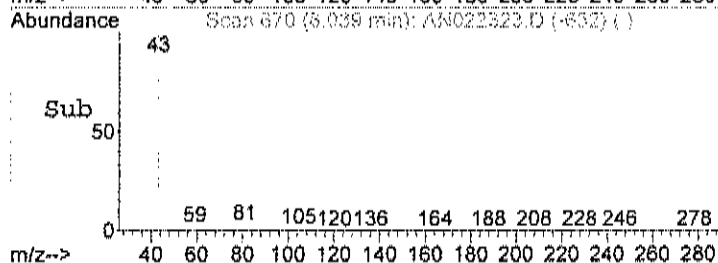
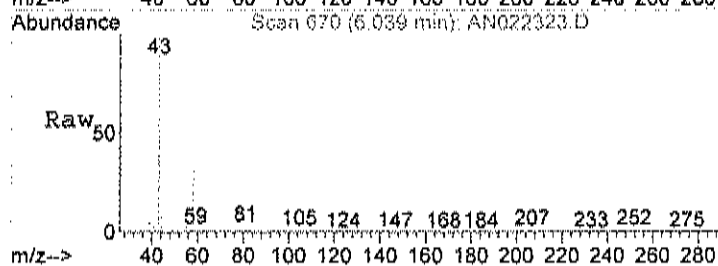
Tgt Ion:	101	Resp:	45281
Ion	Ratio	Lower	Upper
101	100		
103	68.5	44.6	84.6
105	13.6	0.0	31.6





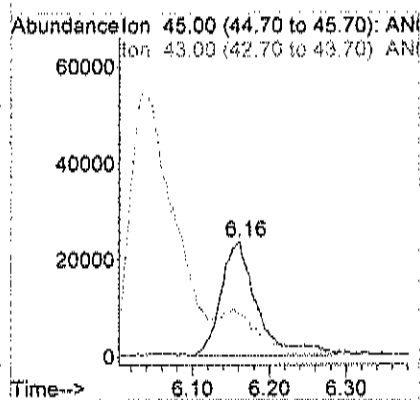
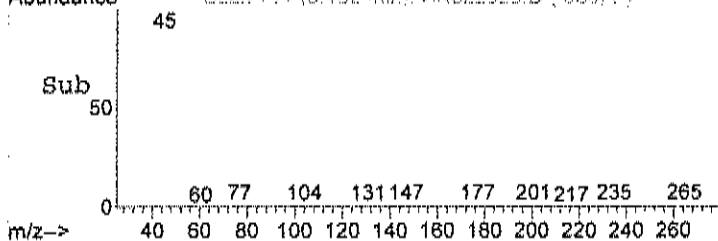
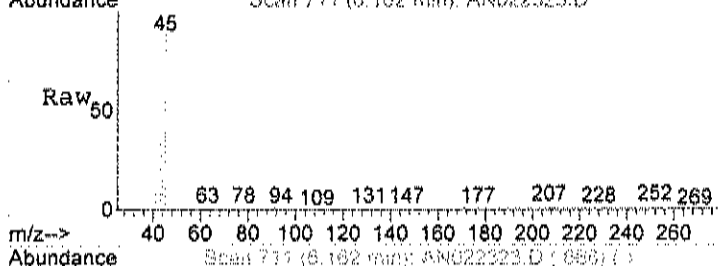
#15
Acetone
Concen: 5.51 ppb
RT: 6.04 min Scan# 670
Delta R.T. -0.04 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

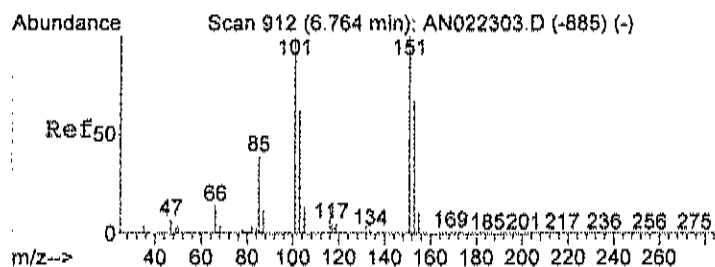
Tgt Ion: 58 Resp: 69299
Ion Ratio Lower Upper
58 100
43 350.5 661.8 721.8#



#17
Isopropyl alcohol
Concen: 2.10 ppb
RT: 6.16 min Scan# 711
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

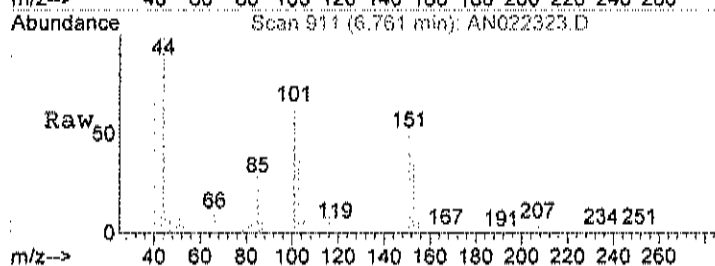
Tgt Ion: 45 Resp: 76167
Ion Ratio Lower Upper
45 100
43 0.0 8.9 48.9#



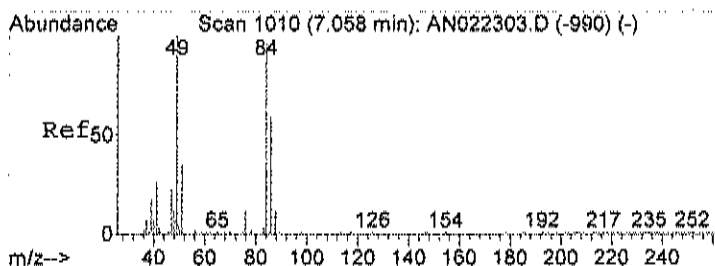
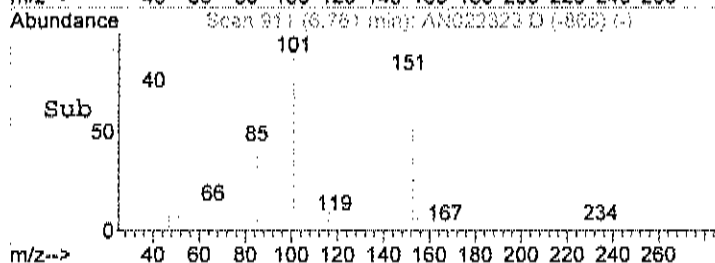
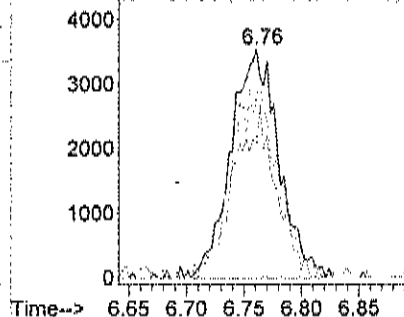


#19
 Freon 113
 Concen: 0.12 ppb
 RT: 6.76 min Scan# 911
 Delta R.T. -0.01 min
 Lab File: AN022323.D
 Acq: 24 Feb 2016 12:08 am

Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.6	42.5	82.5
151	83.1	70.9	110.9

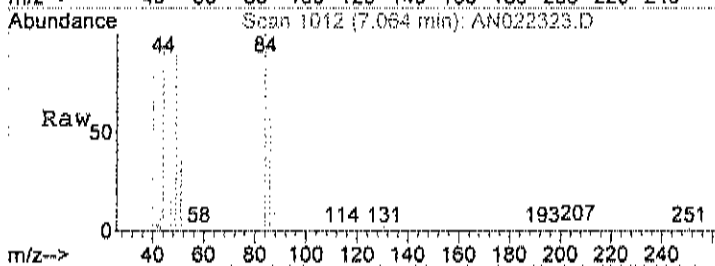


Abundance Ion 101.00 (100.70 to 101.70): /
 Ion 103.00 (102.70 to 103.70): /
 Ion 151.00 (150.70 to 151.70): /

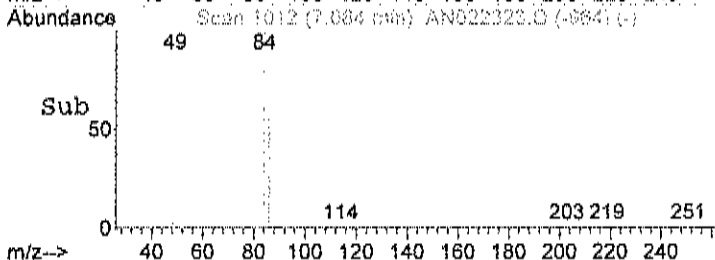
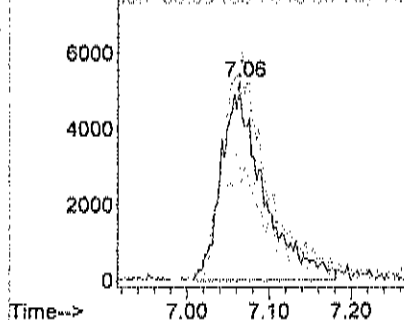


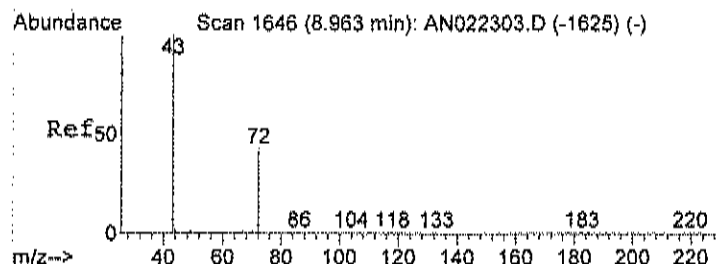
#21
 Methylene chloride
 Concen: 0.47 ppb
 RT: 7.06 min Scan# 1012
 Delta R.T. -0.01 min
 Lab File: AN022323.D
 Acq: 24 Feb 2016 12:08 am

Tgt Ion	Ratio	Lower	Upper
84	100		
49	121.3	87.8	127.8
86	66.1	43.1	83.1



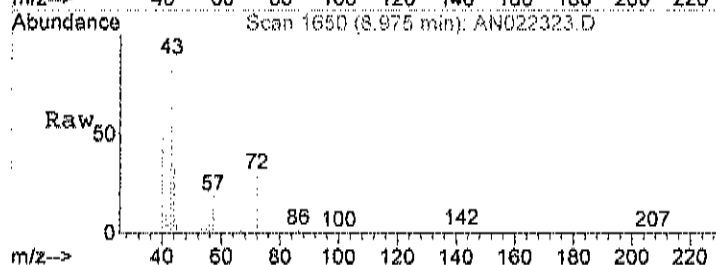
Abundance Ion 84.00 (83.70 to 84.70): ANI
 Ion 49.00 (48.70 to 49.70): ANI
 Ion 86.00 (85.70 to 86.70): ANI





#28
Methyl Ethyl Ketone
Concen: 0.56 ppb m
RT: 8.97 min Scan# 1650
Delta R.T. -0.00 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

Tgt Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	113.1	80.0	120.0

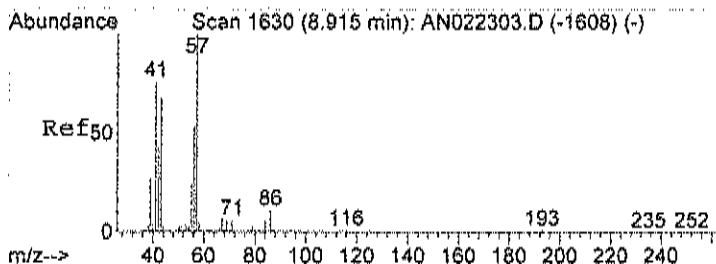
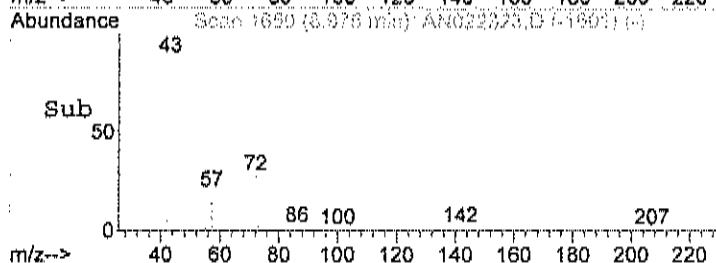
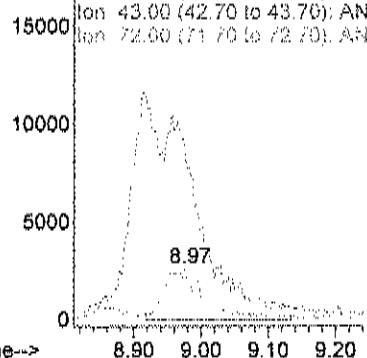


Abundance

Ion 72.00 (71.70 to 72.70): ANI

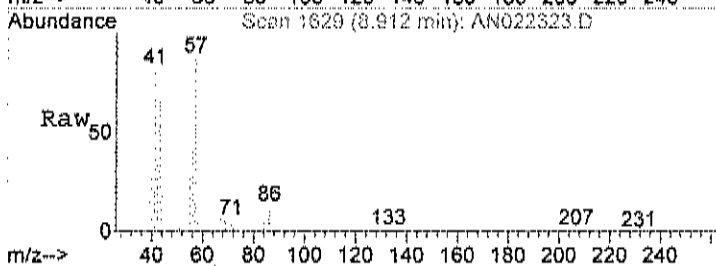
Ion 43.00 (42.70 to 43.70): ANI

Ion 72.00 (71.70 to 72.70): ANI



#30
Hexane
Concen: 0.80 ppb
RT: 8.91 min Scan# 1629
Delta R.T. -0.02 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.9	66.6	106.6
56	54.5	30.6	70.6

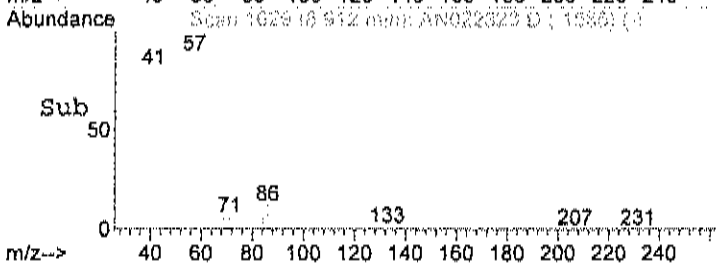
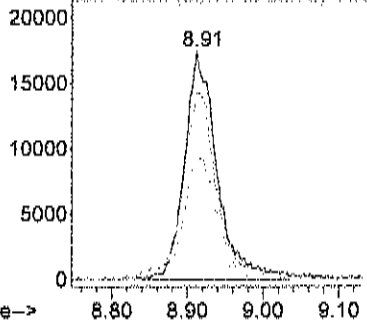


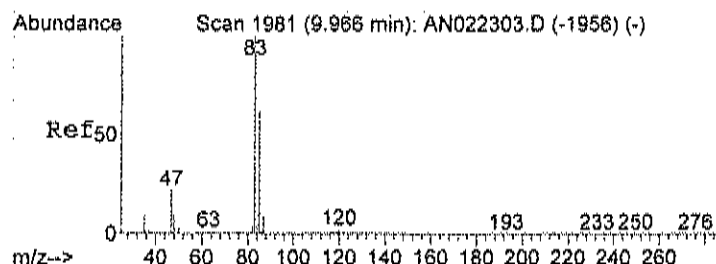
Abundance

Ion 57.00 (56.70 to 57.70): ANI

Ion 41.00 (40.70 to 41.70): ANI

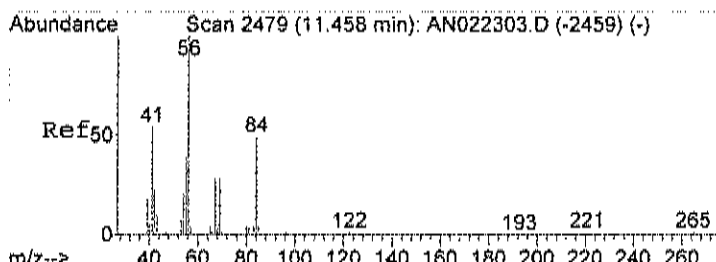
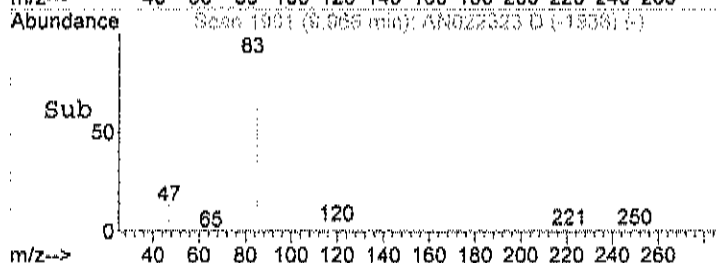
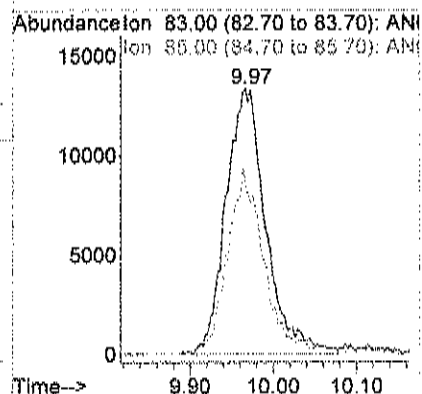
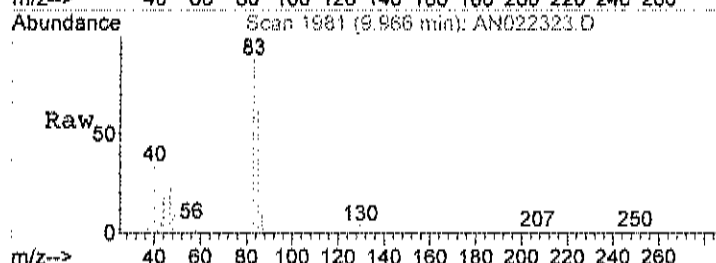
Ion 56.00 (55.70 to 56.70): ANI





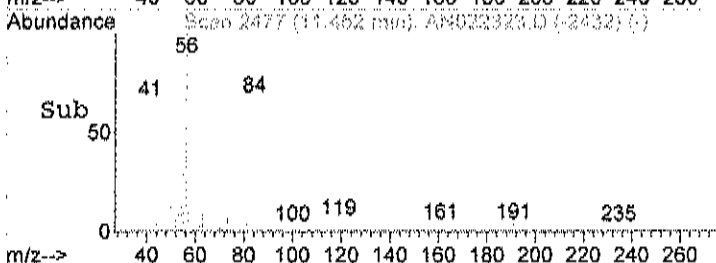
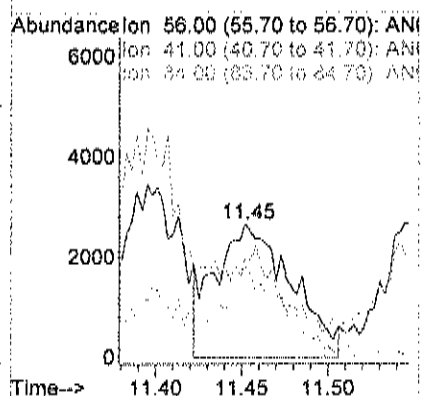
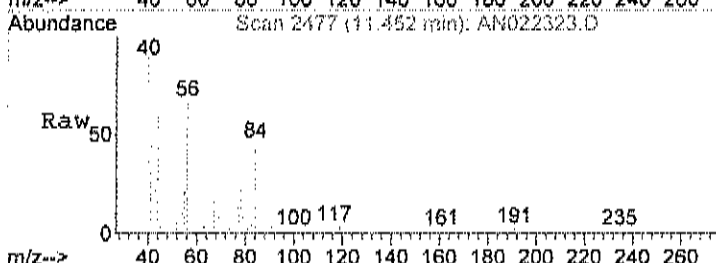
#32
Chloroform
Concen: 0.46 ppb
RT: 9.97 min Scan# 1981
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

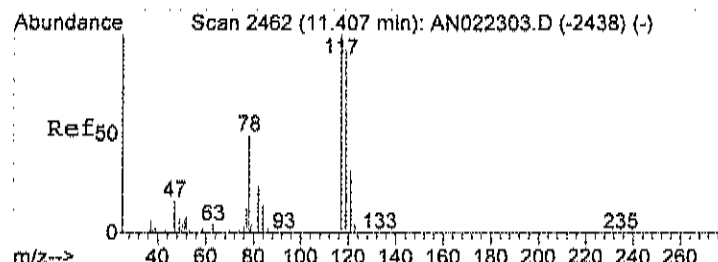
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	43.9	83.9



#37
Cyclohexane
Concen: 0.17 ppb m
RT: 11.45 min Scan# 2477
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

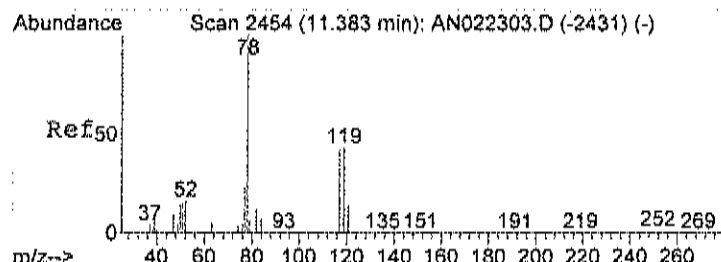
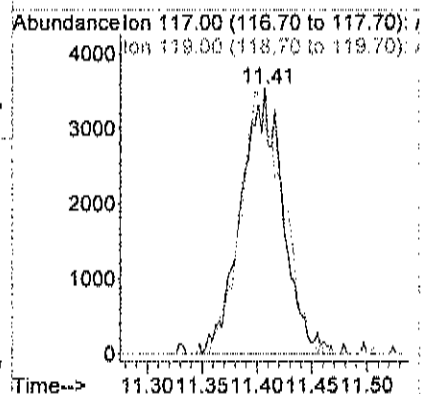
Tgt Ion	Ratio	Lower	Upper
56	100		
41	0.0	47.3	87.3#
84	0.0	88.1	128.1#





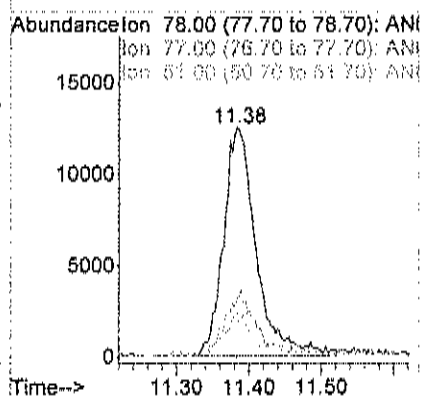
#38
Carbon tetrachloride
Concen: 0.13 ppb
RT: 11.41 min Scan# 2462
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

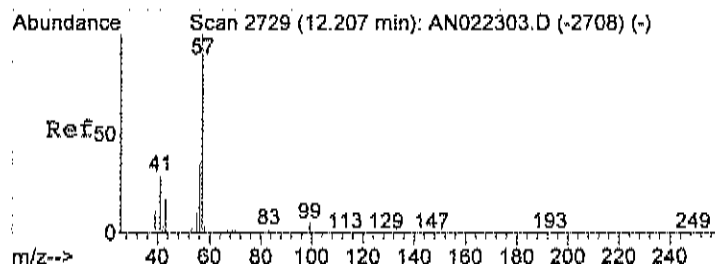
Tgt Ion:	117	Resp:	9432
Ion	Ratio	Lower	Upper
117	100		
119	99.5	74.5	114.5



#39
Benzene
Concen: 0.43 ppb
RT: 11.38 min Scan# 2454
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

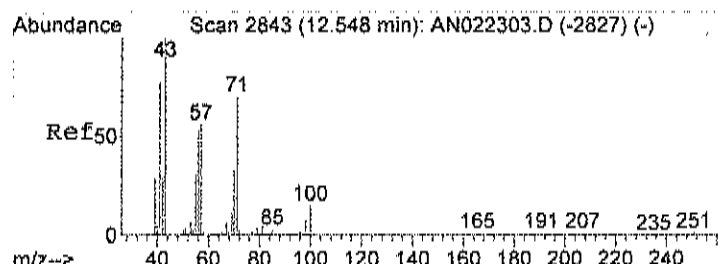
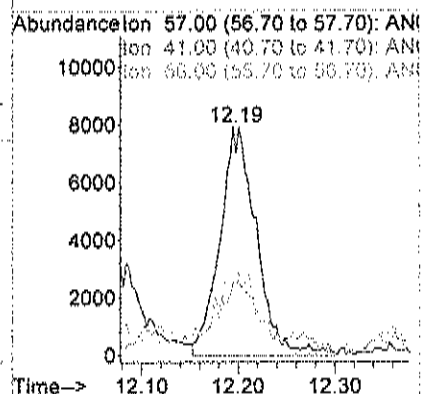
Tgt Ion:	78	Resp:	39507
Ion	Ratio	Lower	Upper
78	100		
77	26.3	6.0	46.0
51	18.3	2.1	42.1





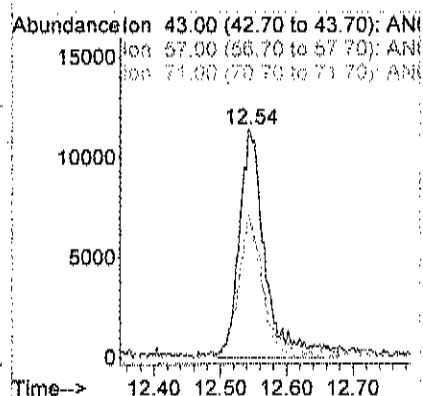
#42
2,2,4-trimethylpentane
Concen: 0.12 ppb
RT: 12.19 min Scan# 2725
Delta R.T. -0.02 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

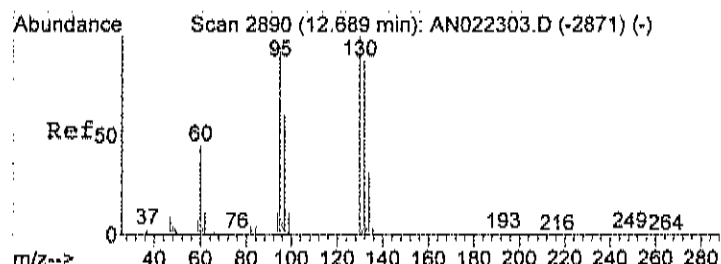
Tgt Ion	Ratio	Lower	Upper
57	100		
41	53.7	14.1	54.1
56	53.7	11.4	51.4



#43
Heptane
Concen: 0.61 ppb
RT: 12.54 min Scan# 2841
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

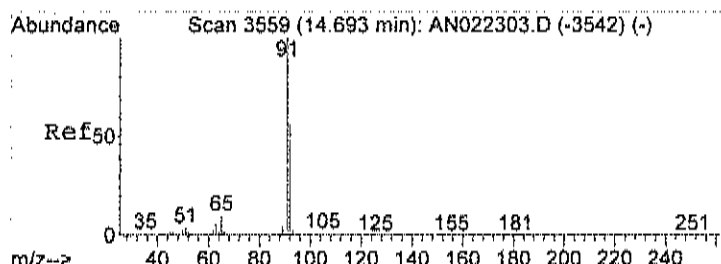
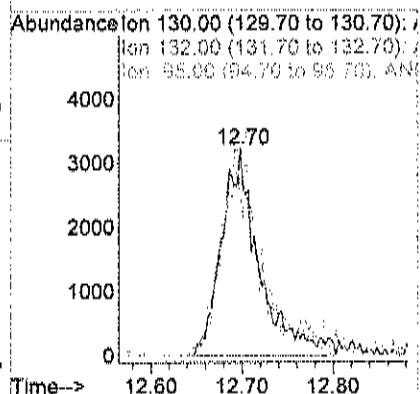
Tgt Ion	Ratio	Lower	Upper
43	100		
57	62.9	31.3	71.3
71	53.8	34.8	74.8





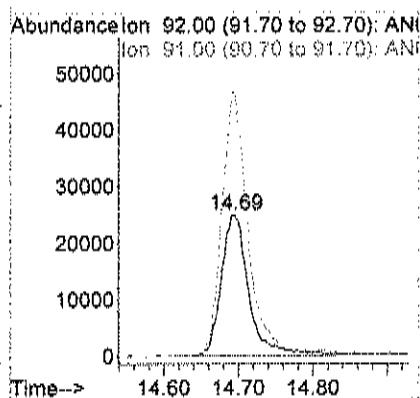
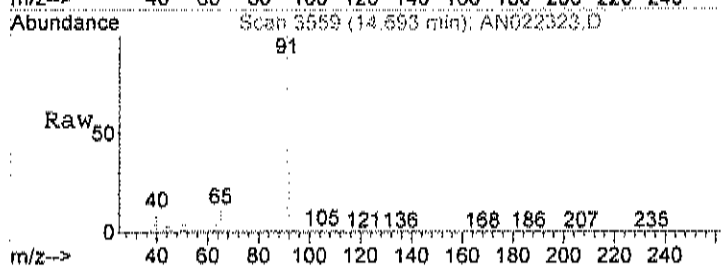
#44
Trichloroethene
Concen: 0.22 ppb
RT: 12.70 min Scan# 2893
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

Tgt Ion	Ratio	Lower	Upper
130	100		
132	103.3	76.1	116.1
95	108.5	85.0	125.0

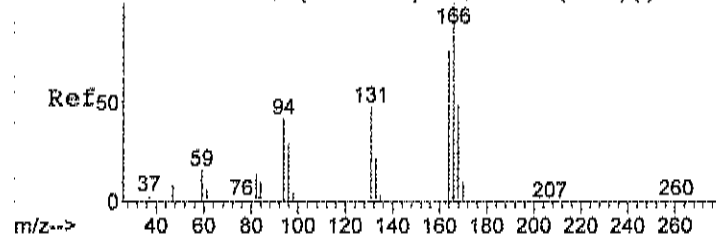


#51
Toluene
Concen: 1.17 ppb
RT: 14.69 min Scan# 3559
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

Tgt Ion	Ratio	Lower	Upper
92	100		
91	180.2	152.5	192.5



Scan 3886 (15.673 min): AN022303.D (-3870) (-)



#56

Tetrachloroethylene

Concen: 0.16 ppb

RT: 15.67 min Scan# 3886

Delta R.T. -0.01 min

Lab File: AN022323.D

Acq: 24 Feb 2016 12:08 am

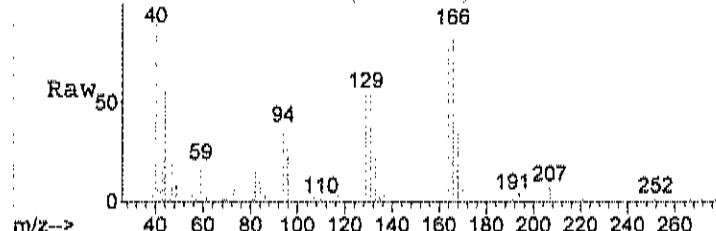
Tgt Ion: 164 Resp: 6481

Ion Ratio Lower Upper

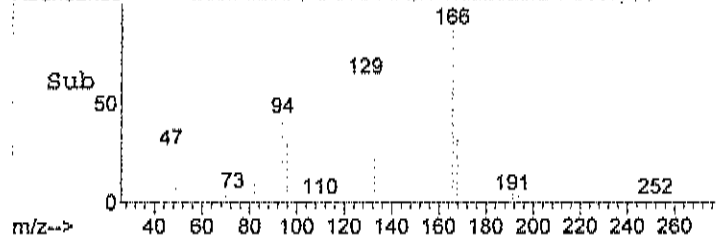
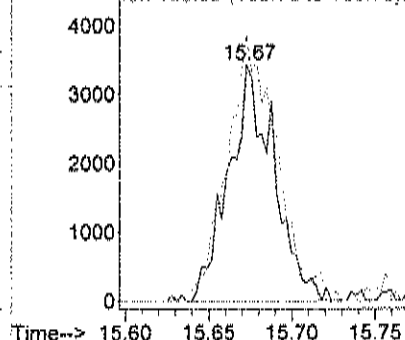
164 100

166 122.9 108.6 148.6

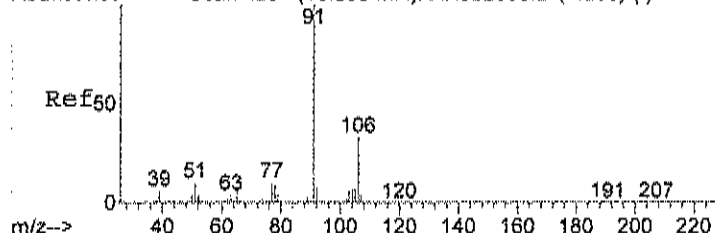
Scan 3886 (15.673 min): AN022323.D



Scan 3886 (15.673 min): AN022323.D (-3856) (-)

Abundance Ion 164.00 (163.70 to 164.70):
Ion 166.00 (165.70 to 166.70):

Scan 4284 (16.865 min): AN022303.D (-4268) (-)



#59

Ethylbenzene

Concen: 0.13 ppb

RT: 16.87 min Scan# 4284

Delta R.T. -0.01 min

Lab File: AN022323.D

Acq: 24 Feb 2016 12:08 am

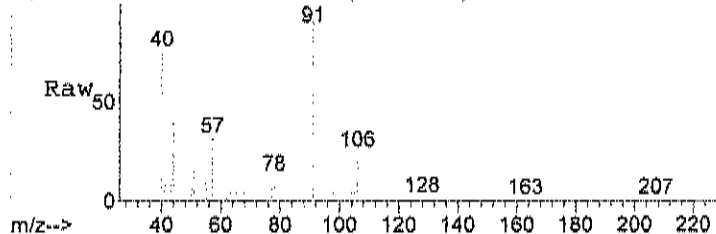
Tgt Ion: 91 Resp: 15890

Ion Ratio Lower Upper

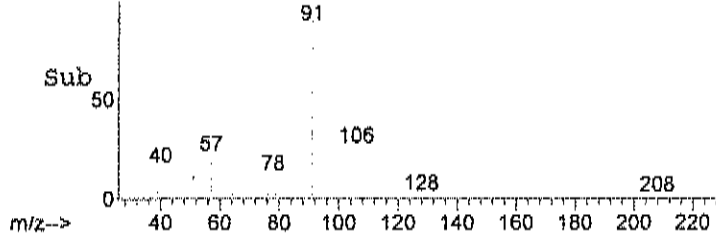
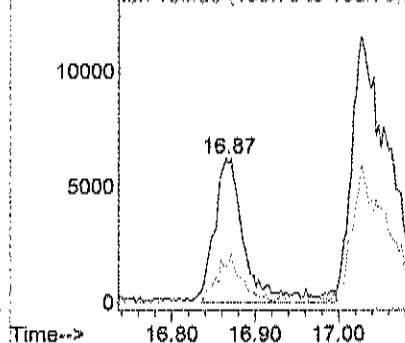
91 100

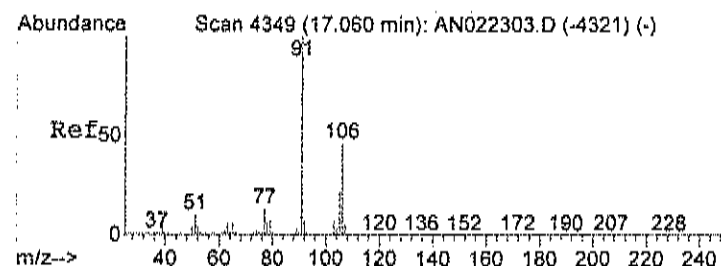
106 25.9 9.9 49.9

Scan 4284 (16.865 min): AN022323.D



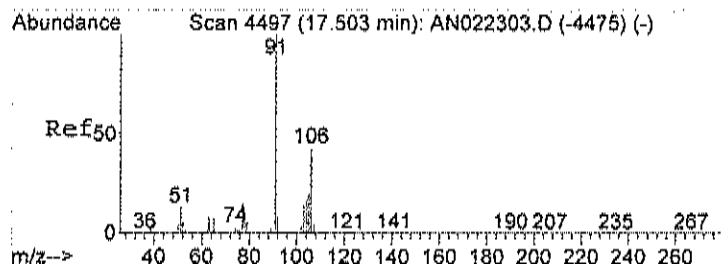
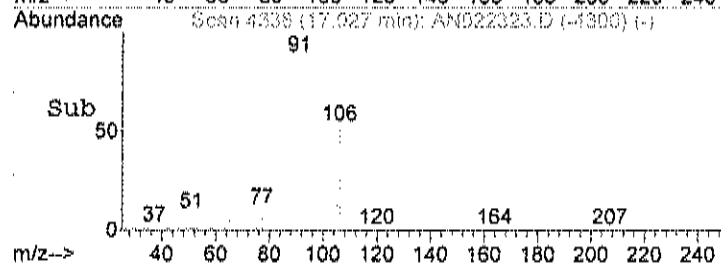
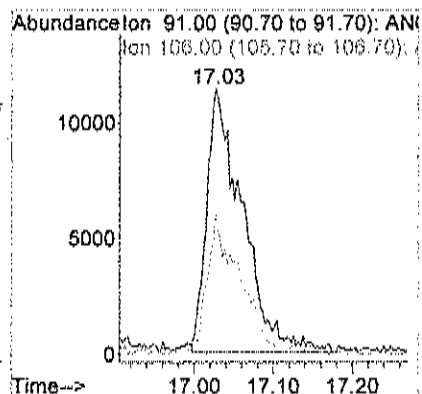
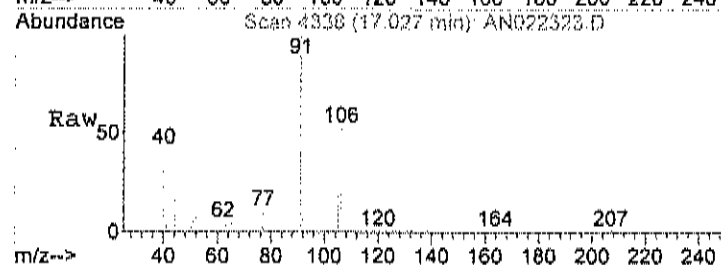
Scan 4284 (16.865 min): AN022323.D (-4236) (-)

Abundance Ion 91.00 (90.70 to 91.70): ANI
Ion 106.00 (105.70 to 106.70):



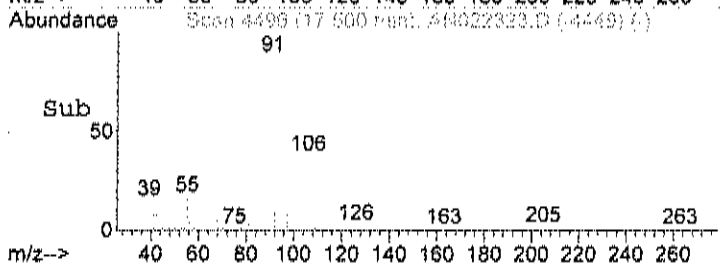
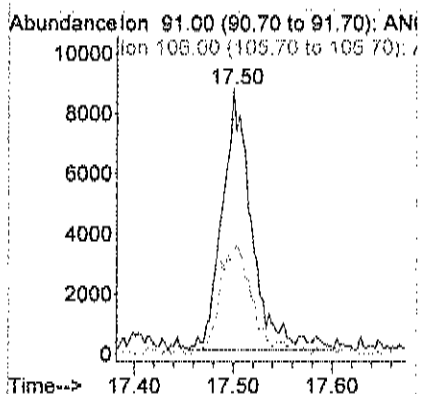
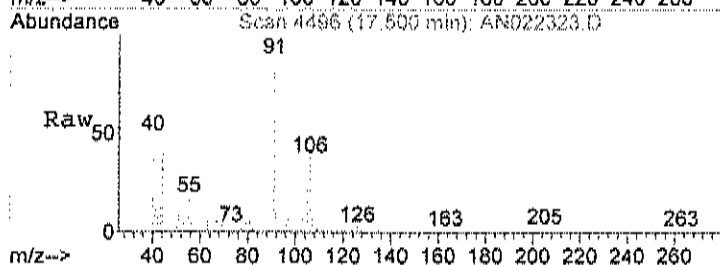
#60
m&p-xylene
Concen: 0.39 ppb
RT: 17.03 min Scan# 4338
Delta R.T. -0.04 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

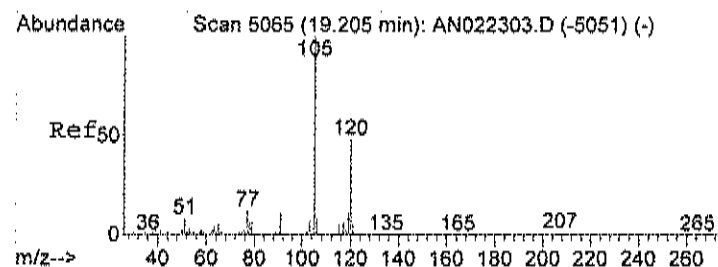
Tgt Ion	Ratio	Lower	Upper
91	100		
106	49.8	25.3	65.3



#64
o-xylene
Concen: 0.17 ppb
RT: 17.50 min Scan# 4496
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

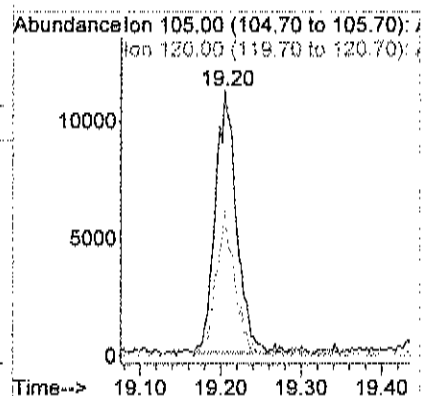
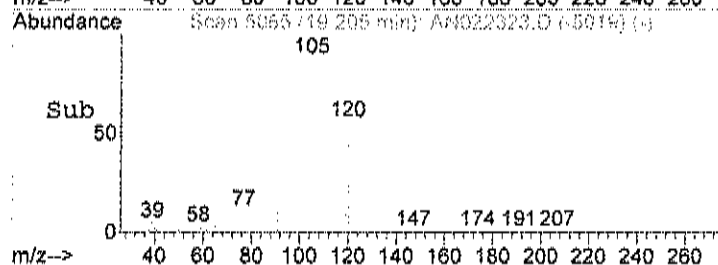
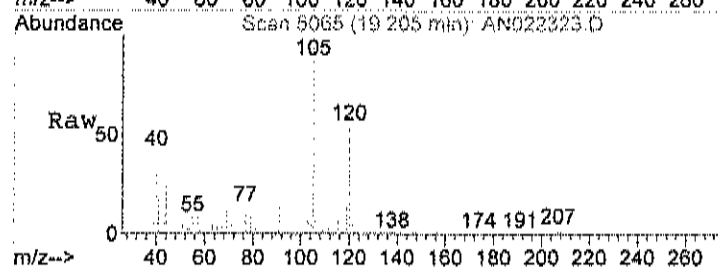
Tgt Ion	Ratio	Lower	Upper
91	100		
106	46.0	18.4	58.4





#72
1,2,4-trimethylbenzene
Concen: 0.21 ppb
RT: 19.20 min Scan# 5065
Delta R.T. -0.01 min
Lab File: AN022323.D
Acq: 24 Feb 2016 12:08 am

Tgt Ion	Resp	Lower	Upper
105	21161		
120	47.9	22.1	62.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022332.D Vial: 32
Acq On : 24 Feb 2016 5:44 am Operator: RJP
Sample : C1602050-007A 5x Inst : MSD #1
Misc : A204_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 24 08:37:02 2016 Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Feb 11 11:13:02 2016
Response via : Initial Calibration
DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.85	128	26130	1.00	ppb	-0.01
35) 1,4-difluorobenzene	12.09	114	82797	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	77954	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	40376	0.76	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	76.00%

Target Compounds

						Qvalue
15) Acetone	6.07	58	13117	1.19	ppb	# 1

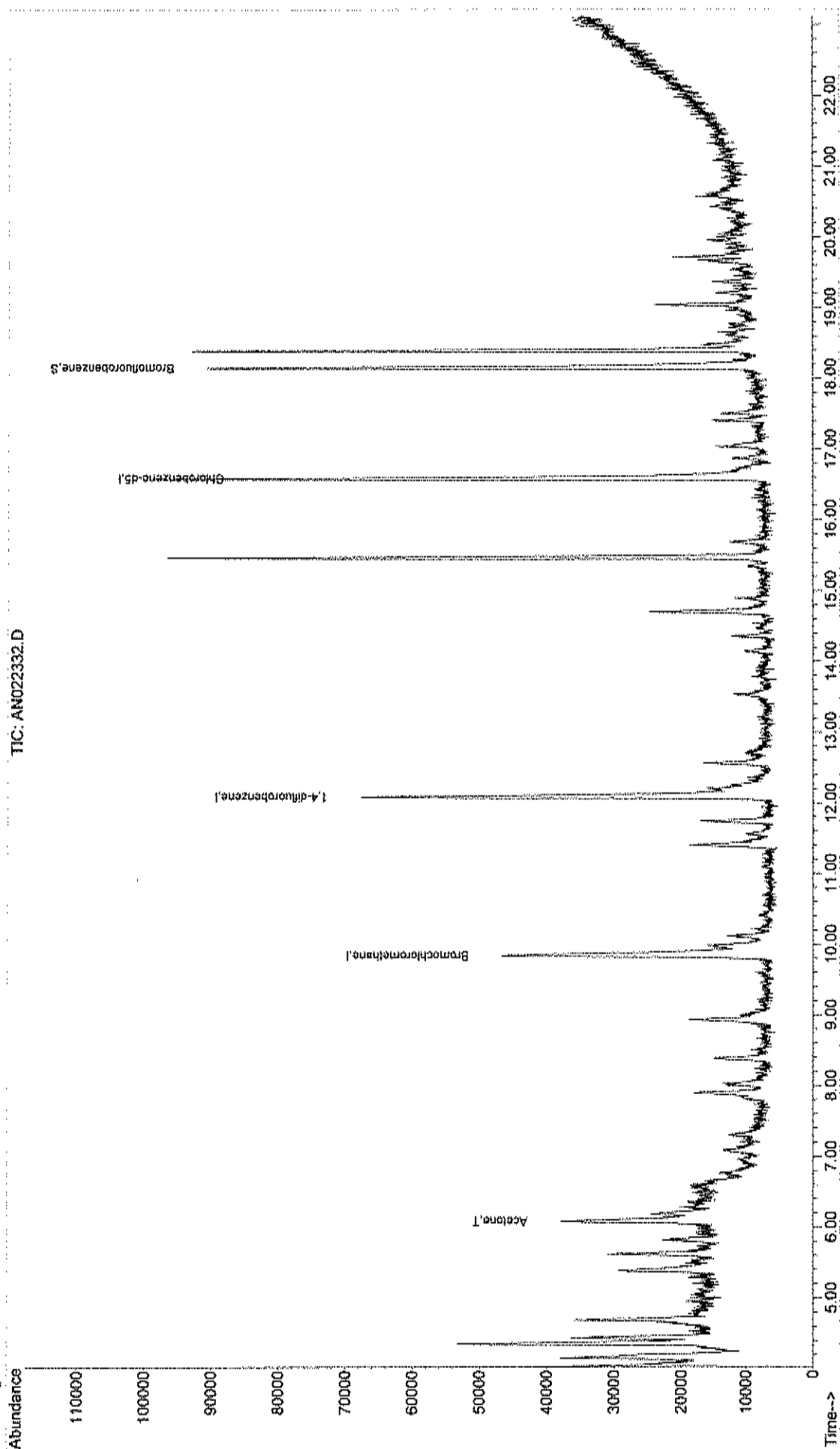
Quantitation Report (QT Reviewed)

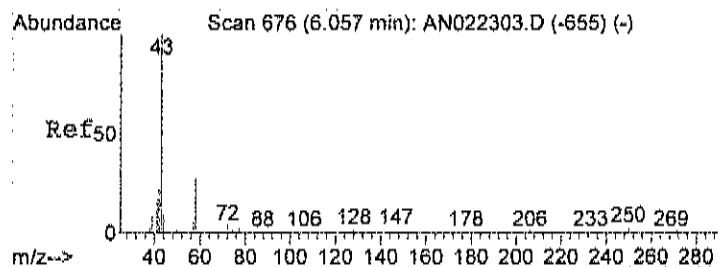
Data File : C:\HPCHEM\1\DATA\AN022332.D
Acq On : 24 Feb 2016 5:44 am
Sample : C1602050-007A 5x
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:23 2016

Vial: 32
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

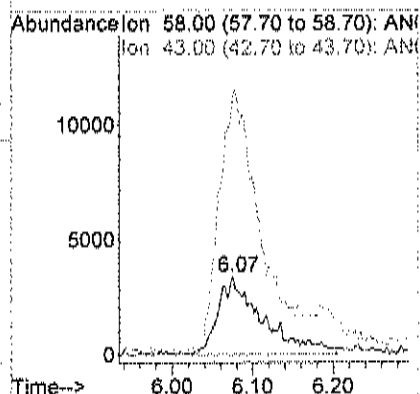
Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration





#15
Acetone
Concen: 1.19 ppb
RT: 6.07 min Scan# 682
Delta R.T. 0.00 min
Lab File: AN022332.D
Acq: 24 Feb 2016 5:44 am

Tgt Ion: 58 Resp: 13117
Ion Ratio Lower Upper
58 100
43 283.9 661.8 721.8#



Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-008A

Client Sample ID: Elevator
 Tag Number: 241,1168
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
			FLD			Analyst:
Lab Vacuum In	-7			"Hg		2/19/2016
Lab Vacuum Out	-30			"Hg		2/19/2016
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC						
			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2,4-Trimethylbenzene	1.3	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,3,5-Trimethylbenzene	0.37	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/24/2016 12:47:00 AM
2,2,4-trimethylpentane	0.33	0.15		ppbV	1	2/24/2016 12:47:00 AM
4-ethyltoluene	0.29	0.15		ppbV	1	2/24/2016 12:47:00 AM
Acetone	7.1	1.5		ppbV	5	2/24/2016 6:20:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Benzene	0.85	0.15		ppbV	1	2/24/2016 12:47:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Bromoform	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Carbon tetrachloride	0.13	0.040		ppbV	1	2/24/2016 12:47:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Chloroform	1.2	0.15		ppbV	1	2/24/2016 12:47:00 AM
Chloromethane	0.53	0.15		ppbV	1	2/24/2016 12:47:00 AM
cis-1,2-Dichloroethene	0.33	0.15		ppbV	1	2/24/2016 12:47:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Cyclohexane	0.33	0.15		ppbV	1	2/24/2016 12:47:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	2/24/2016 12:47:00 AM

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-008A

Client Sample ID: Elevator
 Tag Number: 241,1168
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
Ethylbenzene	0.41	0.15		ppbV	1	2/24/2016 12:47:00 AM
Freon 11	0.36	0.15		ppbV	1	2/24/2016 12:47:00 AM
Freon 113	0.12	0.15	J	ppbV	1	2/24/2016 12:47:00 AM
Freon 114	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Freon 12	0.64	0.15		ppbV	1	2/24/2016 12:47:00 AM
Heptane	0.44	0.15		ppbV	1	2/24/2016 12:47:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Hexane	1.4	0.15		ppbV	1	2/24/2016 12:47:00 AM
Isopropyl alcohol	1.8	0.15		ppbV	1	2/24/2016 12:47:00 AM
m&p-Xylene	1.6	0.30		ppbV	1	2/24/2016 12:47:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/24/2016 12:47:00 AM
Methyl Ethyl Ketone	0.84	0.30		ppbV	1	2/24/2016 12:47:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/24/2016 12:47:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Methylene chloride	0.51	0.15		ppbV	1	2/24/2016 12:47:00 AM
o-Xylene	0.61	0.15		ppbV	1	2/24/2016 12:47:00 AM
Propylene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Styrene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Tetrahydrofuran	1.0	0.15		ppbV	1	2/24/2016 12:47:00 AM
Toluene	2.1	0.75		ppbV	5	2/24/2016 6:20:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Trichloroethene	0.67	0.040		ppbV	1	2/24/2016 12:47:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/24/2016 12:47:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/24/2016 12:47:00 AM
Surr: Bromofluorobenzene	117	70-130		%REC	1	2/24/2016 12:47:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-008A

Client Sample ID: Elevator
 Tag Number: 241,1168
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC			TO-15			Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:47:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/24/2016 12:47:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:47:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:47:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/24/2016 12:47:00 AM
1,2,4-Trimethylbenzene	6.4	0.74		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/24/2016 12:47:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/24/2016 12:47:00 AM
1,3,5-Trimethylbenzene	1.8	0.74		ug/m3	1	2/24/2016 12:47:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/24/2016 12:47:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/24/2016 12:47:00 AM
2,2,4-trimethylpentane	1.5	0.70		ug/m3	1	2/24/2016 12:47:00 AM
4-ethyltoluene	1.4	0.74		ug/m3	1	2/24/2016 12:47:00 AM
Acetone	17	3.6		ug/m3	5	2/24/2016 6:20:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/24/2016 12:47:00 AM
Benzene	2.7	0.48		ug/m3	1	2/24/2016 12:47:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/24/2016 12:47:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/24/2016 12:47:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/24/2016 12:47:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/24/2016 12:47:00 AM
Carbon tetrachloride	0.82	0.25		ug/m3	1	2/24/2016 12:47:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/24/2016 12:47:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/24/2016 12:47:00 AM
Chloroform	6.1	0.73		ug/m3	1	2/24/2016 12:47:00 AM
Chloromethane	1.1	0.31		ug/m3	1	2/24/2016 12:47:00 AM
cis-1,2-Dichloroethene	1.3	0.59		ug/m3	1	2/24/2016 12:47:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:47:00 AM
Cyclohexane	1.1	0.52		ug/m3	1	2/24/2016 12:47:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/24/2016 12:47:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	2/24/2016 12:47:00 AM
Ethylbenzene	1.8	0.65		ug/m3	1	2/24/2016 12:47:00 AM
Freon 11	2.0	0.84		ug/m3	1	2/24/2016 12:47:00 AM
Freon 113	0.92	1.1	J	ug/m3	1	2/24/2016 12:47:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 03-Mar-16

CLIENT: LaBella Associates, P.C.
 Lab Order: C1602050
 Project: 690 St Paul
 Lab ID: C1602050-008A

Client Sample ID: Elevator
 Tag Number: 241,1168
 Collection Date: 2/17/2016
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15		Analyst: RJP		
Freon 12	3.2	0.74		ug/m3	1	2/24/2016 12:47:00 AM
Heptane	1.8	0.61		ug/m3	1	2/24/2016 12:47:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/24/2016 12:47:00 AM
Hexane	5.0	0.53		ug/m3	1	2/24/2016 12:47:00 AM
Isopropyl alcohol	4.3	0.37		ug/m3	1	2/24/2016 12:47:00 AM
m&p-Xylene	6.7	1.3		ug/m3	1	2/24/2016 12:47:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:47:00 AM
Methyl Ethyl Ketone	2.5	0.88		ug/m3	1	2/24/2016 12:47:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/24/2016 12:47:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/24/2016 12:47:00 AM
Methylene chloride	1.8	0.52		ug/m3	1	2/24/2016 12:47:00 AM
o-Xylene	2.6	0.65		ug/m3	1	2/24/2016 12:47:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/24/2016 12:47:00 AM
Styrene	< 0.64	0.64		ug/m3	1	2/24/2016 12:47:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/24/2016 12:47:00 AM
Tetrahydrofuran	3.0	0.44		ug/m3	1	2/24/2016 12:47:00 AM
Toluene	7.9	2.8		ug/m3	5	2/24/2016 6:20:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/24/2016 12:47:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/24/2016 12:47:00 AM
Trichloroethene	3.6	0.21		ug/m3	1	2/24/2016 12:47:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/24/2016 12:47:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/24/2016 12:47:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/24/2016 12:47:00 AM

Qualifiers: ** Reporting Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Value above quantitation range
 J Analyte detected at or below quantitation limits
 ND Not Detected at the Reporting Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022324.D

Vial: 24

Acq On : 24 Feb 2016 12:47 am

Operator: RJP

Sample : C1602050-008A

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:54 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	29649	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.08	114	104381	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.57	117	82375	1.00	ppb	-0.01

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	65725	1.17	ppb	-0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	117.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	4.20	85	83060	0.64	ppb	99
4) Chloromethane	4.40	50	20617	0.53	ppb	92
14) Freon 11	5.81	101	47127	0.36	ppb	98
15) Acetone	6.04	58	85177	6.79	ppb	# 15
17) Isopropyl alcohol	6.16	45	63956	1.77	ppb	# 46
19) Freon 113	6.75	101	10080	0.12	ppb	94
21) Methylene chloride	7.06	84	19859	0.51	ppb	88
28) Methyl Ethyl Ketone	8.95	72	16123m	0.84	ppb	
29) cis-1,2-dichloroethene	9.37	61	18251	0.33	ppb	89
30) Hexane	8.91	57	91750	1.42	ppb	97
32) Chloroform	9.96	83	119767	1.25	ppb	97
33) Tetrahydrofuran	10.18	42	45605m	1.02	ppb	
37) Cyclohexane	11.45	56	16449m	0.33	ppb	
38) Carbon tetrachloride	11.40	117	9725	0.13	ppb	96
39) Benzene	11.39	78	78389	0.85	ppb	94
42) 2,2,4-trimethylpentane	12.19	57	56019m	0.33	ppb	
43) Heptane	12.55	43	22812	0.44	ppb	86
44) Trichloroethene	12.69	130	28661	0.67	ppb	99
51) Toluene	14.69	92	143280	2.60	ppb	96
59) Ethylbenzene	16.87	91	49413	0.41	ppb	96
60) m&p-xylene	17.03	91	143480	1.55	ppb	94
64) o-xylene	17.50	91	64897	0.61	ppb	90
70) 4-ethyltoluene	18.71	105	35280m	0.29	ppb	
71) 1,3,5-trimethylbenzene	18.76	105	43585m	0.37	ppb	
72) 1,2,4-trimethylbenzene	19.20	105	131759	1.30	ppb	93

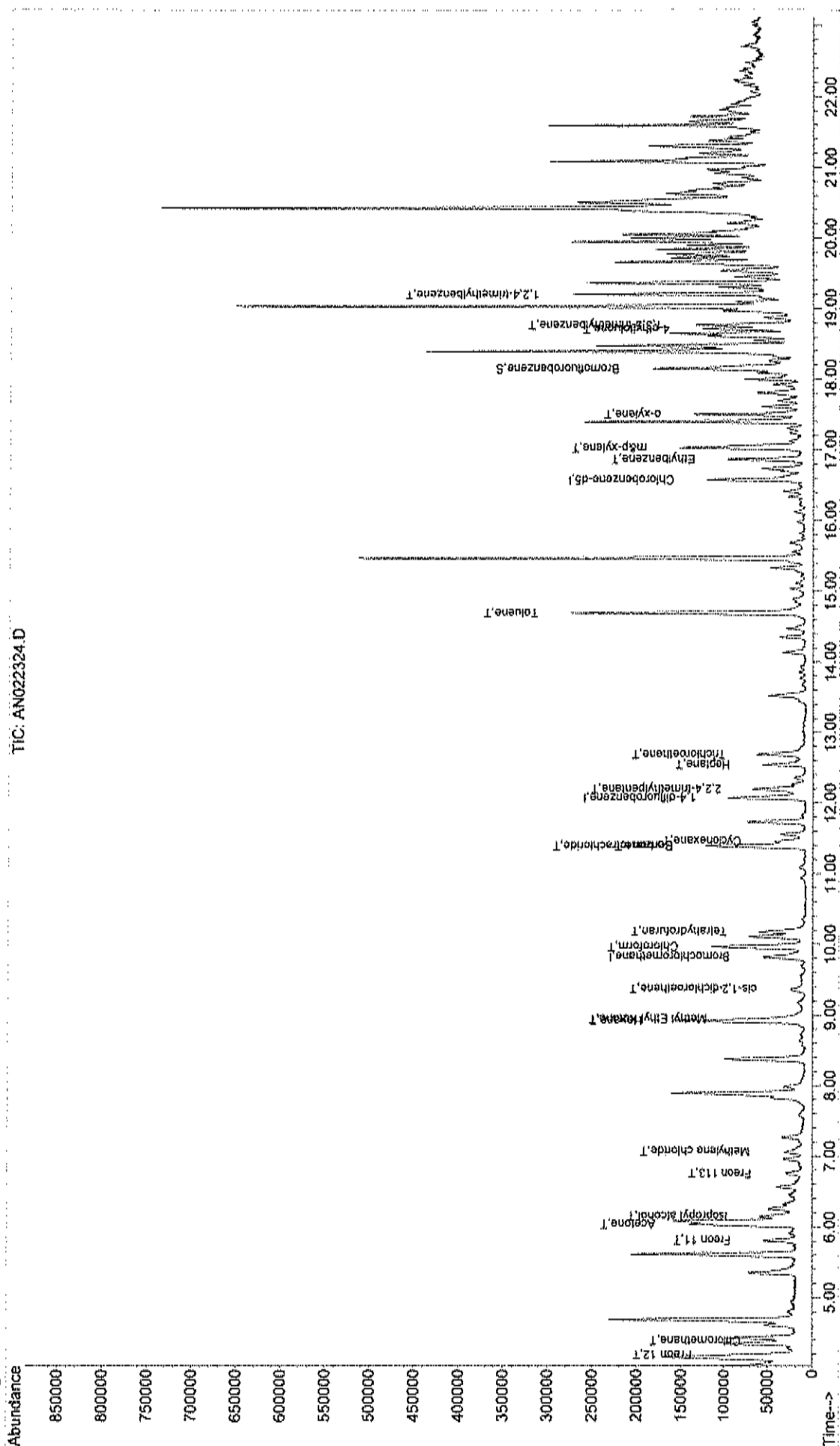
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN022324.D A204_1UG.M Thu Mar 03 11:01:33 2016 MSD1

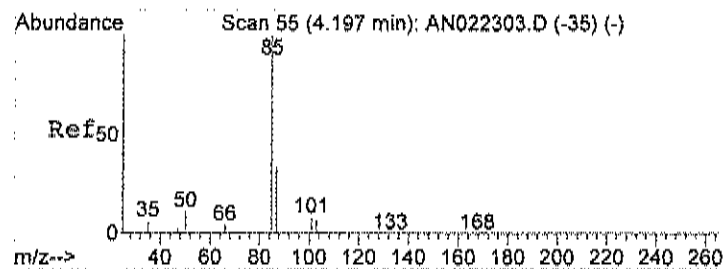
Data File : C:\HPCHEM\1\DATA\AN022324.D
Acq On : 24 Feb 2016 12:47 am
Sample : C1602050-008A
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:15 2016

Vial: 24
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

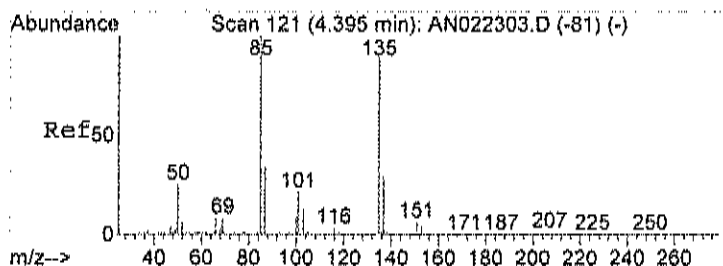
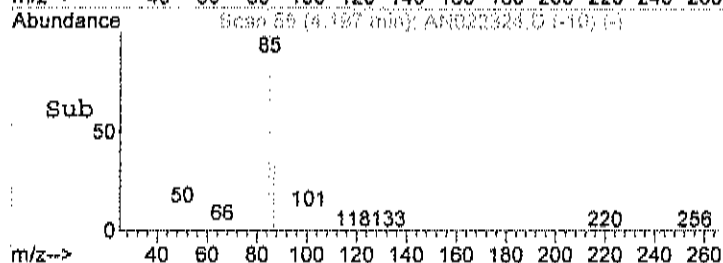
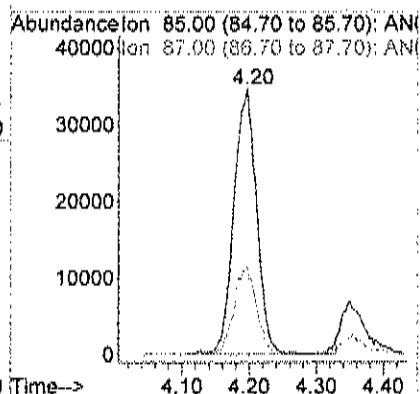
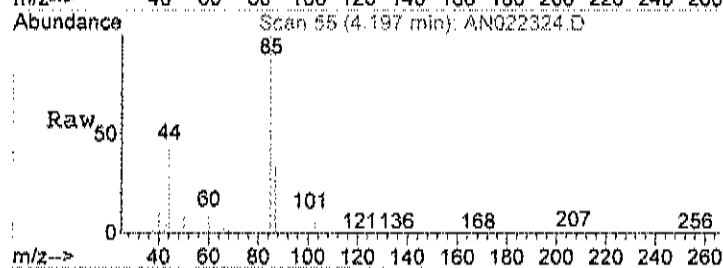
Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration





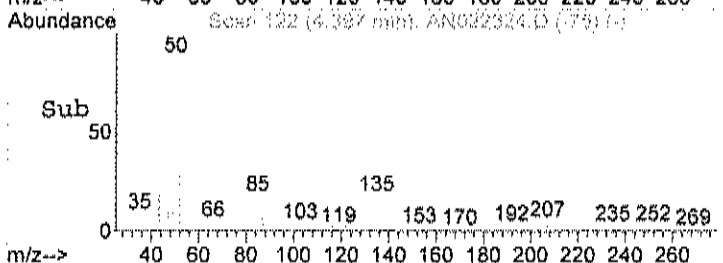
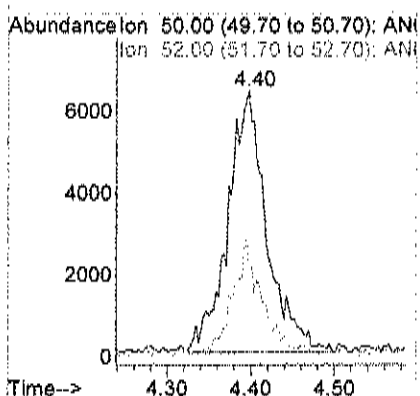
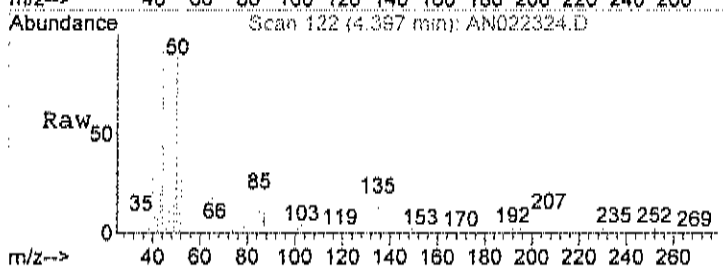
#3
 Freon 12
 Concen: 0.64 ppb
 RT: 4.20 min Scan# 55
 Delta R.T. -0.01 min
 Lab File: AN022324.D
 Acq: 24 Feb 2016 12:47 am

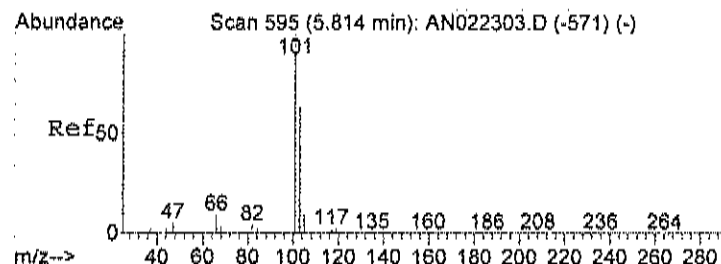
Tgt Ion: 85 Resp: 83060
 Ion Ratio Lower Upper
 85 100
 87 32.1 12.5 52.5



#4
 Chloromethane
 Concen: 0.53 ppb
 RT: 4.40 min Scan# 122
 Delta R.T. -0.01 min
 Lab File: AN022324.D
 Acq: 24 Feb 2016 12:47 am

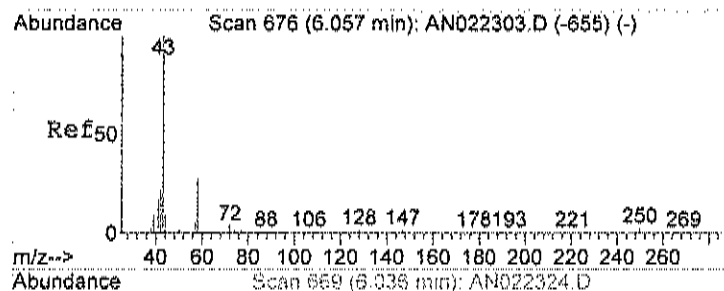
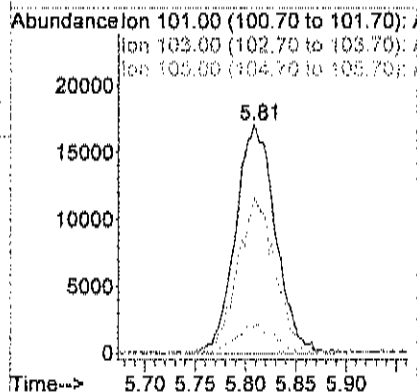
Tgt Ion: 50 Resp: 20617
 Ion Ratio Lower Upper
 50 100
 52 33.2 9.2 49.2





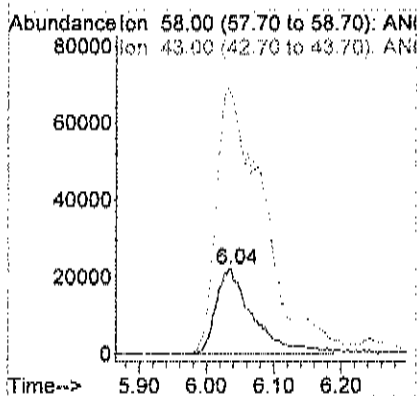
#14
Freon 11
Concen: 0.36 ppb
RT: 5.81 min Scan# 593
Delta R.T. -0.02 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

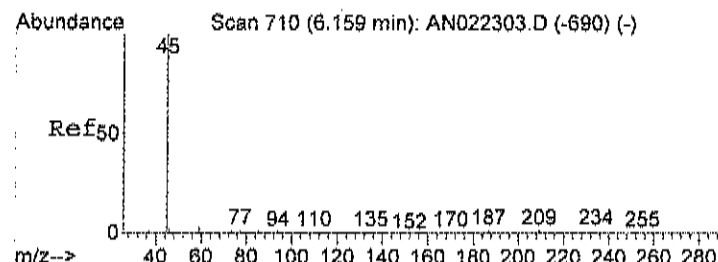
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.8	44.6	84.6
105	13.3	0.0	31.6



#15
Acetone
Concen: 6.79 ppb
RT: 6.04 min Scan# 669
Delta R.T. -0.04 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

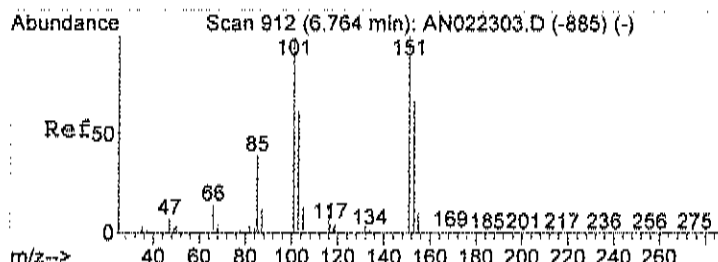
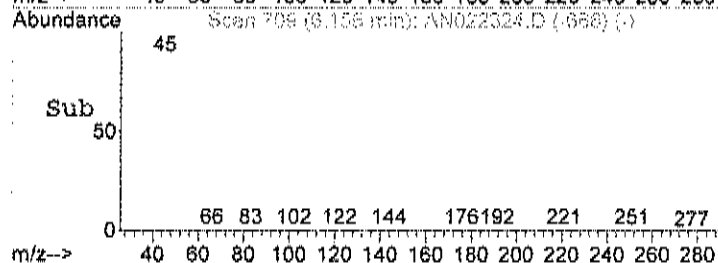
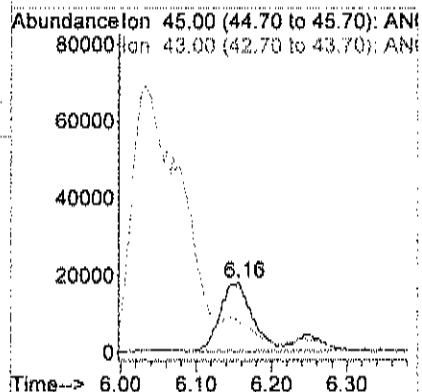
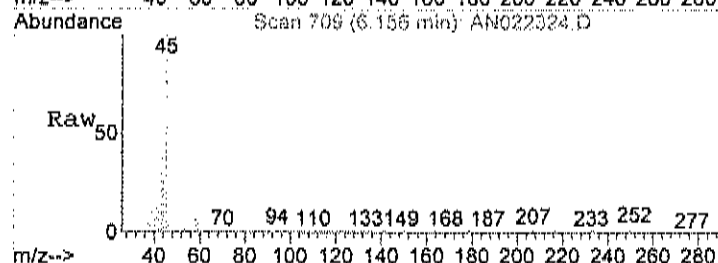
Tgt Ion	Ratio	Lower	Upper
58	100		
43	399.4	661.8	721.8#





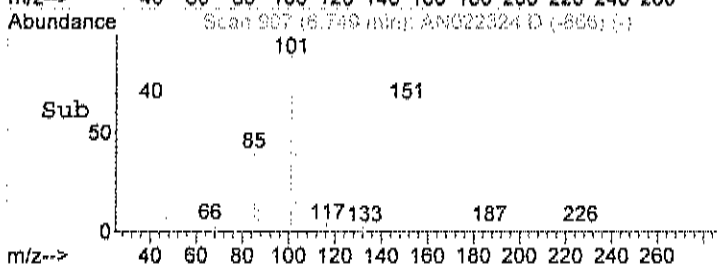
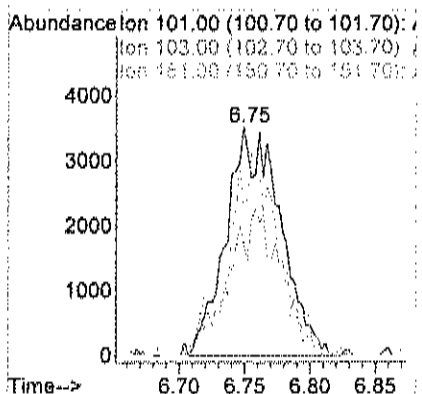
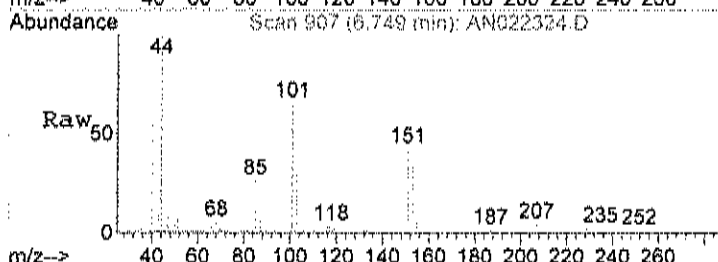
#17
Isopropyl alcohol
Concen: 1.77 ppb
RT: 6.16 min Scan# 709
Delta R.T. -0.02 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

Tgt Ion	Ratio	Lower	Upper
45	100		
43	0.0	8.9	48.9#

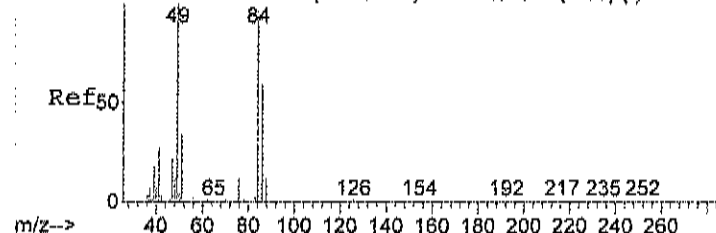


#19
Freon 113
Concen: 0.12 ppb
RT: 6.75 min Scan# 907
Delta R.T. -0.03 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

Tgt Ion	Ratio	Lower	Upper
101	100		
103	62.2	42.5	82.5
151	81.0	70.9	110.9



Abundance Scan 1010 (7.058 min): AN022303.D (-990) (-)



#21

Methylene chloride

Concen: 0.51 ppb

RT: 7.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: AN022324.D

Acq: 24 Feb 2016 12:47 am

Tgt Ion: 84 Resp: 19859

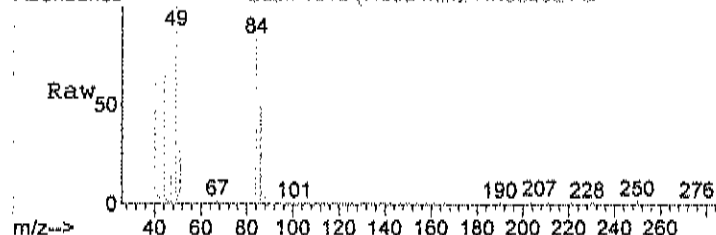
Ion Ratio Lower Upper

84 100

49 123.5 87.8 127.8

86 67.4 43.1 83.1

Abundance Scan 1010 (7.058 min): AN022324.D



Abundance Ion 84.00 (83.70 to 84.70): AN

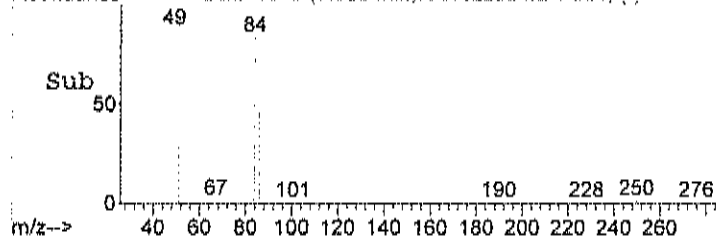
Ion 49.00 (48.70 to 49.70): AN

Ion 86.00 (85.70 to 86.70): AN

Time-->

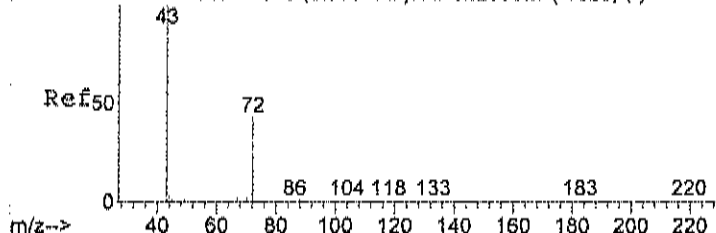
7.00 7.10 7.20

Abundance Scan 1010 (7.058 min): AN022324.D (-994) (-)



Time-->

Abundance Scan 1646 (8.963 min): AN022303.D (-1625) (-)



#28

Methyl Ethyl Ketone

Concen: 0.84 ppb m

RT: 8.95 min Scan# 1641

Delta R.T. -0.03 min

Lab File: AN022324.D

Acq: 24 Feb 2016 12:47 am

Tgt Ion: 72 Resp: 16123

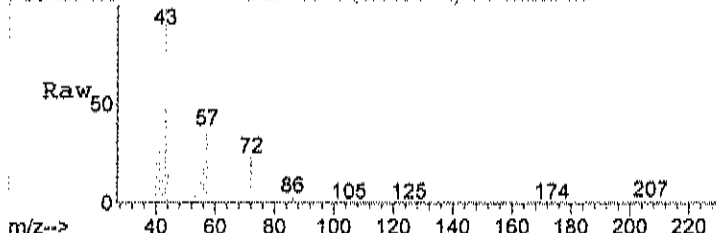
Ion Ratio Lower Upper

72 100

43 0.0 0.0 20.0

72 114.5 80.0 120.0

Abundance Scan 1641 (8.948 min): AN022324.D



Abundance Ion 72.00 (71.70 to 72.70): AN

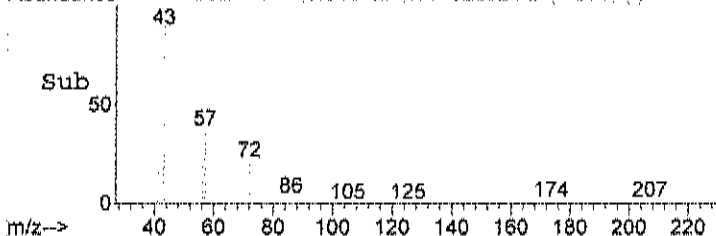
Ion 43.00 (42.70 to 43.70): AN

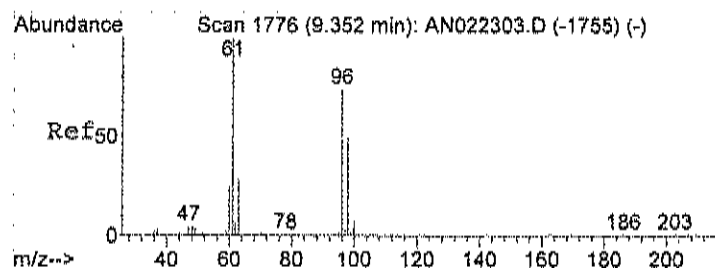
Ion 72.00 (71.70 to 72.70): AN

Time-->

8.90 9.00 9.10

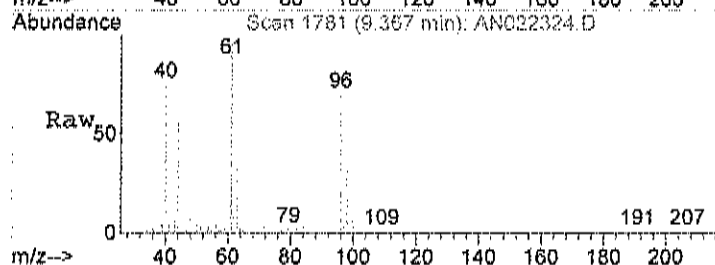
Abundance Scan 1641 (8.948 min): AN022324.D (-1601) (-)





#29
cis-1,2-dichloroethene
Concen: 0.33 ppb
RT: 9.37 min Scan# 1781
Delta R.T. -0.00 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

Tgt Ion	Ratio	Lower	Upper
61	100		
96	81.7	51.2	91.2
98	49.3	23.7	63.7

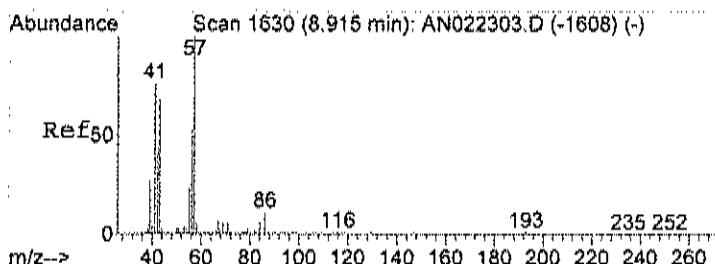
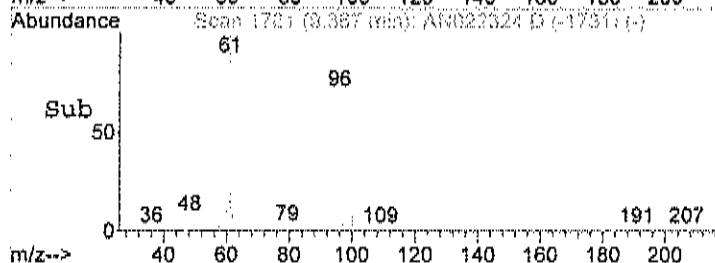
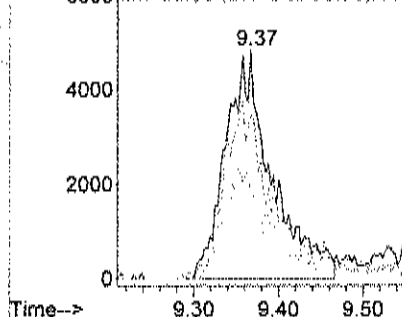


Abundance

Ion 61.00 (60.70 to 61.70): ANI

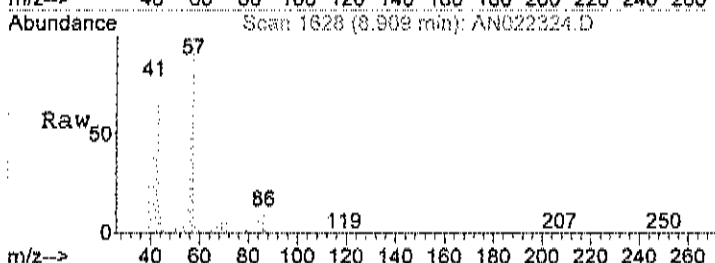
Ion 96.00 (95.70 to 96.70): ANI

Ion 98.00 (97.70 to 98.70): ANI



#30
Hexane
Concen: 1.42 ppb
RT: 8.91 min Scan# 1628
Delta R.T. -0.02 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.9	66.6	106.6
56	56.2	30.6	70.6

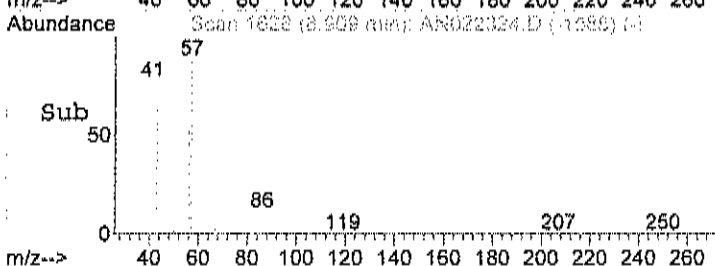
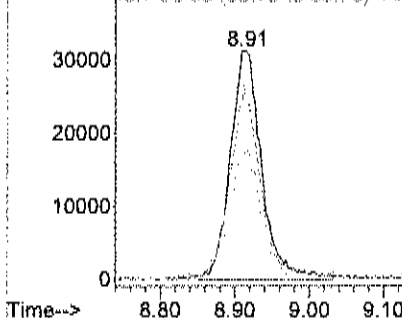


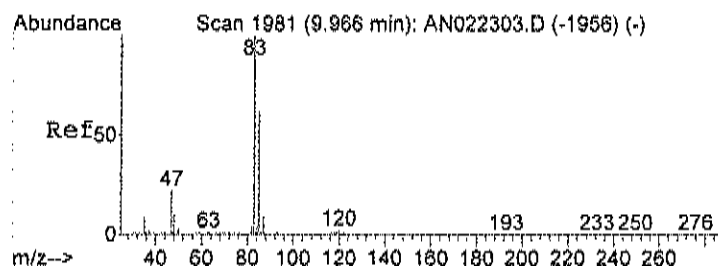
Abundance

Ion 57.00 (56.70 to 57.70): ANI

Ion 41.00 (40.70 to 41.70): ANI

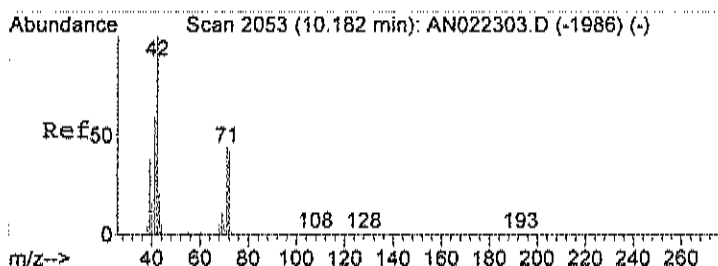
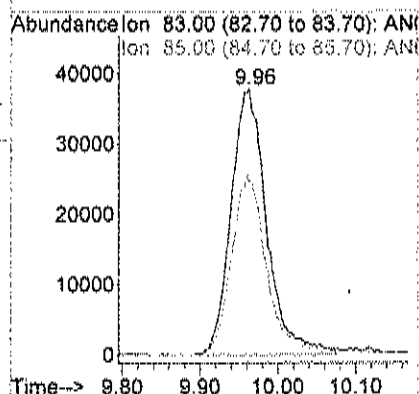
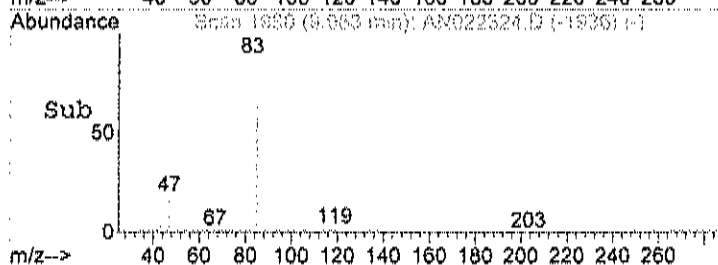
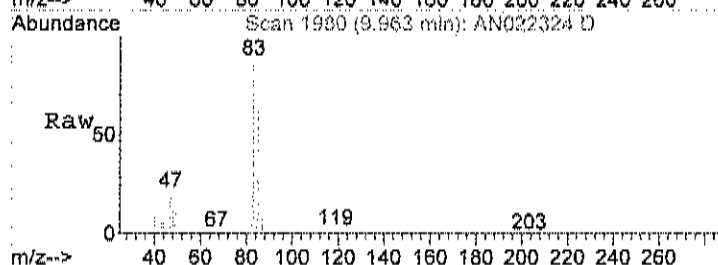
Ion 56.00 (55.70 to 56.70): ANI





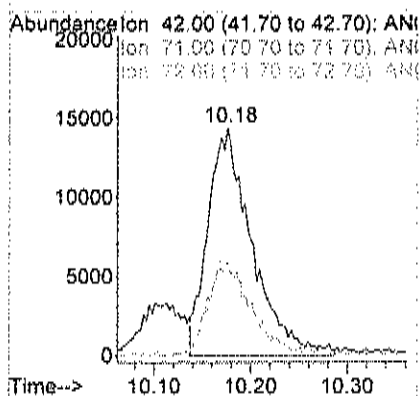
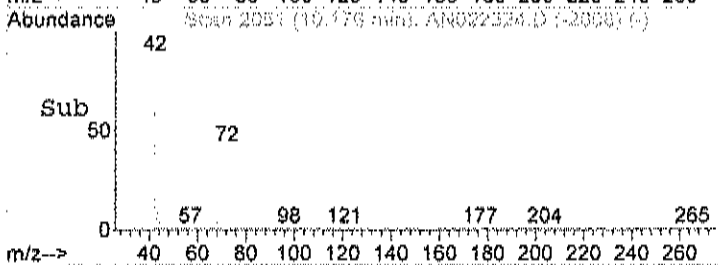
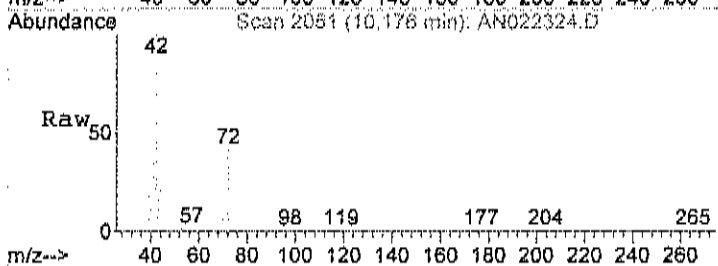
#32
Chloroform
Concen: 1.25 ppb
RT: 9.96 min Scan# 1980
Delta R.T. -0.02 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

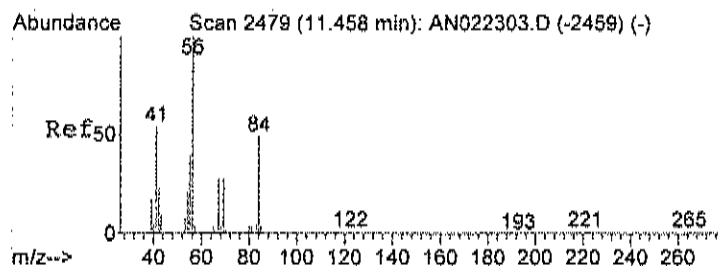
Tgt Ion: 83 Resp: 119767
Ion Ratio Lower Upper
83 100
85 66.2 43.9 83.9



#33
Tetrahydrofuran
Concen: 1.02 ppb m
RT: 10.18 min Scan# 2051
Delta R.T. -0.02 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

Tgt Ion: 42 Resp: 45605
Ion Ratio Lower Upper
42 100
71 41.9 20.0 60.0
72 41.1 19.1 59.1

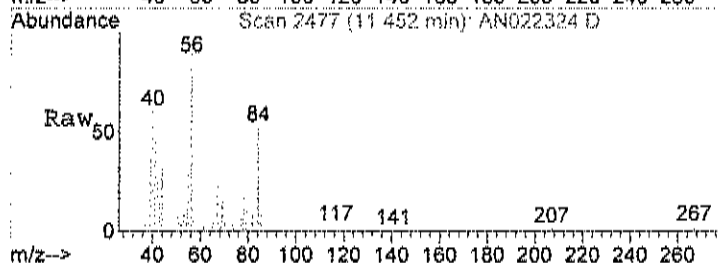




#37
Cyclohexane
Concen: 0.33 ppb m
RT: 11.45 min Scan# 2477
Delta R.T. -0.01 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

Tgt Ion: 56 Resp: 16449

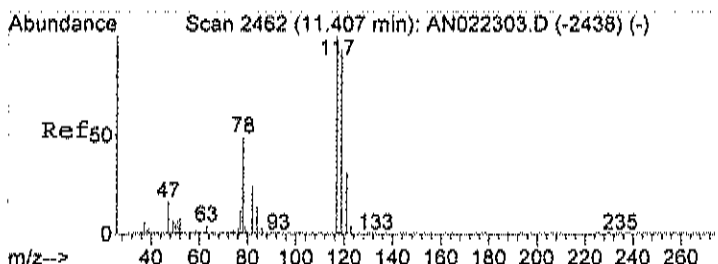
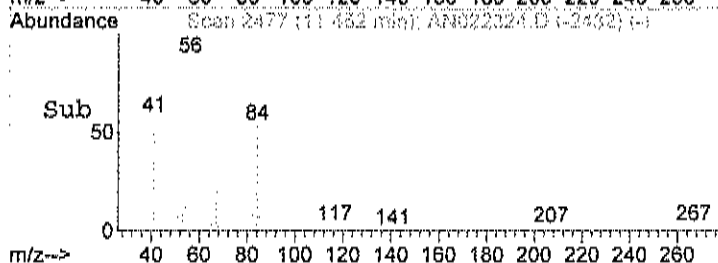
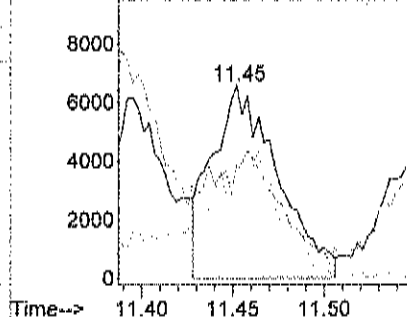
Ion	Ratio	Lower	Upper
56	100		
41	0.0	47.3	87.3#
84	94.7	88.1	128.1



Abundance Ion 56.00 (55.70 to 56.70): AN022324.D

Ion 41.00 (40.70 to 41.70): AN022324.D

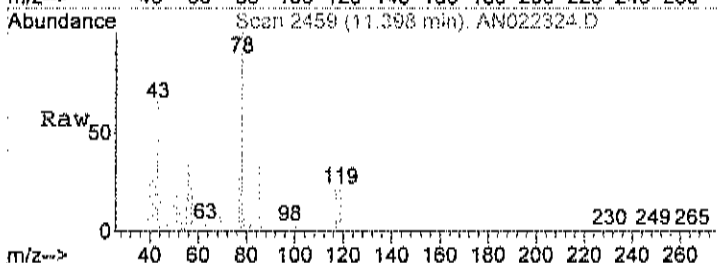
Ion 84.00 (83.70 to 84.70): AN022324.D



#38
Carbon tetrachloride
Concen: 0.13 ppb
RT: 11.40 min Scan# 2459
Delta R.T. -0.02 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

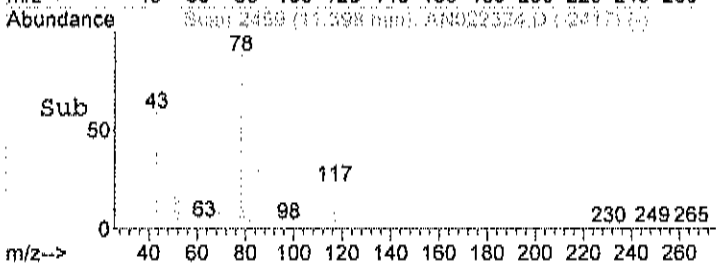
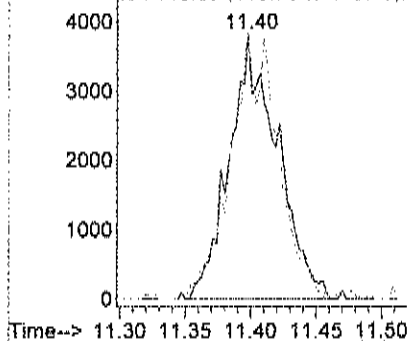
Tgt Ion: 117 Resp: 9725

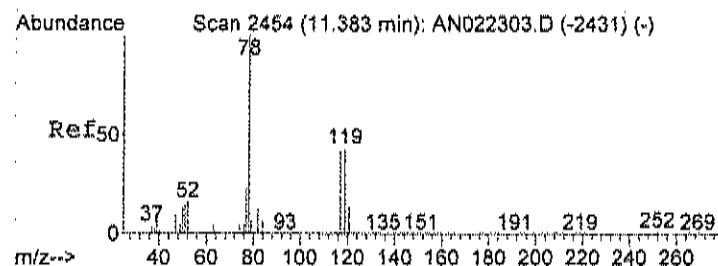
Ion	Ratio	Lower	Upper
117	100		
119	98.8	74.5	114.5



Abundance Ion 117.00 (116.70 to 117.70): AN022324.D

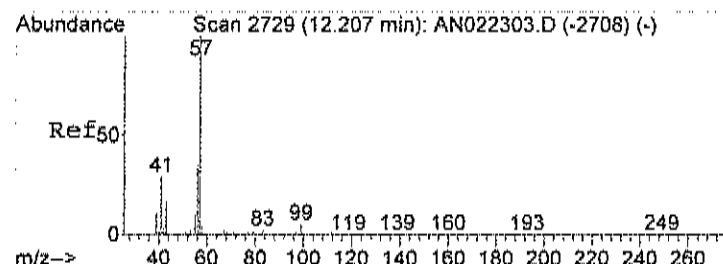
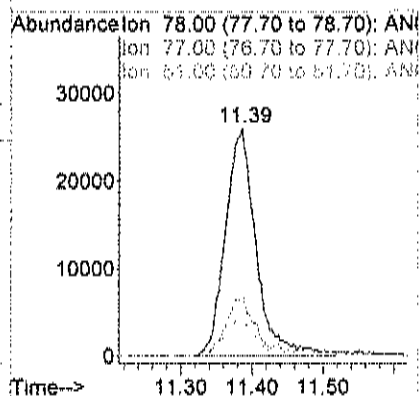
Ion 119.00 (118.70 to 119.70): AN022324.D





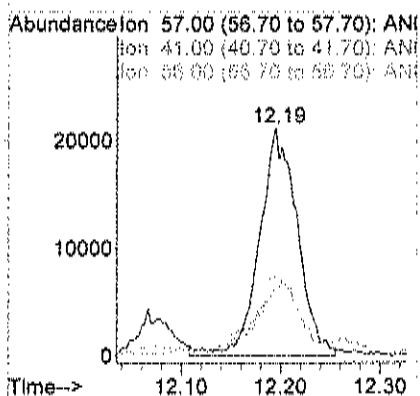
#39
Benzene
Concen: 0.85 ppb
RT: 11.39 min Scan# 2455
Delta R.T. -0.01 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

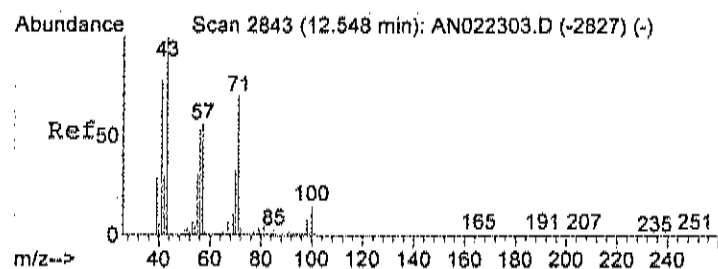
Tgt Ion	Ratio	Lower	Upper
78	100		
77	28.5	6.0	46.0
51	18.7	2.1	42.1



#42
2,2,4-trimethylpentane
Concen: 0.33 ppb m
RT: 12.19 min Scan# 2725
Delta R.T. -0.02 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

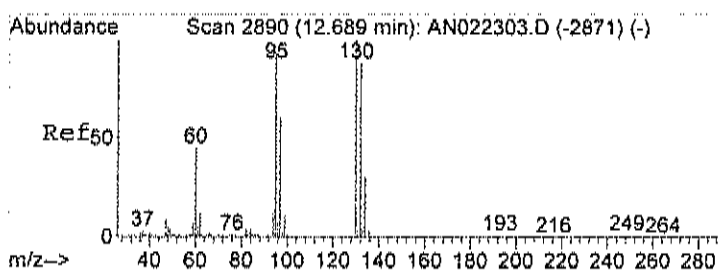
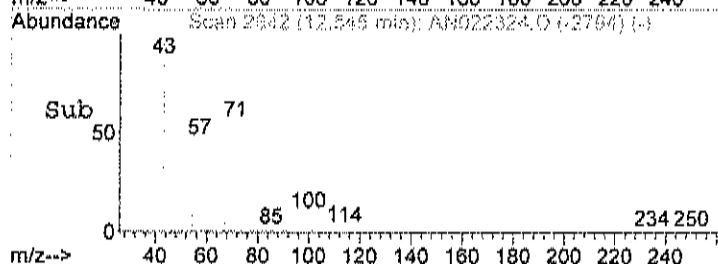
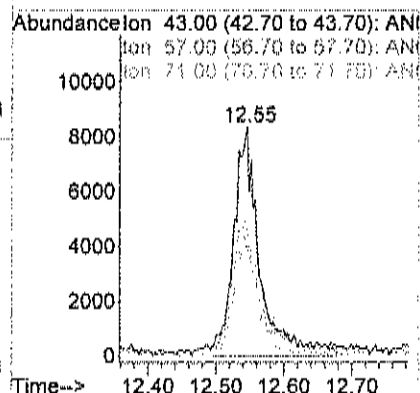
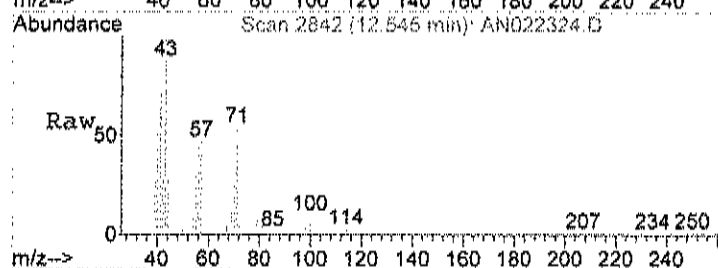
Tgt Ion	Ratio	Lower	Upper
57	100		
41	42.7	14.1	54.1
56	48.3	11.4	51.4





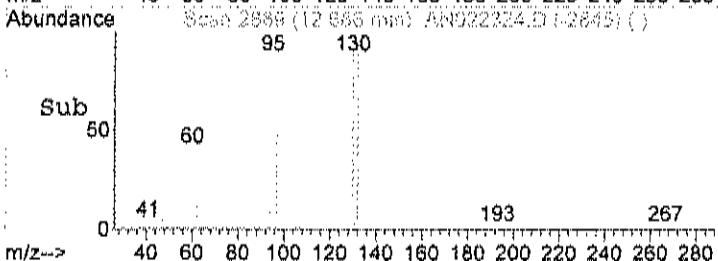
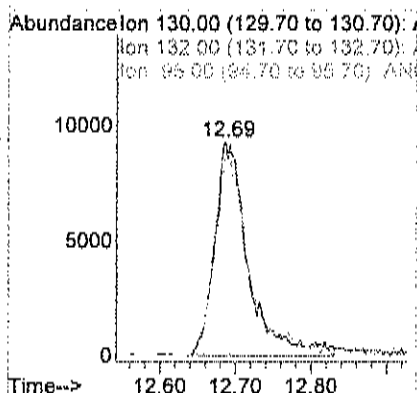
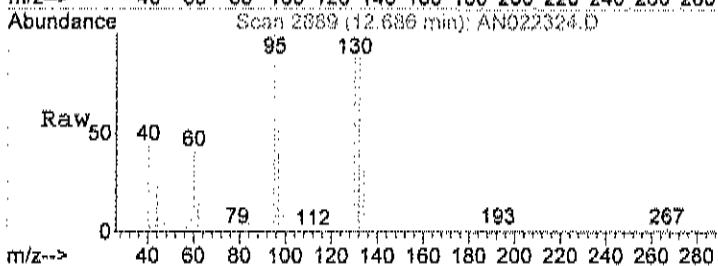
#43
Heptane
Concen: 0.44 ppb
RT: 12.55 min Scan# 2842
Delta R.T. -0.01 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

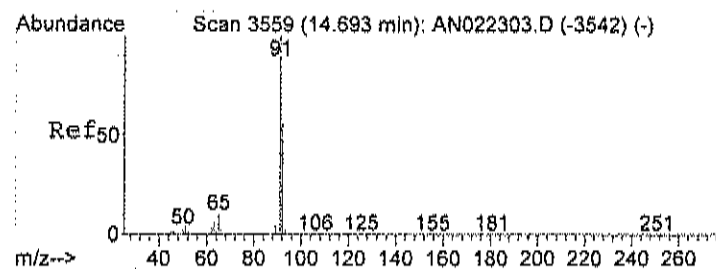
Tgt Ion	Ratio	Lower	Upper
43	100		
57	65.8	31.3	71.3
71	49.2	34.8	74.8



#44
Trichloroethene
Concen: 0.67 ppb
RT: 12.69 min Scan# 2889
Delta R.T. -0.02 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

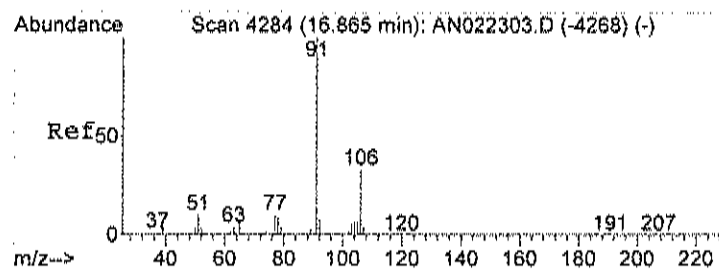
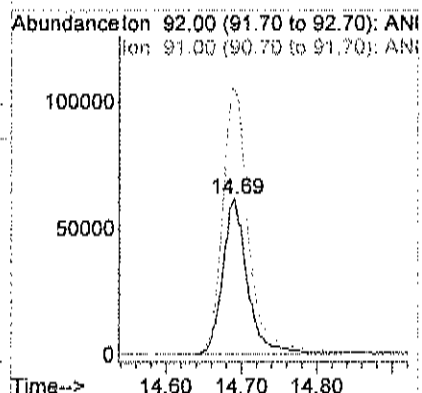
Tgt Ion	Ratio	Lower	Upper
130	100		
132	95.2	76.1	116.1
95	104.9	85.0	125.0





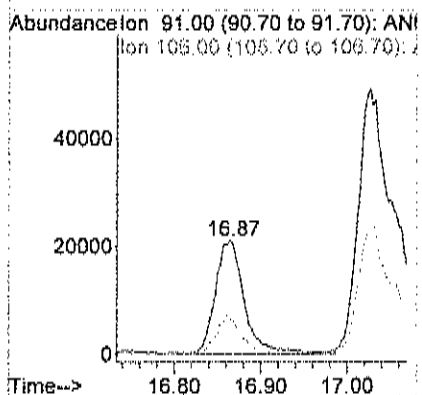
#51
Toluene
Concen: 2.60 ppb
RT: 14.69 min Scan# 3558
Delta R.T. -0.01 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

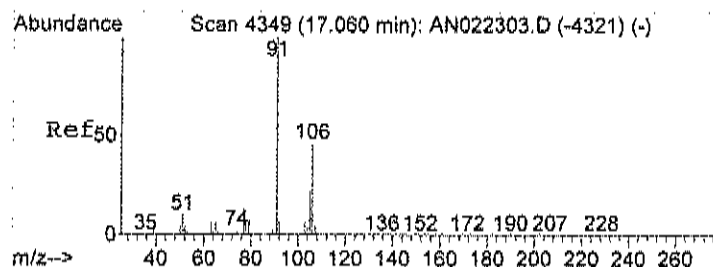
Tgt Ion:	92	Resp:	143280
Ion	Ratio	Lower	Upper
92	100		
91	178.6	152.5	192.5



#59
Ethylbenzene
Concen: 0.41 ppb
RT: 16.87 min Scan# 4284
Delta R.T. -0.01 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

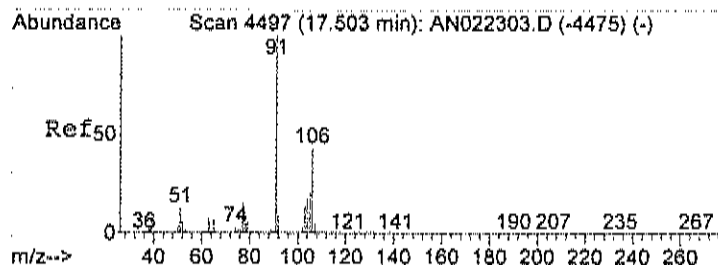
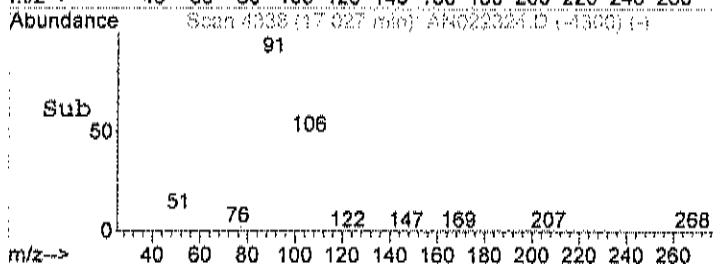
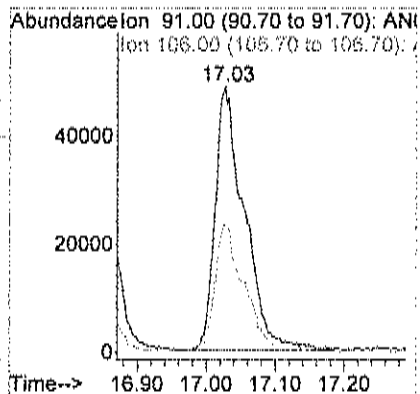
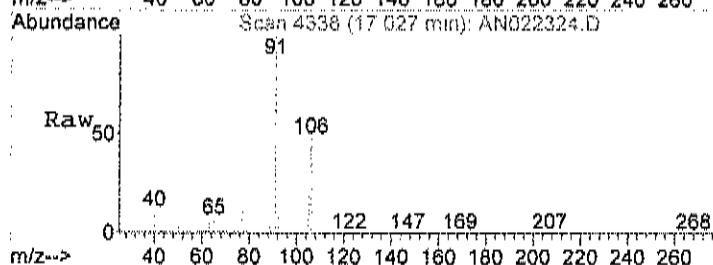
Tgt Ion:	91	Resp:	49413
Ion	Ratio	Lower	Upper
91	100		
106	32.0	9.9	49.9





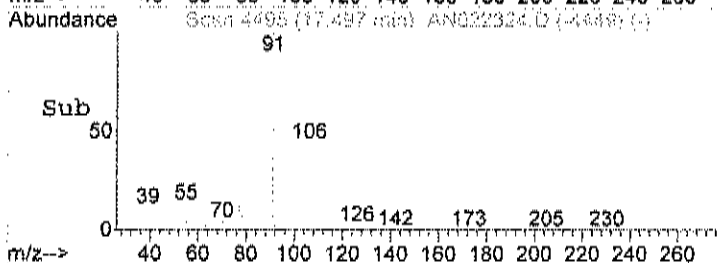
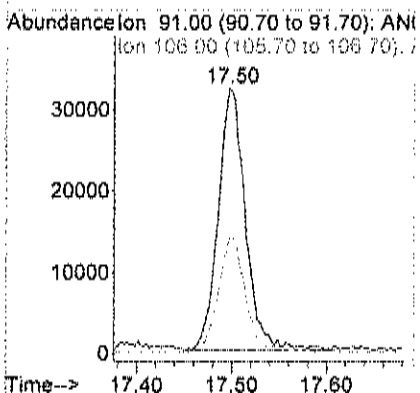
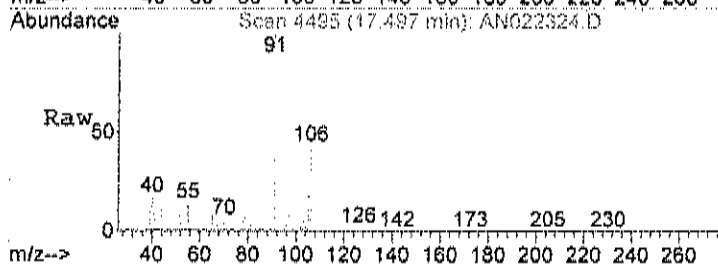
#60
m&p-xylene
Concen: 1.55 ppb
RT: 17.03 min Scan# 4338
Delta R.T. -0.04 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

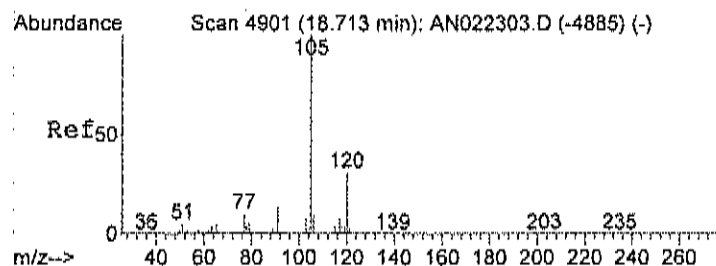
Tgt Ion: 91 Resp: 143480
Ion Ratio Lower Upper
91 100
106 49.2 25.3 65.3



#64
o-xylene
Concen: 0.61 ppb
RT: 17.50 min Scan# 4495
Delta R.T. -0.01 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

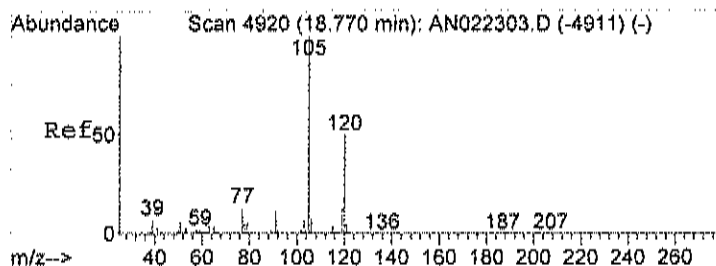
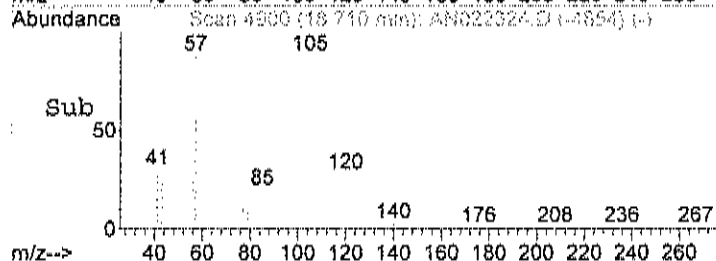
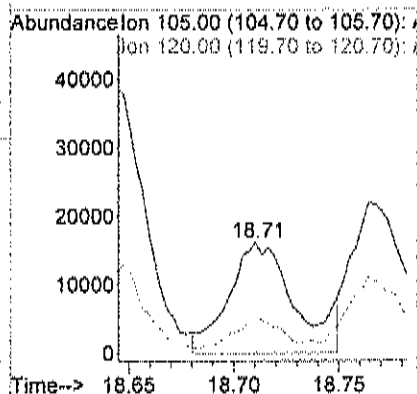
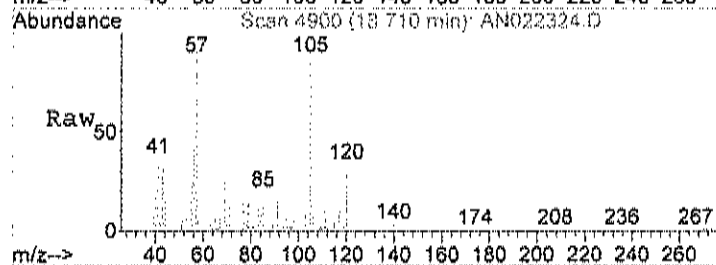
Tgt Ion: 91 Resp: 64897
Ion Ratio Lower Upper
91 100
106 44.2 18.4 58.4





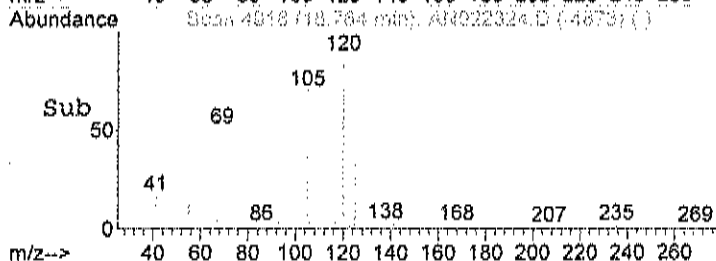
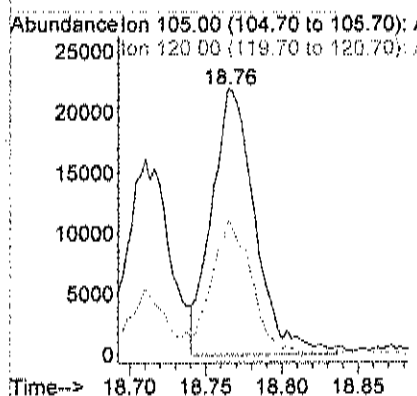
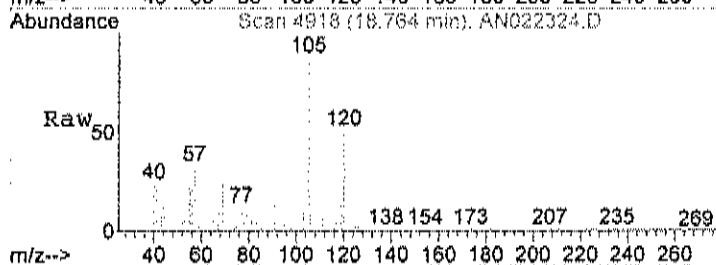
#70
4-ethyltoluene
Concen: 0.29 ppb m
RT: 18.71 min Scan# 4900
Delta R.T. -0.01 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

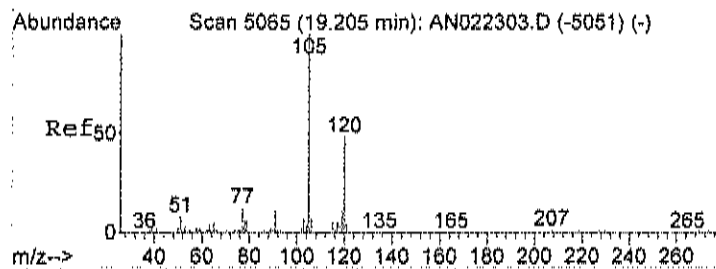
Tgt Ion	105	Ratio	100	Lower	Upper
Resp:	35280				
120	152.7	0.0	20.0#		



#71
1,3,5-trimethylbenzene
Concen: 0.37 ppb m
RT: 18.76 min Scan# 4918
Delta R.T. -0.01 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

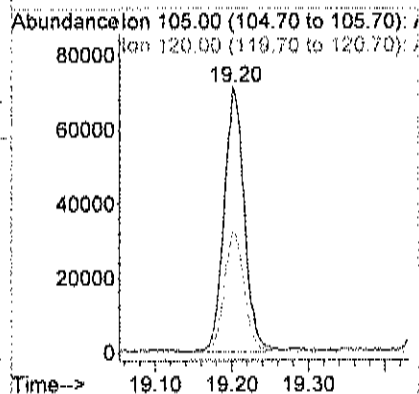
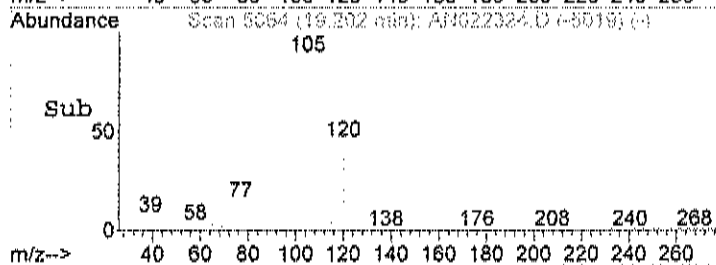
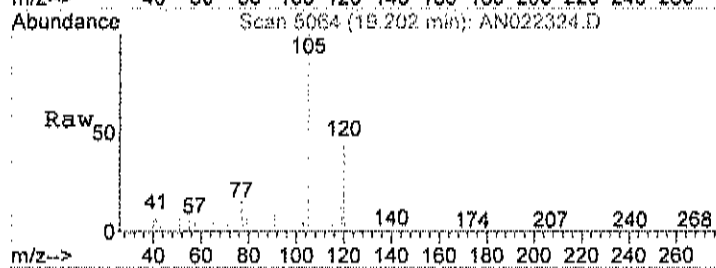
Tgt Ion	105	Ratio	100	Lower	Upper
Resp:	43585				
120	121.4	0.0	20.0#		





#72
1,2,4-trimethylbenzene
Concen: 1.30 ppb
RT: 19.20 min Scan# 5064
Delta R.T. -0.01 min
Lab File: AN022324.D
Acq: 24 Feb 2016 12:47 am

Tgt Ion: 105 Resp: 131759
Ion Ratio Lower Upper
105 100
120 46.5 22.1 62.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022333.D

Vial: 33

Acq On : 24 Feb 2016 6:20 am

Operator: RJP

Sample : C1602050-008A 5x

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:37:03 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.85	128	25846	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.09	114	83470	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	77526	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	43631	0.83	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	83.00%

Target Compounds

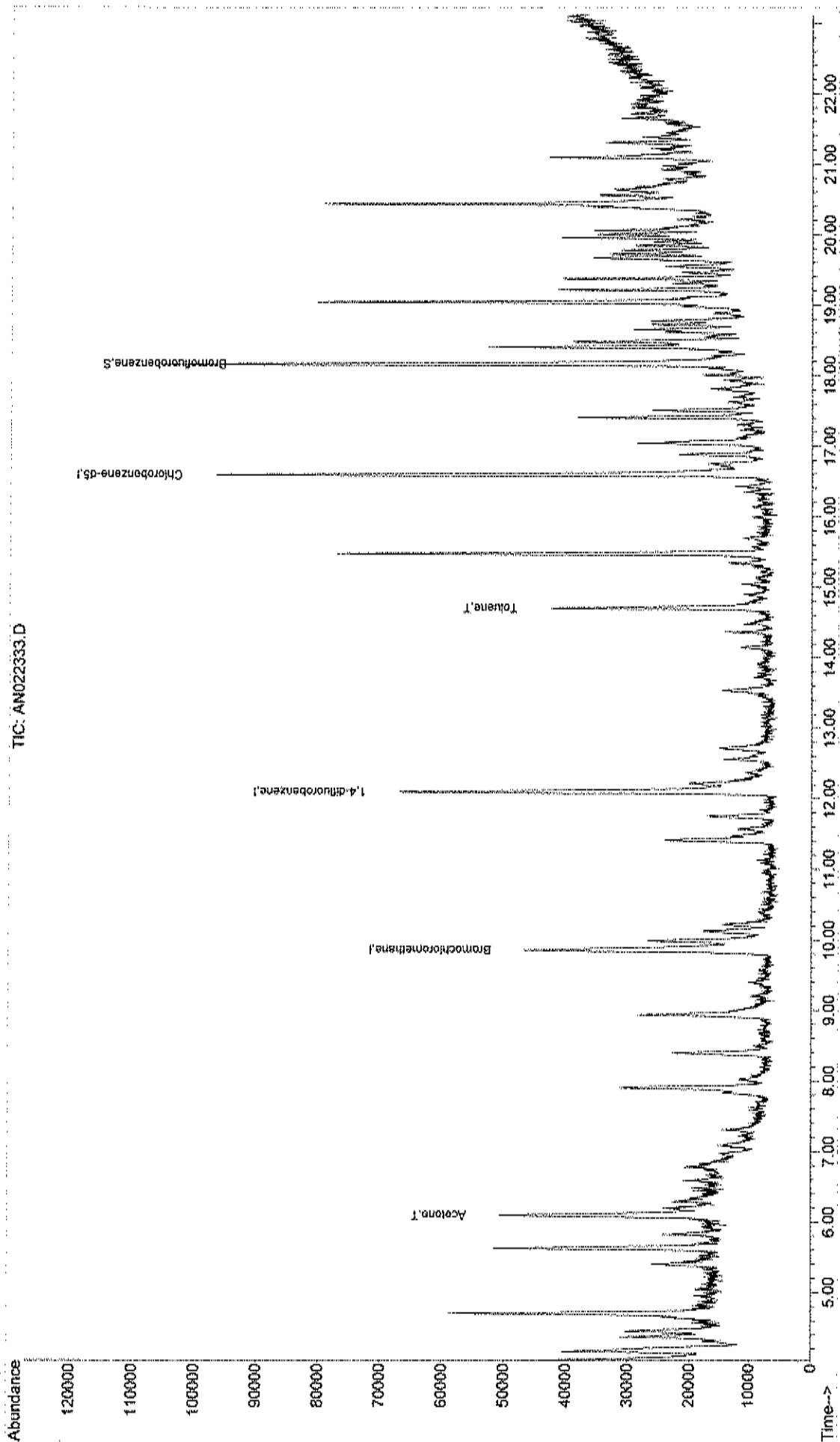
						Qvalue
15) Acetone	6.08	58	15466	1.42	ppb	# 12
51) Toluene	14.71	92	21644	0.42	ppb	100

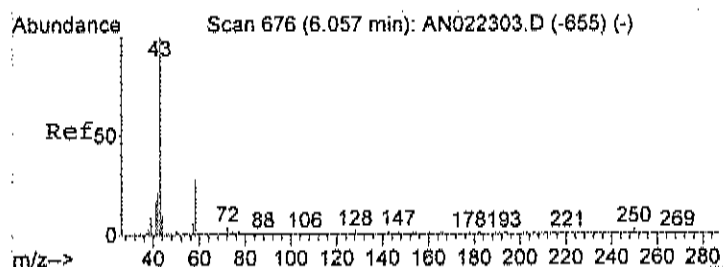
Data File : C:\HPCHEM\1\DATA\AN022333.D
Acq On : 24 Feb 2016 6:20 am
Sample : C1602050-008A 5x
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 26 10:23 2016

Vial: 33
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

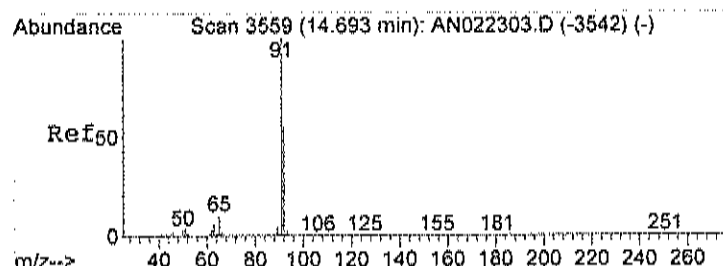
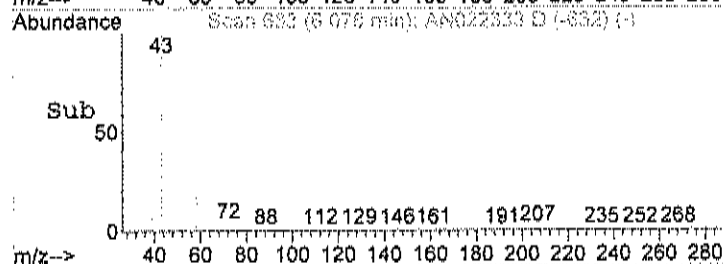
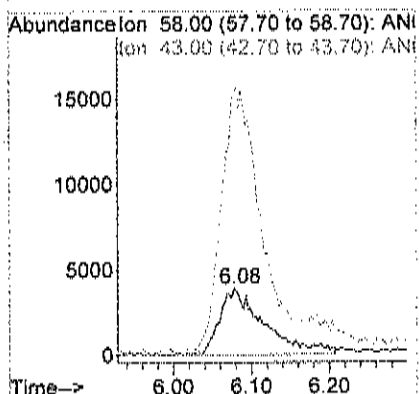
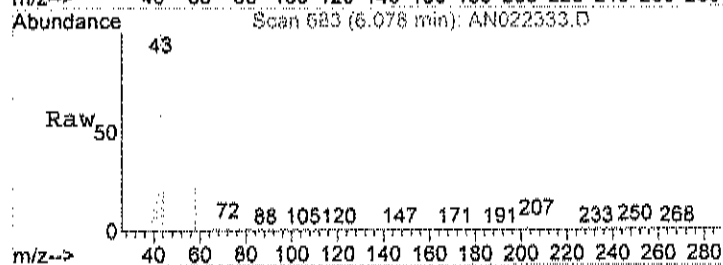
Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration





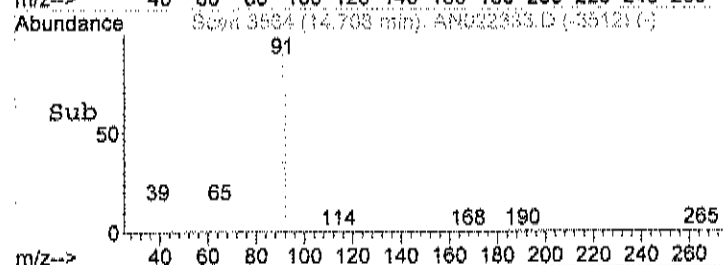
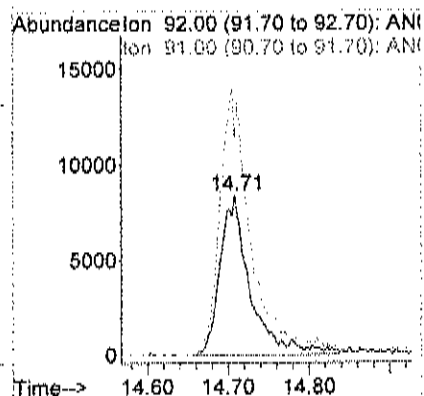
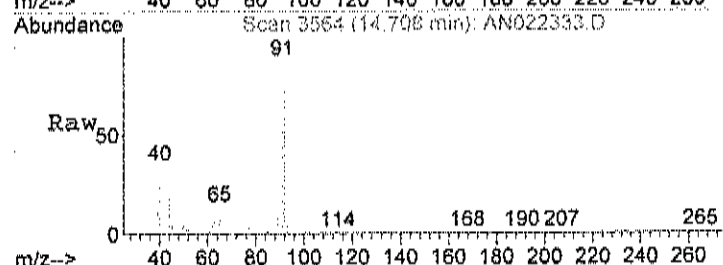
#15
Acetone
Concen: 1.42 ppb
RT: 6.08 min Scan# 683
Delta R.T. 0.00 min
Lab File: AN022333.D
Acq: 24 Feb 2016 6:20 am

Tgt Ion: 58 Resp: 15466
Ion Ratio Lower Upper
58 100
43 389.1 661.8 721.8#



#51
Toluene
Concen: 0.42 ppb
RT: 14.71 min Scan# 3564
Delta R.T. 0.01 min
Lab File: AN022333.D
Acq: 24 Feb 2016 6:20 am

Tgt Ion: 92 Resp: 21644
Ion Ratio Lower Upper
92 100
91 172.5 152.5 192.5



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 03 10:59:01 2016
 Response via : Initial Calibration

Calibration Files

0.04 =AN020412.D 0.15 =AN020410.D 0.30 =AN020409.D
 0.50 =AN020408.D 0.75 =AN020407.D 1.0 =AN020406.D

Compound	0.04	0.15	0.30	0.50	0.75	1.0	Avg	%RSD
1) I Bromochloromethane	-----ISTD-----							
2) T Propylene		1.659	1.455	1.318	1.143	1.160	1.239	17.85
3) T Freon 12		4.827	4.314	4.447	4.223	4.331	4.355	4.79
4) T Chloromethane		1.749	1.488	1.344	1.105	1.358	1.318	16.76
5) T Freon 114		4.087	3.601	3.664	3.360	3.923	3.638	6.95
6) T Vinyl Chloride	1.456	1.207	1.006	0.984	0.921	1.017	1.045	16.99
7) T Butane		1.443	1.355	1.428	1.232	1.329	1.275	10.78
8) T 1,3-butadiene		1.040	0.919	0.890	0.870	0.910	0.889	8.22
9) T Bromomethane		1.456	1.237	1.320	1.074	1.132	1.193	11.33
10) T Chloroethane		0.526	0.400	0.413	0.397	0.406	0.418	10.55
11) T Ethanol		0.250	0.305	0.222	0.231	0.256	0.256	11.72
12) T Acrolein		0.279	0.390	0.336	0.310	0.293	0.310	12.03
13) T Vinyl Bromide		1.330	1.234	1.213	1.166	1.189	1.197	5.25
14) T Freon 11		4.975	4.414	4.354	4.187	4.327	4.372	5.84
15) T Acetone		0.509	0.447	0.446	0.390	0.393	0.423	9.87
16) T Pentane		0.898	0.970	0.873	0.769	0.821	0.841	8.05
17) T Isopropyl alcohol		1.388	1.495	1.156	1.101	1.120	1.220	11.71
18) T 1,1-dichloroeth		1.393	1.250	1.132	1.107	1.144	1.163	9.18
19) T Freon 113		3.089	2.834	2.824	2.639	2.720	2.761	5.58
20) T t-Butyl alcohol		2.522	2.230	1.942	1.776	1.836	2.203	15.39
21) T Methylene chlor		1.325	1.581	1.102	1.030	1.393	1.313	13.17
22) T Allyl chloride		1.422	1.733	1.144	1.035	1.667	1.494	17.97
23) T Carbon disulfid		5.174	4.325	3.342	3.951	4.061	4.098	12.55
24) T trans-1,2-dichl		2.180	2.076	2.060	1.999	1.933	2.029	3.73
25) T methyl tert-but		4.386	3.644	3.672	3.558	3.607	3.703	7.52
26) T 1,1-dichloroeth		3.090	2.824	2.831	2.594	2.737	2.780	5.24
27) T Vinyl acetate		3.517	3.471	3.149	3.321	3.104	3.306	4.30
28) T Methyl Ethyl Ke		0.640	0.625	0.672	0.630	0.625	0.649	3.56
29) T cis-1,2-dichlor		1.983	1.886	1.799	1.817	1.788	1.841	3.74
30) T Hexane		2.253	2.222	2.263	2.109	2.162	2.185	2.73
31) T Ethyl acetate		3.814	3.227	2.964	2.791	2.817	3.069	10.76
32) T Chloroform		3.573	3.257	3.272	3.174	3.182	3.241	4.43
33) T Tetrahydrofuran		1.713	1.583	1.615	1.449	1.418	1.511	7.42
34) T 1,2-dichloroeth		2.226	2.011	1.973	1.876	1.831	1.934	7.02
35) I 1,4-difluorobenzene	-----ISTD-----							
36) T 1,1,1-trichloro		0.737	0.690	0.670	0.699	0.697	0.694	2.79
37) T Cyclohexane		0.510	0.492	0.460	0.478	0.469	0.474	3.91
38) T Carbon tetrachl	0.933	0.711	0.671	0.670	0.681	0.679	0.708	12.10
39) T Benzene		0.964	0.923	0.864	0.870	0.858	0.883	4.49
40) T Methyl methacry		0.358	0.355	0.331	0.340	0.345	0.353	4.57
41) T 1,4-dioxane		0.221	0.185	0.166	0.169	0.161	0.179	10.62
42) T 2,2,4-trimethyl		1.755	1.839	1.517	1.651	1.576	1.634	6.70
43) T Heptane		0.595	0.480	0.488	0.496	0.462	0.498	8.11
44) T Trichloroethene	0.528	0.424	0.403	0.397	0.387	0.380	0.408	11.50
45) T 1,2-dichloropro		0.411	0.363	0.337	0.337	0.336	0.346	8.32
46) T Bromodichlorome		0.708	0.658	0.622	0.633	0.611	0.638	4.99
47) T cis-1,3-dichlor		0.582	0.499	0.461	0.450	0.437	0.469	10.65
48) T trans-1,3-dichl		0.499	0.460	0.434	0.417	0.415	0.428	8.20
49) T 1,1,2-trichloro		0.464	0.421	0.368	0.357	0.336	0.362	14.97
50) I Chlorobenzene-d5	-----ISTD-----							
51) T Toluene		0.672	0.630	0.617	0.655	0.645	0.669	6.14

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 03 10:59:01 2016
 Response via : Initial Calibration

Calibration Files

0.04 =AN020412.D 0.15 =AN020410.D 0.30 =AN020409.D
 0.50 =AN020408.D 0.75 =AN020407.D 1.0 =AN020406.D

Compound	0.04	0.15	0.30	0.50	0.75	1.0	Avg	%RSD
52) T Methyl Isobutyl		1.054	0.836	0.798	0.850	0.874	0.938	11.68
53) T Dibromochlorome		0.754	0.659	0.683	0.738	0.688	0.723	6.19
54) T Methyl Butyl Ke		1.084	0.956	0.907	0.860	0.772	0.917	10.35
55) T 1,2-dibromoetha		0.848	0.733	0.736	0.791	0.786	0.788	5.06
56) T Tetrachloroethy		0.476	0.440	0.421	0.474	0.484	0.472	6.10
57) T Chlorobenzene		1.085	0.986	0.983	0.965	0.939	0.958	6.61
58) T 1,1,1,2-tetrach		0.570	0.528	0.520	0.510	0.505	0.510	5.90
59) T Ethylbenzene		1.627	1.487	1.507	1.504	1.477	1.472	5.87
60) T m&p-xylene		1.148	1.051	1.144	1.129	1.125	1.127	3.85
61) T Nonane		0.879	0.754	0.807	0.863	0.881	0.916	13.46
62) T Styrene		0.800	0.754	0.818	0.851	0.866	0.869	9.27
63) T Bromoform		0.682	0.624	0.650	0.678	0.692	0.680	4.81
64) T o-xylene		1.260	1.200	1.315	1.276	1.312	1.298	5.63
65) T Cumene		1.555	1.334	1.476	1.480	1.534	1.598	11.77
66) S Bromofluorobenz	0.589	0.595	0.593	0.631	0.683	0.727	0.681	11.88
67) T 1,1,2,2-tetrach		1.155	1.009	1.065	1.136	1.104	1.163	9.20
68) T Propylbenzene		1.640	1.721	1.725	1.924	1.761	1.894	11.89
69) T 2-Chlorotoluene		1.338	1.147	1.258	1.335	1.259	1.291	6.06
70) T 4-ethyltoluene		1.306	1.228	1.327	1.380	1.441	1.462	12.68
71) T 1,3,5-trimethyl		1.333	1.240	1.356	1.366	1.366	1.426	9.67
72) T 1,2,4-trimethyl		1.045	0.991	1.067	1.217	1.197	1.226	15.25
73) T 1,3-dichloroben		0.744	0.724	0.781	0.889	0.890	0.886	14.53
74) T benzyl chloride		0.730	0.812	0.768	0.776	0.848	0.837	9.50
75) T 1,4-dichloroben		0.703	0.675	0.759	0.852	0.853	0.854	16.04
76) T 1,2,3-trimethyl		1.228	1.022	1.137	1.377	1.347	1.353	15.90
77) T 1,2-dichloroben		0.796	0.743	0.814	0.915	0.903	0.908	13.02
78) T 1,2,4-trichloro		0.403	0.399	0.447	0.466	0.486	0.493	19.25
79) T Naphthalene		1.186	1.118	1.119	1.214	1.276	1.286	16.24
80) T Hexachloro-1,3-		0.860	0.785	0.858	0.995	1.082	1.029	17.59

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020403.D
 Acq On : 4 Feb 2016 10:07 am
 Sample : A1UG_2.0
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:34:11 2016

Vial: 1
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	25725	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.08	114	109784	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	66969	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	51435	1.06	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	54355	1.82	ppb	# 100
3) Freon 12	4.20	85	214086	1.92	ppb	100
4) Chloromethane	4.40	50	57015m	1.65	ppb	
5) Freon 114	4.40	85	173667	1.72	ppb	97
6) Vinyl Chloride	4.60	62	46314	1.77	ppb	90
7) Butane	4.69	43	58706m	1.72	ppb	
8) 1,3-butadiene	4.70	39	41206	1.80	ppb	90
9) Bromomethane	5.05	94	57305	1.97	ppb	95
10) Chloroethane	5.22	64	20198	1.93	ppb	92
11) Ethanol	5.37	45	14783	2.24	ppb	90
12) Acrolein	5.94	56	15883	2.02	ppb	80
13) Vinyl Bromide	5.55	106	59264	1.95	ppb	97
14) Freon 11	5.82	101	217848	1.95	ppb	99
15) Acetone	6.05	58	20632	2.12	ppb	# 82
16) Pentane	6.09	42	41609	1.98	ppb	98
17) Isopropyl alcohol	6.16	45	58615	2.05	ppb	# 46
18) 1,1-dichloroethene	6.58	96	56386	1.92	ppb	93
19) Freon 113	6.77	101	137299	1.96	ppb	96
20) t-Butyl alcohol	6.89	59	109152	2.32	ppb	95
21) Methylene chloride	7.06	84	69901	1.96	ppb	# 82
22) Allyl chloride	7.03	41	82854	1.99	ppb	# 56
23) Carbon disulfide	7.21	76	202938	1.94	ppb	100
24) trans-1,2-dichloroethene	7.99	61	103575	2.08	ppb	94
25) methyl tert-butyl ether	8.03	73	184249	1.97	ppb	93
26) 1,1-dichloroethane	8.42	63	140177	1.99	ppb	99
27) Vinyl acetate	8.43	43	171646	2.19	ppb	99
28) Methyl Ethyl Ketone	8.95	72	35285	2.23	ppb	# 100
29) cis-1,2-dichloroethene	9.36	61	94640	2.08	ppb	96
30) Hexane	8.92	57	113064	2.03	ppb	89
31) Ethyl acetate	9.54	43	157070	2.19	ppb	96
32) Chloroform	9.97	83	163443	2.00	ppb	100
33) Tetrahydrofuran	10.18	42	72995	2.01	ppb	97
34) 1,2-dichloroethane	11.10	62	96509	2.05	ppb	89
36) 1,1,1-trichloroethane	10.78	97	151479	1.98	ppb	100
37) Cyclohexane	11.47	56	103809	2.01	ppb	93
38) Carbon tetrachloride	11.42	117	150645	2.02	ppb	97
39) Benzene	11.40	78	191327	2.03	ppb	97
40) Methyl methacrylate	12.94	41	84482	2.22	ppb	91
41) 1,4-dioxane	13.00	88	40851	2.31	ppb	97
42) 2,2,4-trimethylpentane	12.21	57	347960	2.01	ppb	95
43) Heptane	12.55	43	107397	2.12	ppb	98
44) Trichloroethene	12.70	130	84775	2.03	ppb	99
45) 1,2-dichloropropane	12.82	63	72676	1.96	ppb	99

(#) = qualifier out of range (m) = manual integration

AN020403.D A204_1UG.M

Thu Mar 03 11:05:16 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020403.D
 Acq On : 4 Feb 2016 10:07 am
 Sample : A1UG_2.0
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:34:11 2016

Vial: 1
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	138917	2.06	ppb	99
47) cis-1,3-dichloropropene	13.91	75	99450	2.07	ppb	99
48) trans-1,3-dichloropropene	14.65	75	87931	1.92	ppb	93
49) 1,1,2-trichloroethane	14.95	97	69599	1.88	ppb	98
51) Toluene	14.70	92	99193	2.31	ppb	96
52) Methyl Isobutyl Ketone	13.85	43	143403m	2.47	ppb	
53) Dibromochloromethane	15.62	129	104629m	2.42	ppb	
54) Methyl Butyl Ketone	15.12	43	133349	2.60	ppb	96
55) 1,2-dibromoethane	15.87	107	109884	2.10	ppb	98
56) Tetrachloroethylene	15.68	164	67971	2.11	ppb	98
57) Chlorobenzene	16.63	112	121339	1.94	ppb	88
58) 1,1,1,2-tetrachloroethane	16.73	131	63884	1.90	ppb	94
59) Ethylbenzene	16.87	91	177645	1.79	ppb	97
60) m,p-xylene	17.06	91	288396	3.85	ppb	95
61) Nonane	17.40	43	149872	2.56	ppb	95
62) Styrene	17.49	104	126724	2.20	ppb	83
63) Bromoform	17.61	173	90468	1.97	ppb	100
64) o-xylene	17.51	91	165122	1.89	ppb	92
65) Cumene	18.04	105	247879	2.43	ppb	98
67) 1,1,2,2-tetrachloroethane	17.95	83	176998	2.41	ppb	97
68) Propylbenzene	18.56	91	309412m	2.47	ppb	
69) 2-Chlorotoluene	18.61	91	168440m	2.04	ppb	
70) 4-ethyltoluene	18.72	105	230180m	2.47	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	215127m	2.34	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	198632	2.49	ppb	96
73) 1,3-dichlorobenzene	19.51	146	143470	2.42	ppb	97
74) benzyl chloride	19.58	91	120866m	2.13	ppb	
75) 1,4-dichlorobenzene	19.64	146	141880	2.50	ppb	97
76) 1,2,3-trimethylbenzene	19.67	105	220297	2.46	ppb	94
77) 1,2-dichlorobenzene	19.96	146	144217	2.40	ppb	95
78) 1,2,4-trichlorobenzene	21.81	180	93099m	3.28	ppb	
79) Naphthalene	22.00	128	236493m	3.44	ppb	
80) Hexachloro-1,3-butadiene	22.09	225	168491	2.34	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020403.D A204_1UG.M Thu Mar 03 11:05:17 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN020403.D
Acq On : 4 Feb 2016 10:07 am
Sample : A1UG 2.0
Misc : A204_1UG
MMS Integration Params: RTEINT.P
Quant Time: Feb 4 13:36 2016

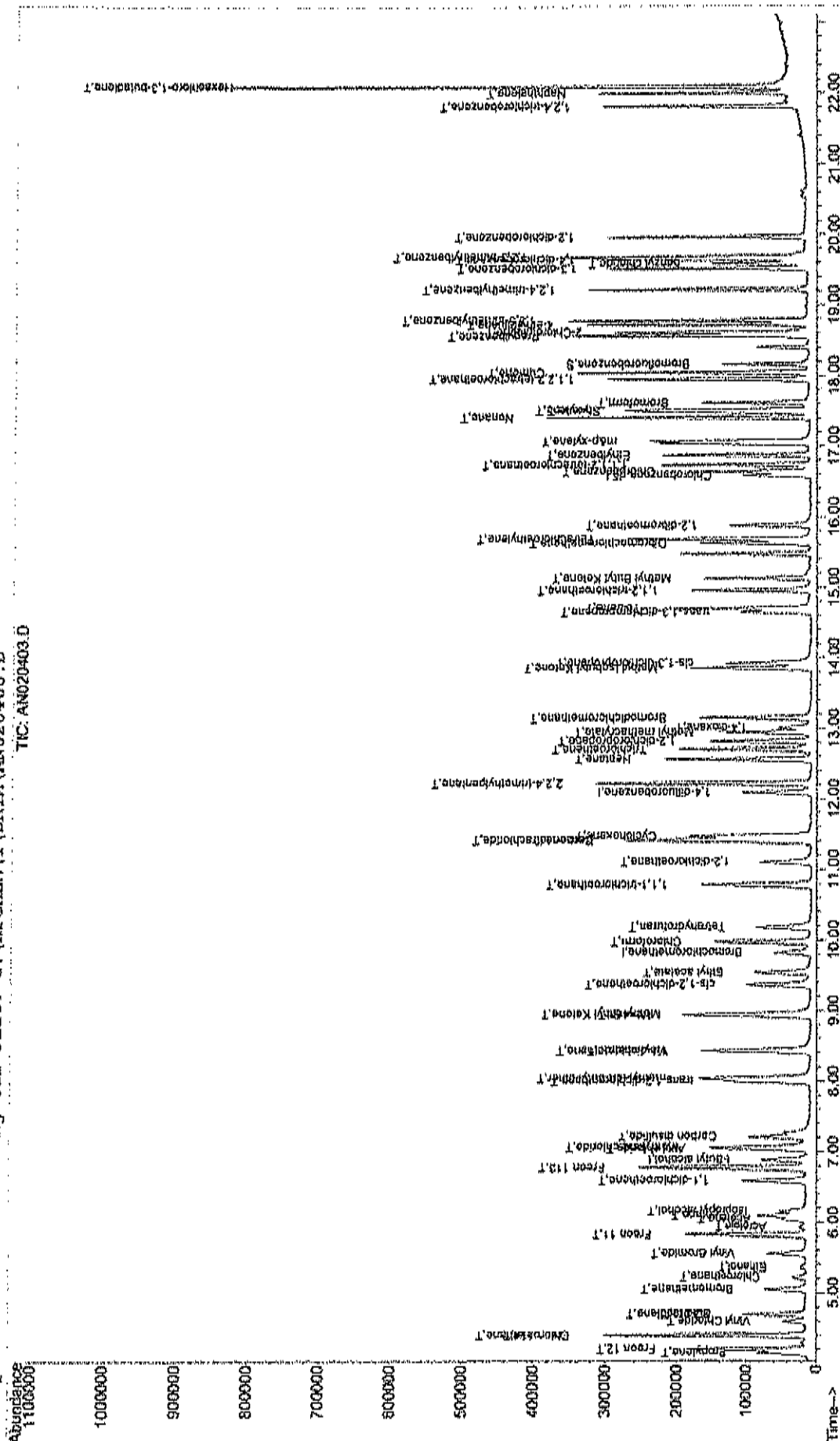
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Method      : C:\HPCHEM\1\METHODS\A204_IUG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.M

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Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

TIC: AM020403.D



AN020403.D A204 1UG.M

TTbu Max 03 11:05:18 2016

MSD2

Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020404.D
 Acq On : 4 Feb 2016 10:47 am
 Sample : A1UG_1.5
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:34:32 2016

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	25619	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.08	114	111964	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	71216	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	55453	1.08	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	108.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.16	41	41077	1.38	ppb	# 100
3) Freon 12	4.21	85	164266	1.48	ppb	100
4) Chloromethane	4.41	50	43938	1.28	ppb	92
5) Freon 114	4.41	85	136621	1.36	ppb	96
6) Vinyl Chloride	4.60	62	36670	1.41	ppb	88
7) Butane	4.71	43	46527m	1.37	ppb	
8) 1,3-butadiene	4.70	39	32116	1.41	ppb	86
9) Bromomethane	5.06	94	43286	1.49	ppb	94
10) Chloroethane	5.22	64	15836	1.52	ppb	100
11) Ethanol	5.39	45	8629m	1.31	ppb	
12) Acrolein	5.94	56	11146m	1.42	ppb	
13) Vinyl Bromide	5.56	106	44648	1.47	ppb	97
14) Freon 11	5.83	101	164487	1.48	ppb	98
15) Acetone	6.06	58	15493	1.60	ppb	# 76
16) Pentane	6.09	42	31060	1.48	ppb	96
17) Isopropyl alcohol	6.18	45	44554	1.57	ppb	# 46
18) 1,1-dichloroethene	6.59	96	42205	1.44	ppb	92
19) Freon 113	6.77	101	103022	1.47	ppb	95
20) t-Butyl alcohol	6.90	59	99143m	2.11	ppb	
21) Methylene chloride	7.06	84	52412	1.47	ppb	# 81
22) Allyl chloride	7.04	41	62295	1.50	ppb	# 57
23) Carbon disulfide	7.21	76	154911	1.49	ppb	99
24) trans-1,2-dichloroethene	8.00	61	76817	1.55	ppb	94
25) methyl tert-butyl ether	8.05	73	136928	1.47	ppb	92
26) 1,1-dichloroethane	8.43	63	105650	1.51	ppb	100
27) Vinyl acetate	8.44	43	126890	1.63	ppb	99
28) Methyl Ethyl Ketone	8.97	72	25587	1.62	ppb	# 100
29) cis-1,2-dichloroethene	9.36	61	70974	1.56	ppb	97
30) Hexane	8.93	57	83349	1.50	ppb	92
31) Ethyl acetate	9.55	43	112948	1.58	ppb	95
32) Chloroform	9.98	83	122324	1.50	ppb	98
33) Tetrahydrofuran	10.19	42	56390	1.56	ppb	98
34) 1,2-dichloroethane	11.10	62	71300	1.52	ppb	89
36) 1,1,1-trichloroethane	10.78	97	114442	1.46	ppb	97
37) Cyclohexane	11.47	56	76514	1.45	ppb	94
38) Carbon tetrachloride	11.42	117	111702	1.47	ppb	96
39) Benzene	11.40	78	142575	1.48	ppb	97
40) Methyl methacrylate	12.94	41	60646	1.57	ppb	90
41) 1,4-dioxane	13.02	88	29570	1.64	ppb	98
42) 2,2,4-trimethylpentane	12.21	57	262348	1.48	ppb	95
43) Heptane	12.55	43	81022	1.57	ppb	99
44) Trichloroethene	12.70	130	63699	1.49	ppb	100
45) 1,2-dichloropropane	12.82	63	53821	1.42	ppb	98

(#) = qualifier out of range (m) = manual integration

AN020404.D A204_1UG.M

Thu Mar 03 11:05:20 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020404.D
 Acq On : 4 Feb 2016 10:47 am
 Sample : A1UG_1.5
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:34:32 2016

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	102809	1.49	ppb	100
47) cis-1,3-dichloropropene	13.92	75	72559	1.48	ppb	99
48) trans-1,3-dichloropropene	14.65	75	66433	1.42	ppb	95
49) 1,1,2-trichloroethane	14.95	97	53253	1.41	ppb	98
51) Toluene	14.70	92	73479	1.61	ppb	95
52) Methyl Isobutyl Ketone	13.85	43	106161	1.72	ppb	96
53) Dibromochloromethane	15.63	129	75486m	1.64	ppb	
54) Methyl Butyl Ketone	15.13	43	92185	1.69	ppb	96
55) 1,2-dibromoethane	15.87	107	83082	1.49	ppb	96
56) Tetrachloroethylene	15.68	164	50720	1.48	ppb	99
57) Chlorobenzene	16.63	112	94306	1.42	ppb	88
58) 1,1,1,2-tetrachloroethane	16.73	131	51392	1.44	ppb	93
59) Ethylbenzene	16.87	91	152389	1.45	ppb	98
60) m&p-xylene	17.07	91	253186	3.18	ppb	95
61) Nonane	17.40	43	112368	1.80	ppb	95
62) Styrene	17.49	104	106038	1.73	ppb	84
63) Bromoform	17.61	173	77516	1.58	ppb	98
64) o-xylene	17.51	91	152890	1.65	ppb	95
65) Cumene	18.04	105	199175	1.83	ppb	99
67) 1,1,2,2-tetrachloroethane	17.95	83	135001	1.73	ppb	99
68) Propylbenzene	18.56	91	219322m	1.64	ppb	
69) 2-Chlorotoluene	18.60	91	150436m	1.71	ppb	
70) 4-ethyltoluene	18.72	105	178826m	1.80	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	171651m	1.76	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	152618	1.80	ppb	96
73) 1,3-dichlorobenzene	19.51	146	105440	1.68	ppb	98
74) benzyl chloride	19.58	91	96195	1.59	ppb	97
75) 1,4-dichlorobenzene	19.64	146	101532	1.68	ppb	97
76) 1,2,3-trimethylbenzene	19.67	105	165179	1.73	ppb	95
77) 1,2-dichlorobenzene	19.96	146	106684	1.67	ppb	97
78) 1,2,4-trichlorobenzene	21.80	180	54304m	1.80	ppb	
79) Naphthalene	22.00	128	135513m	1.86	ppb	
80) Hexachloro-1,3-butadiene	22.09	225	126766	1.66	ppb	99

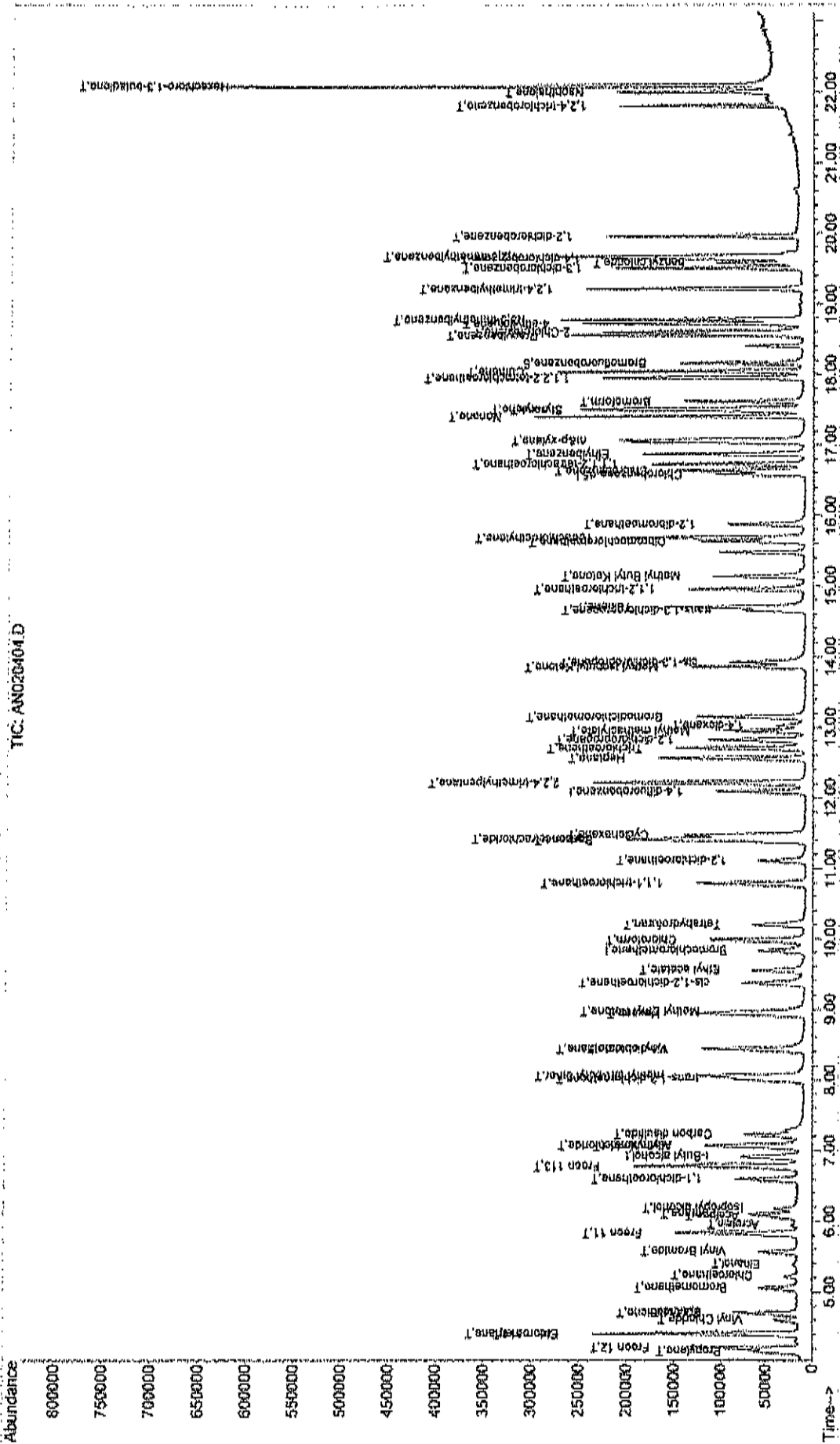
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020404.D A204_1UG.M Thu Mar 03 11:05:21 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN020404.D
Acq On : 4 Feb 2016 10:47 am
Sample : A1UG 1.5
Misc : A204_1UG
MMS Integration Params: RTEINT.P
Quant Time: Feb 4 13:38 2016

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Method      : C:\HPCHEM\1\METHODS\A204_IUG.M (RTB Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.
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Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

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Subyapada



AN020404.D	A204 1UG.M	Thu Mar 03 11:05:22 2016	MSD1
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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020405.D
 Acq On : 4 Feb 2016 11:26 am
 Sample : A1UG_1.25
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:34:53 2016

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	26324	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.08	114	111434	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	69981	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	53484	1.06	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	34584	1.13	ppb	100
3) Freon 12	4.21	85	140275	1.23	ppb	99
4) Chloromethane	4.42	50	41090m	1.16	ppb	
5) Freon 114	4.41	85	116513	1.13	ppb	96
6) Vinyl Chloride	4.61	62	31717	1.19	ppb	88
7) Butane	4.70	43	34808	1.00	ppb	95
8) 1,3-butadiene	4.71	39	27733	1.18	ppb	95
9) Bromomethane	5.05	94	35650	1.20	ppb	90
10) Chloroethane	5.23	64	13134	1.23	ppb	96
11) Ethanol	5.40	45	8836m	1.31	ppb	
12) Acrolein	5.96	56	9117m	1.13	ppb	
13) Vinyl Bromide	5.56	106	37291	1.20	ppb	95
14) Freon 11	5.83	101	138449	1.21	ppb	98
15) Acetone	6.07	58	12981	1.31	ppb	85
16) Pentane	6.10	42	25759	1.20	ppb	94
17) Isopropyl alcohol	6.18	45	39515	1.35	ppb	46
18) 1,1-dichloroethene	6.60	96	35679	1.18	ppb	95
19) Freon 113	6.78	101	86509	1.21	ppb	96
20) t-Butyl alcohol	6.91	59	85975m	1.78	ppb	
21) Methylene chloride	7.07	84	44568	1.22	ppb	81
22) Allyl chloride	7.05	41	56461m	1.33	ppb	
23) Carbon disulfide	7.22	76	130146	1.21	ppb	96
24) trans-1,2-dichloroethene	8.00	61	64912	1.28	ppb	95
25) methyl tert-butyl ether	8.05	73	118944	1.25	ppb	92
26) 1,1-dichloroethane	8.42	63	88586	1.23	ppb	97
27) Vinyl acetate	8.44	43	106949	1.34	ppb	99
28) Methyl Ethyl Ketone	8.97	72	21293	1.31	ppb	100
29) cis-1,2-dichloroethene	9.36	61	58105	1.25	ppb	94
30) Hexane	8.93	57	69360	1.22	ppb	93
31) Ethyl acetate	9.56	43	97081	1.32	ppb	95
32) Chloroform	9.98	83	102331	1.22	ppb	98
33) Tetrahydrofuran	10.20	42	46768	1.26	ppb	98
34) 1,2-dichloroethane	11.10	62	59902	1.25	ppb	90
36) 1,1,1-trichloroethane	10.78	97	96188	1.24	ppb	98
37) Cyclohexane	11.47	56	63939	1.22	ppb	94
38) Carbon tetrachloride	11.41	117	93690	1.24	ppb	97
39) Benzene	11.40	78	120193	1.25	ppb	98
40) Methyl methacrylate	12.94	41	49277	1.28	ppb	90
41) 1,4-dioxane	13.02	88	23753	1.32	ppb	99
42) 2,2,4-trimethylpentane	12.22	57	220839	1.26	ppb	95
43) Heptane	12.55	43	68809	1.34	ppb	98
44) Trichloroethene	12.70	130	54359	1.28	ppb	98
45) 1,2-dichloropropane	12.82	63	46292	1.23	ppb	98

(#) = qualifier out of range (m) = manual integration

AN020405.D A204_1UG.M

Thu Mar 03 11:05:24 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020405.D

Vial: 3

Acq On : 4 Feb 2016 11:26 am

Operator: RJP

Sample : A1UG_1.25

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 13:34:53 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 04 13:31:26 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.15	83	87483	1.28	ppb	99
47) cis-1,3-dichloropropene	13.92	75	61393	1.26	ppb	98
48) trans-1,3-dichloropropene	14.65	75	56502	1.21	ppb	92
49) 1,1,2-trichloroethane	14.95	97	44187	1.17	ppb	96
51) Toluene	14.70	92	61709	1.38	ppb	96
52) Methyl Isobutyl Ketone	13.86	43	90019	1.49	ppb	96
53) Dibromochloromethane	15.62	129	67440m	1.49	ppb	
54) Methyl Butyl Ketone	15.13	43	78702	1.47	ppb	95
55) 1,2-dibromoethane	15.87	107	70954	1.30	ppb	97
56) Tetrachloroethylene	15.68	164	43712	1.30	ppb	99
57) Chlorobenzene	16.63	112	80187	1.23	ppb	86
58) 1,1,1,2-tetrachloroethane	16.73	131	43046	1.23	ppb	94
59) Ethylbenzene	16.87	91	124572	1.20	ppb	98
60) m&p-xylene	17.07	91	201992	2.58	ppb	96
61) Nonane	17.40	43	84929	1.39	ppb	96
62) Styrene	17.48	104	80992	1.35	ppb	85
63) Bromoform	17.61	173	62564	1.30	ppb	98
64) o-xylene	17.51	91	118694	1.30	ppb	95
65) Cumene	18.04	105	147980	1.39	ppb	99
67) 1,1,2,2-tetrachloroethane	17.95	83	109204	1.42	ppb	98
68) Propylbenzene	18.56	91	176331m	1.35	ppb	
69) 2-Chlorotoluene	18.60	91	115791m	1.34	ppb	
70) 4-ethyltoluene	18.72	105	141894m	1.45	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	134551m	1.40	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	120559	1.45	ppb	91
73) 1,3-dichlorobenzene	19.51	146	87962	1.42	ppb	96
74) benzyl chloride	19.58	91	83998	1.42	ppb	99
75) 1,4-dichlorobenzene	19.54	146	85809	1.45	ppb	96
76) 1,2,3-trimethylbenzene	19.67	105	133254	1.42	ppb	96
77) 1,2-dichlorobenzene	19.96	146	89087	1.42	ppb	97
78) 1,2,4-trichlorobenzene	21.81	180	47116m	1.59	ppb	
79) Naphthalene	22.00	128	117672m	1.64	ppb	
80) Hexachloro-1,3-butadiene	22.08	225	105259	1.40	ppb	99

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020405.D A204_1UG.M Thu Mar 03 11:05:25 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN020405.D
Acq On : 4 Feb 2016 11:26 am
Sample : ALUG 1.25
Misc : A204_LUG
MS Integration Params: RTEINT.P
Quant Time: Feb 4 13:58 2016

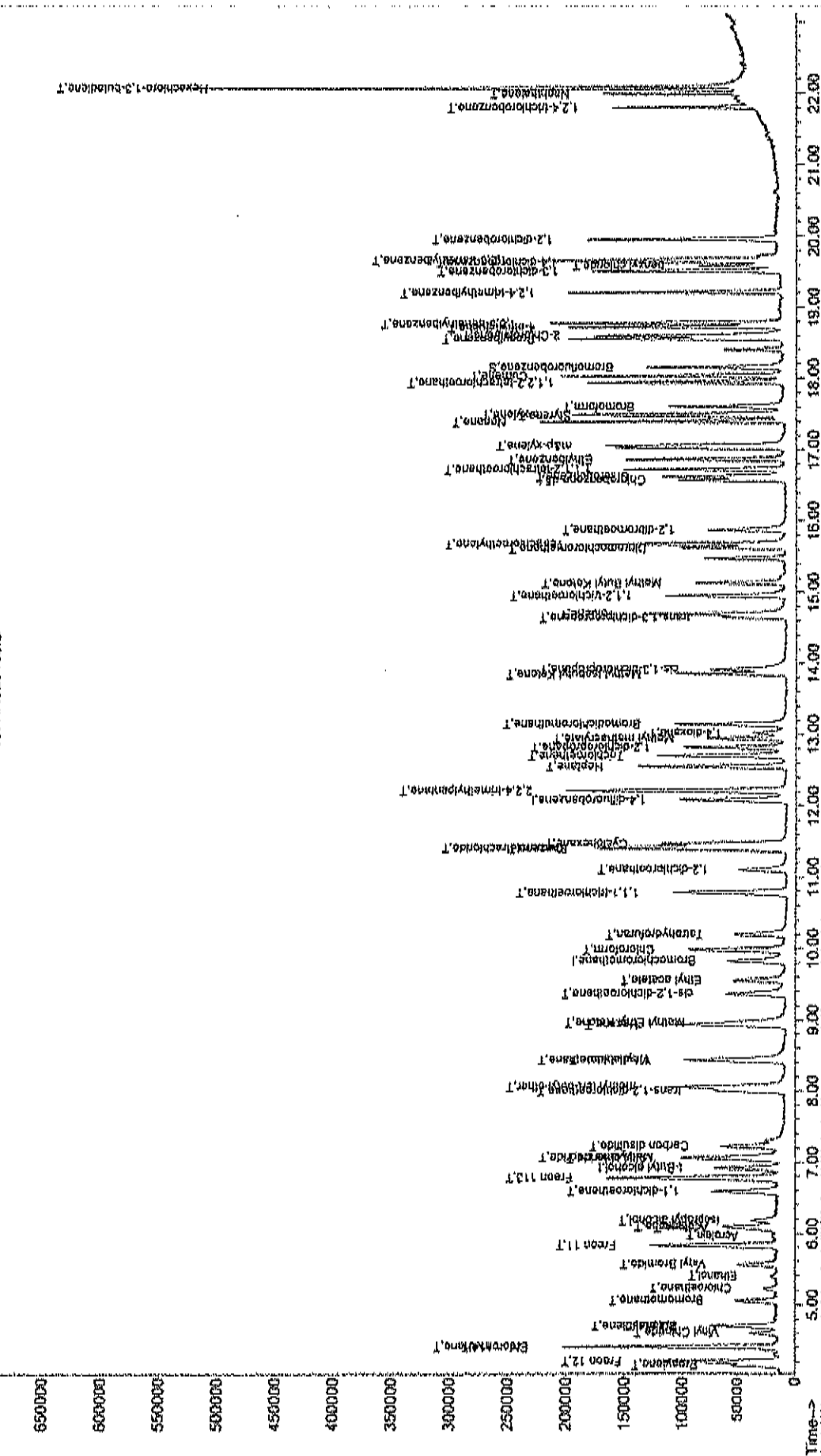
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Method      : C:\HPCHEM\1\METHODS\A204_IUG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.F

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Abstract

DATE: 20240505



AN020405.D A204 1UG.M

Thu Mar 03 11:05:26 2016

FD-36

Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020406.D

Vial: 4

Acq On : 4 Feb 2016 12:05 pm

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 13:33:52 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 04 13:31:26 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	25913	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.09	114	112188	1.00	ppb	0.00
50) Chlorobenzene-d5	15.59	117	75689	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	55017	1.01	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	101.00%

Target Compounds

						Qvalue
2) Propylene	4.16	41	30053	1.00	ppb	# 100
3) Freon 12	4.21	85	112233	1.00	ppb	99
4) Chloromethane	4.41	50	35183	1.01	ppb	95
5) Freon 114	4.41	85	101648	1.00	ppb	92
6) Vinyl Chloride	4.60	62	26348	1.00	ppb	91
7) Butane	4.70	43	34440	1.00	ppb	# 88
8) 1,3-butadiene	4.71	39	23582	1.02	ppb	95
9) Bromomethane	5.05	94	29345	1.00	ppb	90
10) Chloroethane	5.23	64	10515	1.00	ppb	94
11) Ethanol	5.40	45	6639	1.00	ppb	76
12) Acrolein	5.97	56	7595m	0.96	ppb	
13) Vinyl Bromide	5.57	106	30802	1.00	ppb	99
14) Freon 11	5.83	101	112138	1.00	ppb	98
15) Acetone	6.07	58	10173	1.04	ppb	# 89
16) Pentane	6.10	42	21263	1.00	ppb	96
17) Isopropyl alcohol	6.18	45	29029	1.01	ppb	# 46
18) 1,1-dichloroethene	6.59	96	29648	1.00	ppb	92
19) Freon 113	6.78	101	70489	1.00	ppb	97
20) t-Butyl alcohol	6.91	59	47567	1.00	ppb	# 91
21) Methylene chloride	7.07	84	36088	1.00	ppb	# 83
22) Allyl chloride	7.05	41	43209m	1.03	ppb	
23) Carbon disulfide	7.21	76	105221	1.00	ppb	98
24) trans-1,2-dichloroethene	8.00	61	50102	1.00	ppb	91
25) methyl tert-butyl ether	8.05	73	93479	0.99	ppb	89
26) 1,1-dichloroethane	8.43	63	70920	1.00	ppb	99
27) Vinyl acetate	8.44	43	80424	1.02	ppb	99
28) Methyl Ethyl Ketone	8.98	72	16206	1.02	ppb	# 100
29) cis-1,2-dichloroethene	9.37	61	46323	1.01	ppb	96
30) Hexane	8.93	57	56016	1.00	ppb	91
31) Ethyl acetate	9.56	43	72985	1.01	ppb	93
32) Chloroform	9.98	83	82448	1.00	ppb	99
33) Tetrahydrofuran	10.20	42	36744	1.00	ppb	96
34) 1,2-dichloroethane	11.10	62	47453	1.00	ppb	89
36) 1,1,1-trichloroethane	10.78	97	78158	1.00	ppb	98
37) Cyclohexane	11.47	56	62629	1.00	ppb	93
38) Carbon tetrachloride	11.42	117	76208	1.00	ppb	99
39) Benzene	11.40	78	96276	1.00	ppb	98
40) Methyl methacrylate	12.95	41	38699	1.00	ppb	91
41) 1,4-dioxane	13.03	88	18085	1.00	ppb	95
42) 2,2,4-trimethylpentane	12.21	57	176835	1.00	ppb	95
43) Heptane	12.55	43	51824	1.00	ppb	97
44) Trichloroethene	12.70	130	42641	1.00	ppb	100
45) 1,2-dichloropropane	12.82	63	37728	1.00	ppb	98

(#)= qualifier out of range (m)= manual integration

AN020406.D A204_1UG.M

Thu Mar 03 11:05:28 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020406.D

Vial: 4

Acq On : 4 Feb 2016 12:05 pm

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 13:33:52 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 04 13:31:26 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	68586	0.99	ppb	99
47) cis-1,3-dichloropropene	13.92	75	49040	1.00	ppb	98
48) trans-1,3-dichloropropene	14.65	75	46601	0.99	ppb	94
49) 1,1,2-trichloroethane	14.95	97	37716	0.99	ppb	97
51) Toluene	14.70	92	48809	1.01	ppb	91
52) Methyl Isobutyl Ketone	13.86	43	66177	1.01	ppb	96
53) Dibromochloromethane	15.62	129	52048m	1.06	ppb	
54) Methyl Butyl Ketone	15.14	43	58459	1.01	ppb	95
55) 1,2-dibromoethane	15.88	107	59489	1.01	ppb	98
56) Tetrachloroethylene	15.68	164	36612	1.01	ppb	95
57) Chlorobenzene	16.63	112	71051	1.01	ppb	90
58) 1,1,1,2-tetrachloroethane	16.73	131	38194	1.01	ppb	# 91
59) Ethylbenzene	16.87	91	111762	1.00	ppb	99
60) m&p-xylene	17.06	91	170289	2.01	ppb	95
61) Nonane	17.40	43	66712	1.01	ppb	93
62) Styrene	17.49	104	65537	1.01	ppb	85
63) Bromoform	17.61	173	52343	1.01	ppb	99
64) o-xylene	17.51	91	99274	1.01	ppb	93
65) Cumene	18.04	105	116116	1.01	ppb	99
67) 1,1,2,2-tetrachloroethane	17.95	83	83523	1.01	ppb	98
68) Propylbenzene	18.56	91	133269m	0.94	ppb	
69) 2-Chlorotoluene	18.60	91	95281m	1.02	ppb	
70) 4-ethyltoluene	18.72	105	109087m	1.03	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	103365m	1.00	ppb	
72) 1,2,4-trimethylbenzene	19.22	105	90632	1.01	ppb	93
73) 1,3-dichlorobenzene	19.51	146	67332	1.01	ppb	96
74) benzyl chloride	19.58	91	64219	1.00	ppb	99
75) 1,4-dichlorobenzene	19.64	146	64539	1.01	ppb	99
76) 1,2,3-trimethylbenzene	19.67	105	101954	1.01	ppb	92
77) 1,2-dichlorobenzene	19.96	146	68342	1.01	ppb	97
78) 1,2,4-trichlorobenzene	21.80	180	36792	1.15	ppb	97
79) Naphthalene	22.00	128	96563	1.24	ppb	95
80) Hexachloro-1,3-butadiene	22.08	225	81923	1.01	ppb	99

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020406.D A204_1UG.M Thu Mar 03 11:05:29 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN020406.D
Acq On : 4 Feb 2016 12:05 pm
Sample : ALUG 1.0
Misc : A204_IUG
WMS Integration Params: RTEINT.P
Quant Time: Feb 4 13:59 2016

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Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

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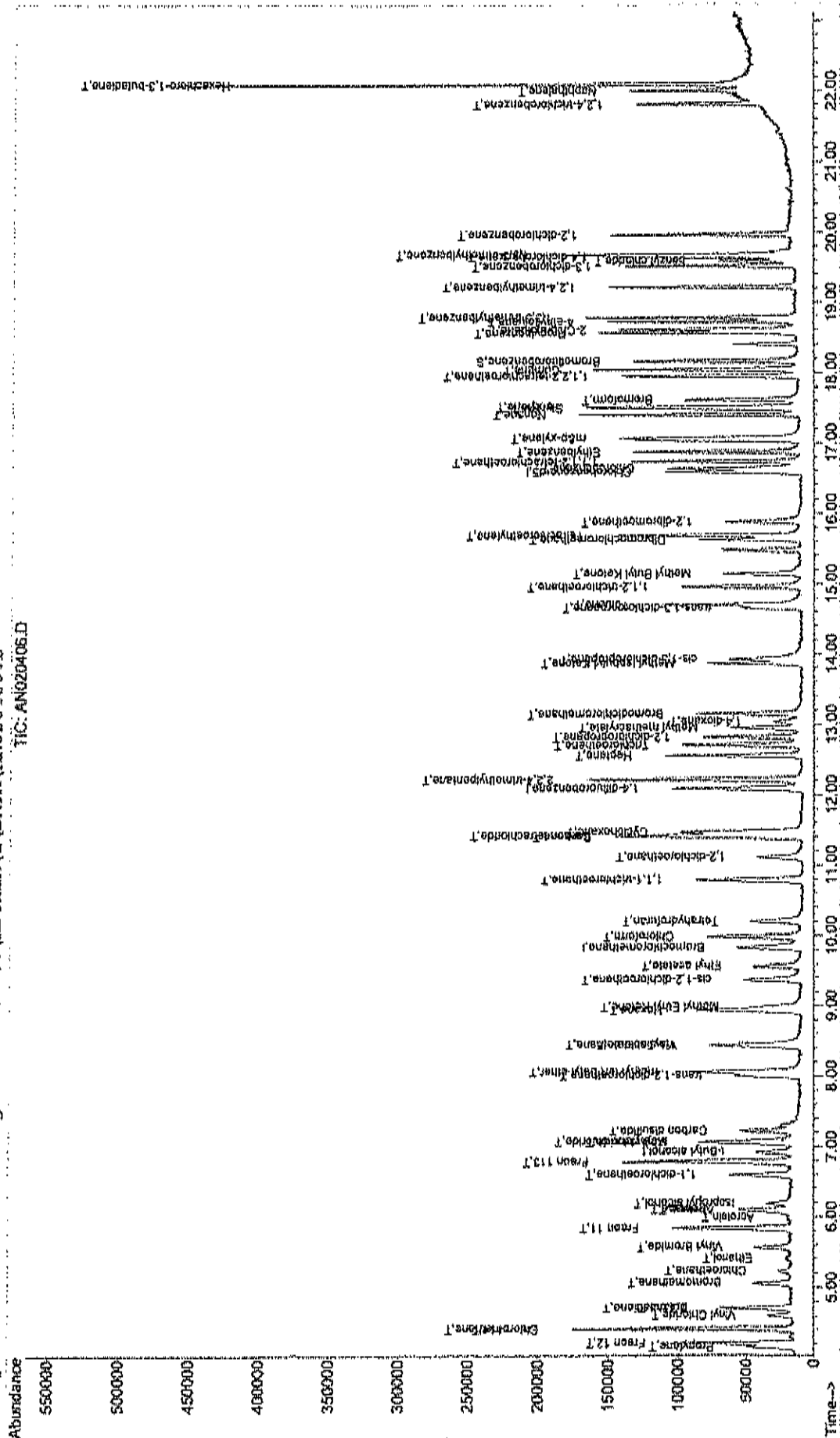
Quant Results File: A204 IUG.RES

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Method      : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

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TIC: #N020406.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020407.D

Vial: 5

Acq On : 4 Feb 2016 12:43 pm

Operator: RJP

Sample : A1UG_0.75

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 13:35:11 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 04 13:31:26 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	26982	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.08	114	114242	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	80035	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	54689	0.95	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	95.00%

Target Compounds

						Qvalue
2) Propylene	4.15	41	23136	0.74	ppb	# 100
3) Freon 12	4.21	85	85456	0.73	ppb	99
4) Chloromethane	4.41	50	22359	0.62	ppb	92
5) Freon 114	4.40	85	68001	0.64	ppb	96
6) Vinyl Chloride	4.60	62	18631	0.68	ppb	90
7) Butane	4.70	43	24926m	0.70	ppb	
8) 1,3-butadiene	4.71	39	17608	0.73	ppb	88
9) Bromomethane	5.05	94	21726	0.71	ppb	87
10) Chloroethane	5.22	64	8028m	0.73	ppb	
11) Ethanol	5.38	45	4680m	0.68	ppb	
12) Acrolein	5.96	56	6272m	0.76	ppb	
13) Vinyl Bromide	5.56	106	23589	0.74	ppb	95
14) Freon 11	5.82	101	84729	0.72	ppb	99
15) Acetone	6.06	58	7890	0.77	ppb	# 91
16) Pentane	6.09	42	15565	0.71	ppb	88
17) Isopropyl alcohol	6.17	45	22288	0.74	ppb	# 46
18) 1,1-dichloroethene	6.59	96	22401	0.73	ppb	90
19) Freon 113	6.77	101	53414	0.73	ppb	96
20) t-Butyl alcohol	6.90	59	35943	0.73	ppb	# 91
21) Methylene chloride	7.07	84	20841m	0.56	ppb	
22) Allyl chloride	7.04	41	20945m	0.48	ppb	
23) Carbon disulfide	7.22	76	79949	0.73	ppb	96
24) trans-1,2-dichloroethene	8.00	61	40462	0.78	ppb	94
25) methyl tert-butyl ether	8.05	73	71996	0.74	ppb	88
26) 1,1-dichloroethane	8.42	63	52496	0.71	ppb	96
27) Vinyl acetate	8.44	43	67210	0.82	ppb	98
28) Methyl Ethyl Ketone	8.97	72	12754	0.77	ppb	# 100
29) cis-1,2-dichloroethene	9.36	61	36772	0.77	ppb	95
30) Hexane	8.92	57	42670	0.73	ppb	95
31) Ethyl acetate	9.55	43	56480	0.75	ppb	92
32) Chloroform	9.98	83	64222	0.75	ppb	99
33) Tetrahydrofuran	10.19	42	29320	0.77	ppb	98
34) 1,2-dichloroethane	11.10	62	37962	0.77	ppb	88
36) 1,1,1-trichloroethane	10.78	97	59852	0.75	ppb	98
37) Cyclohexane	11.47	56	40954	0.76	ppb	92
38) Carbon tetrachloride	11.42	117	58308	0.75	ppb	99
39) Benzene	11.39	78	74517	0.76	ppb	98
40) Methyl methacrylate	12.95	41	29160	0.74	ppb	91
41) 1,4-dioxane	13.02	88	14453	0.78	ppb	100
42) 2,2,4-trimethylpentane	12.21	57	141487	0.78	ppb	95
43) Heptane	12.55	43	42536	0.81	ppb	98
44) Trichloroethene	12.70	130	33147	0.76	ppb	99
45) 1,2-dichloropropane	12.82	63	28861	0.75	ppb	100

(#)= qualifier out of range (m) = manual integration

AN020407.D A204_1UG.M

Thu Mar 03 11:05:32 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020407.D
 Acq On : 4 Feb 2016 12:43 pm
 Sample : A1UG_0.75
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 13:35:11 2016

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

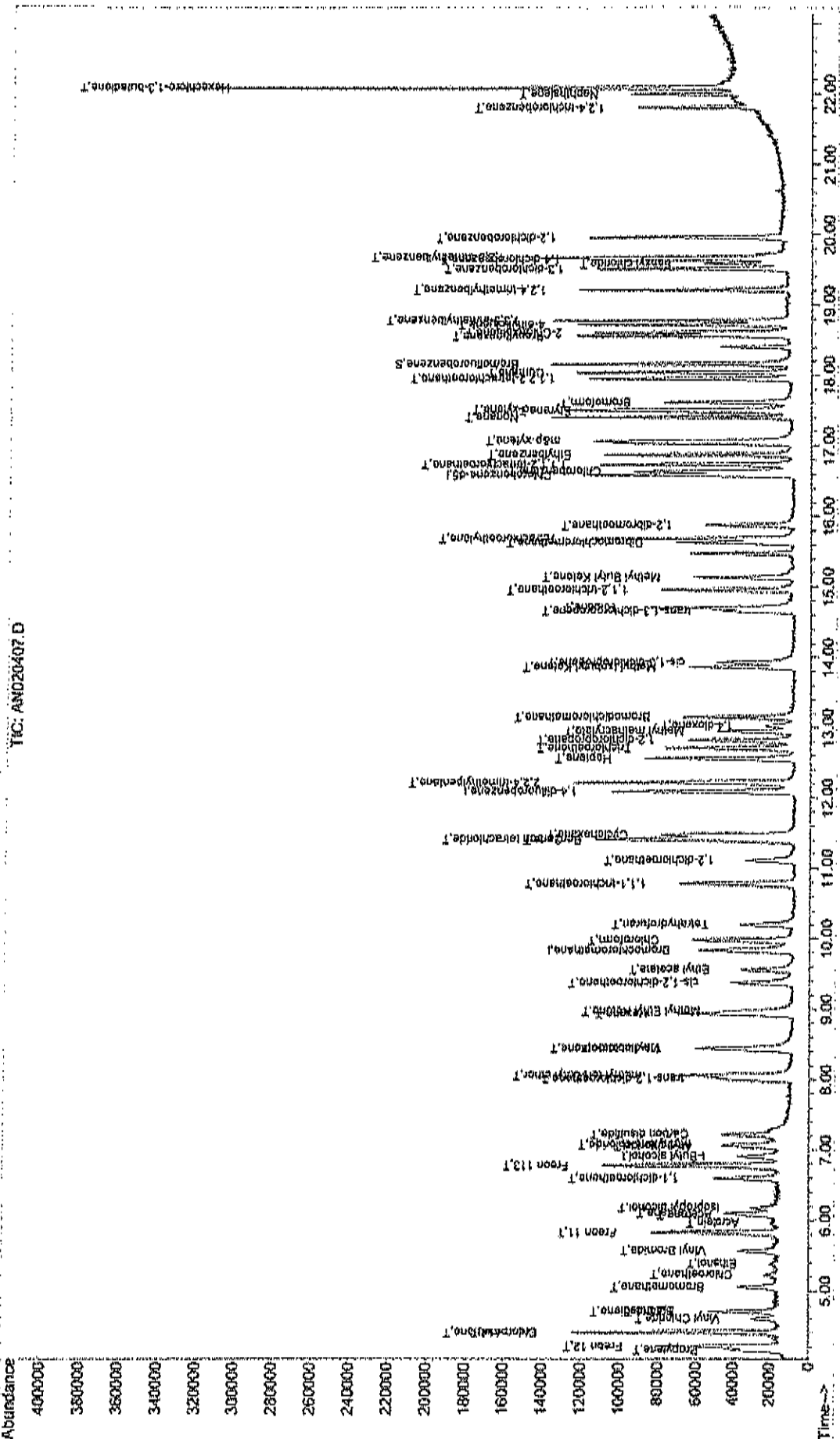
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	54228	0.77	ppb	98
47) cis-1,3-dichloropropene	13.92	75	38568	0.77	ppb	99
48) trans-1,3-dichloropropene	14.65	75	35739	0.75	ppb	93
49) 1,1,2-trichloroethane	14.95	97	30575	0.79	ppb	99
51) Toluene	14.70	92	39343	0.77	ppb	96
52) Methyl Isobutyl Ketone	13.86	43	51046m	0.74	ppb	
53) Dibromochloromethane	15.62	129	44291m	0.86	ppb	
54) Methyl Butyl Ketone	15.13	43	51651	0.84	ppb	94
55) 1,2-dibromoethane	15.87	107	47510	0.76	ppb	95
56) Tetrachloroethylene	15.68	164	28430	0.74	ppb	98
57) Chlorobenzene	16.63	112	57897	0.78	ppb	91
58) 1,1,1,2-tetrachloroethane	16.73	131	30601	0.76	ppb	93
59) Ethylbenzene	16.87	91	90267	0.76	ppb	96
60) m&p-xylene	17.07	91	135493	1.51	ppb	95
61) Nonane	17.40	43	51775	0.74	ppb	94
62) Styrene	17.48	104	51058	0.74	ppb	86
63) Bromoform	17.61	173	40693	0.74	ppb	98
64) o-xylene	17.51	91	76617	0.73	ppb	92
65) Cumene	18.04	105	88854	0.73	ppb	98
67) 1,1,2,2-tetrachloroethane	17.95	83	68207	0.78	ppb	98
68) Propylbenzene	18.56	91	115515m	0.77	ppb	
69) 2-Chlorotoluene	18.60	91	80119m	0.81	ppb	
70) 4-ethyltoluene	18.72	105	82858m	0.74	ppb	
71) 1,3,5-trimethylbenzene	18.77	105	81985m	0.75	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	73062	0.77	ppb	93
73) 1,3-dichlorobenzene	19.51	146	53345	0.75	ppb	98
74) benzyl chloride	19.58	91	46554	0.69	ppb	98
75) 1,4-dichlorobenzene	19.64	146	51126	0.75	ppb	96
76) 1,2,3-trimethylbenzene	19.67	105	82651	0.77	ppb	96
77) 1,2-dichlorobenzene	19.95	146	54927	0.77	ppb	96
78) 1,2,4-trichlorobenzene	21.81	180	27970m	0.82	ppb	
79) Naphthalene	22.00	128	72844m	0.89	ppb	
80) Hexachloro-1,3-butadiene	22.08	225	59734	0.69	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020407.D A204_1UG.M Thu Mar 03 11:05:33 2016 MSD1

Data File : C:\NRCHEM\1\DATA\ANG20407.D
Acq On : 4 Feb 2016 12:43 pm
Sample : AUG 0.75
Misc : A204_IUG
MMS Integration Params: RTEINT.P
Quant Time: Feb 4 14:00 2016

```
Method : C:\HPCHEM\1\METHODS\A204 IUG.M (RTE Integrator)
Title   : TO-15 VOA Standards for_5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020405.D
Indance :                                     TIC: AN020405.D
```

Abstract



AN020407.D A204 1UG.M Thu May 03 11:05:34 2016 MSD1

Page ૩

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020408.D

Vial: 6

Acq On : 4 Feb 2016 1:21 pm

Operator: RJP

Sample : A1UG_0.50

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 14:01:05 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 04 13:31:26 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	25590	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.09	114	115016	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	89341	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	56360	0.87	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	87.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.16	41	16867	0.57	ppb	# 100
3) Freon 12	4.21	85	56902	0.51	ppb	100
4) Chloromethane	4.41	50	17198	0.50	ppb	94
5) Freon 114	4.41	85	46881	0.47	ppb	95
6) Vinyl Chloride	4.60	62	12585	0.48	ppb	93
7) Butane	4.70	43	18272	0.54	ppb	91
8) 1,3-butadiene	4.71	39	11386	0.50	ppb	79
9) Bromomethane	5.06	94	16884	0.58	ppb	97
10) Chloroethane	5.22	64	5282	0.51	ppb	# 77
11) Ethanol	5.40	45	2846m	0.43	ppb	
12) Acrolein	5.98	56	4295m	0.55	ppb	
13) Vinyl Bromide	5.56	106	15526	0.51	ppb	96
14) Freon 11	5.82	101	55711	0.50	ppb	96
15) Acetone	6.08	58	5704	0.59	ppb	# 90
16) Pentane	6.11	42	11169	0.53	ppb	85
17) Isopropyl alcohol	6.19	45	14795	0.52	ppb	# 46
18) 1,1-dichloroethene	6.59	96	14486	0.49	ppb	91
19) Freon 113	6.77	101	36135	0.52	ppb	97
20) t-Butyl alcohol	6.92	59	24854	0.53	ppb	# 71
21) Methylene chloride	7.07	84	14101m	0.40	ppb	
22) Allyl chloride	7.05	41	14642m	0.35	ppb	
23) Carbon disulfide	7.22	76	42762	0.41	ppb	95
24) trans-1,2-dichloroethene	8.00	61	26352	0.53	ppb	93
25) methyl tert-butyl ether	8.06	73	46980	0.51	ppb	88
26) 1,1-dichloroethane	8.43	63	36223	0.52	ppb	96
27) Vinyl acetate	8.45	43	40294	0.52	ppb	99
28) Methyl Ethyl Ketone	8.98	72	8603	0.55	ppb	# 100
29) cis-1,2-dichloroethene	9.37	61	23013	0.51	ppb	91
30) Hexane	8.93	57	28953	0.52	ppb	92
31) Ethyl acetate	9.57	43	37927	0.53	ppb	90
32) Chloroform	9.98	83	41863	0.51	ppb	96
33) Tetrahydrofuran	10.20	42	20664	0.57	ppb	97
34) 1,2-dichloroethane	11.12	62	25248	0.54	ppb	88
36) 1,1,1-trichloroethane	10.78	97	38539	0.48	ppb	99
37) Cyclohexane	11.47	56	26426	0.49	ppb	95
38) Carbon tetrachloride	11.42	117	38535	0.49	ppb	98
39) Benzene	11.40	78	49706	0.50	ppb	98
40) Methyl methacrylate	12.95	41	19009	0.48	ppb	# 84
41) 1,4-dioxane	13.03	88	9544	0.51	ppb	92
42) 2,2,4-trimethylpentane	12.21	57	87245	0.48	ppb	95
43) Heptane	12.56	43	28059	0.53	ppb	98
44) Trichloroethene	12.71	130	22834	0.52	ppb	99
45) 1,2-dichloropropane	12.82	63	19360	0.50	ppb	97

(#) = qualifier out of range (m) = manual integration

AN020408.D A204_1UG.M

Thu Mar 03 11:05:36 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020408.D
 Acq On : 4 Feb 2016 1:21 pm
 Sample : A1UG_0.50
 Misc : A204_1UG

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 14:01:05 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	35760	0.51	ppb	99
47) cis-1,3-dichloropropene	13.92	75	26513	0.53	ppb	98
48) trans-1,3-dichloropropene	14.66	75	24971	0.52	ppb	91
49) 1,1,2-trichloroethane	14.96	97	21154	0.54	ppb	94
51) Toluene	14.70	92	27545	0.48	ppb	99
52) Methyl Isobutyl Ketone	13.86	43	35639	0.46	ppb	96
53) Dibromochloromethane	15.63	129	30515m	0.53	ppb	
54) Methyl Butyl Ketone	15.14	43	40532	0.59	ppb	93
55) 1,2-dibromoethane	15.88	107	32869	0.47	ppb	96
56) Tetrachloroethylene	15.69	164	18804	0.44	ppb	96
57) Chlorobenzene	16.64	112	43896	0.53	ppb	92
58) 1,1,1,2-tetrachloroethane	16.73	131	23231	0.52	ppb	# 89
59) Ethylbenzene	16.87	91	67340	0.51	ppb	99
60) m&p-xylene	17.07	91	102219	1.02	ppb	93
61) Nonane	17.40	43	36032	0.46	ppb	97
62) Styrene	17.49	104	36554	0.48	ppb	84
63) Bromoform	17.61	173	29050	0.47	ppb	99
64) o-xylene	17.51	91	58725	0.50	ppb	92
65) Cumene	18.04	105	65952	0.48	ppb	97
67) 1,1,2,2-tetrachloroethane	17.94	83	47567	0.49	ppb	99
68) Propylbenzene	18.56	91	77066m	0.46	ppb	
69) 2-Chlorotoluene	18.60	91	56175m	0.51	ppb	
70) 4-ethyltoluene	18.72	105	59287m	0.48	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	60555m	0.49	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	47652	0.45	ppb	92
73) 1,3-dichlorobenzene	19.51	146	34902	0.44	ppb	97
74) benzyl chloride	19.59	91	34304m	0.45	ppb	
75) 1,4-dichlorobenzene	19.65	146	33917	0.45	ppb	97
76) 1,2,3-trimethylbenzene	19.67	105	50791	0.42	ppb	90
77) 1,2-dichlorobenzene	19.96	146	36352	0.45	ppb	94
78) 1,2,4-trichlorobenzene	21.81	180	19954m	0.53	ppb	
79) Naphthalene	22.00	128	49995m	0.55	ppb	
80) Hexachloro-1,3-butadiene	22.09	225	38311	0.40	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020408.D A204_1UG.M Thu Mar 03 11:05:37 2016 MSD1

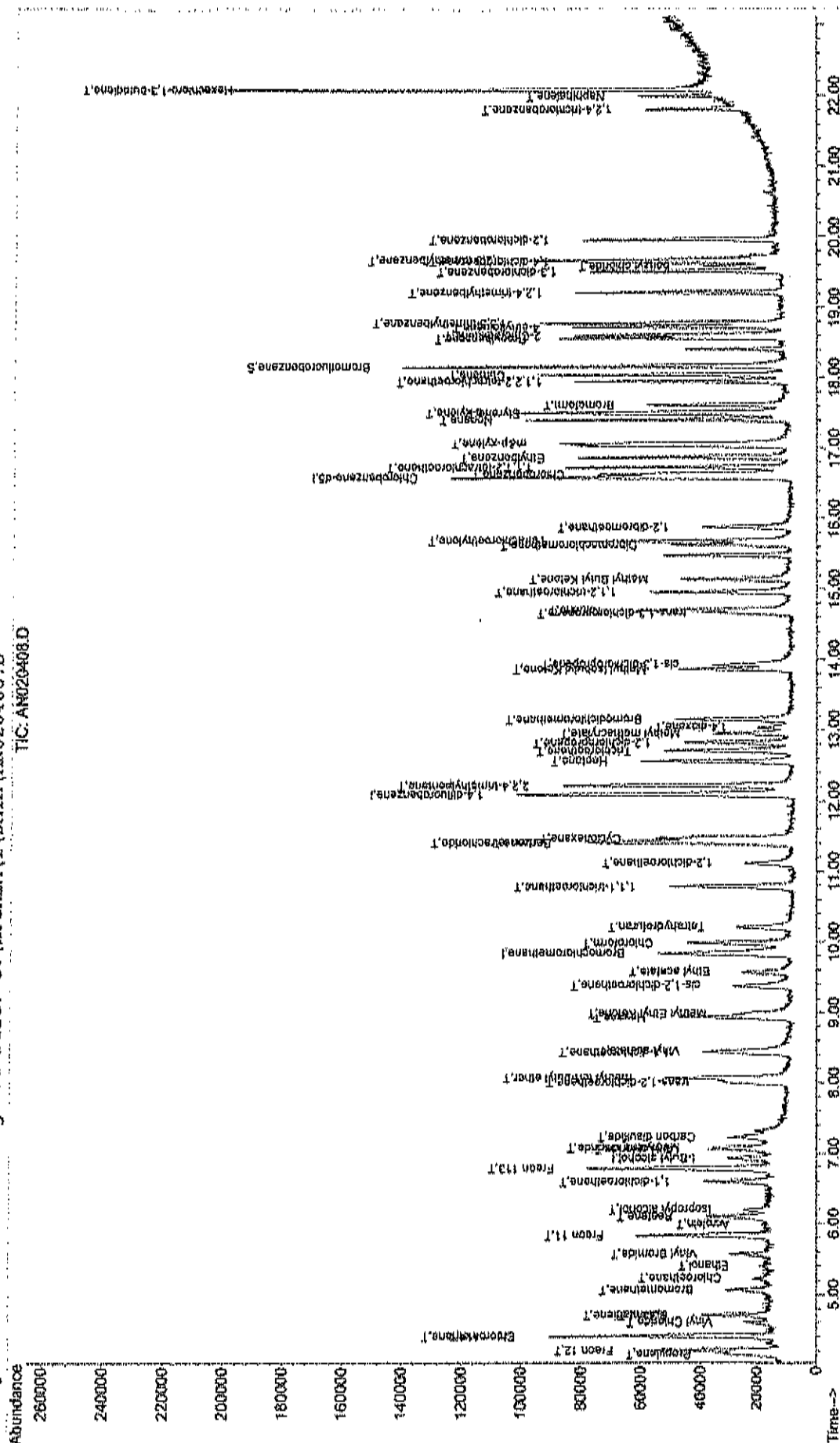
Data File : C:\HPCHEM\1\DATA\AN020408.D
Acq On : 4 Feb 2016 1:21 pm
Sample : A1UG 0.50
Misc : A204_1UG
MS Integration Params: RTEINT.F
Quant Time: Feb 4 14:02 2016

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Method      : C:\HPCHEM\1\METHODS\A204_IUG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

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TIC: A4020408.D



AN020408.D A204 1UG.W Thu Mar 03 11:05:38 2016 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020409.D
 Acq On : 4 Feb 2016 1:58 pm
 Sample : A1UG_0.30
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 14:47:07 2016

Vial: 7
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	25831	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.09	114	111491	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	94152	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	55803	0.82	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.16	41	11277	0.38	ppb	# 100
3) Freon 12	4.21	85	33432	0.30	ppb	98
4) Chloromethane	4.41	50	11528	0.33	ppb	89
5) Freon 114	4.41	85	27908	0.27	ppb	99
6) Vinyl Chloride	4.61	62	7797	0.30	ppb	95
7) Butane	4.70	43	10499	0.31	ppb	96
8) 1,3-butadiene	4.71	39	7119	0.31	ppb	91
9) Bromomethane	5.05	94	9587	0.33	ppb	94
10) Chloroethane	5.23	64	3097	0.29	ppb	# 34
11) Ethanol	5.40	45	2362	0.36	ppb	# 81
12) Acrolein	5.97	56	3020m	0.38	ppb	
13) Vinyl Bromide	5.57	106	9562	0.31	ppb	100
14) Freon 11	5.82	101	34208	0.31	ppb	99
15) Acetone	6.08	58	3461m	0.35	ppb	
16) Pentane	6.10	42	7520	0.36	ppb	94
17) Isopropyl alcohol	6.19	45	11589	0.40	ppb	# 46
18) 1,1-dichloroethene	6.59	96	9684	0.33	ppb	# 86
19) Freon 113	6.78	101	21959	0.31	ppb	97
20) t-Butyl alcohol	6.92	59	17280	0.37	ppb	# 71
21) Methylene chloride	7.07	84	12255	0.34	ppb	# 80
22) Allyl chloride	7.05	41	13429	0.32	ppb	93
23) Carbon disulfide	7.22	76	33516	0.32	ppb	94
24) trans-1,2-dichloroethene	8.01	61	16086	0.32	ppb	90
25) methyl tert-butyl ether	8.06	73	28239	0.30	ppb	84
26) 1,1-dichloroethane	8.43	63	21882	0.31	ppb	100
27) Vinyl acetate	8.46	43	26898	0.34	ppb	96
28) Methyl Ethyl Ketone	9.00	72	4847	0.30	ppb	# 100
29) cis-1,2-dichloroethene	9.38	61	14618	0.32	ppb	94
30) Hexane	8.93	57	17221	0.31	ppb	95
31) Ethyl acetate	9.56	43	25006	0.35	ppb	94
32) Chloroform	9.98	83	25239	0.31	ppb	98
33) Tetrahydrofuran	10.20	42	12267	0.34	ppb	95
34) 1,2-dichloroethane	11.13	62	15584	0.33	ppb	85
36) 1,1,1-trichloroethane	10.78	97	23086	0.30	ppb	97
37) Cyclohexane	11.47	56	16461	0.31	ppb	91
38) Carbon tetrachloride	11.42	117	22432	0.30	ppb	97
39) Benzene	11.41	78	30880	0.32	ppb	98
40) Methyl methacrylate	12.96	41	11859	0.31	ppb	89
41) 1,4-dioxane	13.04	88	6188	0.34	ppb	93
42) 2,2,4-trimethylpentane	12.21	57	61496	0.35	ppb	91
43) Heptane	12.56	43	16068	0.31	ppb	98
44) Trichloroethene	12.71	130	13470	0.32	ppb	99
45) 1,2-dichloropropane	12.82	63	12133	0.32	ppb	95

(#) = qualifier out of range (m) = manual integration

AN020409.D A204_1UG.M

Thu Mar 03 11:05:40 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020409.D

Vial: 7

Acq On : 4 Feb 2016 1:58 pm

Operator: RJP

Sample : A1UG_0.30

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 14:47:07 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 04 13:31:26 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.15	83	22008	0.32	ppb	98
47) cis-1,3-dichloropropene	13.92	75	16685	0.34	ppb	98
48) trans-1,3-dichloropropene	14.65	75	15383	0.33	ppb	93
49) 1,1,2-trichloroethane	14.95	97	14079	0.37	ppb	99
51) Toluene	14.71	92	17801	0.30	ppb	98
52) Methyl Isobutyl Ketone	13.86	43	23620	0.29	ppb	96
53) Dibromochloromethane	15.63	129	18626m	0.31	ppb	
54) Methyl Butyl Ketone	15.15	43	26991	0.37	ppb	93
55) 1,2-dibromoethane	15.88	107	20700	0.28	ppb	93
56) Tetrachloroethylene	15.68	164	12434	0.27	ppb	97
57) Chlorobenzene	16.64	112	27646	0.32	ppb	92
58) 1,1,1,2-tetrachloroethane	16.73	131	14918	0.32	ppb	# 89
59) Ethylbenzene	16.88	91	42011	0.30	ppb	100
60) m&p-xylene	17.07	91	59383	0.56	ppb	91
61) Nonane	17.40	43	21294	0.26	ppb	93
62) Styrene	17.49	104	21284	0.26	ppb	89
63) Bromoform	17.62	173	17630	0.27	ppb	100
64) o-xylene	17.51	91	33905	0.28	ppb	92
65) Cumene	18.04	105	37685	0.26	ppb	96
67) 1,1,2,2-tetrachloroethane	17.95	83	28507	0.28	ppb	97
68) Propylbenzene	18.56	91	48609m	0.28	ppb	
69) 2-Chlorotoluene	18.60	91	32411m	0.28	ppb	
70) 4-ethyltoluene	18.72	105	34678m	0.26	ppb	
71) 1,3,5-trimethylbenzene	18.78	105	35033m	0.27	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	27978	0.25	ppb	92
73) 1,3-dichlorobenzene	19.51	146	20454	0.25	ppb	97
74) benzyl chloride	19.58	91	22937m	0.29	ppb	
75) 1,4-dichlorobenzene	19.64	146	19059	0.24	ppb	94
76) 1,2,3-trimethylbenzene	19.67	105	28865	0.23	ppb	94
77) 1,2-dichlorobenzene	19.96	146	20973	0.25	ppb	97
78) 1,2,4-trichlorobenzene	21.81	180	11260m	0.28	ppb	
79) Naphthalene	22.00	128	31577m	0.33	ppb	
80) Hexachloro-1,3-butadiene	22.08	225	22178	0.22	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020409.D A204_1UG.M Thu Mar 03 11:05:41 2016 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020410.D
 Acq On : 4 Feb 2016 2:34 pm
 Sample : A1UG_0.15
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 15:08:08 2016

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.83	128	24804	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.09	114	109192	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	95402	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	56765m	0.82	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.16	41	6172	0.21	ppb	# 100
3) Freon 12	4.21	85	17959	0.17	ppb	100
4) Chloromethane	4.41	50	6507	0.20	ppb	89
5) Freon 114	4.41	85	15207	0.16	ppb	96
6) Vinyl Chloride	4.61	62	4489	0.18	ppb	95
7) Butane	4.70	43	5370m	0.16	ppb	
8) 1,3-butadiene	4.71	39	3871m	0.18	ppb	
9) Bromomethane	5.06	94	5417	0.19	ppb	96
10) Chloroethane	5.22	64	1956	0.19	ppb	# 60
11) Ethanol	5.41	45	930m	0.18	ppb	
12) Acrolein	5.98	56	1037m	0.14	ppb	
13) Vinyl Bromide	5.57	106	4948	0.17	ppb	94
14) Freon 11	5.83	101	18510	0.17	ppb	97
15) Acetone	6.10	58	1894m	0.20	ppb	
16) Pentane	6.09	42	3342	0.16	ppb	# 43
17) Isopropyl alcohol	6.19	45	5165	0.19	ppb	# 46
18) 1,1-dichloroethene	6.59	96	5184	0.18	ppb	# 83
19) Freon 113	6.77	101	11494	0.17	ppb	96
20) t-Butyl alcohol	6.94	59	9383	0.21	ppb	# 32
21) Methylene chloride	7.07	84	4928	0.14	ppb	94
22) Allyl chloride	7.05	41	5292m	0.13	ppb	
23) Carbon disulfide	7.22	76	19251	0.19	ppb	81
24) trans-1,2-dichloroethene	8.00	61	8110	0.17	ppb	90
25) methyl tert-butyl ether	8.07	73	16317	0.18	ppb	76
26) 1,1-dichloroethane	8.43	63	11497	0.17	ppb	96
27) Vinyl acetate	8.47	43	13085	0.17	ppb	88
28) Methyl Ethyl Ketone	9.01	72	2382	0.16	ppb	# 100
29) cis-1,2-dichloroethene	9.40	61	7379	0.17	ppb	91
30) Hexane	8.94	57	8383	0.16	ppb	93
31) Ethyl acetate	9.58	43	14191	0.20	ppb	89
32) Chloroform	9.98	83	13293	0.17	ppb	98
33) Tetrahydrofuran	10.22	42	6374	0.18	ppb	98
34) 1,2-dichloroethane	11.13	62	8281	0.18	ppb	87
36) 1,1,1-trichloroethane	10.78	97	12068	0.16	ppb	98
37) Cyclohexane	11.48	56	8346	0.16	ppb	88
38) Carbon tetrachloride	11.43	117	11645	0.16	ppb	96
39) Benzene	11.40	78	15787	0.17	ppb	97
40) Methyl methacrylate	12.96	41	5860	0.16	ppb	# 77
41) 1,4-dioxane	13.05	88	3623	0.21	ppb	96
42) 2,2,4-trimethylpentane	12.21	57	28749	0.17	ppb	97
43) Heptane	12.56	43	9743	0.19	ppb	94
44) Trichloroethene	12.71	130	6943	0.17	ppb	96
45) 1,2-dichloropropane	12.82	63	6726	0.18	ppb	97

(#) = qualifier out of range (m) = manual integration

AN020410.D A204_1UG.M

Thu Mar 03 11:05:44 2016

MSD1

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020410.D
 Acq On : 4 Feb 2016 2:34 pm
 Sample : A1UG_0.15
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 04 15:08:08 2016

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 04 13:31:26 2016
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.15	93	11597	0.17	ppb	100
47) cis-1,3-dichloropropene	13.94	75	9531	0.20	ppb	97
48) trans-1,3-dichloropropene	14.67	75	8168	0.18	ppb	92
49) 1,1,2-trichloroethane	14.97	97	7592	0.21	ppb	99
51) Toluene	14.71	92	9611	0.16	ppb	# 84
52) Methyl Isobutyl Ketone	13.87	43	15078	0.18	ppb	88
53) Dibromochloromethane	15.63	129	10784m	0.17	ppb	
54) Methyl Butyl Ketone	15.15	43	15519	0.21	ppb	92
55) 1,2-dibromoethane	15.89	107	12142	0.16	ppb	99
56) Tetrachloroethylene	15.68	164	6818	0.15	ppb	96
57) Chlorobenzene	16.64	112	15532	0.17	ppb	97
58) 1,1,1,2-tetrachloroethane	16.74	131	8163	0.17	ppb	# 84
59) Ethylbenzene	16.88	91	23290	0.16	ppb	100
60) m&p-xylene	17.07	91	32846	0.31	ppb	92
61) Nonane	17.41	43	12585	0.15	ppb	93
62) Styrene	17.49	104	11451	0.14	ppb	94
63) Bromoform	17.62	173	9755	0.15	ppb	96
64) o-xylene	17.51	91	18030	0.14	ppb	88
65) Cumene	18.05	105	22256	0.15	ppb	97
67) 1,1,2,2-tetrachloroethane	17.95	83	15526	0.16	ppb	97
68) Propylbenzene	18.56	91	23468m	0.13	ppb	
69) 2-Chlorotoluene	18.61	91	19149m	0.16	ppb	
70) 4-ethyltoluene	18.73	105	18694m	0.14	ppb	
71) 1,3,5-trimethylbenzene	18.77	105	19077m	0.15	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	14954	0.13	ppb	91
73) 1,3-dichlorobenzene	19.52	146	10644	0.13	ppb	94
74) benzyl chloride	19.59	91	10444	0.13	ppb	95
75) 1,4-dichlorobenzene	19.65	146	10064	0.12	ppb	97
76) 1,2,3-trimethylbenzene	19.67	105	17577	0.14	ppb	98
77) 1,2-dichlorobenzene	19.96	146	11391	0.13	ppb	94
78) 1,2,4-trichlorobenzene	21.81	180	5773m	0.14	ppb	
79) Naphthalene	22.00	128	16967m	0.17	ppb	
80) Hexachloro-1,3-butadiene	22.09	225	12302m	0.12	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020410.D A204_1UG.M Thu Mar 03 11:05:45 2016 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN020412.D

Vial: 10

Acq On : 4 Feb 2016 3:48 pm

Operator: RJP

Sample : A1UG_0.04

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 16:14:07 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 04 13:31:26 2016

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.84	128	24642	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.10	114	110671	1.00	ppb	0.00
50) Chlorobenzene-d5	16.59	117	92583	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	54524	0.82	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%

Target Compounds

					Qvalue
6) Vinyl Chloride	4.60	62	1435	0.06	ppb 86
38) Carbon tetrachloride	11.43	117	4131m <i>β</i>	0.05	ppb
44) Trichloroethene	12.73	130	2337	0.06	ppb 97

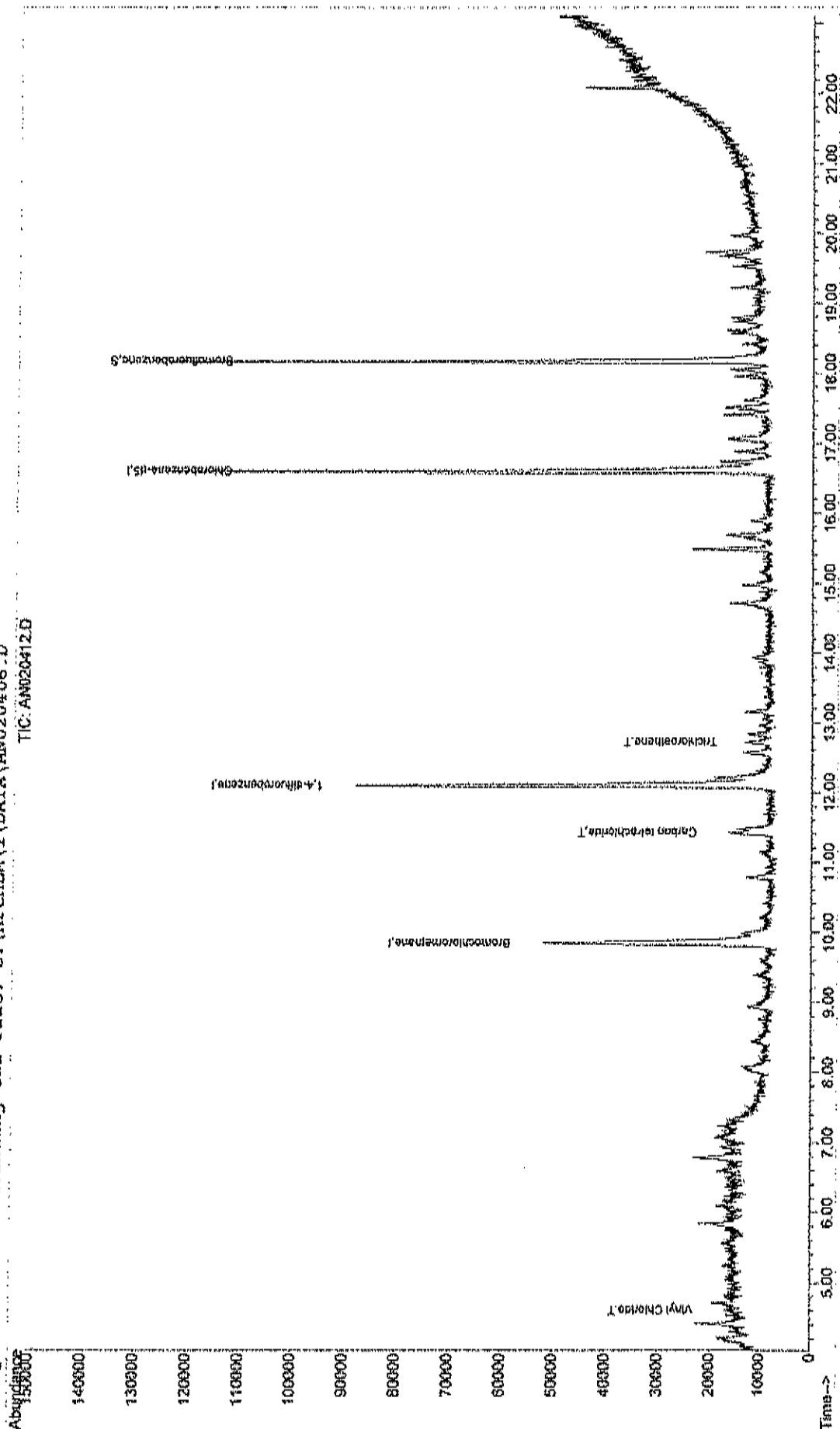
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN020412.D A204_1UG.M Thu Mar 03 11:06:06 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN020412.D
Acq On : 4 Feb 2016 3:48 pm
Sample : ALUG 0.04
Misc : A204_IUG
MS Integration Params: RTEINT.P
Quant Time: Feb 4 16:15 2016

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_IUG.RES

Method : C:\HPCHEM\1\METHODS\A204_IUG.M (RTS Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AN020406.D



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AN022303.D

Vial: 3

Acq On : 23 Feb 2016 10:53 am

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 03 10:59:01 2016

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min

Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	136	0.00
2 T	Propylene	1.239	0.897	27.6	105	0.00
3 T	Freon 12	4.355	3.910	10.2	122	0.00
4 T	Chloromethane	1.318	1.023	22.4	102	0.00
5 T	Freon 114	3.638	3.679	-1.1	127	0.00
6 T	Vinyl Chloride	1.045	0.956	8.5	127	0.00
7 T	Butane	1.275	0.982	23.0	100	0.00
8 T	1,3-butadiene	0.889	0.632	28.9	94	0.00
9 T	Bromomethane	1.193	1.266	-6.1	152#	0.00
10 T	Chloroethane	0.418	0.417	0.2	139	0.00
11 T	Ethanol	0.256	0.312	-21.9	165#	0.00
12 T	Acrolein	0.310	0.274	11.6	127	0.00
13 T	Vinyl Bromide	1.197	1.322	-10.4	151#	0.00
14 T	Freon 11	4.372	4.791	-9.6	150#	0.00
15 T	Acetone	0.423	0.395	6.6	136	0.00
16 T	Pentane	0.841	0.802	4.6	132	0.00
17 T	Isopropyl alcohol	1.220	1.017	16.6	123	0.00
18 T	1,1-dichloroethene	1.163	1.261	-8.4	149	0.00
19 T	Freon 113	2.761	3.193	-15.6	159#	0.00
20 t	t-Butyl alcohol	2.203	2.389	-8.4	176#	0.00
21 T	Methylene chloride	1.313	1.360	-3.6	132	0.00
22 T	Allyl chloride	1.494	1.244	16.7	101	0.00
23 T	Carbon disulfide	4.098	3.888	5.1	130	0.00
24 T	trans-1,2-dichloroethene	2.029	1.739	14.3	122	0.00
25 T	methyl tert-butyl ether	3.703	2.710	26.8	102	0.00
26 T	1,1-dichloroethane	2.780	2.468	11.2	122	0.00
27 T	Vinyl acetate	3.306	2.351	28.9	103	0.00
28 T	Methyl Ethyl Ketone	0.649	0.592	8.8	128	0.00
29 T	cis-1,2-dichloroethene	1.841	1.366	25.8	104	0.00
30 T	Hexane	2.185	1.557	28.7	98	0.00
31 T	Ethyl acetate	3.069	2.230	27.3	107	0.00
32 T	Chloroform	3.241	2.958	8.7	126	0.00
33 T	Tetrahydrofuran	1.511	1.103	27.0	105	0.00
34 T	1,2-dichloroethane	1.934	1.568	18.9	116	0.00
35 I	1,4-difluorobenzene	1.000	1.000	0.0	110	0.00
36 T	1,1,1-trichloroethane	0.694	0.796	-14.7	126	0.00
37 T	Cyclohexane	0.474	0.411	13.3	97	0.00
38 T	Carbon tetrachloride	0.708	0.846	-19.5	137	0.00
39 T	Benzene	0.883	0.896	-1.5	115	0.00
40 T	Methyl methacrylate	0.353	0.276	21.8	88	0.00
41 T	1,4-dioxane	0.179	0.172	3.9	118	0.00
42 T	2,2,4-trimethylpentane	1.634	1.453	11.1	102	0.00
43 T	Heptane	0.498	0.367	26.3	88	0.00
44 T	Trichloroethene	0.408	0.425	-4.2	123	0.00
45 T	1,2-dichloropropane	0.346	0.360	-4.0	118	0.00
46 T	Bromodichloromethane	0.638	0.750	-17.6	135	0.00
47 T	cis-1,3-dichloropropene	0.469	0.476	-1.5	120	0.00
48 T	trans-1,3-dichloropropene	0.428	0.392	8.4	104	0.00
49 T	1,1,2-trichloroethane	0.362	0.389	-7.5	128	0.00

(#) = Out of Range

AN022303.D A204_1UG.M

Thu Mar 03 11:18:07 2016

MSD1

Page 1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AN022303.D

Vial: 3

Acq On : 23 Feb 2016 10:53 am

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Mar 03 10:59:01 2016

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min

Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51 T	Toluene	0.669	0.606	9.4	108	0.00
52 T	Methyl Isobutyl Ketone	0.938	0.849	9.5	112	0.00
53 T	Dibromochloromethane	0.723	0.914	-26.4	153#	0.00
54 T	Methyl Butyl Ketone	0.917	0.821	10.5	122	0.00
55 T	1,2-dibromoethane	0.788	0.853	-8.2	125	0.00
56 T	Tetrachloroethylene	0.472	0.513	-8.7	122	0.00
57 T	Chlorobenzene	0.958	0.934	2.5	115	0.00
58 T	1,1,1,2-tetrachloroethane	0.510	0.612	-20.0	140	0.00
59 T	Ethylbenzene	1.472	1.247	15.3	97	0.00
60 T	m&p-xylene	1.127	1.020	9.5	105	0.00
61 T	Nonane	0.916	0.695	24.1	91	0.00
62 T	Styrene	0.869	0.837	3.7	111	0.00
63 T	Bromoform	0.680	0.869	-27.8	145	0.00
64 T	o-xylene	1.298	1.407	-8.4	124	0.00
65 T	Cumene	1.598	1.312	17.9	99	0.00
66 S	Bromofluorobenzene	0.681	0.727	-6.8	115	0.00
67 T	1,1,2,2-tetrachloroethane	1.163	1.291	-11.0	135	0.00
68 T	Propylbenzene	1.894	1.636	13.6	107	0.00
69 T	2-Chlorotoluene	1.291	1.185	8.2	109	0.00
70 T	4-ethyltoluene	1.462	1.245	14.8	100	0.00
71 T	1,3,5-trimethylbenzene	1.426	1.332	6.6	112	0.00
72 T	1,2,4-trimethylbenzene	1.226	1.015	17.2	98	0.00
73 T	1,3-dichlorobenzene	0.886	0.941	-6.2	122	0.00
74 T	benzyl chloride	0.837	0.998	-19.2	136	0.00
75 T	1,4-dichlorobenzene	0.854	0.880	-3.0	119	0.00
76 T	1,2,3-trimethylbenzene	1.353	1.259	6.9	108	0.00
77 T	1,2-dichlorobenzene	0.908	0.980	-7.9	125	0.00
78 T	1,2,4-trichlorobenzene	0.493	0.488	1.0	116	0.00
79 T	Naphthalene	1.286	1.281	0.4	116	0.00
80 T	Hexachloro-1,3-butadiene	1.029	1.186	-15.3	126	0.00

Data File : C:\HPCHEM\1\DATA\AN022303.D

Vial: 3

Acq On : 23 Feb 2016 10:53 am

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 23 11:24:59 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	35133	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.08	114	123693	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.58	117	87251	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	63400	1.07	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	107.00%

Target Compounds

						Qvalue
2) Propylene	4.15	41	31503	0.72	ppb	# 100
3) Freon 12	4.20	85	137358	0.90	ppb	100
4) Chloromethane	4.39	50	35940	0.78	ppb	93
5) Freon 114	4.40	85	129243	1.01	ppb	93
6) Vinyl Chloride	4.59	62	33590	0.91	ppb	92
7) Butane	4.69	43	34516	0.77	ppb	96
8) 1,3-butadiene	4.69	39	22204	0.71	ppb	67
9) Bromomethane	5.04	94	44465	1.06	ppb	97
10) Chloroethane	5.22	64	14662	1.00	ppb	88
11) Ethanol	5.37	45	10968	1.22	ppb	# 60
12) Acrolein	5.96	56	9613m	0.88	ppb	
13) Vinyl Bromide	5.55	106	46434	1.10	ppb	94
14) Freon 11	5.81	101	168318	1.10	ppb	99
15) Acetone	6.06	58	13879	0.93	ppb	# 73
16) Pentane	6.08	42	28171	0.95	ppb	94
17) Isopropyl alcohol	6.16	45	35714	0.83	ppb	# 46
18) 1,1-dichloroethene	6.58	96	44310	1.08	ppb	# 82
19) Freon 113	6.76	101	112188	1.16	ppb	91
20) t-Butyl alcohol	6.90	59	83924	1.08	ppb	94
21) Methylene chloride	7.06	84	47764	1.04	ppb	90
22) Allyl chloride	7.03	41	43701m	0.83	ppb	
23) Carbon disulfide	7.21	76	136595	0.95	ppb	# 72
24) trans-1,2-dichloroethene	7.99	61	61089m	0.86	ppb	
25) methyl tert-butyl ether	8.04	73	95224	0.73	ppb	88
26) 1,1-dichloroethane	8.41	63	86724	0.89	ppb	99
27) Vinyl acetate	8.44	43	82589m	0.71	ppb	
28) Methyl Ethyl Ketone	8.96	72	20797	0.91	ppb	# 100
29) cis-1,2-dichloroethene	9.35	61	47998	0.74	ppb	88
30) Hexane	8.91	57	54698	0.71	ppb	93
31) Ethyl acetate	9.54	43	78352	0.73	ppb	91
32) Chloroform	9.97	83	103912	0.91	ppb	99
33) Tetrahydrofuran	10.18	42	38741m	0.73	ppb	
34) 1,2-dichloroethane	11.09	62	55095	0.81	ppb	87
36) 1,1,1-trichloroethane	10.77	97	98398	1.15	ppb	98
37) Cyclohexane	11.46	56	50882	0.87	ppb	95
38) Carbon tetrachloride	11.41	117	104587	1.19	ppb	99
39) Benzene	11.38	78	110840	1.02	ppb	94
40) Methyl methacrylate	12.93	41	34193	0.78	ppb	# 80
41) 1,4-dioxane	13.01	88	21253	0.96	ppb	98
42) 2,2,4-trimethylpentane	12.21	57	179693	0.89	ppb	94
43) Heptane	12.55	43	45377	0.74	ppb	88
44) Trichloroethene	12.69	130	52514	1.04	ppb	98
45) 1,2-dichloropropane	12.81	63	44539	1.04	ppb	97

(#) = qualifier out of range (m) = manual integration

AN022303.D A204_1UG.M

Thu Mar 03 11:18:11 2016

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AN022303.D

Vial: 3

Acq On : 23 Feb 2016 10:53 am

Operator: RJP

Sample : A1UG_1.0

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 23 11:24:59 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	92772	1.18	ppb	99
47) cis-1,3-dichloropropene	13.91	75	58902	1.01	ppb	97
48) trans-1,3-dichloropropene	14.65	75	48503	0.92	ppb	91
49) 1,1,2-trichloroethane	14.95	97	48158	1.08	ppb	96
51) Toluene	14.69	92	52869	0.91	ppb	95
52) Methyl Isobutyl Ketone	13.85	43	74076	0.90	ppb	94
53) Dibromochloromethane	15.62	129	79707m	1.26	ppb	
54) Methyl Butyl Ketone	15.13	43	71594	0.89	ppb	95
55) 1,2-dibromoethane	15.86	107	74384	1.08	ppb	97
56) Tetrachloroethylene	15.67	164	44762	1.09	ppb	99
57) Chlorobenzene	16.62	112	81481	0.97	ppb	89
58) 1,1,1,2-tetrachloroethane	16.72	131	53389	1.20	ppb	92
59) Ethylbenzene	16.87	91	108844	0.85	ppb	99
60) m&p-xylene	17.06	91	178079	1.81	ppb	93
61) Nonane	17.40	43	60638	0.76	ppb	96
62) Styrene	17.48	104	73027	0.96	ppb	83
63) Bromoform	17.60	173	75862m	1.28	ppb	
64) o-xylene	17.50	91	122805	1.08	ppb	100
65) Cumene	18.03	105	114495	0.82	ppb	98
67) 1,1,2,2-tetrachloroethane	17.94	83	112653	1.11	ppb	99
68) Propylbenzene	18.55	91	142701m	0.86	ppb	
69) 2-Chlorotoluene	18.60	91	103403m	0.92	ppb	
70) 4-ethyltoluene	18.71	105	108613m	0.85	ppb	
71) 1,3,5-trimethylbenzene	18.77	105	116238m	0.93	ppb	
72) 1,2,4-trimethylbenzene	19.20	105	88523	0.83	ppb	92
73) 1,3-dichlorobenzene	19.50	146	82137	1.06	ppb	97
74) benzyl chloride	19.58	91	87054	1.19	ppb	98
75) 1,4-dichlorobenzene	19.64	146	76805	1.03	ppb	96
76) 1,2,3-trimethylbenzene	19.67	105	109806	0.93	ppb	91
77) 1,2-dichlorobenzene	19.95	146	85472	1.08	ppb	97
78) 1,2,4-trichlorobenzene	21.80	180	42597m	0.99	ppb	
79) Naphthalene	22.00	128	111809m	1.00	ppb	
80) Hexachloro-1,3-butadiene	22.08	225	103455	1.15	ppb	99

Quant Results File: A204 IUG.RBS

TIC: AN022303.D



Thu Mar 03 11:18:13 2016

AN022303.D A204 1UG.M

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AN020401.D

Acq On : 4 Feb 2016 8:43 am

Sample : BFB1UG

Misc : A131_1UG

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

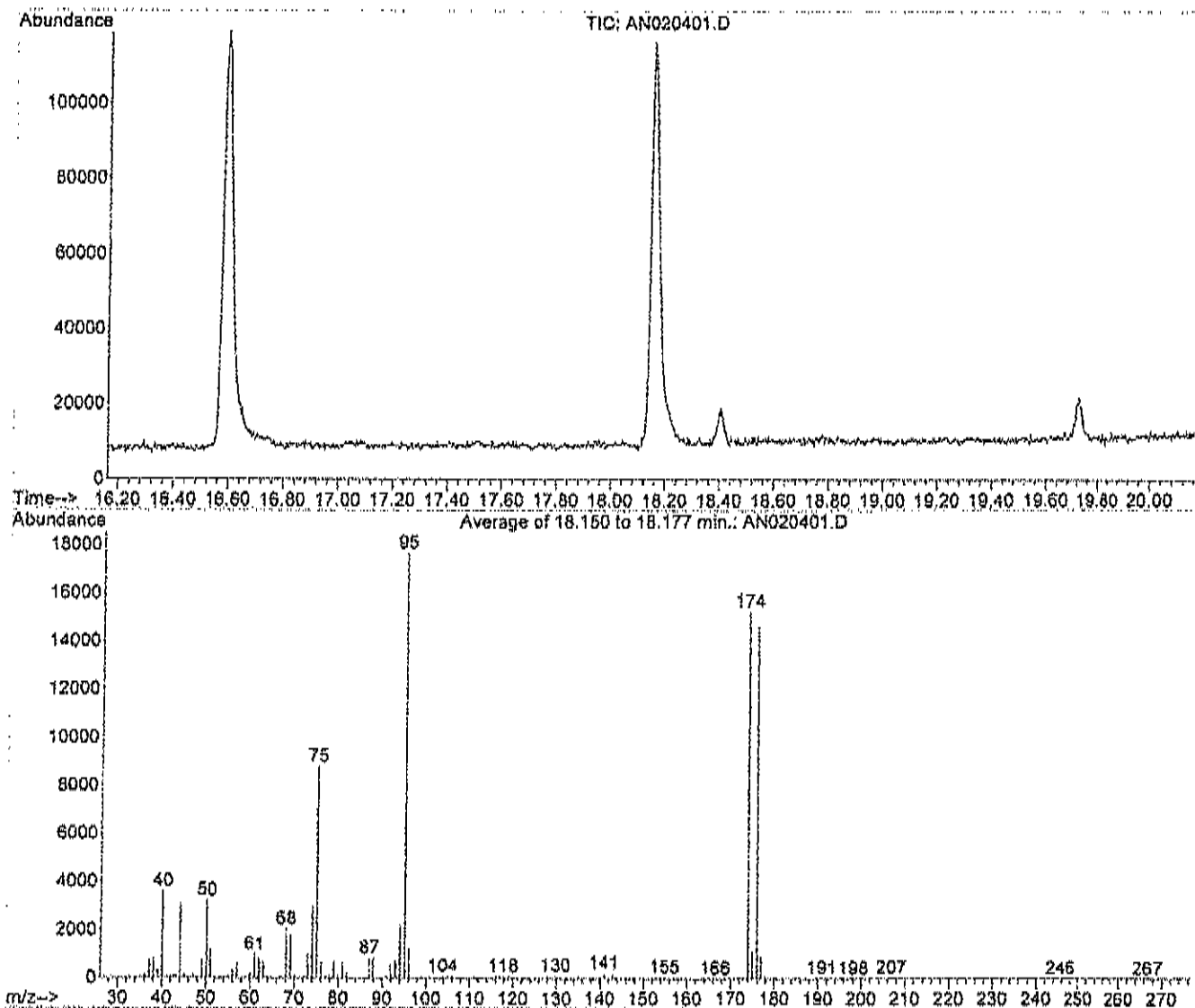
Title : TO-15 VOA Standards for 5 point calibration

Vial: 11

Operator: RJP

Inst : MSD #1

Multiplr: 1.00



Spectrum Information: Average of 18.150 to 18.177 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.3	3242	PASS
75	95	30	66	49.8	8816	PASS
95	95	100	100	100.0	17690	PASS
96	95	5	9	7.0	1235	PASS
173	174	0.00	2	0.4	55	PASS
174	95	50	120	86.3	15262	PASS
175	174	4	9	7.3	1107	PASS
176	174	95	101	96.2	14681	PASS
177	176	5	9	6.4	936	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AN022302.D

Vial: 2

Acq On : 23 Feb 2016 10:11 am

Operator: RJP

Sample : BFB1UG

Inst : MSD #1

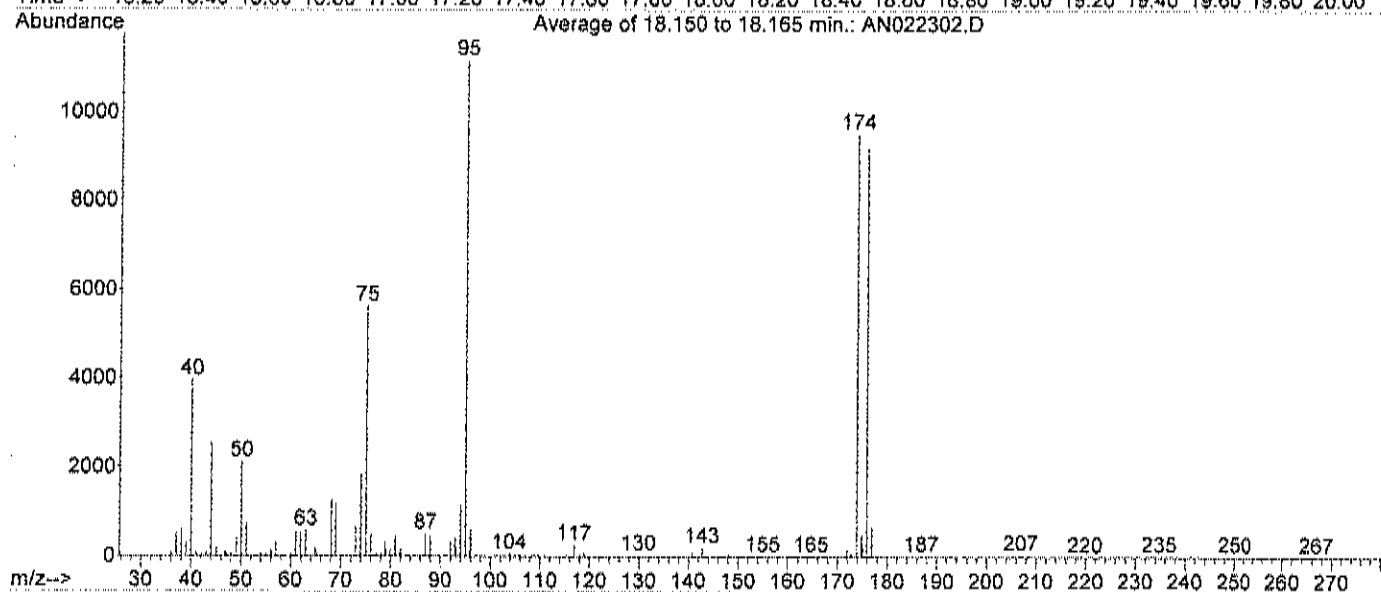
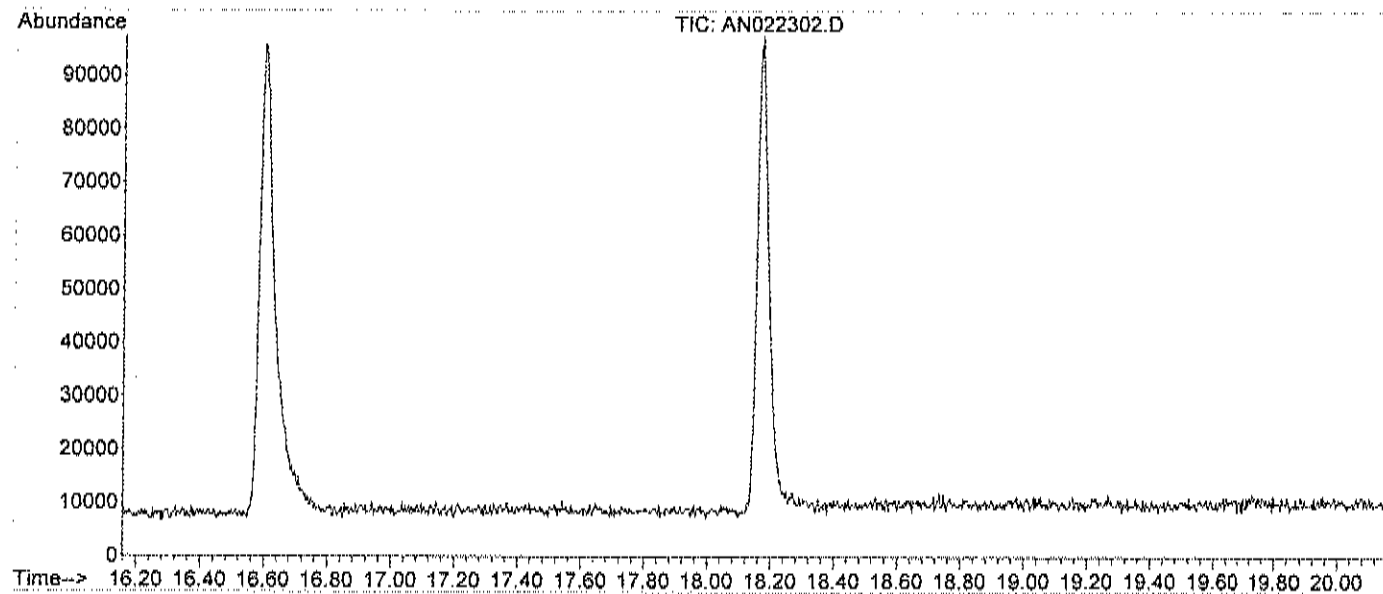
Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 18.150 to 18.165 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.0	2126	PASS
75	95	30	66	50.4	5630	PASS
95	95	100	100	100.0	11181	PASS
96	95	5	9	5.4	608	PASS
173	174	0.00	2	0.8	79	PASS
174	95	50	120	85.3	9539	PASS
175	174	4	9	5.1	490	PASS
176	174	95	101	96.7	9221	PASS
177	176	5	9	7.3	669	PASS

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA



Date: 03-Mar-16

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-022316	Sample Type: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID: ZZZZZ		Batch ID: R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125798					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:		Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits		NID	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits					

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-022316	Sample Type	MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID:	ZZZZZ	Batch ID:	R10690	Test(No: TO-15		Analysis Date: 2/23/2016	SeqNo: 125798					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide		< 0.15	0.15									
Carbon tetrachloride		< 0.040	0.040									
Chlorobenzene		< 0.15	0.15									
Chloroethane		< 0.15	0.15									
Chloroform		< 0.15	0.15									
Chloromethane		< 0.15	0.15									
cis-1,2-Dichloroethene		< 0.15	0.15									
cis-1,3-Dichloropropene		< 0.15	0.15									
Cyclohexane		< 0.15	0.15									
Dibromochloromethane		< 0.15	0.15									
Ethyl acetate		< 0.25	0.25									
Ethylbenzene		< 0.15	0.15									
Freon 11		< 0.15	0.15									
Freon 113		< 0.15	0.15									
Freon 114		< 0.15	0.15									
Freon 12		< 0.15	0.15									
Heptane		< 0.15	0.15									
Hexachloro-1,3-butadiene		< 0.15	0.15									
Hexane		< 0.15	0.15									
isopropyl alcohol		< 0.15	0.15									
m&p-Xylene		< 0.30	0.30									
Methyl Butyl Ketone		< 0.30	0.30									
Methyl Ethyl Ketone		< 0.30	0.30									
Methyl Isobutyl Ketone		< 0.30	0.30									
Methyl tert-butyl ether		< 0.15	0.15									
Methylene chloride		< 0.15	0.15									
o-Xylene		< 0.15	0.15									
Propylene		< 0.15	0.15									
Styrene		< 0.15	0.15									
Tetrachloroethylene		< 0.15	0.15									
Tetrahydrofuran		< 0.15	0.15									

Qualifiers: J Results reported are not blank corrected
S Analyte detected at or below quantitation limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-022316	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690						
Client ID: ZZZZZ		Batch ID: R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125798						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HightLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		< 0.15	0.15									
trans-1,2-Dichloroethene		< 0.15	0.15									
trans-1,3-Dichloropropene		< 0.15	0.15									
Trichloroethene		< 0.040	0.040									
Vinyl acetate		< 0.15	0.15									
Vinyl Bromide		< 0.15	0.15									
Vinyl chloride		< 0.040	0.040									

Qualifiers:		Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	
S	Spike Recovery outside accepted recovery limits					

Page 3 of 3

Data File : C:\HPCHEM\1\DATA\AN022305.D

Vial: 5

Acq On : 23 Feb 2016 12:08 pm

Operator: RJP

Sample : AMB1UG-022316

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 25 08:23:03 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.87	128	30279	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.11	114	107011	1.00	ppb	0.03
50) Chlorobenzene-d5	16.60	117	98861	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.17	95	48456m	0.72	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	72.00%

Target Compounds

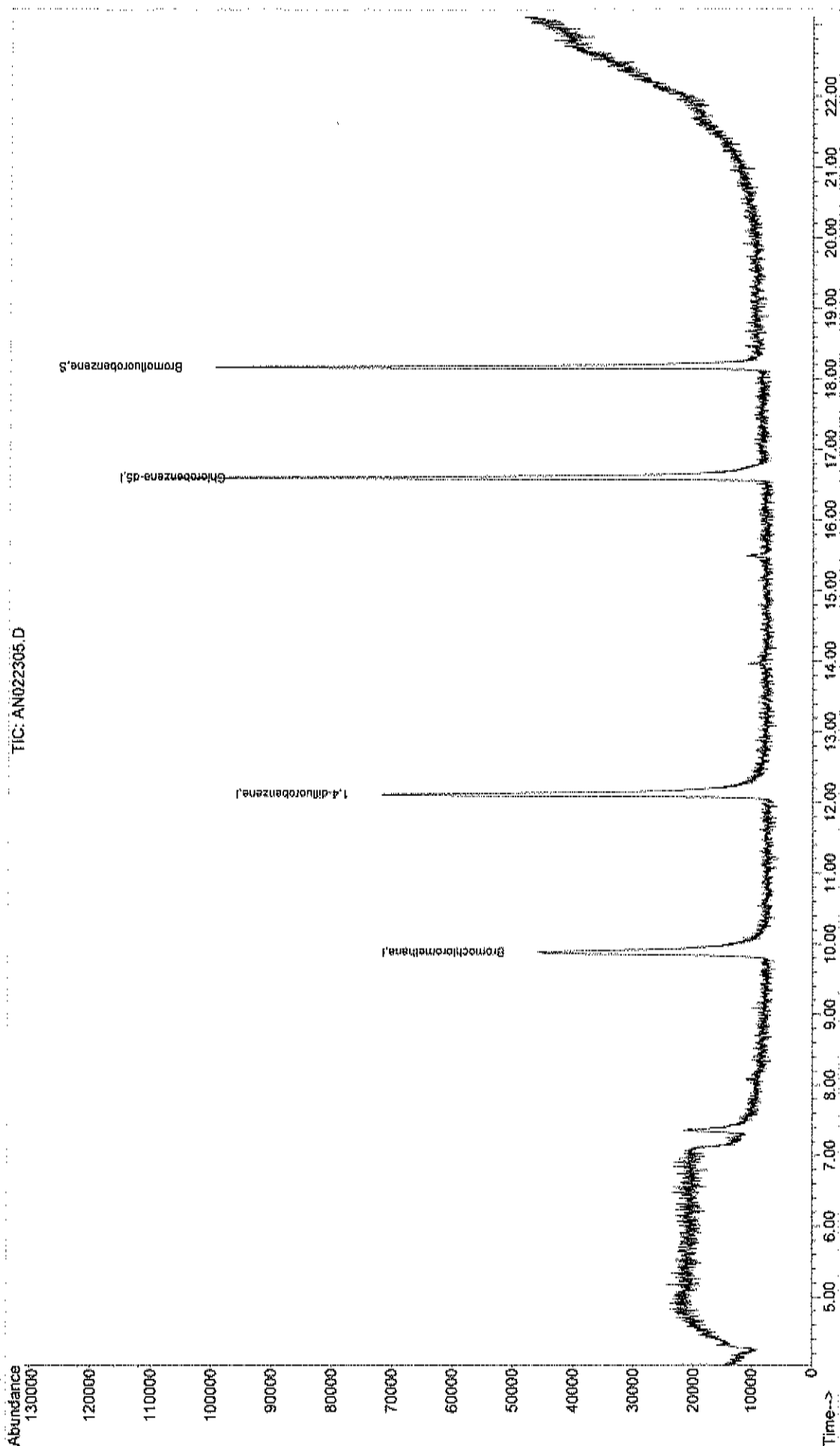
Qvalue

Data File : C:\HPCHEM\1\DATA\AN022305.D
Acq On : 23 Feb 2016 12:08 pm
Sample : AMB1UG-022316
Misc : A204_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 25 8:23 2016

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A204_1UG.RES

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration



Date: 03-Mar-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	C1602050-005A MS	MS	SampleType: MS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690				
Client ID:	Rm 117 Ms/MSD	Batch ID: R10690	TestNo: TO-15	Analysis Date: 2/23/2016	SeqNo: 125812						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.130	0.15	1	0	113	70	130				S
1,1,2,2-Tetrachloroethane	1.280	0.15	1	0	128	70	130				
1,1,2-Trichloroethane	0.9900	0.15	1	0	99.0	70	130				
1,1-Dichloroethane	0.9100	0.15	1	0	91.0	70	130				
1,1-Dichloroethene	1.120	0.15	1	0	112	70	130				
1,2,4-Trichlorobenzene	0.9100	0.15	1	0	91.0	70	130				
1,2,4-Trimethylbenzene	1.380	0.15	1	0	138	70	130				
1,2-Dibromoethane	0.9400	0.15	1	0	94.0	70	130				
1,2-Dichlorobenzene	1.290	0.15	1	0	129	70	130				
1,2-Dichloroethane	0.7200	0.15	1	0	72.0	70	130				
1,2-Dichloropropane	0.9800	0.15	1	0	98.0	70	130				
1,3,5-Trimethylbenzene	1.260	0.15	1	0	126	70	130				
1,3-butadiene	1.190	0.15	1	0	119	70	130				
1,3-Dichlorobenzene	1.210	0.15	1	0	121	70	130				
1,4-Dichlorobenzene	1.150	0.15	1	0	115	70	130				
1,4-Dioxane	0.9700	0.30	1	0	97.0	70	130				
2,2,4-trimethylpentane	0.9500	0.15	1	0	95.0	70	130				
4-ethyltoluene	1.130	0.15	1	0	113	70	130				
Acetone	5.170	0.30	1	5.7	-53.0	70	130				
Allyl chloride	0.8400	0.15	1	0	84.0	70	130				
Benzene	1.200	0.15	1	0	120	70	130				
Benzyl chloride	1.100	0.15	1	0	110	70	130				
Bromodichloromethane	1.150	0.15	1	0	115	70	130				
Bromoform	1.090	0.15	1	0	109	70	130				
Bromomethane	1.190	0.15	1	0	119	70	130				

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 R Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1602050
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID C1602050-005A MS		MS	SampleType: MS	TestCode: 0.25CT-TCE-		Units: ppbV	Prep Date:		RunNo: 10690		
Client ID: Rm 117 Ms/MSD		Batch ID: R10690		TestNo: TO-15			Analysis Date: 2/23/2016		SeqNo: 125812		
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9800	0.15	1	0	98.0	70	130				
Carbon tetrachloride	1.370	0.040	1	0	137	70	130				S
Chlorobenzene	0.8400	0.15	1	0	84.0	70	130				
Chloroethane	1.180	0.15	1	0	118	70	130				
Chloroform	1.120	0.15	1	0	112	70	130				
Chloromethane	1.260	0.15	1	0	126	70	130				
cis-1,2-Dichloroethene	0.7600	0.15	1	0	76.0	70	130				
cis-1,3-Dichloropropene	0.9300	0.15	1	0	93.0	70	130				
Cyclohexane	1.210	0.15	1	0	121	70	130				
Dibromochloromethane	1.120	0.15	1	0	112	70	130				
Ethyl acetate	0.7200	0.25	1	0	72.0	70	130				
Ethylbenzene	0.7700	0.15	1	0	77.0	70	130				
Freon 11	1.510	0.15	1	0	151	70	130				S
Freon 113	1.480	0.15	1	0	148	70	130				S
Freon 114	1.190	0.15	1	0	119	70	130				
Freon 12	1.500	0.15	1	0	150	70	130				S
Heptane	0.8800	0.15	1	0	88.0	70	130				
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	70	130				
Hexane	1.300	0.15	1	0	130	70	130				
Isopropyl alcohol	2.390	0.15	1	0	239	70	130				S
m&p-Xylene	1.760	0.30	2	0	88.0	70	130				
Methyl Butyl Ketone	1.030	0.30	1	0	103	70	130				
Methyl Ethyl Ketone	1.400	0.30	1	0	140	70	130				S
Methyl Isobutyl Ketone	1.140	0.30	1	0	114	70	130				
Methyl tert-butyl ether	0.7000	0.15	1	0	70.0	70	130				
Methylene chloride	1.330	0.15	1	0	133	70	130				S
o-Xylene	1.030	0.15	1	0	103	70	130				
Propylene	1.430	0.15	1	0	143	70	130				
Styrene	0.8800	0.15	1	0	88.0	70	130				S
Tetrachloroethylene	1.140	0.15	1	0	114	70	130				
Tetrahydrofuran	0.7000	0.15	1	0	70.0	70	130				

Qualifiers: J Results reported are not blank corrected
S Analytic detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	C1602050-005A MS	MS	Batch ID: R10690	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690				
Client ID:	Rm 117 Ms/MSD	MS	Batch ID: R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125812				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.840	0.15	1	0	184	70	130				S
trans-1,2-Dichloroethene	0.9300	0.15	1	0	93.0	70	130				
trans-1,3-Dichloropropene	0.8500	0.15	1	0	85.0	70	130				
Trichloroethene	1.050	0.040	1	0	105	70	130				
Vinyl acetate	0.7000	0.15	1	0	70.0	70	130				
Vinyl Bromide	1.180	0.15	1	0	118	70	130				
Vinyl chloride	1.060	0.040	1	0	106	70	130				
Surr: Bromofluorobenzene	1.070	0	1	0	107	70	130				

Sample ID	C1602050-005A MS	SampType: MSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID:	Rm 117 Ms/MSD	Batch ID: R10690	TestNo: TO-15		Analysis Date: 2/23/2016	SeqNo: 125813					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.060	0.15	1	0	106	70	130	1.13	6.39	30	
1,1,1,2,2-Tetrachloroethane	1.160	0.15	1	0	116	70	130	1.28	9.84	30	
1,1,2-Trichloroethane	1.000	0.15	1	0	100	70	130	0.99	1.01	30	
1,1-Dichloroethane	0.9100	0.15	1	0	91.0	70	130	0.91	0	30	
1,1-Dichloroethene	1.220	0.15	1	0	122	70	130	1.12	8.55	30	
1,2,4-Trichlorobenzene	0.7900	0.15	1	0	79.0	70	130	0.91	14.1	30	
1,2,4-Trimethylbenzene	1.270	0.15	1	0	127	70	130	1.38	8.30	30	
1,2-Dibromoethane	0.9300	0.15	1	0	93.0	70	130	0.94	1.07	30	
1,2-Dichlorobenzene	1.190	0.15	1	0	119	70	130	1.29	8.06	30	
1,2-Dichloroethane	0.7700	0.15	1	0	77.0	70	130	0.72	6.71	30	
1,2-Dichloropropane	0.9900	0.15	1	0	99.0	70	130	0.98	1.02	30	
1,3,5-Trimethylbenzene	1.170	0.15	1	0	117	70	130	1.26	7.41	30	
1,3-butadiene	1.120	0.15	1	0	112	70	130	1.19	6.06	30	
1,3-Dichlorobenzene	1.120	0.15	1	0	112	70	130	1.21	7.73	30	
1,4-Dichlorobenzene	1.040	0.15	1	0	104	70	130	1.15	10.0	30	
1,4-Dioxane	0.8800	0.30	1	0	88.0	70	130	0.97	9.73	30	
2,2,4-trimethylpentane	0.9400	0.15	1	0	94.0	70	130	0.95	1.06	30	

Qualifiers: J Results reported are not blank corrected
 S Analyte detected at or below quantitation limits
 H RPD outside accepted recovery limits
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1602050
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID C1602050-005A MS		SampType: MSD	TestCode: 0.25CT-TCE-		Units: ppbV	Prep Date:		RunNo: 10690			
Client ID: Rm 117 Ms/MSD		Batch ID: R10690	TestNo: TO-15			Analysis Date: 2/23/2016		SeqNo: 125813			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	1.150	0.15	1	0	115	70	130	1.13	1.75	30	
Acetone	5.160	0.30	1	5.7	-54.0	70	130	5.17	0.194	30	S
Allyl chloride	0.8700	0.15	1	0	87.0	70	130	0.84	3.51	30	
Benzene	1.350	0.15	1	0	135	70	130	1.2	11.8	30	S
Benzyl chloride	1.030	0.15	1	0	103	70	130	1.1	6.57	30	
Bromodichloromethane	1.120	0.15	1	0	112	70	130	1.15	2.64	30	
Bromoform	1.100	0.15	1	0	110	70	130	1.09	0.913	30	
Bromomethane	1.220	0.15	1	0	122	70	130	1.19	2.49	30	
Carbon disulfide	0.9600	0.15	1	0	96.0	70	130	0.98	2.06	30	
Carbon tetrachloride	1.320	0.040	1	0	132	70	130	1.37	3.72	30	S
Chlorobenzene	0.8600	0.15	1	0	86.0	70	130	0.84	2.35	30	
Chloroethane	1.120	0.15	1	0	112	70	130	1.18	5.22	30	
Chloroform	1.110	0.15	1	0	111	70	130	1.12	0.897	30	
Chloromethane	1.200	0.15	1	0	120	70	130	1.26	4.88	30	
cis-1,2-Dichloroethene	0.8100	0.15	1	0	81.0	70	130	0.76	6.37	30	
cis-1,3-Dichloropropene	0.9400	0.15	1	0	94.0	70	130	0.93	1.07	30	
Cyclohexane	1.160	0.15	1	0	116	70	130	1.21	4.22	30	
Dibromochloromethane	1.200	0.15	1	0	120	70	130	1.12	6.90	30	
Ethyl acetate	0.7700	0.25	1	0	77.0	70	130	0.72	6.71	30	
Ethylbenzene	0.8000	0.15	1	0	80.0	70	130	0.77	3.82	30	
Freon 11	1.410	0.15	1	0	141	70	130	1.51	6.85	30	S
Freon 113	1.390	0.15	1	0	139	70	130	1.48	6.27	30	S
Freon 114	1.040	0.15	1	0	104	70	130	1.19	13.5	30	
Freon 12	1.450	0.15	1	0	145	70	130	1.5	3.39	30	S
Heptane	0.9400	0.15	1	0	94.0	70	130	0.88	6.59	30	
Hexachloro-1,3-butadiene	1.020	0.15	1	0	102	70	130	1.08	5.71	30	
Hexane	1.340	0.15	1	0	134	70	130	1.3	3.03	30	S
Isopropyl alcohol	2.100	0.15	1	0	210	70	130	2.39	12.9	30	S
m&p-Xylene	1.800	0.30	2	0	90.0	70	130	1.76	2.25	30	
Methyl Butyl Ketone	0.9300	0.30	1	0	93.0	70	130	1.03	10.2	30	
Methyl Ethyl Ketone	1.310	0.30	1	0	131	70	130	1.4	6.64	30	S

Qualifiers: J Results reported are not blank corrected E Value above quantitation range H Holding times for preparation or analysis exceeded

S Analyte detected at or below quantitation limits ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	C1602050-005A MS	SampType: MSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID:	Rm 117 Ms/MSD	Batch ID: R10690	TestNo: TO-15	Analysis Date: 2/23/2016	SeqNo: 125813						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	1.020	0.30	1	0	102	70	130	1.14	11.1	30	
Methyl tert-butyl ether	0.7000	0.15	1	0	70.0	70	130	0.7	0	30	
Methylene chloride	1.340	0.15	1	0	134	70	130	1.33	0.749	30	S
o-Xylene	1.000	0.15	1	0	100	70	130	1.03	2.96	30	
Propylene	1.480	0.15	1	0	148	70	130	1.43	3.44	30	S
Styrene	0.8600	0.15	1	0	86.0	70	130	0.88	2.30	30	
Tetrachloroethylene	1.140	0.15	1	0	114	70	130	1.14	0	30	
Tetrahydrofuran	0.7700	0.15	1	0	77.0	70	130	0.7	9.52	30	
Toluene	1.860	0.15	1	0	186	70	130	1.84	1.08	30	S
trans-1,2-Dichloroethene	0.8700	0.15	1	0	87.0	70	130	0.93	6.67	30	
trans-1,3-Dichloropropene	0.8400	0.15	1	0	84.0	70	130	0.85	1.18	30	
Trichloroethene	1.050	0.040	1	0	105	70	130	1.05	0	30	
Vinyl acetale	0.7800	0.15	1	0	78.0	70	130	0.7	10.8	30	
Vinyl Bromide	1.150	0.15	1	0	115	70	130	1.18	2.58	30	
Vinyl chloride	0.9500	0.040	1	0	95.0	70	130	1.06	10.9	30	
Surr: Bromofluorobenzene	1.070	0	1	0	107	70	130	0	0	30	

Qualifiers:

	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Data File : C:\HPCHEM\1\DATA\AN022316.D

Vial: 16

Acq On : 23 Feb 2016 7:32 pm

Operator: RJP

Sample : C1602050-005A MS

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:46 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	34064	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.08	114	117917	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	81431	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	59449	1.07	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	107.00%

Target Compounds

						Qvalue
2) Propylene	4.15	41	60366m	1.43	ppb	
3) Freon 12	4.20	85	222519	1.50	ppb	98
4) Chloromethane	4.40	50	56772m	1.26	ppb	
5) Freon 114	4.40	85	147676m	1.19	ppb	
6) Vinyl Chloride	4.60	62	37805	1.06	ppb	91
7) Butane	4.69	43	114593m	2.64	ppb	
8) 1,3-butadiene	4.69	39	36156m	1.19	ppb	
9) Bromomethane	5.04	94	48298	1.19	ppb	92
10) Chloroethane	5.22	64	16805	1.18	ppb	97
11) Ethanol	5.37	45	116617	13.39	ppb	# 65
12) Acrolein	5.93	56	9075m	0.86	ppb	
13) Vinyl Bromide	5.55	106	48304	1.18	ppb	93
14) Freon 11	5.81	101	224888	1.51	ppb	99
15) Acetone	6.04	58	74512	5.17	ppb	# 10
16) Pentane	6.09	42	56588	1.97	ppb	# 20
17) Isopropyl alcohol	6.17	45	99174m	2.39	ppb	
18) 1,1-dichloroethene	6.58	96	44491	1.12	ppb	# 86
19) Freon 113	6.76	101	138781	1.48	ppb	92
20) t-Butyl alcohol	6.93	59	69300	0.92	ppb	# 62
21) Methylene chloride	7.06	84	59366	1.33	ppb	89
22) Allyl chloride	7.04	41	42772m	0.84	ppb	
23) Carbon disulfide	7.22	76	137280	0.98	ppb	# 72
24) trans-1,2-dichloroethene	7.99	61	64559m	0.93	ppb	
25) methyl tert-butyl ether	8.05	73	87843m	0.70	ppb	
26) 1,1-dichloroethane	8.42	63	86372	0.91	ppb	95
27) Vinyl acetate	8.43	43	78936m	0.70	ppb	
28) Methyl Ethyl Ketone	8.96	72	30874m	1.40	ppb	
29) cis-1,2-dichloroethene	9.36	61	47617	0.76	ppb	90
30) Hexane	8.92	57	96788	1.30	ppb	94
31) Ethyl acetate	9.55	43	75667	0.72	ppb	91
32) Chloroform	9.97	83	123234	1.12	ppb	97
33) Tetrahydrofuran	10.19	42	36080	0.70	ppb	98
34) 1,2-dichloroethane	11.10	62	47723	0.72	ppb	89
36) 1,1,1-trichloroethane	10.78	97	92813	1.13	ppb	98
37) Cyclohexane	11.46	56	67864	1.21	ppb	92
38) Carbon tetrachloride	11.41	117	114580	1.37	ppb	96
39) Benzene	11.39	78	124755m	1.20	ppb	
40) Methyl methacrylate	12.94	41	34013	0.82	ppb	# 81
41) 1,4-dioxane	13.03	88	20578	0.97	ppb	93
42) 2,2,4-trimethylpentane	12.21	57	182709	0.95	ppb	94
43) Heptane	12.55	43	51815	0.88	ppb	88
44) Trichloroethene	12.69	130	50705	1.05	ppb	99
45) 1,2-dichloropropane	12.81	63	39978	0.98	ppb	100

(#)=qualifier out of range (m)=manual integration

Data File : C:\HPCHEM\1\DATA\AN022316.D
 Acq On : 23 Feb 2016 7:32 pm
 Sample : C1602050-005A MS
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 24 08:36:46 2016

Vial: 16
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 11 11:13:02 2016
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

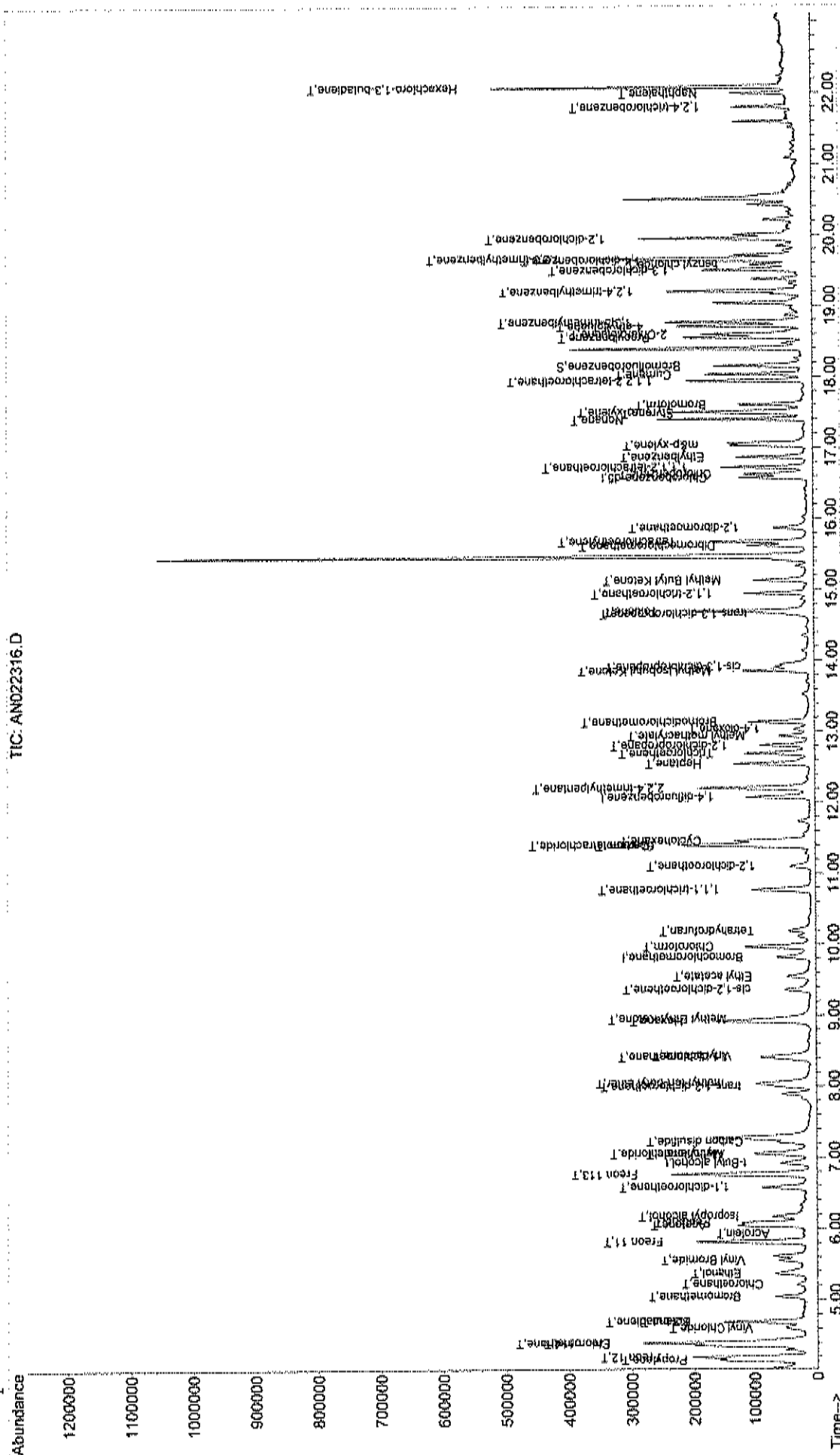
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	86528	1.15	ppb	100
47) cis-1,3-dichloropropene	13.91	75	51642	0.93	ppb	97
48) trans-1,3-dichloropropene	14.65	75	42981	0.85	ppb	89
49) 1,1,2-trichloroethane	14.95	97	42281	0.99	ppb	98
51) Toluene	14.70	92	100089	1.84	ppb	97
52) Methyl Isobutyl Ketone	13.86	43	86913	1.14	ppb	97
53) Dibromochloromethane	15.62	129	65998m	1.12	ppb	
54) Methyl Butyl Ketone	15.14	43	76969	1.03	ppb	94
55) 1,2-dibromoethane	15.87	107	60143	0.94	ppb	97
56) Tetrachloroethylene	15.68	164	43829	1.14	ppb	99
57) Chlorobenzene	16.63	112	65711	0.84	ppb	83
58) 1,1,1,2-tetrachloroethane	16.72	131	42511	1.02	ppb	92
59) Ethylbenzene	16.87	91	92654	0.77	ppb	97
60) m&p-xylene	17.03	91	161199	1.76	ppb	93
61) Nonane	17.40	43	85881	1.15	ppb	97
62) Styrene	17.48	104	62454	0.88	ppb	88
63) Bromoform	17.61	173	60367	1.09	ppb	100
64) o-xylene	17.50	91	109327	1.03	ppb	96
65) Cumene	18.03	105	112293	0.86	ppb	99
67) 1,1,2,2-tetrachloroethane	17.94	83	121136	1.28	ppb	97
68) Propylbenzene	18.55	91	181401m	1.18	ppb	
69) 2-Chlorotoluene	18.60	91	116153m	1.11	ppb	
70) 4-ethyltoluene	18.71	105	134784m	1.13	ppb	
71) 1,3,5-trimethylbenzene	18.77	105	146275m	1.26	ppb	
72) 1,2,4-trimethylbenzene	19.20	105	137423	1.38	ppb	93
73) 1,3-dichlorobenzene	19.50	146	87322	1.21	ppb	97
74) benzyl chloride	19.58	91	74916m	1.10	ppb	
75) 1,4-dichlorobenzene	19.64	146	80117	1.15	ppb	99
76) 1,2,3-trimethylbenzene	19.67	105	135696	1.23	ppb	95
77) 1,2-dichlorobenzene	19.95	146	95368	1.29	ppb	97
78) 1,2,4-trichlorobenzene	21.80	180	36507	0.91	ppb	96
79) Naphthalene	21.99	128	98977	0.94	ppb	98
80) Hexachloro-1,3-butadiene	22.08	225	90639	1.08	ppb	98

Data File : C:\HPCHEM\1\DATA\AN022316.D
Acq On : 23 Feb 2016 7:32 pm
Sample : C1602050-005A.MS
Misc : A204_1UG
MMS Integration Params: RTEINT.P
Quant Time: Feb 26 10:03 2016

Vial: 16
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

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Method      : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title       : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 10:59:01 2016
Response via : Initial Calibration
```

Quant Results File: A204 1UG.RES



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022317.D

Vial: 17

Acq On : 23 Feb 2016 8:15 pm

Operator: RJP

Sample : C1602050-005A MSD

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:47 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	36181	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.07	114	127862	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.57	117	88413	1.00	ppb	-0.01

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	64204	1.07	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	107.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	66435m	1.48	ppb	
3) Freon 12	4.19	85	228684	1.45	ppb	99
4) Chloromethane	4.39	50	57253	1.20	ppb	99
5) Freon 114	4.39	85	136953m	1.04	ppb	
6) Vinyl Chloride	4.59	62	35972	0.95	ppb	91
7) Butane	4.69	43	107829m	2.34	ppb	
8) 1,3-butadiene	4.69	39	36129m	1.12	ppb	
9) Bromomethane	5.04	94	52504	1.22	ppb	98
10) Chloroethane	5.20	64	16918	1.12	ppb	# 79
11) Ethanol	5.35	45	123822	13.39	ppb	# 62
12) Acrolein	5.93	56	9814m	0.87	ppb	
13) Vinyl Bromide	5.55	106	49748	1.15	ppb	94
14) Freon 11	5.81	101	222353	1.41	ppb	99
15) Acetone	6.02	58	79002	5.16	ppb	# 12
16) Pentane	6.08	42	59940	1.97	ppb	# 1
17) Isopropyl alcohol	6.15	45	92628	2.10	ppb	# 46
18) 1,1-dichloroethene	6.57	96	51434	1.22	ppb	98
19) Freon 113	6.76	101	139299	1.39	ppb	91
20) t-Butyl alcohol	6.88	59	66504	0.83	ppb	# 60
21) Methylene chloride	7.05	84	63744	1.34	ppb	89
22) Allyl chloride	7.03	41	47018m	0.87	ppb	
23) Carbon disulfide	7.21	76	142243	0.96	ppb	84
24) trans-1,2-dichloroethene	7.99	61	63594	0.87	ppb	94
25) methyl tert-butyl ether	8.03	73	93849m	0.70	ppb	
26) 1,1-dichloroethane	8.41	63	91452	0.91	ppb	99
27) Vinyl acetate	8.42	43	93346m	0.78	ppb	
28) Methyl Ethyl Ketone	8.94	72	30679m	1.31	ppb	
29) cis-1,2-dichloroethene	9.35	61	53945	0.81	ppb	91
30) Hexane	8.92	57	105700	1.34	ppb	94
31) Ethyl acetate	9.53	43	85321	0.77	ppb	92
32) Chloroform	9.96	83	129585	1.11	ppb	99
33) Tetrahydrofuran	10.18	42	41960m	0.77	ppb	
34) 1,2-dichloroethane	11.10	62	54018	0.77	ppb	90
36) 1,1,1-trichloroethane	10.77	97	93752	1.06	ppb	99
37) Cyclohexane	11.46	56	70443	1.16	ppb	93
38) Carbon tetrachloride	11.41	117	119150	1.32	ppb	97
39) Benzene	11.39	78	152760	1.35	ppb	94
40) Methyl methacrylate	12.94	41	35877	0.79	ppb	# 80
41) 1,4-dioxane	13.01	88	20105	0.88	ppb	100
42) 2,2,4-trimethylpentane	12.21	57	196903	0.94	ppb	95
43) Heptane	12.55	43	59951	0.94	ppb	91
44) Trichloroethene	12.69	130	54653	1.05	ppb	99
45) 1,2-dichloropropane	12.81	63	43725	0.99	ppb	97

(#)=qualifier out of range (m)=manual integration

AN022317.D A204_1UG.M

Thu Mar 03 11:03:20 2016

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AN022317.D

Vial: 17

Acq On : 23 Feb 2016 8:15 pm

Operator: RJP

Sample : C1602050-005A MSD

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:47 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.13	83	91427	1.12	ppb	99
47) cis-1,3-dichloropropene	13.91	75	56446	0.94	ppb	97
48) trans-1,3-dichloropropene	14.64	75	45928	0.84	ppb	84
49) 1,1,2-trichloroethane	14.94	97	46373	1.00	ppb	100
51) Toluene	14.69	92	109910	1.86	ppb	95
52) Methyl Isobutyl Ketone	13.85	43	84571	1.02	ppb	96
53) Dibromochloromethane	15.62	129	76786m	1.20	ppb	
54) Methyl Butyl Ketone	15.12	43	75266	0.93	ppb	94
55) 1,2-dibromoethane	15.86	107	64907	0.93	ppb	97
56) Tetrachloroethylene	15.67	164	47788	1.14	ppb	98
57) Chlorobenzene	16.62	112	72667	0.86	ppb	83
58) 1,1,1,2-tetrachloroethane	16.72	131	45027	1.00	ppb	# 91
59) Ethylbenzene	16.87	91	104036	0.80	ppb	97
60) m&p-xylene	17.03	91	179296	1.80	ppb	94
61) Nonane	17.40	43	91900	1.14	ppb	96
62) Styrene	17.48	104	66194	0.86	ppb	87
63) Bromoform	17.61	173	66120	1.10	ppb	98
64) o-xylene	17.50	91	115152	1.00	ppb	92
65) Cumene	18.03	105	118939	0.84	ppb	97
67) 1,1,2,2-tetrachloroethane	17.94	83	119562	1.16	ppb	99
68) Propylbenzene	18.55	91	184220m	1.10	ppb	
69) 2-Chlorotoluene	18.60	91	127966m	1.12	ppb	
70) 4-ethyltoluene	18.71	105	149029m	1.15	ppb	
71) 1,3,5-trimethylbenzene	18.77	105	147555m	1.17	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	137544	1.27	ppb	93
73) 1,3-dichlorobenzene	19.50	146	87424	1.12	ppb	96
74) benzyl chloride	19.58	91	75920	1.03	ppb	91
75) 1,4-dichlorobenzene	19.63	146	78870	1.04	ppb	99
76) 1,2,3-trimethylbenzene	19.67	105	135723	1.13	ppb	94
77) 1,2-dichlorobenzene	19.95	146	95662	1.19	ppb	96
78) 1,2,4-trichlorobenzene	21.80	180	34273	0.79	ppb	97
79) Naphthalene	22.00	128	93584	0.82	ppb	98
80) Hexachloro-1,3-butadiene	22.08	225	92913	1.02	ppb	99

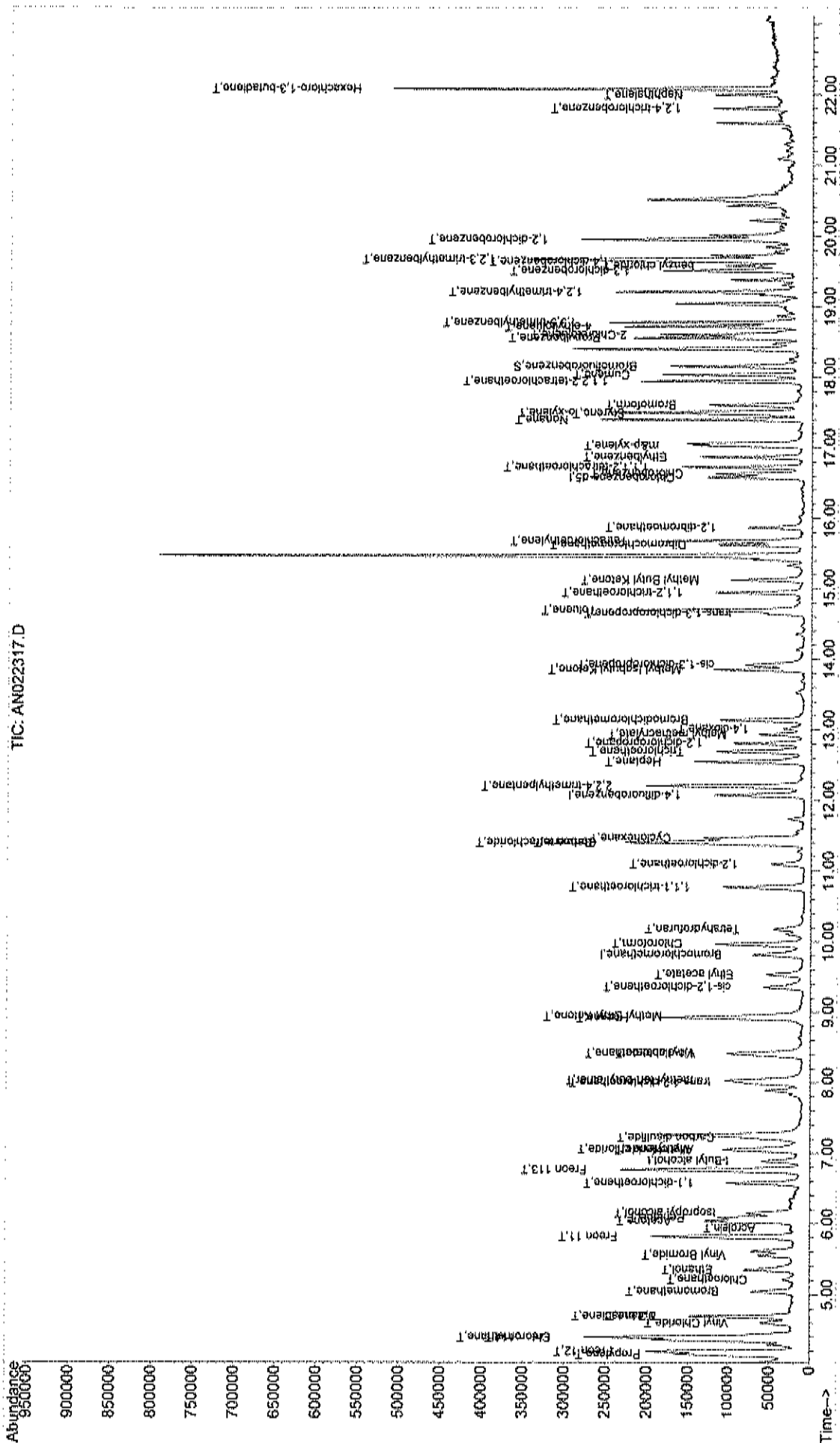
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AN022317.D A204_1UG.M Thu Mar 03 11:03:21 2016 MSD1

Data File : C:\HPCHEM\1\DATA\AN022317.D
 Acq On : 23 Feb 2016 8:15 pm
 Sample : C1602050-005A MSD
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 26 10:04 2016

Vial: 17
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 03 10:59:01 2016
 Response via : Initial Calibration



Date: 03-Mar-16

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1602050

Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-022316	Sample Type: LCS	TestCode: 0.25CT-TCE-	Units: ppbv	Prep Date:	RunNo: 10690						
Client ID: ZZZZ	Batch ID: R10690	TestNo: TO-15	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result											
1,1,1-Trichloroethane	1.130		0.15	1	0	113	70	130				
1,1,2,2-Tetrachloroethane	1.060		0.15	1	0	106	70	130				
1,1,2-Trichloroethane	1.210		0.15	1	0	121	70	130				
1,1-Dichloroethane	0.9000		0.15	1	0	90.0	70	130				
1,1-Dichloroethene	1.110		0.15	1	0	111	70	130				
1,2,4-Trichlorobenzene	0.7400		0.15	1	0	74.0	70	130				
1,2,4-Trimethylbenzene	0.7900		0.15	1	0	79.0	70	130				
1,2-Dibromoethane	0.9900		0.15	1	0	99.0	70	130				
1,2-Dichlorobenzene	0.9600		0.15	1	0	96.0	70	130				
1,2-Dichloroethane	0.8100		0.15	1	0	81.0	70	130				
1,2-Dichloropropane	1.080		0.15	1	0	108	70	130				
1,3,5-Trimethylbenzene	0.9100		0.15	1	0	91.0	70	130				
1,3-butadiene	1.020		0.15	1	0	102	70	130				
1,3-Dichlorobenzene	0.9600		0.15	1	0	96.0	70	130				
1,4-Dichlorobenzene	0.9200		0.15	1	0	92.0	70	130				
1,4-Dioxane	1.020		0.30	1	0	102	70	130				
2,2,4-trimethylpentane	0.9200		0.15	1	0	92.0	70	130				
4-ethyltoluene	0.9300		0.15	1	0	93.0	70	130				
Acetone	0.9600		0.30	1	0	96.0	70	130				
Allyl chloride	0.7700		0.15	1	0	77.0	70	130				
Benzene	1.060		0.15	1	0	106	70	130				
Benzyl chloride	1.030		0.15	1	0	103	70	130				
Bromodichloromethane	1.280		0.15	1	0	128	70	130				
Bromoform	1.220		0.15	1	0	122	70	130				
Bromomethane	1.200		0.15	1	0	120	70	130				

Qualifiers: J Results reported are not blank corrected E Value above quantitation range H Holding times for preparation or analysis exceeded

S Analyte detected at or below quantitation limits R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1602050
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-022316	SampleType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID: ZZZZZ	Batch ID: R10690	TestNo: TO-15	Analysis Date: 2/23/2016	SeqNo: 125799							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9500	0.15	1	0	95.0	70	130				
Carbon tetrachloride	1.270	0.040	1	0	127	70	130				
Chlorobenzene	0.9900	0.15	1	0	99.0	70	130				
Chloroethane	1.110	0.15	1	0	111	70	130				
Chloroform	0.9300	0.15	1	0	93.0	70	130				
Chloromethane	0.8200	0.15	1	0	82.0	70	130				
cis-1,2-Dichloroethene	0.7500	0.15	1	0	75.0	70	130				
cis-1,3-Dichloropropene	1.110	0.15	1	0	111	70	130				
Cyclohexane	0.8600	0.15	1	0	86.0	70	130				
Dibromochloromethane	1.150	0.15	1	0	115	70	130				
Ethyl acetate	0.7400	0.25	1	0	74.0	70	130				
Ethylbenzene	0.8900	0.15	1	0	89.0	70	130				
Freon 11	1.200	0.15	1	0	120	70	130				
Freon 113	1.190	0.15	1	0	119	70	130				
Freon 114	1.050	0.15	1	0	105	70	130				
Freon 12	0.9800	0.15	1	0	98.0	70	130				
Heptane	0.7700	0.15	1	0	77.0	70	130				
Hexachloro-1,3-butadiene	0.8700	0.15	1	0	87.0	70	130				
Hexane	0.7100	0.15	1	0	71.0	70	130				
Isopropyl alcohol	0.8300	0.15	1	0	83.0	70	130				
m&p-Xylene	1.920	0.30	2	0	96.0	70	130				
Methyl Butyl Ketone	0.8300	0.30	1	0	83.0	70	130				
Methyl Ethyl Ketone	0.8900	0.30	1	0	89.0	70	130				
Methyl Isobutyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl tert-butyl ether	0.7800	0.15	1	0	78.0	70	130				
Methylene chloride	1.050	0.15	1	0	105	70	130				
o-Xylene	1.160	0.15	1	0	116	70	130				
Propylene	0.7600	0.15	1	0	76.0	70	130				
Styrene	0.9300	0.15	1	0	93.0	70	130				
Tetrachloroethylene	1.020	0.15	1	0	102	70	130				
Tetrahydrofuran	0.7700	0.15	1	0	77.0	70	130				

Qualifiers: J Results reported are not blank corrected

S Analyte detected at or below quantitation limits
 Spike Recovery outside accepted recovery limits

E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
Work Order: C1602050
Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-022316	SampleType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690					
Client ID: ZZZZZ	Batch ID: R10690	TestNo: TO-15	Analysis Date: 2/23/2016			SeqNo: 125799					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.8900	0.15	1	0	89.0	70	130				
trans-1,2-Dichloroethene	0.7600	0.15	1	0	76.0	70	130				
trans-1,3-Dichloropropene	1.000	0.15	1	0	100	70	130				
Trichloroethene	1.090	0.040	1	0	109	70	130				
Vinyl acetate	0.6800	0.15	1	0	68.0	70	130				
Vinyl Bromide	1.150	0.15	1	0	115	70	130				S
Vinyl chloride	0.9700	0.040	1	0	97.0	70	130				

Sample ID	ALCS1UGD-022316	SampleType: LCSD	Batch ID: R10690	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690				
Client ID: ZZZZZ				TestNo: TO-15		Analysis Date: 2/24/2016	SeqNo: 125800				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.130	0.15	1	0	113	70	130	1.13	0	30	
1,1,2,2-Tetrachloroethane	1.150	0.15	1	0	115	70	130	1.06	8.14	30	
1,1,2-Trichloroethane	1.140	0.15	1	0	114	70	130	1.21	5.96	30	
1,1-Dichloroethane	0.9200	0.15	1	0	92.0	70	130	0.9	2.20	30	
1,1-Dichloroethene	1.210	0.15	1	0	121	70	130	1.11	8.62	30	
1,2,4-Trichlorobenzene	0.7500	0.15	1	0	75.0	70	130	0.74	1.34	30	
1,2,4-Trimethylbenzene	0.8600	0.15	1	0	86.0	70	130	0.79	8.48	30	
1,2-Dibromoethane	1.020	0.15	1	0	102	70	130	0.99	2.99	30	
1,2-Dichlorobenzene	1.010	0.15	1	0	101	70	130	0.96	5.08	30	
1,2-Dichloroethane	0.7900	0.15	1	0	79.0	70	130	0.81	2.50	30	
1,2-Dichloropropane	1.100	0.15	1	0	110	70	130	1.08	1.83	30	
1,3,5-Trimethylbenzene	1.040	0.15	1	0	104	70	130	0.91	13.3	30	
1,3-butadiene	0.8300	0.15	1	0	83.0	70	130	1.02	20.5	30	
1,3-Dichlorobenzene	1.020	0.15	1	0	102	70	130	0.96	6.06	30	
1,4-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130	0.92	3.21	30	
1,4-Dioxane	0.9700	0.30	1	0	97.0	70	130	1.02	5.03	30	
2,2,4-trimethylpentane	0.9700	0.15	1	0	97.0	70	130	0.92	5.29	30	
4-ethyltoluene	0.9800	0.15	1	0	98.0	70	130	0.93	5.24	30	

Qualifiers: J Results reported are not blank corrected
S Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
NID Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-022316	Sample Type: LCSD	Batch ID: R10690	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690				
Client ID: ZZZZZ				TestNo: TO-15		Analysis Date: 2/24/2016	SeqNo: 125800				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.9700	0.30	1	0	97.0	70	130	0.96	1.04	30	
Allyl chloride	0.8000	0.15	1	0	80.0	70	130	0.77	3.82	30	
Benzene	1.070	0.15	1	0	107	70	130	1.06	0.939	30	
Benzyl chloride	1.060	0.15	1	0	106	70	130	1.03	2.87	30	
Bromodichloromethane	1.260	0.15	1	0	126	70	130	1.28	1.57	30	
Bromoform	1.210	0.15	1	0	121	70	130	1.22	0.823	30	
Bromomethane	1.220	0.15	1	0	122	70	130	1.2	1.65	30	
Carbon disulfide	0.9400	0.15	1	0	94.0	70	130	0.95	1.06	30	
Carbon tetrachloride	1.280	0.040	1	0	128	70	130	1.27	0.784	30	
Chlorobenzene	0.9800	0.15	1	0	98.0	70	130	0.99	1.02	30	
Chloroethane	1.030	0.15	1	0	103	70	130	1.11	7.48	30	
Chloroform	0.9200	0.15	1	0	92.0	70	130	0.93	1.08	30	
Chloromethane	0.8400	0.15	1	0	84.0	70	130	0.82	2.41	30	
cis-1,2-Dichloroethene	0.7500	0.15	1	0	75.0	70	130	0.75	0	30	
cis-1,3-Dichloropropene	1.070	0.15	1	0	107	70	130	1.11	3.67	30	
Cyclohexane	0.9000	0.15	1	0	90.0	70	130	0.86	4.55	30	
Dibromochloromethane	1.210	0.15	1	0	121	70	130	1.15	5.08	30	
Ethyl acetate	0.7800	0.25	1	0	78.0	70	130	0.74	5.26	30	
Ethylbenzene	0.8600	0.15	1	0	86.0	70	130	0.89	3.43	30	
Freon 11	1.210	0.15	1	0	121	70	130	1.2	0.830	30	
Freon 113	1.210	0.15	1	0	121	70	130	1.19	1.67	30	
Freon 114	1.090	0.15	1	0	109	70	130	1.05	3.74	30	
Freon 12	1.020	0.15	1	0	102	70	130	0.98	4.00	30	
Heptane	0.8200	0.15	1	0	82.0	70	130	0.77	6.29	30	
Hexachloro-1,3-butadiene	0.9100	0.15	1	0	91.0	70	130	0.87	4.49	30	
Hexane	0.7100	0.15	1	0	71.0	70	130	0.71	0	30	
Isopropyl alcohol	0.8700	0.15	1	0	87.0	70	130	0.83	4.71	30	
m&p-Xylene	1.930	0.30	2	0	96.5	70	130	1.92	0.519	30	
Methyl Butyl Ketone	0.9400	0.30	1	0	94.0	70	130	0.83	12.4	30	
Methyl Ethyl Ketone	0.9400	0.30	1	0	94.0	70	130	0.89	5.46	30	
Methyl Isobutyl Ketone	1.000	0.30	1	0	100	70	130	0.91	9.42	30	

Qualifiers: Results reported are not blank corrected E Value above quantitation range H Holding times for preparation or analysis exceeded

J Analyte detected at or below quantitation limits ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

CLIENT: LaBella Associates, P.C.
 Work Order: C1602050
 Project: 690 St Paul

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-022316	Sample Type: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 10690						
Client ID: ZZZZZ	Batch ID: R10690	Result	TestNo: TO-15		Analysis Date: 2/24/2016	SeqNo: 125800						
Analyte			PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether		0.7600	0.15	1	0	76.0	70	130	0.78	2.60	30	
Methylene chloride		1.070	0.15	1	0	107	70	130	1.05	1.89	30	
o-Xylene		1.130	0.15	1	0	113	70	130	1.16	2.62	30	
Propylene		0.8200	0.15	1	0	82.0	70	130	0.76	7.59	30	
Styrene		0.9800	0.15	1	0	98.0	70	130	0.93	5.24	30	
Tetrachloroethylene		1.070	0.15	1	0	107	70	130	1.02	4.78	30	
Tetrahydrofuran		0.7300	0.15	1	0	73.0	70	130	0.77	5.33	30	
Toluene		0.9100	0.15	1	0	91.0	70	130	0.89	2.22	30	
trans-1,2-Dichloroethene		0.8000	0.15	1	0	80.0	70	130	0.76	5.13	30	
trans-1,3-Dichloropropene		0.9800	0.15	1	0	98.0	70	130	1	2.02	30	
Trichloroethene		1.080	0.040	1	0	108	70	130	1.09	0.922	30	
Vinyl acetate		0.6700	0.15	1	0	67.0	70	130	0.68	1.48	30	S
Vinyl Bromide		1.200	0.15	1	0	120	70	130	1.15	4.26	30	
Vinyl chloride		0.9900	0.040	1	0	99.0	70	130	0.97	2.04	30	

Qualifiers: J Results reported are not blank corrected E Value above quantitation range H Holding times for preparation or analysis exceeded

S Analyte detected at or below quantitation limits ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AN022304.D
 Acq On : 23 Feb 2016 11:32 am
 Sample : ALCS1UG-022316
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 23 12:06:55 2016

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Feb 11 11:13:02 2016
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.82	128	35037	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.08	114	122496	1.00	ppb	0.00
50) Chlorobenzene-d5	16.58	117	98923	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	68275	1.01	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	101.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	33057	0.76	ppb	# 100
3) Freon 12	4.20	85	149836	0.98	ppb	100
4) Chloromethane	4.40	50	37720	0.82	ppb	95
5) Freon 114	4.40	85	133320	1.05	ppb	88
6) Vinyl Chloride	4.60	62	35508	0.97	ppb	91
7) Butane	4.69	43	42103	0.94	ppb	90
8) 1,3-butadiene	4.70	39	31641	1.02	ppb	97
9) Bromomethane	5.05	94	50166	1.20	ppb	95
10) Chloroethane	5.22	64	16298	1.11	ppb	97
11) Ethanol	5.37	45	7473m	0.83	ppb	
12) Acrolein	5.96	56	8826	0.81	ppb	100
13) Vinyl Bromide	5.56	106	48417	1.15	ppb	94
14) Freon 11	5.82	101	184058	1.20	ppb	99
15) Acetone	6.06	58	14277	0.96	ppb	# 70
16) Pentane	6.09	42	26219	0.89	ppb	90
17) Isopropyl alcohol	6.17	45	35694	0.83	ppb	# 46
18) 1,1-dichloroethene	6.58	96	45323	1.11	ppb	# 84
19) Freon 113	6.77	101	115404	1.19	ppb	90
20) t-Butyl alcohol	6.91	59	77748	1.01	ppb	# 82
21) Methylene chloride	7.06	84	48508	1.05	ppb	89
22) Allyl chloride	7.04	41	40074	0.77	ppb	84
23) Carbon disulfide	7.22	76	136232	0.95	ppb	88
24) trans-1,2-dichloroethene	8.00	61	54167	0.76	ppb	88
25) methyl tert-butyl ether	8.05	73	101280	0.78	ppb	87
26) 1,1-dichloroethane	8.42	63	88117	0.90	ppb	98
27) Vinyl acetate	8.44	43	79155m	0.68	ppb	
28) Methyl Ethyl Ketone	8.96	72	20236	0.89	ppb	# 100
29) cis-1,2-dichloroethene	9.36	61	48063	0.75	ppb	89
30) Hexane	8.93	57	54677	0.71	ppb	92
31) Ethyl acetate	9.55	43	79556	0.74	ppb	93
32) Chloroform	9.97	83	105618	0.93	ppb	98
33) Tetrahydrofuran	10.19	42	40952m	0.77	ppb	
34) 1,2-dichloroethane	11.10	62	55097	0.81	ppb	88
36) 1,1,1-trichloroethane	10.77	97	95893	1.13	ppb	99
37) Cyclohexane	11.47	56	50251	0.86	ppb	92
38) Carbon tetrachloride	11.42	117	110355	1.27	ppb	98
39) Benzene	11.39	78	114370	1.06	ppb	94
40) Methyl methacrylate	12.94	41	36846	0.85	ppb	# 73
41) 1,4-dioxane	13.02	88	22410	1.02	ppb	100
42) 2,2,4-trimethylpentane	12.21	57	184736	0.92	ppb	94
43) Heptane	12.55	43	47007	0.77	ppb	89
44) Trichloroethene	12.70	130	54594	1.09	ppb	96
45) 1,2-dichloropropane	12.81	63	45589	1.08	ppb	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AN022304.D

Vial: 4

Acq On : 23 Feb 2016 11:32 am

Operator: RJP

Sample : ALCS1UG-022316

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 23 12:06:55 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

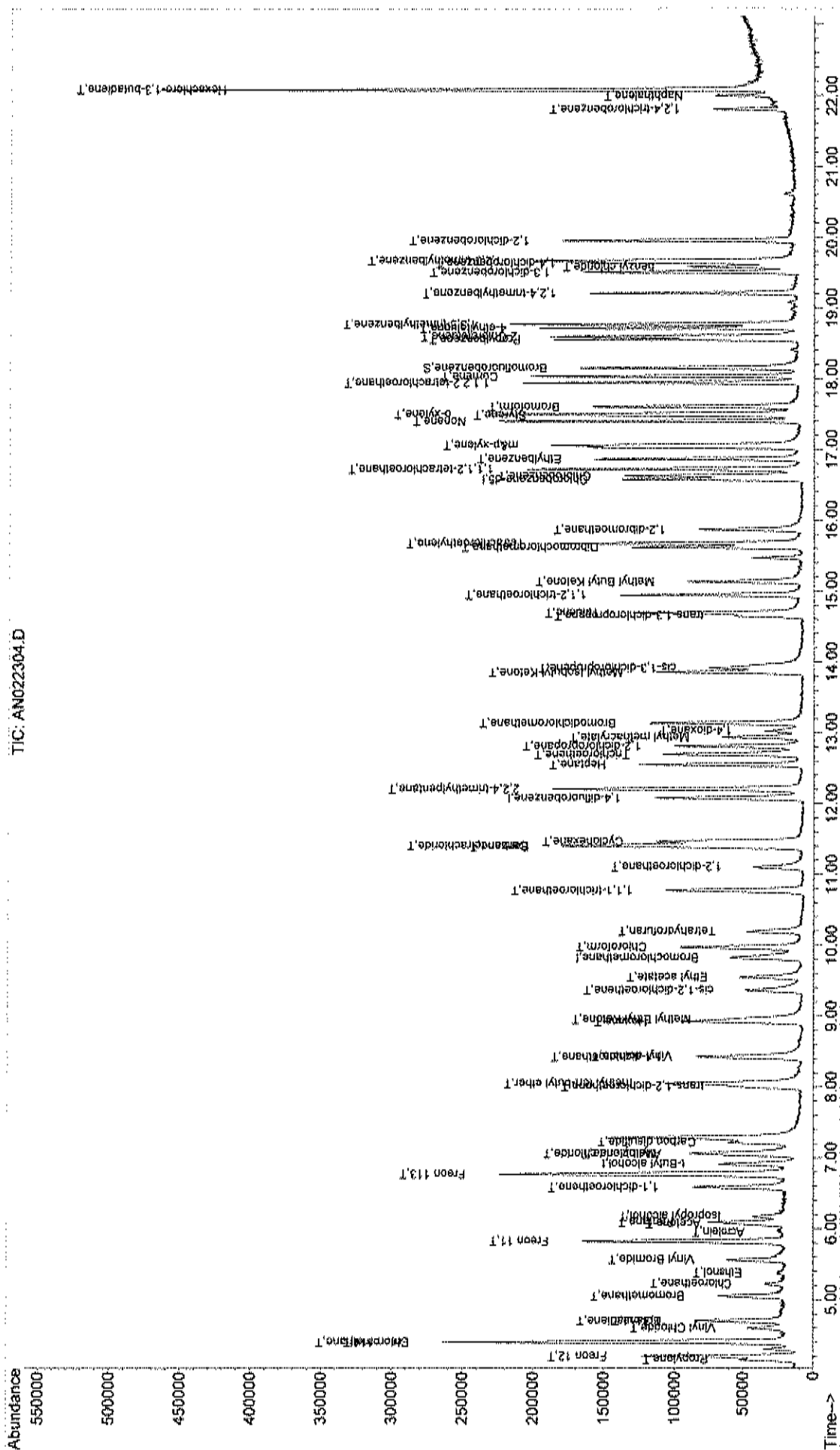
DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.14	83	100262	1.28	ppb	98
47) cis-1,3-dichloropropene	13.92	75	64027	1.11	ppb	100
48) trans-1,3-dichloropropene	14.65	75	52415	1.00	ppb	92
49) 1,1,2-trichloroethane	14.94	97	53807	1.21	ppb	96
51) Toluene	14.69	92	58962	0.89	ppb	95
52) Methyl Isobutyl Ketone	13.85	43	84154	0.91	ppb	95
53) Dibromochloromethane	15.62	129	82026m	1.15	ppb	
54) Methyl Butyl Ketone	15.13	43	75043	0.83	ppb	96
55) 1,2-dibromoethane	15.87	107	77226	0.99	ppb	97
56) Tetrachloroethylene	15.67	164	47724	1.02	ppb	100
57) Chlorobenzene	16.63	112	93360	0.99	ppb	87
58) 1,1,1,2-tetrachloroethane	16.72	131	61550	1.22	ppb	94
59) Ethylbenzene	16.87	91	128912	0.89	ppb	98
60) m&p-xylene	17.06	91	213479	1.92	ppb	95
61) Nonane	17.40	43	71093	0.78	ppb	96
62) Styrene	17.48	104	80260	0.93	ppb	85
63) Bromoform	17.60	173	82057m	1.22	ppb	
64) o-xylene	17.50	91	149021	1.16	ppb	98
65) Cumene	18.03	105	130887	0.83	ppb	97
67) 1,1,2,2-tetrachloroethane	17.94	83	122396	1.06	ppb	98
68) Propylbenzene	18.55	91	143750m	0.77	ppb	
69) 2-Chlorotoluene	18.60	91	131427m	1.03	ppb	
70) 4-ethyltoluene	18.72	105	135177m	0.93	ppb	
71) 1,3,5-trimethylbenzene	18.77	105	129105m	0.91	ppb	
72) 1,2,4-trimethylbenzene	19.21	105	95955	0.79	ppb	96
73) 1,3-dichlorobenzene	19.50	146	84026	0.96	ppb	97
74) benzyl chloride	19.58	91	85433	1.03	ppb	97
75) 1,4-dichlorobenzene	19.64	146	77921	0.92	ppb	96
76) 1,2,3-trimethylbenzene	19.67	105	109922	0.82	ppb	93
77) 1,2-dichlorobenzene	19.95	146	86539	0.96	ppb	98
78) 1,2,4-trichlorobenzene	21.81	180	36320m	0.74	ppb	
79) Naphthalene	21.99	128	88931m	0.70	ppb	
80) Hexachloro-1,3-butadiene	22.08	225	88829	0.87	ppb	99

Data File : C:\HPCHEM\1\DATA\AN022304.D
 Acq On : 23 Feb 2016 11:32 am
 Sample : ALCS1UG-022316
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 25 8:22 2016

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A204_1UG.RES

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 03 10:59:01 2016
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\AN022325.D

Vial: 25

Acq On : 24 Feb 2016 1:26 am

Operator: RJP

Sample : ALCS1UGD-022316

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:55 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.81	128	35760	1.00	ppb	-0.05
35) 1,4-difluorobenzene	12.08	114	121491	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.57	117	89481	1.00	ppb	-0.02

System Monitoring Compounds

66) Bromofluorobenzene	18.15	95	65154	1.07	ppb	-0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	107.00%

Target Compounds

						Qvalue
2) Propylene	4.14	41	36282	0.82	ppb	# 100
3) Freon 12	4.19	85	159412	1.02	ppb	100
4) Chloromethane	4.39	50	39589	0.84	ppb	93
5) Freon 114	4.39	85	141327	1.09	ppb	89
6) Vinyl Chloride	4.60	62	36995	0.99	ppb	93
7) Butane	4.69	43	41431	0.91	ppb	95
8) 1,3-butadiene	4.69	39	26279	0.83	ppb	74
9) Bromomethane	5.04	94	51835	1.22	ppb	92
10) Chloroethane	5.22	64	15367	1.03	ppb	98
11) Ethanol	5.36	45	10000	1.09	ppb	# 75
12) Acrolein	5.96	56	9565	0.86	ppb	96
13) Vinyl Bromide	5.55	106	51504	1.20	ppb	96
14) Freon 11	5.81	101	188997	1.21	ppb	99
15) Acetone	6.05	58	14617	0.97	ppb	# 72
16) Pentane	6.08	42	28127	0.93	ppb	97
17) Isopropyl alcohol	6.16	45	37965	0.87	ppb	# 46
18) 1,1-dichloroethene	6.57	96	50466m	1.21	ppb	
19) Freon 113	6.76	101	119610m	1.21	ppb	
20) t-Butyl alcohol	6.90	59	75066	0.95	ppb	# 75
21) Methylene chloride	7.05	84	50069	1.07	ppb	90
22) Allyl chloride	7.03	41	42775	0.80	ppb	87
23) Carbon disulfide	7.20	76	137356	0.94	ppb	91
24) trans-1,2-dichloroethene	7.99	61	57970	0.80	ppb	92
25) methyl tert-butyl ether	8.04	73	100273	0.76	ppb	84
26) 1,1-dichloroethane	8.40	63	91818	0.92	ppb	99
27) Vinyl acetate	8.43	43	78807m	0.67	ppb	
28) Methyl Ethyl Ketone	8.95	72	21893	0.94	ppb	# 100
29) cis-1,2-dichloroethene	9.35	61	49169	0.75	ppb	91
30) Hexane	8.91	57	55806	0.71	ppb	92
31) Ethyl acetate	9.53	43	86126	0.78	ppb	94
32) Chloroform	9.96	83	106865	0.92	ppb	99
33) Tetrahydrofuran	10.18	42	39343m	0.73	ppb	
34) 1,2-dichloroethane	11.10	62	54334	0.79	ppb	89
36) 1,1,1-trichloroethane	10.77	97	95608	1.13	ppb	98
37) Cyclohexane	11.46	56	51957	0.90	ppb	95
38) Carbon tetrachloride	11.40	117	109977	1.28	ppb	100
39) Benzene	11.39	78	114462	1.07	ppb	91
40) Methyl methacrylate	12.93	41	37347	0.87	ppb	# 77
41) 1,4-dioxane	13.01	88	21197	0.97	ppb	98
42) 2,2,4-trimethylpentane	12.20	57	191999	0.97	ppb	94
43) Heptane	12.54	43	49581	0.82	ppb	93
44) Trichloroethene	12.69	130	53439	1.08	ppb	96
45) 1,2-dichloropropane	12.80	63	46313	1.10	ppb	99

(#)=qualifier out of range (m)=manual integration

AN022325.D A204_1UG.M

Thu Mar 03 11:03:24 2016

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AN022325.D

Vial: 25

Acq On : 24 Feb 2016 1:26 am

Operator: RJP

Sample : ALCS1UGD-022316

Inst : MSD #1

Misc : A204_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 24 08:36:55 2016

Quant Results File: A204_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 11 11:13:02 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

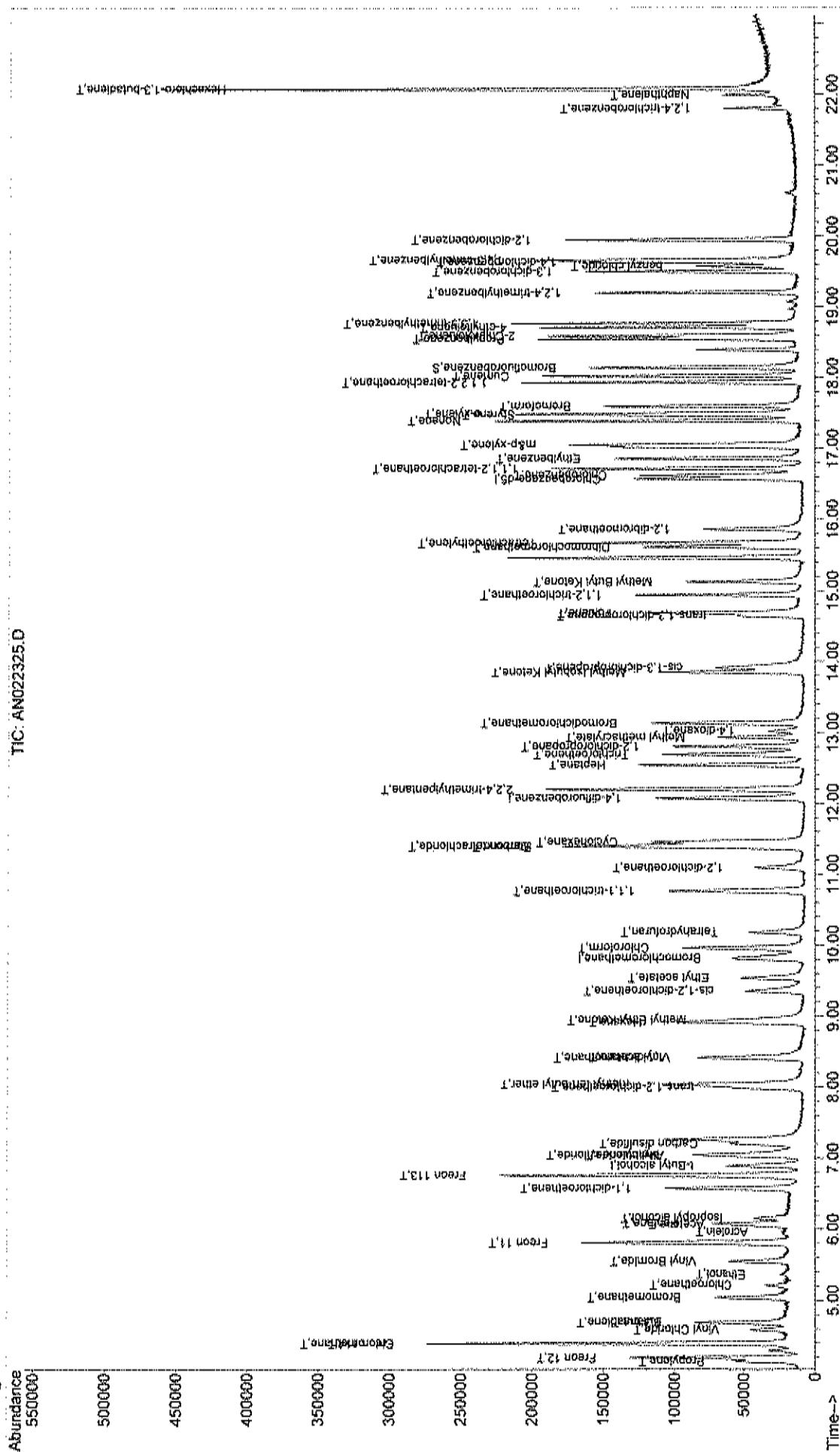
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.13	83	97684	1.26	ppb	100
47) cis-1,3-dichloropropene	13.91	75	61021	1.07	ppb	99
48) trans-1,3-dichloropropene	14.64	75	50902	0.98	ppb	94
49) 1,1,2-trichloroethane	14.94	97	50071	1.14	ppb	98
51) Toluene	14.69	92	54608	0.91	ppb	92
52) Methyl Isobutyl Ketone	13.85	43	83722	1.00	ppb	96
53) Dibromochloromethane	15.62	129	78369m	1.21	ppb	
54) Methyl Butyl Ketone	15.13	43	77344	0.94	ppb	93
55) 1,2-dibromoethane	15.86	107	71981	1.02	ppb	95
56) Tetrachloroethylene	15.68	164	45154	1.07	ppb	98
57) Chlorobenzene	16.62	112	83686	0.98	ppb	86
58) 1,1,1,2-tetrachloroethane	16.72	131	54425	1.19	ppb	95
59) Ethylbenzene	16.86	91	113388	0.86	ppb	98
60) m&p-xylene	17.05	91	194118	1.93	ppb	95
61) Nonane	17.40	43	72156	0.88	ppb	95
62) Styrene	17.48	104	76020	0.98	ppb	85
63) Bromoform	17.60	173	73676m	1.21	ppb	
64) o-xylene	17.50	91	130893	1.13	ppb	92
65) Cumene	18.03	105	127083	0.89	ppb	98
67) 1,1,2,2-tetrachloroethane	17.94	83	119278	1.15	ppb	99
68) Propylbenzene	18.55	91	165035m	0.97	ppb	
69) 2-Chlorotoluene	18.59	91	120502m	1.04	ppb	
70) 4-ethyltoluene	18.71	105	128822m	0.98	ppb	
71) 1,3,5-trimethylbenzene	18.77	105	132621m	1.04	ppb	
72) 1,2,4-trimethylbenzene	19.20	105	94521	0.86	ppb	95
73) 1,3-dichlorobenzene	19.50	146	81297	1.02	ppb	96
74) benzyl chloride	19.58	91	79353	1.06	ppb	96
75) 1,4-dichlorobenzene	19.64	146	72948	0.95	ppb	97
76) 1,2,3-trimethylbenzene	19.66	105	105722	0.87	ppb	92
77) 1,2-dichlorobenzene	19.95	146	81922	1.01	ppb	96
78) 1,2,4-trichlorobenzene	21.80	180	33119m	0.75	ppb	
79) Naphthalene	21.99	128	87206m	0.76	ppb	
80) Hexachloro-1,3-butadiene	22.08	225	84117	0.91	ppb	97

Data File : C:\HPCHEM\1\DATA\AN022325.D
 Acq On : 24 Feb 2016 1:26 am
 Sample : ALCS1UGD-022316
 Misc : A204_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 25 8:35 2016

Vial: 25
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A204_1UG.RES

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Thu Mar 03 10:59:01 2016
 Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Injection Log

Directory: C:\HPCHEM\1\DATA2

Standard Stock # 1274
 Standard Stock # 1275
 CS Stock # 1276
 Misc Info: Injected
 Method Ref: EPA TO-15 / JUNE 1999

ne	Vial	FileName	Multiplier	SampleName		
51	23	An022215.d	1.	C1602056-002A	A204_1UG	22 Feb 2016 21:23
52	24	An022216.d	1.	C1602056-003A	A204_1UG	22 Feb 2016 22:02
53	25	An022217.d	1.	C1602057-001A 10X	A204_1UG	22 Feb 2016 22:39
54	26	An022218.d	1.	C1602057-002A 10X	A204_1UG	22 Feb 2016 23:15
55	27	An022219.d	1.	C1602057-003A 10X	A204_1UG	22 Feb 2016 23:52
56	28	An022221.d	1.	C1602051-001A 10X	A204_1UG	23 Feb 2016 00:28
57	29	An022222.d	1.	ALCS1UG	A204_1UG	23 Feb 2016 01:07
58	30	An022223.d	1.	ALCS1UGD-022216	A204_1UG	23 Feb 2016 01:45
59	31	An022224.d	1.	C1602056-002A 10X	A204_1UG	23 Feb 2016 02:22
60	32	An022225.d	1.	C1602056-002A 40x	A204_1UG	23 Feb 2016 02:58
61	33	An022226.d	1.	C1602056-003A 10X	A204_1UG	23 Feb 2016 03:35
62	34	An022227.d	1.	C1602056-003A 40x	A204_1UG	23 Feb 2016 04:11
63	35	An022228.d	1.	C1602057-001A	A204_1UG	23 Feb 2016 04:50
64	36	An022229.d	1.	C1602057	A204_1UG -001A 40x	23 Feb 2016 05:27
65	37	An022230.d	1.	C1602057-002A	A204_1UG	23 Feb 2016 06:06
66	38	An022231.d	1.	C1602057-002A 90x	A204_1UG	23 Feb 2016 06:42
67	39	An022232.d	1.	C1602057-003A	A204_1UG	23 Feb 2016 07:21
68	40	An022233.d	1.		A204_1UG	23 Feb 2016 07:58
69	1	An022301.d	1.	BFB1UG	A204_1UG	23 Feb 2016 08:43
70	2	An022302.d	1.	BFB1UG	A204_1UG	23 Feb 2016 10:11
71	3	An022303.d	1.	A1UG_1.0	A204_1UG	23 Feb 2016 10:53
72	4	An022304.d	1.	ALCS1UG-022316	A204_1UG	23 Feb 2016 11:32
73	5	An022305.d	1.	AMB1UG-022316	A204_1UG	23 Feb 2016 12:08
74	6	An022306.d	1.	C1602051-001A	A204_1UG	23 Feb 2016 12:47
75	7	An022307.d	1.	C1602061-003A	A204_1UG	23 Feb 2016 13:35
76	8	An022308.d	1.	C1602061-002A	A204_1UG	23 Feb 2016 14:14
77	9	An022309.d	1.	C1602061-001A	A204_1UG	23 Feb 2016 14:52
78	10	An022310.d	1.	C1602061-001A 10X	A204_1UG	23 Feb 2016 15:46
79	11	An022311.d	1.	C1602061-002A 10X	A204_1UG	23 Feb 2016 16:22
80	12	An022312.d	1.	C1602057-001A 270X	A204_1UG	23 Feb 2016 16:58
81	13	An022313.d	1.	C1602057-002A 270X	A204_1UG	23 Feb 2016 17:35
82	14	An022314.d	1.	C1602057-003A 540X	A204_1UG	23 Feb 2016 18:11
83	15	An022315.d	1.	C1602050-005A	A204_1UG	23 Feb 2016 18:50
84	16	An022316.d	1.	C1602050-005A MS	A204_1UG	23 Feb 2016 19:32
85	17	An022317.d	1.	C1602050-005A MSD	A204_1UG	23 Feb 2016 20:15
86	18	An022318.d	1.	C1602050-001A	A204_1UG	23 Feb 2016 20:54
87	19	An022319.d	1.	C1602050-002A	A204_1UG	23 Feb 2016 21:33
88	20	An022320.d	1.	C1602050-003A	A204_1UG	23 Feb 2016 22:12
89	21	An022321.d	1.	C1602050-004A	A204_1UG	23 Feb 2016 22:51
90	22	An022322.d	1.	C1602050-006A	A204_1UG	23 Feb 2016 23:30
91	23	An022323.d	1.	C1602050-007A	A204_1UG	24 Feb 2016 00:08
92	24	An022324.d	1.	C1602050-008A	A204_1UG	24 Feb 2016 00:47
93	25	An022325.d	1.	ALCS1UGD-022316	A204_1UG	24 Feb 2016 01:26
94	26	An022326.d	1.	C1602050-005A 5x	A204_1UG	24 Feb 2016 02:03
95	27	An022327.d	1.	C1602050-001A 5x	A204_1UG	24 Feb 2016 02:40
96	28	An022328.d	1.	C1602050-002A 5x	A204_1UG	24 Feb 2016 03:17
97	29	An022329.d	1.	C1602050-003A 5x	A204_1UG	24 Feb 2016 03:53
98	30	An022330.d	1.	C1602050-004A 5x	A204_1UG	24 Feb 2016 04:30
99	31	An022331.d	1.	C1602050-006A 5x	A204_1UG	24 Feb 2016 05:07
100	32	An022332.d	1.	C1602050-007A 5x	A204_1UG	24 Feb 2016 05:44
101	33	An022333.d	1.	C1602050-008A 5x	A204_1UG	24 Feb 2016 06:20
102		An022334.d	1.	No MS or GC data present		
103	1	An022401.d	1.	BFB1UG	A204_1UG	24 Feb 2016 08:53
104	2	An022402.d	1.	A1UG	A204_1UG	24 Feb 2016 09:34
105	3	An022403.d	1.	ALCS1UG-022416	A204_1UG	24 Feb 2016 10:19

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-1155	12/17/15	12/24/15	TO15/UG- IS	A1150	17ppm	50ppm	0.9	45	10ppm	MD
A-1160				A1151						
A-1161				A1152						
A-1162	12/24/15	12/31/15	7015 IS	A0547	12/24/15	1.5	30	50ppm	MD	
A-1163				A0534	50ppm					
A-1164				A0548	17.5ppm					
A-1165				9515	50ppm					
A-1166				A1165	14ppm	50ppm	3.0	45	5	
A-1167				A0977	11.5ppm	0.20	45	50		
A-1168				9584	50ppm	3.0	30			
A-1169				A0270	1ppm	1.5				
A-1170				A0267	16ppm					
A-1171				A1162	50ppm	0.9	45	500		
A-1172				A1163						
A-1173				A1164						
A-1174	12/19/15	12/18/16	TO15 IS	FF-11200	LINDE					
A-1175	11/4/16	11/11/16	7015 IS	A1174	1ppm	1.5	2200 psia	1 ppm	MD	
A-1176				A0534						
A-1177				A0548						
A-1178				9515						
A-1179				A1178	50ppm	3.0		5		

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Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-1201	1/15/16	1/23/16	TO15 APH	A1188	1ppm	1.5	30	50	MO	
A-1202	↓	↓	TO15106 APH	A1201	50ppm	0.9	45	1	↓	
A-1203	1/15/16	1/15/17	TO15 MIX	↓	1ppm	LINDE TO15 MIX	1ppm	1ppm	MO	
A-1204	1/18/16	1/18/17	LCS TO15	LL	A0534	STD IS NOW LCS	1ppm	1ppm	2.E	
A-1205	1/18/16	1/25/16	TO15 JS	A1174	1ppm	1.5	30	50ppb	MO	
A-1206	↓	↓	LCS	A1204	↓	↓	↓	↓	↓	
A-1207	↓	↓	STD	A1203	↓	↓	↓	↓	↓	
A-1208	↓	↓	TO15 FORM	A0974	11.5ppm	0.20	45	↓	↓	
A-1209	↓	↓	SILOX	A0974 A001	500ppm	3.0	30	↓	↓	
A-1210	↓	↓	GULF	A0276	1ppm	1.5	↓	↓	↓	
A-1211	↓	↓	H2S	A0265	1ppm	↓	↓	500ppm	↓	
A-1212	↓	↓	TO15 4PCH	9519	1ppm	1.5	30	50ppm	↓	
A-1213	↓	↓	4PCH	A1212	50ppm	3.0	↓	5ppm	↓	
A-1214	↓	↓	TO15106 JS	A1205	↓	0.9	45	1ppm	↓	
A-1215	↓	↓	STD	A1207	↓	↓	↓	↓	↓	
A-1216	↓	↓	LCS	A1206	↓	↓	↓	↓	↓	
A-1217	1/25/16	2/1/16	TO15 JS	A1174	1ppm	1.5	30	50ppb	WD	
A-1218	↓	↓	STD	A1203	↓	↓	↓	↓	↓	
A-1219	↓	↓	LCS	A1204	↓	↓	↓	↓	↓	
A-1220	↓	↓	4PCH	9519	↓	↓	↓	↓	↓	
A-1221	↓	↓	4PCH	A1220	50ppm	3.0	30	5	↓	

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-1264	2/15/16	2/22/16	TO15 146 LCS	A1255	50 ppb	0.9	45	1	WD	
A-1265	2/22/16	2/29/16	TO15 IS	A1174	1 ppm	1.5	30	50	WD	
A-1266			STD	A1203						
A-1267			LCS	A1204						
A-1268			4PCH	9519						
A-1269			4PCHS	A1268	50 ppb	3.0	30	5		
A-1270			FORM	A0974	115 ppm	0.20	45	50		
A-1271			SILOX	A1088 A1089	500 ppb	3.0	30	50		
A-1272			SOLF	A0270	1 ppm	1.5	30	50		
A-1273			H2S	A0269	10 ppm	1.5	30	500		
A-1274			TO15 146 IS	A1265	50 ppb	0.9	45	1		
A-1275			STD	A1266						
A-1276			LCS	A1267						
A-1277	2/29/16	3/7/16	TO15 IS	A1174	1 ppm	1.5	30	50	WD	
A-1278			STD	A1203						
A-1279			LCS	A1204						
A-1280			4PCH	9519						
A-1281			4PCHS	A1280	50 ppb	3.0	30	5		
A-1282			FORM	A0974	11.5 ppm	0.20	45	50		
A-1283			SILOX	A1088 A1089	500 ppb	3.0	30	50		
A-1284			SOLF	A0270	1 ppm	1.5	30	50		

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GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

QC Canister Cleaning Logbook

Centek Laboratories, LLC

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig stir/stp)
360	245	30	12-15-15	WAC121515A	log/m3 ± 0.25	+ 30
555						+
92						+
1185						+
245						+
161	170			WAC121515B		+
223						+
1184						+
158						+
170						+
96	171			WAC121515C		+
326						+
353						+
1191						+
171						+
1208	1196			WAC121515D		+
482						+
216						+
1323						+
1196						+
487	1203			WAC121515E		+
484						+
210						+
1319						+
1203						+

Centek Laboratories, LLC

Instrument: Entech 3100

QC Canister Cleaning Logbook

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig stir/stp)
1191	552	20	2-3-16	WACO20316A	1ug 0.25	+ 30 + 30
1316	↓	↓	↓	↓	↓	↓
163	↓	↓	↓	↓	↓	↓
347	↓	↓	↓	↓	↓	↓
552	↓	↓	↓	↓	↓	↓
368	86	↓	↓	WACO20316B	↓	↓
141	↓	↓	↓	↓	↓	↓
195	↓	↓	↓	↓	↓	↓
161	↓	↓	↓	↓	↓	↓
86	↓	↓	↓	↓	↓	↓
1175	1185	↓	↓	WACO20316C	↓	↓
362	↓	↓	↓	↓	↓	↓
460	↓	↓	↓	↓	↓	↓
170	↓	↓	↓	↓	↓	↓
1185	↓	↓	↓	↓	↓	↓
1187	95	↓	↓	WACO20316D	↓	↓
1177	↓	↓	↓	↓	↓	↓
286	↓	↓	↓	↓	↓	↓
465	↓	↓	↓	↓	↓	↓
95	↓	↓	↓	↓	↓	↓
419	350	↓	↓	WACO20316E	↓	↓
93	↓	↓	↓	↓	↓	↓
562	↓	↓	↓	↓	↓	↓
222	↓	↓	↓	↓	↓	↓
356	↓	↓	↓	↓	↓	↓

Cleaned by: ESD

Form C151

Page # 126

Instrument: Entech 3100

[illegible]

Cleaned by: RF

Form C151

Page # 127

Data File : C:\HPCHEM\1\DATA2\2015DEC\AM121509.D

Vial: 9

Acq On : 15 Dec 2015 3:27 pm

Operator: RJP

Sample : WAC121515D

Inst : MSD #1

Misc : AD11_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 15 19:53:44 2015

Quant Results File: AD11_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AD11_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Sat Dec 12 10:13:36 2015

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.06	128	26931	1.00	ppb	0.04
35) 1,4-difluorobenzene	12.28	114	134683	1.00	ppb	0.01
50) Chlorobenzene-d5	16.75	117	115879	1.00	ppb	0.01

System Monitoring Compounds

66) Bromofluorobenzene	18.31	95	90235	0.96	ppb	0.01
------------------------	-------	----	-------	------	-----	------

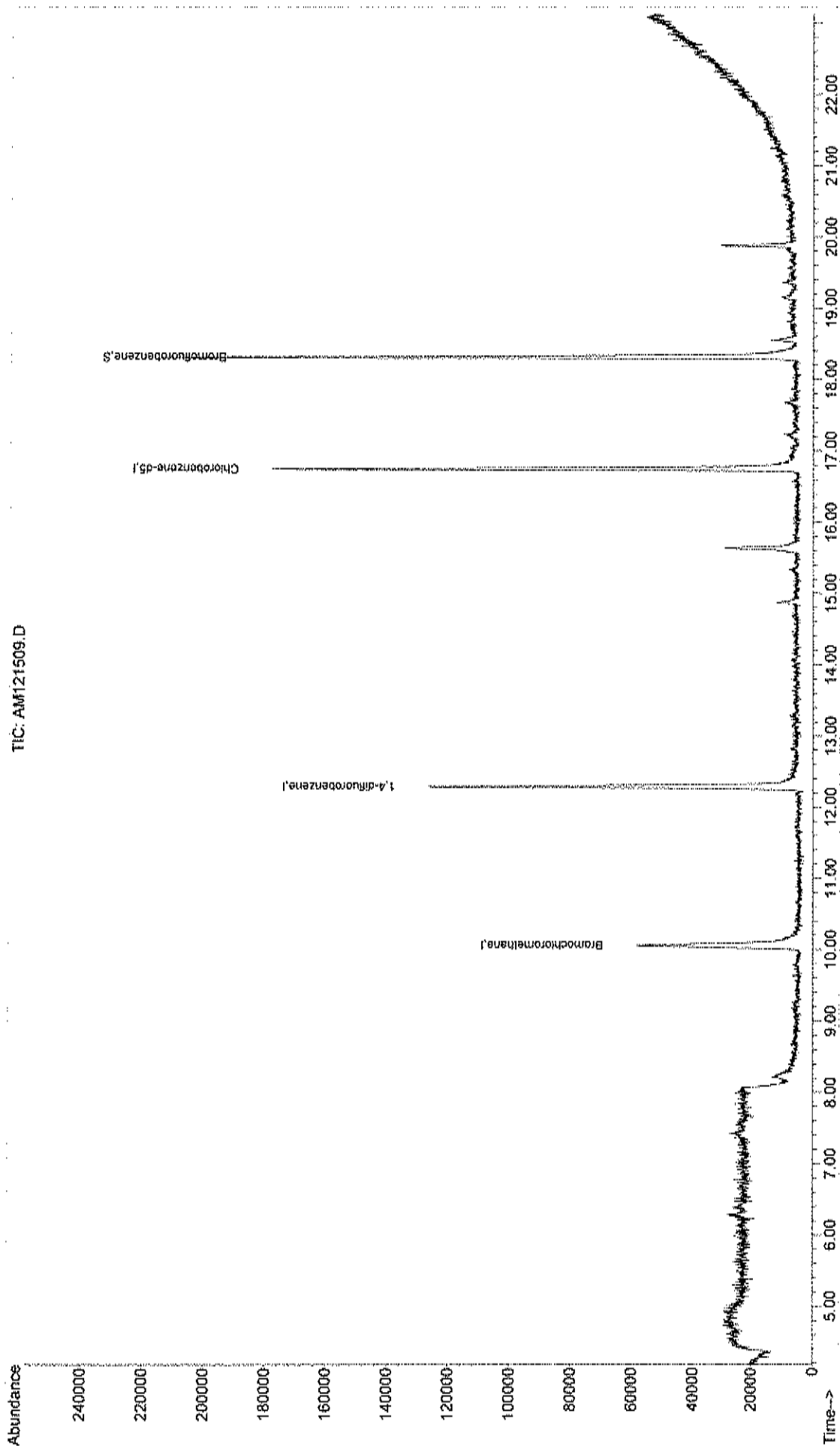
Spiked Amount	1.000	Range	70 - 130	Recovery	=	96.00%
---------------	-------	-------	----------	----------	---	--------

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\2015DEC\AM121509.D
Acq On : 15 Dec 2015 3:27 pm
Sample : WAC121515D
Misc : AD11_IUG
MS Integration Params: RTEINT.P
Quant Time: Dec 16 9:43 2015
Quant Results File: AD11_IUG.RES

Method : C:\HPCHEM\1\METHODS\A204_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 09:50:16 2016
Response via : Initial Calibration



Quantitation Report

(QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2015DEC\AM121510.D

Vial: 10

Acq On : 15 Dec 2015 4:04 pm

Operator: RJP

Sample : WAC121515E

Inst : MSD #1

Misc : AD11_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 15 19:53:57 2015

Quant Results File: AD11_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AD11_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Sat Dec 12 10:13:36 2015

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.05	128	26925	1.00	ppb	0.03
35) 1,4-difluorobenzene	12.29	114	130096	1.00	ppb	0.02
50) Chlorobenzene-d5	16.75	117	110989	1.00	ppb	0.01

System Monitoring Compounds

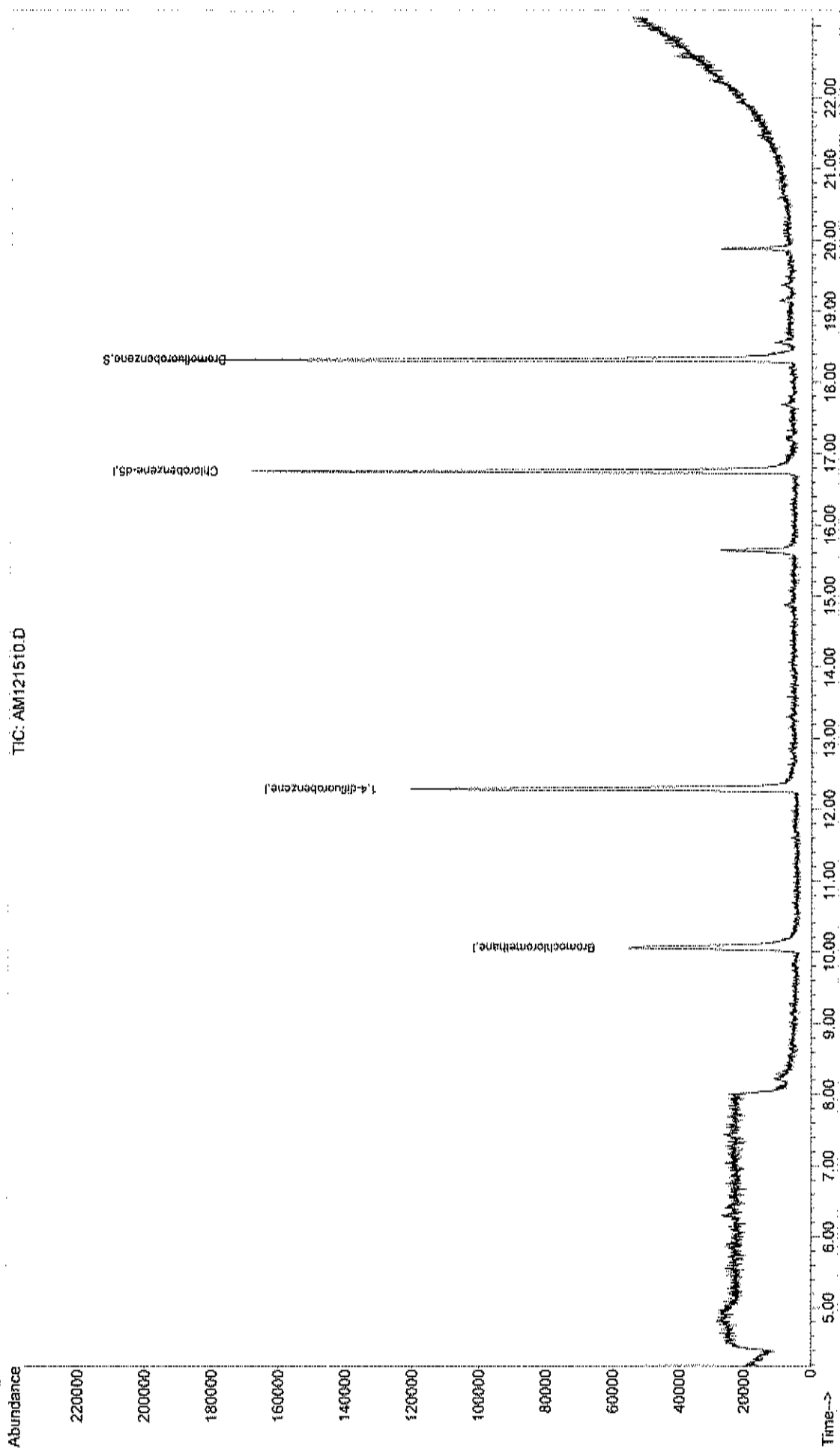
66) Bromofluorobenzene	18.32	95	86501	0.96	ppb	0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	96.00%

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\2015DEC\AM121510.D
Acq On : 15 Dec 2015 4:04 pm
Sample : WAC121515E
Misc : AD11_IUG
MS Integration Params: RTEINT.P
Quant Time: Dec 16 9:43 2015
Quant Results File: AD11_IUG.RES

Method : C:\HPCHEM\1\METHODS\A204_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 09:50:16 2016
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AN020327.D

Vial: 1

Acq On : 4 Feb 2016 3:06 am

Operator: RJP

Sample : WAC020316A

Inst : MSD #1

Misc : A131_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 05:56:07 2016

Quant Results File: A131_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A131_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Feb 01 08:39:52 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.85	128	26042	1.00	ppb	0.04
35) 1,4-difluorobenzene	12.10	114	113997	1.00	ppb	0.02
50) Chlorobenzene-d5	16.59	117	101071	1.00	ppb	0.01

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	56017	0.74	ppb	0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	74.00%

Target Compounds

Qvalue

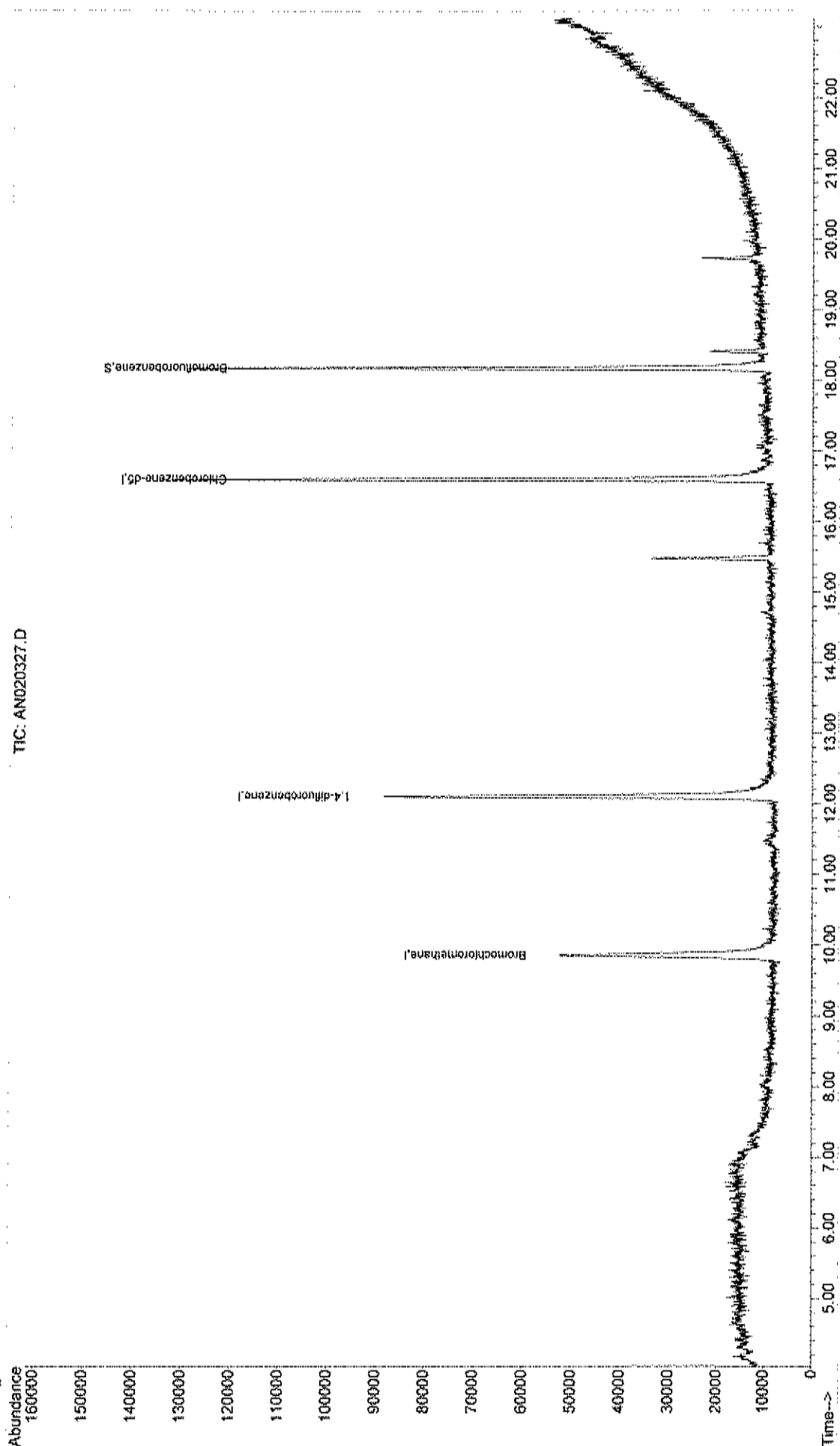
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AN020327.D
Acq On : 4 Feb 2016 3:06 am
Sample : WAC020316A
Misc : A131_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:50 2016

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A131_1UG.RES

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 09:50:16 2016
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AN020328.D

Vial: 2

Acq On : 4 Feb 2016 3:43 am

Operator: RJP

Sample : WAC020316B

Inst : MSD #1

Misc : A131_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 05:56:08 2016

Quant Results File: A131_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A131_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Feb 01 08:39:52 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.84	128	25724	1.00	ppb	0.03
35) 1,4-difluorobenzene	12.09	114	112724	1.00	ppb	0.02
50) Chlorobenzene-d5	16.59	117	99470	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	55869	0.75	ppb	0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	75.00%

Target Compounds

Qvalue

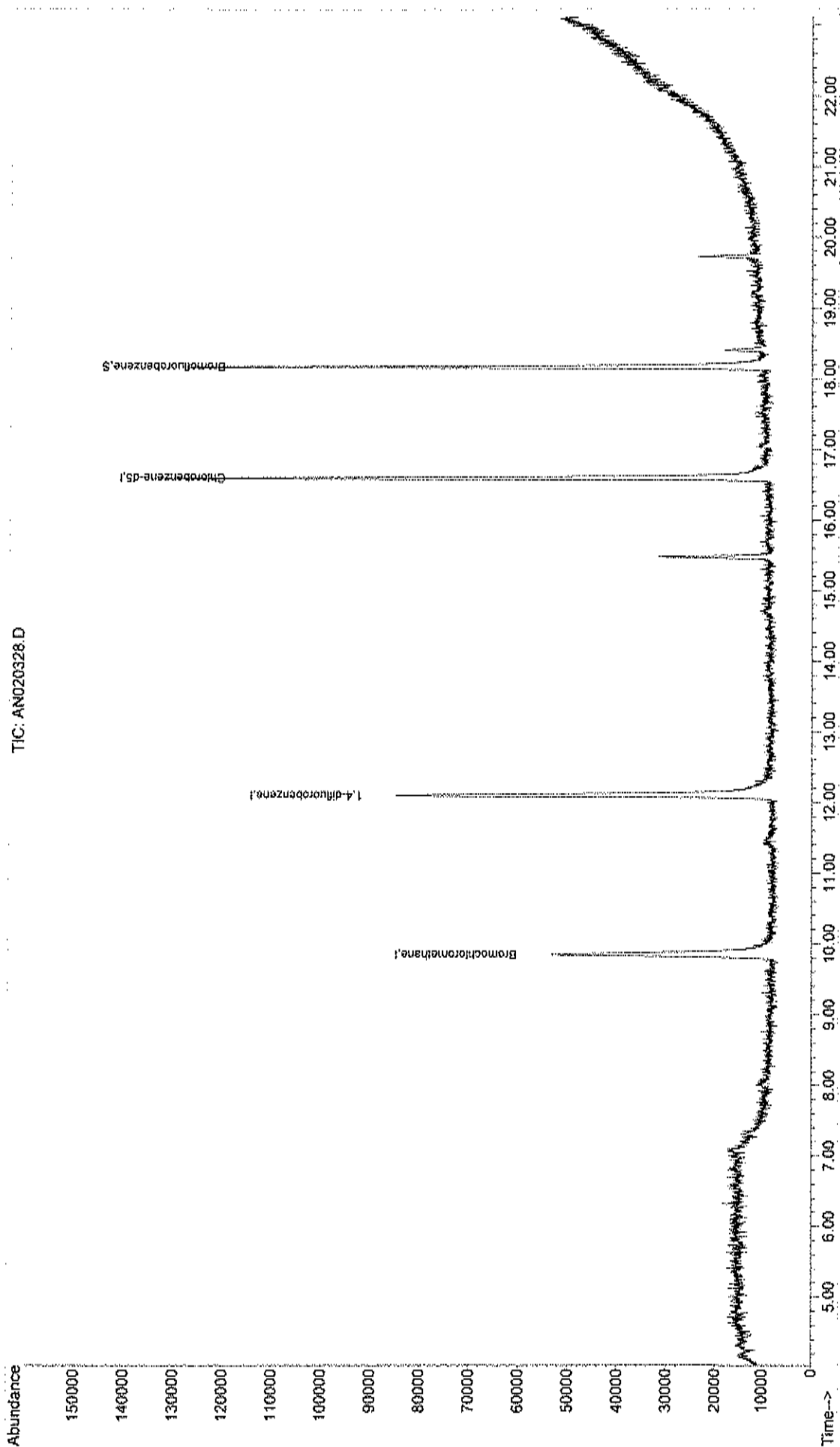
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AN020328.D
Acq On : 4 Feb 2016 3:43 am
Sample : WAC020316B
Misc : A131_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:51 2016

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A131_1UG.RBS

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 09:50:16 2016
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AN020329.D

Vial: 3

Acq On : 4 Feb 2016 4:21 am

Operator: RJP

Sample : WAC020316C

Inst : MSD #1

Misc : A131_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 05:56:09 2016

Quant Results File: A131_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A131_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Feb 01 08:39:52 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.84	128	25072	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.10	114	111435	1.00	ppb	0.03
50) Chlorobenzene-d5	16.59	117	99534	1.00	ppb	0.00

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	54434	0.73	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	73.00%

Target Compounds

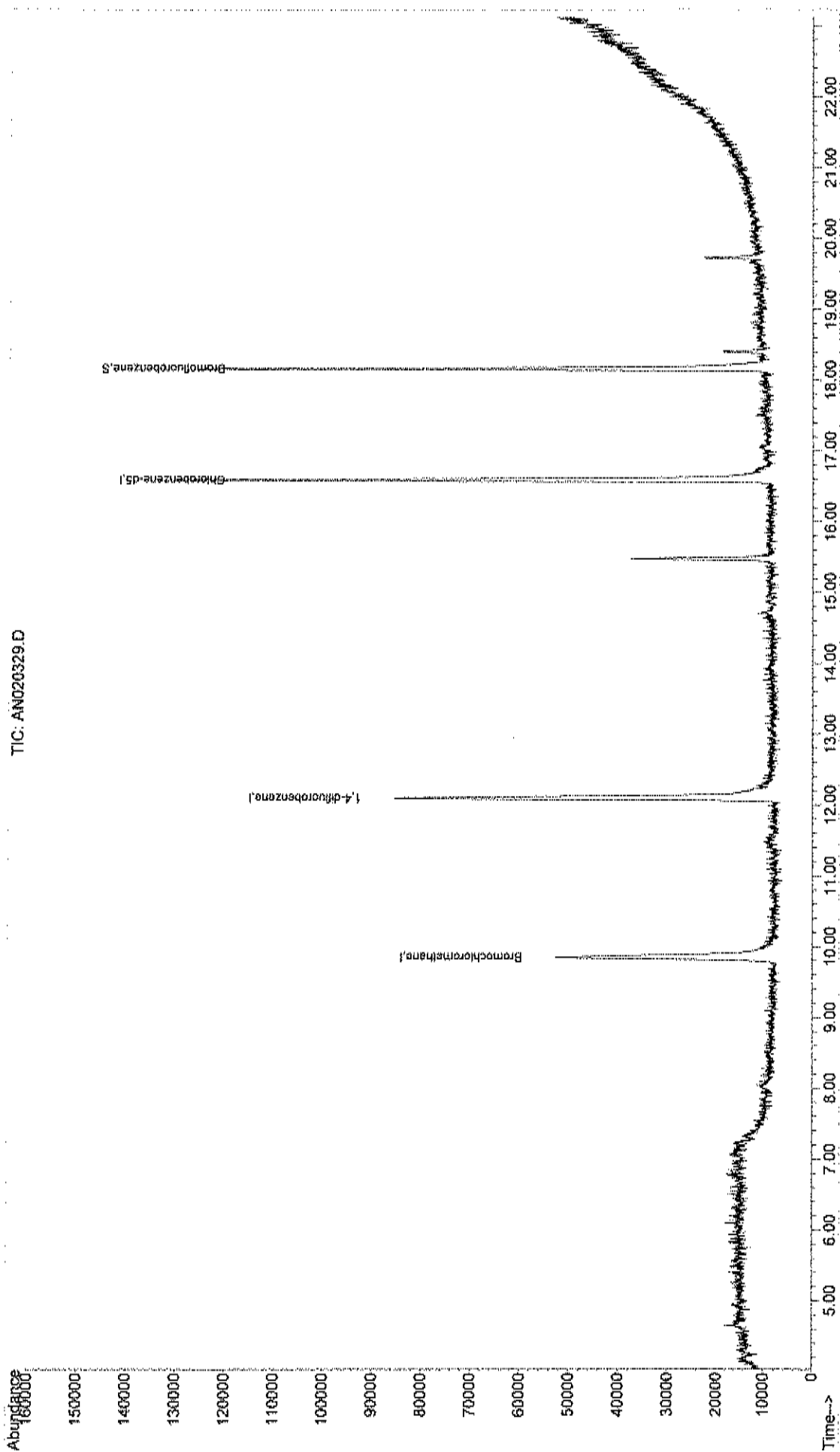
Qvalue

Data File : C:\HPCHEM\1\DATA2\AN020329.D
Acq On : 4 Feb 2016 4:21 am
Sample : WAC020316C
Misc : A131_IUG
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:51 2016

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A131_IUG.RES

Method : C:\HPCHEM\1\METHODS\A204_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 09:50:16 2016
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AN020330.D

Vial: 4

Acq On : 4 Feb 2016 4:59 am

Operator: RJP

Sample : WAC020316D

Inst : MSD #1

Misc : A131_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 05:56:10 2016

Quant Results File: A131_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A131_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Feb 01 08:39:52 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.85	128	24679	1.00	ppb	0.04
35) 1,4-difluorobenzene	12.10	114	106473	1.00	ppb	0.02
50) Chlorobenzene-d5	16.59	117	90932	1.00	ppb	0.01

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	53852	0.79	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	79.00%

Target Compounds

Qvalue

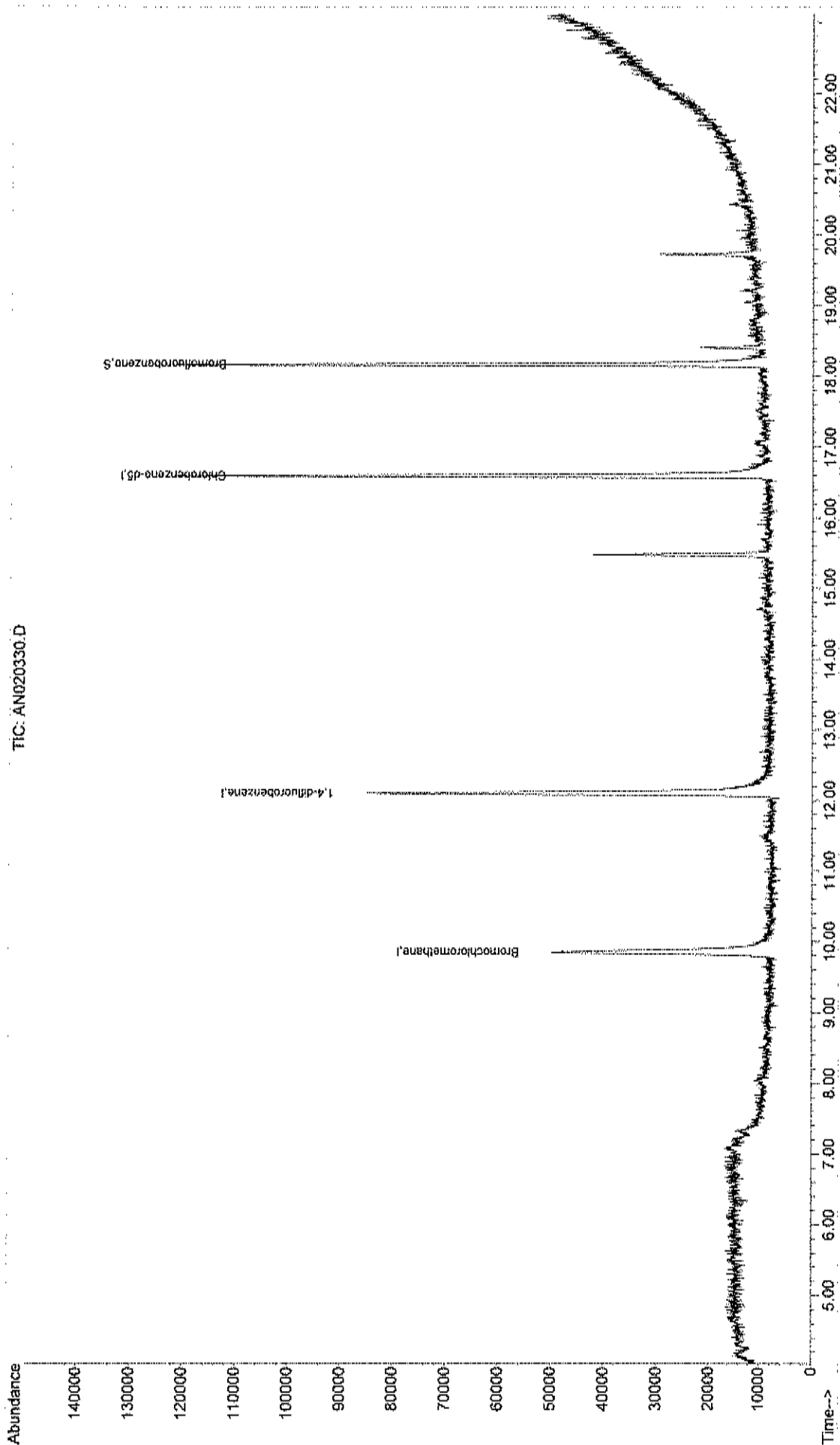
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AN020330.D
Acq On : 4 Feb 2016 4:59 am
Sample : WAC020316D
Misc : A131_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:51 2016

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A131_1UG.RES

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 09:50:16 2016
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AN020331.D

Vial: 5

Acq On : 4 Feb 2016 5:36 am

Operator: RJP

Sample : WAC020316E

Inst : MSD #1

Misc : A131_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 07:41:07 2016

Quant Results File: A131_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A131_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Feb 01 08:39:52 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.85	128	24637	1.00	ppb	0.04
35) 1,4-difluorobenzene	12.10	114	103984	1.00	ppb	0.03
50) Chlorobenzene-d5	16.59	117	91581	1.00	ppb	0.01

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	52765	0.77	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	77.00%

Target Compounds

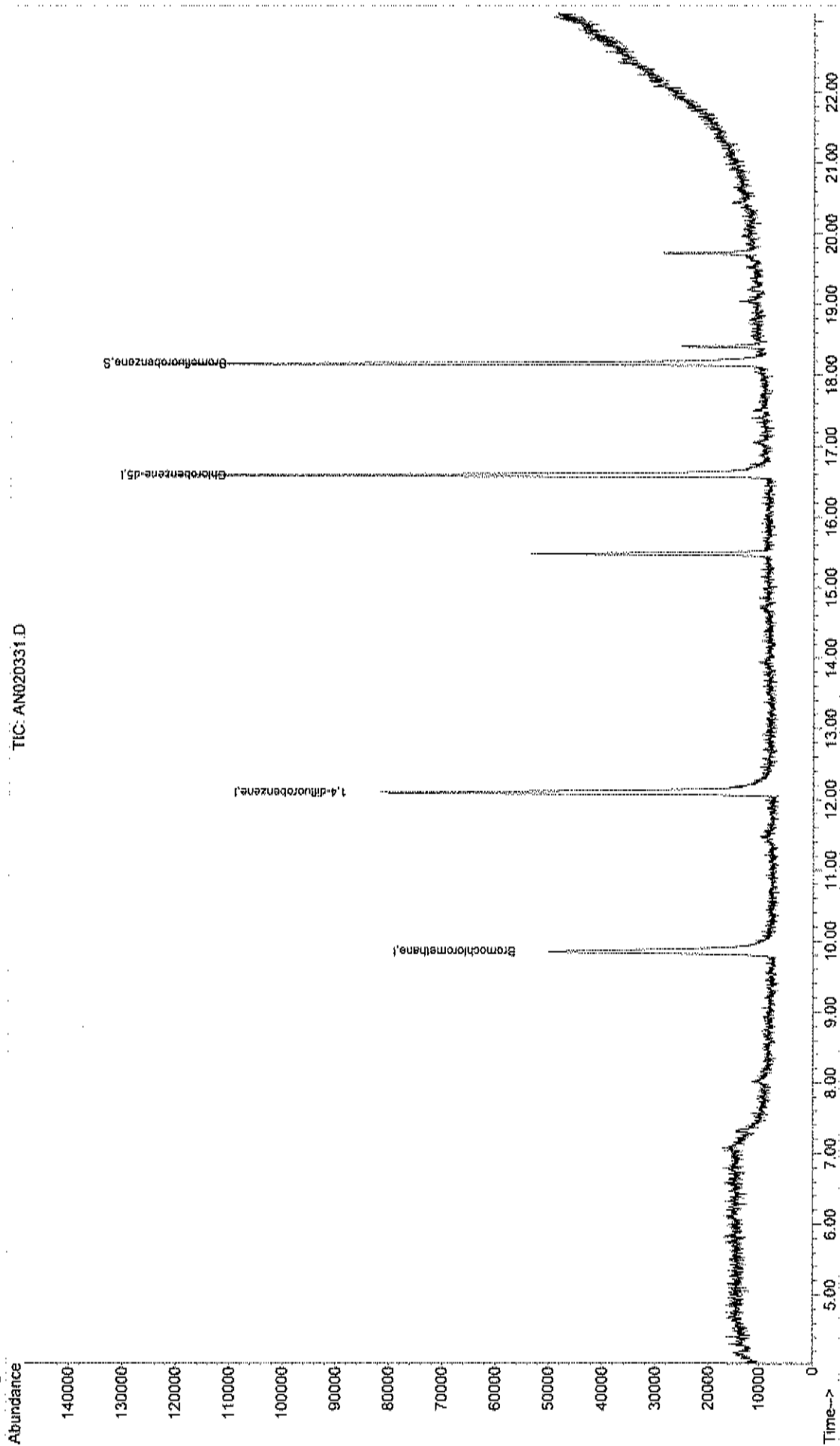
Qvalue

Data File : C:\HPCHEM\1\DATA2\AN020331.D
Acq On : 4 Feb 2016 5:36 am
Sample : WAC020316E
Misc : A131_IUG
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:51 2016

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A131_IUG.RES

Method : C:\HPCHEM\1\METHODS\A204_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 09:50:16 2016
Response via : Initial Calibration



Quantitation Report

(QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AN020332.D

Vial: 6

Acq On : 4 Feb 2016 6:14 am

Operator: RJP

Sample : WAC020316F

Inst : MSD #1

Misc : A131_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 04 07:41:15 2016

Quant Results File: A131_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A131_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Feb 01 08:39:52 2016

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.85	128	24368	1.00	ppb	0.03
35) 1,4-difluorobenzene	12.10	114	105845	1.00	ppb	0.02
50) Chlorobenzene-d5	16.60	117	88707	1.00	ppb	0.02

System Monitoring Compounds

66) Bromofluorobenzene	18.16	95	50504	0.76	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	76.00%

Target Compounds

Qvalue

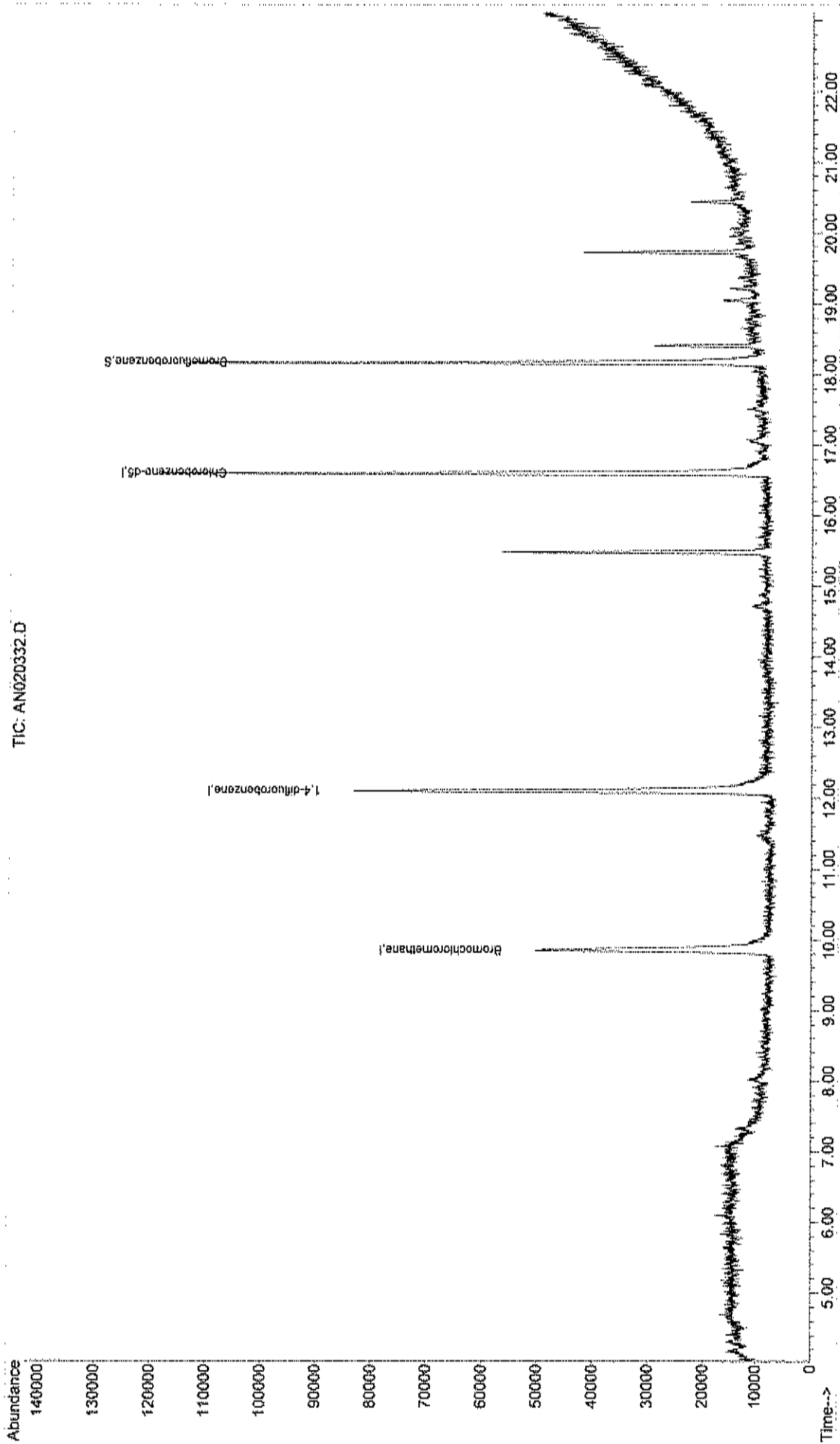
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AN020332.D
Acq On : 4 Feb 2016 6:14 am
Sample : WAC020316F
Misc : A131_1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 4 11:51 2016

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A131_1UG.RES

Method : C:\HPCHEM\1\METHODS\A204_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Mar 03 09:50:16 2016
Response via : Initial Calibration



APPENDIX C

SSDS INSPECTION AND PRESSURE FIELD EXTENSION READINGS

Sub-Slab Depressurization System - Pressure Field Extension Testing Results

PROJECT NAME: NYSDEC BCP SITE NO. C828159
LOCATION: 690 ST. PAUL STREET, ROCHESTER, NEW YORK
LABELLA PROJECT # : 209280

Date	Monitoring Point Identification & Measurements (" WC)											Operation Notes
	MP-1	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7	MP-8	MP-9	MP-10	MP-11	
Jan-09	-0.133	-0.152	-0.170	-0.153	0.047	0.050	-0.005	-0.012	NA	-0.662	NA	System Working
Dec-09	-0.028	-0.162	-0.184	-0.184	NA	0.048	-0.009	-0.006	NA	NA	NA	
Feb-10	-0.139	-0.139	-0.148	-0.151	0.028	0.032	0.006	0.016	0.034	NA	NA	
Mar-10	-0.028	-0.130	-0.177	-0.174	0.021	0.013	0.000	-0.005	-0.202	NA	NA	
Apr-10	-0.043	-0.129	-0.116	-0.189	0.016	0.018	0.000	-0.009	-0.0290	NA	NA	
May-10	-0.155	-0.171	-0.184	-0.222	0.005	0.020	0.000	-0.008	-0.024	NA	NA	
Jun-10	-0.168	-0.218	-0.210	-0.205	0.000	-0.007	-0.017	-0.181	-0.206	NA	NA	Fan #1 (East) Down
Aug-10	0.067	0.048	0.022	0.041	0.002	0.00	-0.017	-0.092	-0.263	NA	NA	
Oct-10	0.038	0.021	0.008	0.011	0.001	0.00	-0.020	-0.090	-0.239	NA	NA	
Dec-10	0.000	-0.103	-0.162	-0.126	0.041	0.049	0.003	0.000	0.000	NA	NA	System Working
Feb-11	-0.057	NA	NA	NA	0.025	0.014	0.000	-0.005	-0.011	NA	NA	
Jul-11	-0.060	NA	-0.179	NA	0.000	0.003	0.000	0.000	-0.017	NA	NA	
Aug-11	-0.092	-0.127	NA	-0.173	0.000	0.000	-0.001	-0.006	-0.066	NA	NA	Initiate Pilot Test
14-Sep-11	-0.097	-0.201	-0.212	-0.21	-0.044	-0.019	-0.010	-0.038	-0.054	NA	NA	
23-Sep-11	-0.004	-0.074	-0.129	-0.233	-0.022	-0.023	0.000	-0.001	-0.201	NA	NA	Terminate Pilot Test Post Readings
28-Dec-11	-0.148	-0.172	-0.178	-0.180	0.073	0.074	-0.027	0.000	-0.138	NA	NA	System Working
30-Mar-12	-0.008	-0.0018	-0.0098	-0.148	0.037	0.039	0.000	0.000	-0.012	NA	NA	
19-Apr-12	0.000	-0.035	-0.025	-0.06	0.013	0.011	0.000	0.000	0.000	NA	NA	Fan #2 (West) Down
26-Apr-12	0.000	-0.124	-0.045	-0.029	0.000	0.000	0.000	0.000	0.000	NA	NA	Fan #2 (West) Up and 2 new systems
30-Apr-12	0.000	-0.116	-0.094	-0.093	0.000	0.000	-0.005	-0.003	-0.004	NA	NA	Systems Working
25-May-12	---	---	---	---	-0.038	-0.039	0.000	0.000	---	NA	NA	
5-Jun-12	0.000	-0.044	-0.053	---	-0.024	-0.029	0.000	-0.005	0.000	NA	NA	
12-Jun-12	0.000	---	---	---	---	-0.03	0.000	0.000	0.000	NA	NA	Fan Switched Between 2 New Systems
12-Jun-12	-0.018	---	---	---	-0.023	-0.024	0.000	0.000	-0.115	NA	NA	
14-Jun-12	-0.020	-0.119	-0.110	-0.147	-0.009	-0.013	0.000	0.000	-0.211	NA	NA	System Working
19-Jun-12	-0.140	-0.087	-0.064	-0.169	-0.020	-0.021	-0.018	0.000	-0.184	NA	NA	
13-Jul-12	-0.109	-0.174	---	-0.217	-0.019	-0.029	0.000	0.000	-0.155	NA	NA	
24-Jul-12	-0.117	-0.086	-0.18	-0.217	-0.014	-0.015	0.000	0.000	-0.016	NA	NA	
12-Nov-12	-0.057	-0.167	-0.242	-0.218	-0.005	-0.004	0.000	0.000	-0.168	NA	-0.049	
21-Mar-13	-0.135	-0.121	-0.142	-0.136	0.000	0.000	0.001	0.000	-0.084	NA	-0.032	
23-Jul-13	-0.167	-0.209	-0.247	-0.228	-0.037	-0.033	0.003	0.000	-0.084	NA	-0.071	
20-Sep-13	-0.160	-0.221	-0.227	-0.236	-0.044	-0.037	-0.011	-0.003	-0.152	NA	-0.064	
28-Jan-14	-0.079	-0.035	-0.127	-0.111	0.026	0.020	0.020	0.000	-0.101	NA	-0.044	Fans #3 & #4 Down (Turned on and
27-Jan-15	-0.032	-0.034	-0.033	-0.018	0.000	-0.046	-0.034	0.000	-0.038	NA	NA	System Working
17-Feb-16	-0.075	-0.025	-0.033	-0.089	-0.062	-0.031	-0.025	NA*	-0.022	NA	NA	
18-Apr-17	-0.088	-0.045	-0.109	-0.092	-0.044	-0.031	-0.030	NA*	-0.055	NA	NA	

Notes:

- All measurements shown in Inches of Water Column (" WC)

"---" = not collected

NA = Not Accessible at the time of sampling

*Monitoring point location MP-8 is not longer accessible as renovations in the building by the occupant have made the point unaccessible

SUB-SLAB DEPRESSURIZATION SYSTEM INSPECTION FORM

PROJECT NAME: NYSDEC BCP SITE NO. C828159
 LOCATION: 690 ST. PAUL STREET, ROCHESTER, NEW YORK
 LABELLA PROJECT #: 209280
 LABELLA REP: M. PELYCHATY
 DATE: April 18, 2017
 WEATHER: ~80-85 F, CLOUDY

LOCATION	OPERATIONAL	VACUUM READING (INCHES OF WATER)	ALARM WORKING
SSDS WEST	YES	3.0	YES
SSDS EAST	YES	9.5	YES
SSDS FAN #3	YES	1.85	YES
SSDS FAN #4	YES	0.075	YES

SSDS PIPING CHECK CONDITION (GOOD/FAIR/POOR)

	AS FOUND CONDITION	AS LEFT CONDITION
CHASE	GOOD	GOOD
6TH FLOOR PIPING	GOOD	GOOD
PIPING ON ROOF	GOOD	GOOD
EXHAUST POINT ABOVE ROOF	GOOD	GOOD
TUBING	GOOD	GOOD
VACUUM GAUGES	GOOD	GOOD
INTEGRITY OF JOINT SEALS	GOOD	GOOD
BALL VALVES ON TRAPS	GOOD	GOOD
CONDITION OF LABELS	GOOD	GOOD
OVERALL CONDITION OF SSDS	GOOD	GOOD

NOTES:

SUB-SLAB DEPRESSURIZATION SYSTEM INSPECTION FORM

PROJECT NAME: NYSDEC BCP SITE NO. C828159
LOCATION: 690 ST. PAUL STREET, ROCHESTER, NEW YORK
LABELLA PROJECT # 209280
LABELLA REP: M. PELYCHATY
DATE: February 17, 2016
WEATHER: ~20-30 F, CLOUDY, INTERMITTENT SNOW

LOCTION	OPERATIONAL	VACUUM READING (INCHES OF WATER)	ALARM WORKING
SSDS WEST	YES	3.0	YES
SSDS EAST	YES	10.0	YES
SSDS FAN #3	YES	0.40	YES
SSDS FAN #4	YES	0.07	YES

SSDS PIPING CHECK CONDITION (GOOD/FAIR/POOR)

	AS FOUND CONDITION	AS LEFT CONDITION
CHASE	GOOD	GOOD
6TH FLOOR PIPING	GOOD	GOOD
PIPING ON ROOF	GOOD	GOOD
EXHAUST POINT ABOVE ROOF	GOOD	GOOD
TUBING	GOOD	GOOD
VACUUM GAUGES	GOOD	GOOD
INTEGRITY OF JOINT SEALS	GOOD	GOOD
BALL VALVES ON TRAPS	GOOD	GOOD
CONDITION OF LABELS	GOOD	GOOD
OVERALL CONDITION OF SSDS	GOOD	GOOD

NOTES: